

Cleanup Action Report

701 South Jackson Street
Seattle, Washington

for

701 S Jackson Partners, LLC
c/o Housing Diversity Corp

February 20, 2024



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Fourth & Blanchard Building
2101 4th Avenue, Suite 950
Seattle, Washington 98121
206.728.2674

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Prepared for:

701 S Jackson Partners, LLC
c/o Housing Diversity Corp
159 S. Jackson Street
Seattle, Washington 98104

Attention: Brad Padden

Prepared by:

GeoEngineers, Inc.
2101 4th Avenue, Suite 950
Seattle, Washington 98121
206.728.2674



Robert S. Trahan, LG
Senior Environmental Scientist



Tim L. Syverson, LHG
Associate

CJG:RST:TLS:ch

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ACRONYMS AND ABBREVIATIONS

Acronym/ Abbreviation	Description
ACM	Asbestos-Containing Material
AGO	Assistant Attorney General
BTEX	Benzene, Toluene, Ethylbenzene, and Xylenes
bgs	below ground surface
CAP	Cleanup Action Plan
CFR	Code of Federal Regulations
City	City of Seattle
cPAH	Carcinogenic Polycyclic Aromatic Hydrocarbon
CMMP	Contaminated Media Management Plan
COCs	Contaminants of Concern
Ecology	Washington State Department of Ecology
EAI	Environmental Associates, Inc.
EC	Environmental Covenant
EDB	1,2-Dibromoethane
EICMMP	Engineering and Institutional Controls Monitoring and Maintenance Plan
EIM	Environmental Information Management
EPA	United States Environmental Protection Agency
Farallon	Farallon Consulting
FS	Feasibility Study
GCMP	Groundwater Compliance Monitoring Plan
GeoGroup	Geo Group Northwest, Inc.
HAZWOPER	Hazardous Waste Operations and Emergency Response
HBM	Hazardous Building Materials
HVOC	Halogenated Volatile Organic Compound
IDP	Inadvertent Discovery Plan
Landau	Landau Associates Inc.
LUST	Leaking Underground Storage Tank
mg/kg	Milligram per Kilogram
MTCA	Model Toxics Control Act

NAVD88	North American Vertical Datum 1988
NESHAP	National Emissions Standard for Hazardous Air Pollutants
OSHA	Occupational Safety and Health Act
PCB	Polychlorinated Biphenyl
PCE	tetrachloroethylene
PPCD	Prospective Purchaser Consent Decree
Property	701 South Jackson Street
RA	Remedial Area
RCRA	Resource Conservation and Recovery Act
RCW	Revised Code of Washington
RI	Remedial Investigation
ROW	Right-of-Way
SEPA	State Environmental Policy Act
Site	Seventh Avenue Service
South Jackson Partners	701 S Jackson Partners, LLC
TCLP	Toxicity Characteristic Leaching Procedure
TEQ	Toxic Equivalency Quotient
TPH	Total Petroleum Hydrocarbons
USGS	United States Geological Survey
UST	Underground Storage Tank
VCP	Voluntary Cleanup Program
VI	Vapor Intrusion
VOC	Volatile Organic Compound
WAC	Washington Administrative Code
WISHA	Washington Industrial Safety and Health Act

EXECUTIVE SUMMARY

Introduction

This report documents the cleanup actions completed for the Seventh Avenue Service Site (Site) located at 701 South Jackson Street within the Chinatown-International District neighborhood of Seattle, Washington (Figure 1). In accordance with the Washington State Department of Ecology (Ecology) *Cleanup Action Plan* (CAP, Ecology 2022), Ecology-approved *Contaminated Media Management Plan* (CMMP; GeoEngineers 2023a), *Ecology-approved Quality Assurance Project Plan* (QAPP; GeoEngineers 2023b), and Chapter 173-340 of the Washington Administrative Code (WAC), cleanup actions were completed by 701 S Jackson Partners, LLC (South Jackson Partners) to address petroleum-related contamination resulting from historical land use in conjunction with the redevelopment of the 701 South Jackson Street property (Property). The cleanup actions removed soil with petroleum-related contamination from within the footprint of the planned redevelopment. Access prevented removal of soil with residual petroleum-related contamination at concentrations greater than the Model Toxics Control Act (MCTA) cleanup level from west of the Property within portions of the 7th Avenue South and South Jackson Street Rights-of-Way (ROWS).



Rendering of the proposed redevelopment at 701 South Jackson Street looking southeast across South Jackson Street (Image: Neiman Taber Architects)

Redevelopment plans for the Property include a new eight-story building with affordable housing and ground level commercial retail space (see rendering above). As part of the redevelopment, the existing buildings and structures were demolished followed by Property-line to Property-line excavation of soils to a depth of approximately 15 to 20 feet below ground surface (bgs; approximately Elevation 85 to 78 feet (North American Vertical Datum 1988 [NAVD88])). Construction excavation for Property redevelopment was completed in August 2023. Construction of the new building, including installation of a vapor barrier

followed by restoration of the adjacent surface pavement features, as necessary, is anticipated to begin in spring 2024.

Site Conditions and Regulatory Framework

Based on environmental investigations conducted between 1992 and 2022, soil in the central and western portions of the Property contained gasoline-range total petroleum hydrocarbons, benzene, toluene, ethylbenzene, and xylenes (BTEX) and naphthalene at concentrations greater than the Model Toxics Control Act (MTCA) cleanup levels resulting from the former gasoline service station and garage that historically operated at the Property between the 1930s and 1970s. Additionally, localized areas of the shallow fill soil imported to the Property during initial area-wide development activities contained lead and carcinogenic polycyclic aromatic hydrocarbons (cPAHs) at concentrations greater than the MTCA cleanup levels.

To facilitate cleanup as part of the Property redevelopment, South Jackson Partners entered into a Prospective Purchaser Consent Decree (PPCD; No. 22-2-15886-7 SEA) with Ecology.

Cleanup Action

In accordance with the Ecology-approved *Remedial Investigation/Feasibility Study (RI/FS) Report* (GeoEngineers 2022), Property-line to Property-line soil excavation to a depth of approximately 15 to 20 feet bgs (anticipated depth of contamination based on the previous investigation results) and appropriate off-site disposal during Property redevelopment was identified as the most effective and permanent remedy to address the soil contamination at the Site. Due to the access challenges and risks to remove the residual soil contamination beyond the Property boundary, Ecology agreed that the remaining contamination would be better managed through institutional controls in the form of an Environmental Covenant (EC) to prohibit or limit activities that may interfere with the cleanup integrity or result in exposure to contamination.

As detailed in the Section 8.0 (Soil Cleanup Action Implementation and Sequencing) of the CAP and Sections B.1 through B.5 of Exhibit D- Schedule of Deliverables of the PPCD, a phased approach was implemented by South Jackson Partners for the cleanup action. The initial phase of the cleanup action included remedial excavation activities corresponding to the Soil Cleanup Action required by the CAP as part of construction for Property redevelopment. Remedial excavation activities were completed between June and August 2023 and resulted in full removal of soil contamination within the Property boundary based on the field screening observations and results for the confirmation soil samples collected at the final remedial excavation limits. Remedial excavation activities resulted in the removal of 2,479.75 tons (approximately 1,600 cubic yards) of gasoline, BTEX, naphthalene, cPAH and/or lead contaminated soil from the Site. Residual contamination based on confirmation soil sample and previous investigation results currently remains in-place beneath portions of the South Jackson Street and 7th Avenue South ROWs and will be managed with post-construction compliance monitoring, and engineering and institutional controls.

The second phase of the cleanup action will be completed during building construction and will include installation of a vapor barrier and restoration of the adjacent surface pavement features, as necessary. Building construction is anticipated to begin in spring 2024.

Future Compliance Monitoring

Consistent with the overall cleanup action objectives, long-term groundwater and soil vapor/indoor air monitoring and Property maintenance will be conducted following building construction and restoration of the adjacent surface pavement features, as necessary, to mitigate the potential for the vertical migration

of residual contamination through the soil column to the deep groundwater beneath the Site. Engineering and institutional controls will prevent direct contact with residual soil remaining in place, limit stormwater infiltration through the soil column, and mitigate the potential for vapor intrusion. Periodic monitoring and corrective actions, as necessary, will be performed to document that the function of the Site controls is maintained to protect human health and the environment. Compliance groundwater and soil vapor/indoor air monitoring will also be performed to evaluate and document post-construction groundwater and soil vapor conditions at the Site.

Specific details regarding the long-term monitoring and maintenance will be described in an Engineering and Institutional Controls Monitoring and Maintenance Plan (EICMMP) and Compliance Monitoring Plan (CMP) that will be prepared for Ecology review and approval in accordance with the CAP.

This Executive Summary should be used only in the context of the full report for which it is intended.

1.0 INTRODUCTION

This *Cleanup Action Report (CAR)* documents the remedial activities completed by 701 S Jackson Partners, LLC (South Jackson Partners) for the Seventh Avenue Service Site (Site) located at 701 South Jackson Street (Property) in Seattle, Washington (Figure 1). Remedial activities were completed in conjunction with Property redevelopment in accordance with the Washington State Department of Ecology (Ecology) *Cleanup Action Plan (CAP; Ecology 2022)*, the Ecology-approved *Contaminated Media Management Plan (CMMP; GeoEngineers 2023a)*, the Ecology-approved *Quality Assurance Project Plan (QAPP; GeoEngineers 2023b)*, and Chapter 173-340 of the Washington Administrative Code (WAC) to address petroleum-related contamination resulting from historical land use and contaminants contained within the imported fill placed at the Property during initial area-wide development. To facilitate cleanup as part of Property redevelopment, South Jackson Partners entered into a *Prospective Purchaser Consent Decree (PPCD; No. 22-2-15886-7 SEA)* with Ecology. The Site is formally referenced in the Ecology database as the “Seventh Avenue Service” with Ecology Facility ID No. 99187287 and Cleanup Site ID No. 11348.

Based on visual observations, field screening results and/or chemical analytical data, contaminated soil with detected concentrations of gasoline-range total petroleum hydrocarbons, benzene, toluene, ethylbenzene and xylenes (BTEX), naphthalenes, carcinogenic polycyclic aromatic hydrocarbons (cPAHs) and/or lead greater than the Model Toxics Control Act (MTCA) cleanup levels associated with historical land use was successfully removed from within the Property boundary (Property-line to Property-line) to its full depth. Post-construction monitoring will be conducted to evaluate and document the current groundwater and soil vapor/ indoor air conditions following the completion of the soil cleanup action.

To meet the overall cleanup action objectives, residual contamination currently remaining in-place west of the Property within portions of the 7th Avenue South and South Jackson Street Rights-of-Way (ROWs) at concentrations greater than the MTCA cleanup level will be managed through engineering controls and institution controls in the form of an Environmental Covenant (EC). Engineering and institutional controls will be maintained to 1) prevent direct contact to humans, 2) limit stormwater infiltration that could lead to the migration of this residual contamination through the soil column toward the deep regional groundwater unit beneath the Site, and 3) mitigate the potential for vapor intrusion.

Long-term monitoring and maintenance of engineering controls will be performed post-construction to document that the Site controls are maintained to limit potential exposure to the residual contamination remaining in place beneath portions of the South Jackson Street and 7th Avenue South ROWs. Compliance groundwater and soil vapor/indoor air monitoring will continue after the EC is established to evaluate and document long-term effectiveness of cleanup action at the Site. Specific details regarding long-term monitoring and maintenance of engineering controls will be described in an Engineering and Institutional Controls Monitoring and Maintenance Plan (EICMMP) and Compliance Monitoring Plan (CMP) that will be prepared and submitted to Ecology for review and approval in accordance with the *CAP*.

1.1. Report Layout and Purpose

The purpose of this report is to document the contaminated soil removal activities performed during Property redevelopment to meet the cleanup action objectives. This report is organized into the following sections:

- Section 1.0 (Introduction) introduces the document with a brief description of the Site, purpose, and organization of the report.
- Section 2.0 (Background Information) describes the Site location, historical land use, Property redevelopment, Site conditions based on previous investigations and regulatory framework for cleanup.
- Section 3.0 (Cleanup Action Requirements) presents the cleanup action objectives, cleanup standards, and other requirements applicable to the cleanup action.
- Section 4.0 (Cleanup Action) describes the cleanup actions completed during the construction activities for Property redevelopment.
- Section 5.0 (Post-Construction Compliance Monitoring) summarizes post-construction monitoring and maintenance activities that will be completed.
- Section 6.0 (Conclusions) summarizes the soil removal actions performed to meet the overall cleanup action objectives.
- Section 7.0 (Limitation) describes the limitations of the use of this report.
- Section 8.0 (References) lists the references used in preparing this report.

2.0 BACKGROUND INFORMATION

2.1. Location and Description

The Property is located at 701 South Jackson Street within the Chinatown-International District neighborhood of Seattle, Washington (Figure 1). The Property is bounded by South Jackson Street to the north, 7th Avenue South to the west, a mixed-use retail and apartment building (currently vacant) to the south, and a restaurant building (formerly House of Hong) to the east (Figure 2). Surface grades surrounding the Property slope toward the southwest with elevations ranging from approximately 106 feet to approximately 93 feet¹.

The Property (currently being redeveloped) previously contained two single-story structures, including a former gasoline station building in the northwest portion and an “L”-shaped automobile repair garage along the east and south Property boundaries, and paved parking and drive areas. A former small building on the southwest corner of the Property was previously used as a storage room for “New Century Tea Gallery”.

2.2. Historical Operations and Land Use

Following the Jackson Street regrade project in 1927, the Property has been used for automobile repair and fueling services. During initial development, a large “L”-shaped building was constructed along the southern and eastern portions of the Property for vehicle service/repair. As early as 1932, a gasoline service station was added to the northwest portion of the Property until sales of gasoline ceased in the 1970s. Available records indicated that the former gasoline service station operations included two gasoline underground storage tanks (USTs) and an associated fuel dispenser/pump island. In 2010, these two gasoline USTs associated with the service station were decommissioned and removed from the Property. Note that four additional USTs associated with historical operations were encountered during

¹ Elevations in this document are referenced to North American Vertical Datum 1988 (NAVD88).

construction (Section 4.9). The previously undocumented UST were subsequently decommissioned and removed from the Property.

The Property layout including historical land use prior to redevelopment is shown in Figure 2.

2.3. Property Redevelopment and Future Use

Redevelopment plans for the Property include a new eight-story building with affordable housing and ground level commercial retail space. As part of the redevelopment, the existing buildings and structures were demolished followed by Property-line to Property-line excavation of soils to a depth of approximately 15 to 20 feet below ground surface (bgs; approximately Elevation 85 to 78 feet). Construction excavation for Property redevelopment was completed in August 2023. Construction of the new building is anticipated to begin in spring 2024.

2.4. Previous Environmental Investigations

Several environmental investigations (see Figure 2) have been conducted at the Site, beginning with an initial soil investigation in 1992, and culminating in the Remedial Investigation (RI) and Feasibility Study (FS) in 2022. Environmental investigations completed at and/or adjacent to the Site include:

- Site Characterization Study by Geo Group Northwest, Inc (Geo Group) in August 1992 (Geo Group 1992).
- Phase II Subsurface Investigation by Geo Group in February 2006 (Geo Group 2006).
- UST Removal and Site Assessment by Environmental Associates, Inc. (EAI) in November 2010 (EAI 2010).
- Focused Phase II Investigation by Landau Associates Inc. (Landau) in November 2011 (Landau 2011).
- Source Characterization Study by Farallon Consulting (Farallon) between October and November 2019 (Farallon 2019).
- RI by GeoEngineers Inc. (GeoEngineers) between May 2021 and April 2022. The results of the RI and subsequent FS are presented in the *RI/FS Report* (GeoEngineers 2022).

A detailed summary of the investigation activities is presented in the *RI/FS Report*. Based on the previous investigation findings, the soil, groundwater, and environmental conditions prior to completion of the cleanup action are summarized in the following sections (Sections 2.4.1 through 2.4.3). Site conditions based on the results of the previous investigations are summarized in plan view in Figures 3 through 6 and in generalized geologic cross-section in Figures 7 and 8.

2.4.1. Soil Conditions

According to the United States Geological Survey (USGS) Seattle South Quadrangle topographic map, the ground surface of the Property and surrounding area slopes down gently to the southwest toward Elliot Bay (USGS 2011). The underlying soil is identified as pre-Vashon deposits consisting of interbedded sand, gravel, silt, and poorly sorted mixtures that are of unspecified age and origin (Troost, et al 2005). The pre-Vashon deposits are mapped as glacially deposited and are very dense and hard silt, sand, gravel and till, which have been regraded.

Based on investigations completed to evaluate Site conditions (listed above), up to approximately 10 feet of fill consisting of silty fine to fine sand with silt containing occasional debris (concrete, plastic, metal, and brick debris) was identified to overly native glacial deposits. The glacial deposits consist of an interbedded fine sand with silt and clayey silt up to an approximate depth of 12 feet bgs. Fine to medium silty sand and sand with trace silt underlies the interbedded silt and clayey silt deposits to an approximate depth of 20 feet bgs. Deposits from approximately 20 feet to the maximum depth explored (approximately 76 feet bgs) consist of fine sand with varying amounts of silt and clayey silt.

2.4.2. Groundwater Conditions

Moist and/or wet soil interpreted as shallow perched groundwater was observed in five of the 25 borings completed at the Site at depths ranging from approximately 12 to 15 feet and 20 to 26 feet bgs. Based on the investigation results, shallow groundwater is perched; however, the occurrence of this unit is discontinuous and not widespread.

A deep regional groundwater unit was identified beneath the Site at a depth ranging from approximately 61 to 69 feet bgs (Elevation 31 to 34 feet), based on the depths to groundwater measured in one deep temporary monitoring well completed in the central portion of the Property (GEI-1), and two deep permanent monitoring wells (GEI-11 and GEI-12) completed within the west adjacent 7th Avenue South ROW. Based on the measured depths to groundwater, the location of the Property relative to prominent surface water (i.e., Puget Sound) and local topography, the inferred regional groundwater flow direction is to the west-northwest.

2.4.3. Environmental Conditions

The results from previous environmental investigation activities indicate that soil in the central and western portions of the Property contained gasoline-range total petroleum hydrocarbons, BTEX, and naphthalene at concentrations greater than the MTCA cleanup levels between approximately 5 and 20 feet bgs (approximately Elevation 95 to 80 feet). Additionally, localized areas of the shallow fill soil imported to the Property during construction for the previous structures contained lead (GEI-6) and carcinogenic polycyclic aromatic hydrocarbons (cPAHs; GEI-4) at concentrations greater than the MTCA cleanup levels at a depth of approximately 2.5 feet bgs. Other contaminants of potential concern including diesel- and heavy oil-range total petroleum hydrocarbons, volatile organic compounds (VOCs; not including BTEX), halogenated VOCs (HVOs), metals (not including lead) and polychlorinated biphenyls (PCBs) either were not detected at concentrations greater than the laboratory reporting limits or were detected at concentrations less than the corresponding MTCA cleanup levels.

Analytical results for groundwater samples collected from the deep regional groundwater unit (GEI-1, GEI-11 and GEI-12) indicate that contaminants either were not detected at concentrations greater than the laboratory reporting limits or were detected at concentrations less than the MTCA cleanup levels.

Concentrations of total petroleum hydrocarbons (sum of EC5-8 aliphatics, EC9-12 aliphatics and EC9-10 aromatics) detected in shallow sub-slab vapor samples at locations SSV-1 and SSV-2 and deep sub-slab vapor sample locations SSV-2 and SSV-3 were greater than the MTCA Method B soil gas screening levels. In addition, the benzene, 1,2-dibromoethane (EDB) and naphthalene concentrations were greater than the MTCA Method B soil gas screening values in shallow soil in the northern and southwestern portions of the Property.

Chemical analytical results for soil, groundwater and soil gas samples based on the previous investigation studies are summarized in Tables 1 through 3, respectively.

2.5. Regulatory Framework

The Site is listed by Ecology with Facility/Site No. 99187287 and Cleanup Site ID No. 11348 and has been identified as a Leaking Underground Storage Tank (LUST) site (LUST No. 6172) for benzene, naphthalene, and gasoline-range total petroleum hydrocarbons confirmed in soil at concentrations greater than the MTCA cleanup levels. As part of the planned redevelopment, South Jackson Partners entered into a PPCD (PPCD No. 22-2-15886-7 SEA) with Ecology and AGO to facilitate cleanup as part of the Property redevelopment.

Prior to initiating the PPCD process, the Site was enrolled in Ecology's Voluntary Cleanup Program (VCP) to receive Ecology's technical advice and assistance on the independent RI/FS. The Site entered into the Expedited VCP on April 23, 2021, and was assigned VCP No. XS0009. Upon initiating the PPCD process, the VCP agreement governing No. XS0009 was terminated.

3.0 CLEANUP ACTION REQUIREMENTS

3.1. Cleanup Action Plan

In accordance with the Ecology-approved RI/FS, Property-line to Property-line soil excavation to a depth of approximately 15 to 20 feet bgs (anticipated depth of contamination based on the previous investigation results) and appropriate off-site disposal during Property redevelopment was identified as the most effective and permanent remedy to address the soil contamination at the Site. Due to the challenges and risks to remove the residual soil contamination beyond the Property boundary, Ecology determined that the remaining contamination would be better managed through institutional controls in the form of an EC to prohibit or limit activities that may interfere with the cleanup integrity or result in exposure to contamination. Specifically, the objective of the cleanup action is to mitigate risks associated with the following exposure routes:

- Direct contact with contaminated soil.
- Leaching/migration of contaminants from soil to groundwater.
- Contaminant migration from soil via vapor intrusion to indoor air.

To meet the overall cleanup action objectives, a phased approach was developed by South Jackson Partners where soil contamination within the Property boundary would be removed using standard earthwork technologies with verification based on confirmation soil samples (corresponding to the Soil Cleanup Action described in the CAP), followed by compliance monitoring, building construction, installation of a vapor barrier and restoration of the adjacent surface pavement features, as necessary.

A detailed evaluation of the cleanup action alternatives, requirements and approach to address Site contamination is presented in the *RI/FS Report* and *CAP*.

3.2. Cleanup Standards

Cleanup standards consist of (1) cleanup levels that are protective of human health and the environment, and (2) the point of compliance at which the cleanup level must be met. Cleanup standards for the Site are presented below.

3.2.1. Soil

Soil cleanup levels are established as the MTCA Method A cleanup levels for unrestricted land use. MTCA Method B standard formula values for direct contact and the protection of groundwater are used for contaminants that do not have MTCA Method A cleanup level. The standard point of compliance for soil based on protection of groundwater is throughout the Site (WAC 173-340-740(6)(b)).

The soil cleanup levels established for the Site are presented in Table 1.

3.2.2. Groundwater

Groundwater cleanup levels are established as the MTCA Method A cleanup levels for unrestricted land use. MTCA Method B cleanup levels calculated using Equation 720-1 (for non-carcinogens) and Equation 720-2 (for carcinogens) are used for contaminants that do not have a MTCA Method A cleanup level. The standard point of compliance for groundwater is from the uppermost level of the saturated zone extending vertically to the lowest depth which could potentially be affected by the Site.

The groundwater cleanup levels established for the Site are presented in Table 2.

3.2.3. Soil Vapor

Soil vapor (i.e., the air in the pore space between soil grains in the unsaturated zone) can be affected by volatilization of gasoline-range hydrocarbons, BTEX and other volatile organics in soil. The risk of exposure from soil vapor is by intrusion into enclosed spaces and subsequent inhalation by commercial workers, visitors and/or future occupants. The soil vapor cleanup level is based on the MTCA Method B indoor air screening level for unrestricted land use, although indoor air screening levels based on a commercial worker scenario are also considered based on current and future land use.

The indoor air cleanup levels established for the Site are presented in Table 3.

3.2.4. Applicable Regulatory Requirements

Because the Site cleanup action was performed pursuant to the MTCA under the terms of the PPCD with Ecology, the cleanup action met the permit exemption provisions of MTCA (WAC 173-340-710[9]), obviating the need to follow the procedural requirements of most State and local laws that would otherwise apply to the action. The cleanup action did however require the following permits:

- **ROW and Street Use Permit** – A portion of 7th Avenue South was closed to vehicular and pedestrian traffic for contractor staging and soil transport activities to facilitate the cleanup action. Subsequently, a ROW and Street Use Permit was obtained from the City of Seattle (City) by the contractor for use during construction.
- **Demolition Permit** – Demolition of existing buildings, concrete and other structures was completed at the Site. A demolition permit was obtained from the City by the contractor for use during construction.

- **Wastewater Discharge Permit** – In preparation for the planned construction activities, a wastewater discharge permit was obtained from the City by the contractor for use during construction.

In addition to the permits listed above, the substantive requirements of applicable State and local laws and other applicable regulatory requirements were followed during implementation of the cleanup action, including the following:

- Substantive requirements of City of Seattle building, and construction permits.
- Requirements of the State Environmental Policy Act (SEPA; Revised Code of Washington [RCW] 43.21C; WAC 197-11) and the SEPA procedures (WAC 173-802).
- Requirements of the Washington Industrial Safety and Health Act (WISHA; RCW 49.17) and the Federal Occupational Safety and Health Act (Code of Federal Regulation [CFR] Chapter 29 Parts 1910 and 1926) for health and safety during construction activities.
- Requirements of the Resource Conservation and Recovery Act (RCRA) and the National Emissions Standard for Hazardous Air Pollutants (NESHAP) that regulate the abatement and disposal of asbestos-containing materials (ACM). Federal NESHAP 40 CFR Part 61 and the Northwest Clean Air Agency (Section 570 – Asbestos Control Standards) regulate ACM work.
- Requirements for removal, handling and disposal of Universal Waste regulated by Ecology in accordance with WAC 173-303. Universal wastes encountered during building demolition include fluorescent tubes and ballasts that are required to be handled and disposed of in accordance with WAC 173-303-573. Additional hazardous building materials, including lead and PCBs, are required to be removed, handled and disposed of in accordance with WAC 173-303.
- Noise ordinance requirements under State environmental noise standards (WAC 173-60).
- Archaeological Sites and Resources requirements (RCW 27.53).

4.0 CLEANUP ACTION

4.1. Worker Health and Safety

Personnel coming into contact with contaminated soil during construction were subject to the requirements of the Occupational Safety and Health Act (OSHA; 29 CFR 1910, 1926) and WISHA (RCW 49.17). These regulations include requirements that workers are to be protected from exposure to contaminants. In addition, personnel working in these areas were required to obtain Hazardous Waste Operations and Emergency Response (HAZWOPER) training in accordance with WAC 296-843 prior entering the work area.

4.2. Temporary Site Controls

The following sections describe the temporary site controls implemented during construction activities at the Property. The construction layout and temporary site controls are shown in Figure 9.

4.2.1. Site Access, Security and Traffic Control

Site access, security and traffic controls were installed prior to the start of the construction activities. A combination of existing and temporary fencing (chain link fence) was used around the perimeter of the

construction area to secure and limit access of the general public to the work areas. A gated access point was established along 7th Avenue South for construction personnel, vehicles, and equipment.

Signage was positioned along 7th Avenue South and South Jackson Street to notify vehicular and/or pedestrian traffic of construction activities. The sidewalks located west of the Property along 7th Avenue South were closed to the public during construction. Pedestrian traffic was rerouted in accordance with City requirements. Traffic control within portions of 7th Avenue South and South Jackson Street was performed by the City of Seattle Police Department during active work hours.

The material export/import truck haul route to/from the construction area was established along 7th Avenue and included arterial streets within downtown Seattle in accordance with City requirements.

4.2.2. Temporary Erosion and Sediment Control (TESC)

BMPs consistent with Ecology's Stormwater Management Manual for Western Washington (Ecology 2019) and as required by the City were used to control erosion and stormwater pollution during construction. The BMPs implemented during the cleanup action generally included:

- Use of filter socks within catch basins adjacent to the construction area to prevent sediment from entering the stormwater system;
- Stabilizing Site access points using quarry spalls, as appropriate, to minimize the tracking of sediment onto surface streets;
- Sweeping of surface streets to remove tracked out soil; and
- Securing and covering of stockpiled soil with plastic sheeting to protect from wind, rain, and other disturbances, as conditions warranted.

Erosion control measures were maintained throughout the duration of the project and inspected by the contractor on a regular basis to ensure their effectiveness.

4.2.3. Dust and Noise Control

Engineering controls, including wetting ground surfaces and covering exposed soil stockpiles, as necessary, were used during construction to meet regulatory substantive restrictions for the off-site transport of airborne particulates/fugitive dust. In addition, street sweeping was performed, as necessary, in areas where construction traffic mixed with general vehicular traffic.

Construction noise generated by a variety of construction equipment, including truck engines, generators, other small engines and earthmoving equipment was generally limited to daylight hours between 7:00 a.m. and 6:00 p.m., Monday through Friday. No exceptions or request for variances to the allowable work hours were made during construction.

4.2.4. Spill Prevention

Contingency measures were utilized to reduce the risk of spills, including the release of fuel, hydraulic fluid, and contaminated wastewater. The refueling or machinery maintenance operations were conducted in a manner to prevent releases to Site soils. Additionally, fuel hoses, fuel containers, oil or transfer valves and

fittings, and any motorized equipment used during the project were inspected regularly for drips or leaks. No spills from construction equipment were noted during construction.

4.3. Utility Locate and Demolition

Prior to the start of construction, STS Construction (STS; general contractor) coordinated utility locates for the Property and surrounding ROWs. The Washington State Utilities Underground Location Center (UULC) and a private utility locating service were contacted to complete utility locates. Utilities located within the construction footprint include underground power, water, stormwater, sewer and telephone. Portions of the stormwater and sanitary sewer were video inspected prior to and following construction as required by the City to ensure no damage to these structures.

Utilities servicing the former structures and/or paved portions of the Property were cut and capped at the Property boundary as required by the City. Utilities located within the Property boundary were demolished.

4.4. Building Demolition

Former structures associated with the gasoline service station, automotive repair garage and storage building for the New Century Tea Gallery were demolished to facilitate access and removal of underlying petroleum-contaminated material and construction of the new mixed-use building complex. Abatement activities were completed prior to demolition, as necessary, in accordance with applicable regulations. Non-regulated building materials were then demolished and transported from the Property for permitted disposal.

Other demolition debris including asphalt and concrete paved surfaces were segregated and transported from the Property for recycling as appropriate.

4.5. Waste Disposal Authorization

Chemical analytical data from previous environmental investigations (discussed in Section 2.4 and summarized in Table 1) were used to complete solid waste profiles for the permitted disposal of contaminated materials generated during construction. Waste disposal authorizations were obtained for the following facilities:

- Cadman's treatment and disposal facility located in Everett, Washington.
- Republic Service's Rabanco-Roosevelt Landfill located in Klickitat County, Washington via the 3rd and Lander Transfer Station located in Seattle, Washington.

Waste disposal authorization and bills of lading (i.e., material manifests) were maintained by STS throughout the construction excavation. Waste disposal records are presented in Appendix A.

4.6. Material Management During Construction

Based on the previous investigation results, three soil management units were developed as part of the CMMP to guide the earthwork contractor during soil excavation activities in the proper handling and disposal of each waste stream to comply with state and federal solid waste regulations. Soil management units developed for construction are summarized in the following sections (Sections 4.6.1 through 4.6.3).

4.6.1. Category 1 Soil

Category 1 soil was defined as being generally considered “clean” for transport and disposal to an owner-approved fill location based on the following characteristics:

- Physical evidence of contamination (sheen, odor, staining, etc.) is **not** observed;
- Contaminant concentrations are not detected for all contaminants of concern (COCs), other than metals; and,
- Metals are detected at concentrations that are less than natural background concentrations for Puget Sound region (Ecology 1994).

4.6.2. Category 2 Soil

Category 2 soil was defined as containing residual contamination at concentrations greater than Property-specific background levels, but less than the MTCA cleanup levels. Category 2 material would be acceptable to be transported to a controlled and permitted landfill such as Cadman’s treatment and disposal facility located in Everett, Washington, and/or other owner-approved landfill based on the following characteristics:

- Physical evidence of contamination (sheen, odor, staining, etc.) is **not** observed, and
- Contaminant concentrations are detected **less** than the MTCA cleanup levels.

4.6.3. Category 3 Soil

Category 3 soil was defined as containing residual contamination at concentrations greater than the MTCA cleanup levels that would be subject to permitted disposal such as Cadman’s treatment and disposal facility located in Everett, Washington, and/or other owner-approved landfill based on the following characteristics:

- Physical evidence of contamination (sheen, odor, staining, etc.) **is** observed; or,
- Contains one or more contaminants with a detected concentration greater than the MTCA cleanup level.

4.7. Verification Sampling and Analysis

A plan for sampling and analysis was developed to be completed during construction to verify the removal of Category 3 soil from the Property and/or to document the nature and extent of residual contamination at the construction excavation limits as described in the CMMP and QAPP. In accordance with the CMMP and QAPP, verification and confirmation monitoring included the collection of soil samples from the base and sidewalls of the excavation areas completed to remove Category 3 soil at the Property once field screening evidence of contamination was no longer observed and/or the limits of construction were reached. Specifically, verification/confirmation sampling included:

- Collection of discrete grab samples at a rate of approximately one soil sample per approximately 625 square feet of excavation base.
- Collection of discrete grab samples at the rate of one sample per every 40 lineal feet of excavation sidewall or if length of excavation sidewall is less than 40 feet, a minimum of one sample per excavation sidewall.

Confirmation soil samples to verify the removal of petroleum-related contaminants resulting from historical gasoline service station operations were submitted to Fremont Analytical of Seattle, Washington under standard chain-of-custody and submitted for the following analysis:

- Gasoline-range total petroleum hydrocarbons (TPH) by United States Environmental Protection Agency (EPA) Method NWTPH-Gx
- Diesel- and heavy oil-range TPH by EPA Method NWTPH-Dx²
- BTEX by EPA Method 8260
- Naphthalenes by EPA Method 8270

In addition, confirmation soil samples were collected to verify the removal of lead-containing soil previously identified in fill at location GEI-4 at an approximate depth of 2.5 feet bgs, and to verify the removal of cPAHs previously identified in fill soil at location GEI-6 at an approximate depth of 2.5 feet bgs. These samples were analyzed for lead by EPA 6000/7000 method series and cPAHs by EPA Method 8270 SIM.

To the extent practicable, soil samples were analyzed on a short turnaround (i.e., 24-hour) basis to allow timely decision-making regarding the need for further excavation to verify the presence and removal of contaminated soil, as warranted.

4.8. Soldier Pile Installation and Material Management

To facilitate planned construction excavation activities, temporary shoring (i.e., a soldier pile wall with cross bracing and tie backs) was installed at the perimeter of the Property during the initial phase of construction (Phase I). Materials generated by these activities (i.e., drill cuttings) were managed in general accordance with the CMMP. In areas of previously identified contamination or where field screening results indicated possible contamination (i.e., moderate to heavy sheens, petroleum odors, staining, and/or elevated headspace vapors greater than 20 parts per million [ppm]) soils were segregated and transported from the property for permitted landfill disposal as a Category 3 soil. Soil generated from other areas in which field screening did not indicate the presence of contamination were segregated and transported from the property for permitted landfill disposal as a Category 2 soil.

4.9. Underground Storage Tank Removal and Closure

During construction excavation, a total of four previously undocumented and unidentified USTs were encountered and subsequently removed from the Property for permanent closure by an accredited UST decommissioning contractor in accordance with WAC 173-360-385. Accredited UST Site Assessors with GeoEngineers were present during the UST removal and closure activities to document the condition of the USTs, document the contents of the tanks, visually observe, and characterize soil conditions at the limits of the UST removal excavations in accordance with Ecology's UST Site Check/Site Assessment guidance document (Ecology 2021). The approximate locations of the USTs are shown relative to the Property in Figure 10. Samples documenting the contents of the previously unidentified USTs are summarized in

² Based on the results of the Site Check/Site Assessment completed for the previously undocumented USTs encountered at the Property during construction excavation, NWTPH-Dx analysis was included to verify the removal of contamination potentially associated with these USTs (see Section 4.9).

Table 4. A report documenting the site assessment, removal and closure of these USTs is presented in Appendix B.

Based on the results of the UST removal and closure soil sampling activities, remedial excavation activities for the soil removal action were expanded to encompass the footprint of the UST removal excavations to remove petroleum-related soil contamination detected at concentrations greater than the MTCA cleanup levels. Based on the presence of diesel-range total petroleum hydrocarbons at concentrations greater than the MTCA cleanup level at the base and sidewall of the tank removal excavation for UST-1 (Figure 10), confirmation samples collected as part of the overall cleanup action were also evaluated for diesel-range total petroleum hydrocarbons. Chemical analysis of diesel-range total petroleum hydrocarbons was performed to verify that both previously identified COCs and COCs identified as part of the UST removal and closure activities at concentrations greater than the MTCA cleanup level were removed from the Property.

4.10. Remedial Excavation Activities

GeoEngineers monitored soil conditions during construction excavation at the Property between June and September 2023. A GeoEngineers' field representative was present during the construction excavation to visually classify soil encountered, perform field screening of the soil for physical evidence of contamination (i.e., sheen, odor, staining, etc.) and obtain verification soil samples to confirm the removal of contaminated soil within the Property boundary as described in Section 4.8.

Based on the chemical analytical results for soil samples obtained during the previous investigations, visual observations and field screening results during the construction excavation, and verification soil sample results, GeoEngineers assisted Mid-Mountain Construction (earthwork contractor) in the segregation and removal of contaminated soil associated with historical fill placed at the Property during the initial area-wide development in the 1920s (Remedial Areas 1 and 2), and petroleum-related releases associated with historical gasoline and automotive repair services, including soil contamination released from the previously undocumented USTs (Remedial Area 3). As a result of the remedial excavation activities completed (verified by confirmation sampling and analysis), 2,479.75 tons (approximately 1,600 cubic yards) of soil containing contaminant concentrations greater than the MTCA cleanup level (Category 3 soil per the CMMP) was removed from the Site for permitted landfill disposal. Additionally, 4,396.40 tons (approximately 2,900 cubic yards) of soil in which contaminants were detected, but at concentrations less than the MTCA cleanup level (Category 2 soil per the CMMP) generated during construction were transported from the Property for permitted landfill disposal. The remaining volume of soil in which contaminants either were not detected or were detected at concentrations below natural background levels (Category 1 soil per the CMMP) was transported from the Property for unrestricted land use. Waste disposal tracking logs for the Category 2 and 3 soil are presented in Appendix A. Remedial excavation activities for Remedial Areas 1 through 3 are further discussed in the following sections (Sections 4.10.1 through 4.10.3).

The analytical results for the confirmation samples verifying the removal of soil contamination for each of the Remedial Areas (RAs) are presented in Table 5. Field screening and verification soil handling procedures are presented in Appendix C. Laboratory reports for soil samples to verify the remedial excavation limits are presented in Appendix D. Confirmation sample analytical results representing the final remedial excavation limit were subject to an EPA-defined Stage 2B validation (EPA Document 540-R-2017-01; EPA 2017) and were determined to be acceptable for their intended use as qualified. The data validation review is presented in Appendix E. The analytical results for the excavation verification samples were reported to Ecology's Environmental Information Management (EIM) database.

4.10.1. Remedial Area 1

Remedial excavation activities were completed to remove fill soil represented by sample GEI-4-2.5 (Table 1) where lead was previously detected at a concentration greater than the MTCA cleanup level. Based on the field screening results, visual observations and chemical analytical results of verification soil samples collected from the limits of the remedial excavation, approximately 25 cubic yards were removed to complete the cleanup action for this portion of the Property. Excavated soil generated from this area included the removal of contaminated fill material from the ground surface to an approximate depth of 6 feet bgs. The final limits of excavation for this area are shown in plan view in Figure 11.

The confirmation soil sample analytical results summarized in Table 5 confirm the full removal of the soil with lead concentrations greater than the MTCA cleanup levels from this area. The locations of the confirmation soil samples representing soil conditions at the final remedial excavation limit collected in accordance with the Ecology-approved CMMP and QAPP are shown in Figure 11. In accordance with CMMP, fill soil generated from the remaining portion of the Property (with the exception of Remedial Area 2 discussed below) in which one or more contaminants were detected at a concentration greater than natural background but less than the MTCA cleanup levels (i.e., Category 2 soil as defined by the CMMP) was subsequently excavated and removed from the Property for permitted disposal.

Based on the completeness of the remedial excavation performed in this area to remove contaminated soil resulting from historical fill placement, the cleanup action objectives have been met and additional cleanup actions are not required.

4.10.2. Remedial Area 2

Remedial excavation activities were completed to remove fill soil represented by sample GEI-6-2.5 (Table 1) where total cPAHs calculated using the toxicity equivalency quotient (TEQ) methodology were previously detected at a concentration greater than the MTCA cleanup level. Based on the field screening results, visual observations and chemical analytical results of verification soil samples collected from the limits of the remedial excavation, approximately 45 cubic yards were removed to complete the cleanup action for this portion of the Property. Excavated soil generated from this area included the removal of contaminated fill material from the ground surface to an approximate depth of 8 feet bgs. The final limits of excavation in this area are shown in plan view in Figure 12.

The confirmation soil sample analytical results summarized in Table 5 confirm the full removal of the soil with cPAH concentrations greater than the MTCA cleanup levels from this area. The locations of the confirmation soil samples representing soil conditions at the final remedial excavation limit collected in accordance with the Ecology-approved CMMP and QAPP are shown in Figure 12. In accordance with CMMP, fill soil generated from the remaining portion of the Property (with the exception of Remedial Area 1 discussed above) in which one or more contaminants were detected at a concentration greater than natural background but less than the MTCA cleanup levels (i.e., Category 2 soil as defined by the CMMP) was subsequently excavated and removed from the Property for permitted disposal.

Based on the completeness of the remedial excavation performed in this area to remove contaminated soil resulting from historical fill placement, the cleanup action objectives have been met and additional cleanup actions are not required.

4.10.3. Remedial Area 3

Remedial excavation activities were completed to remove fill and native soil where gasoline-range total petroleum hydrocarbons, diesel-range total petroleum hydrocarbons, BTEX and/or naphthalenes were previously detected (or detected during UST Site Check/Assessment activities; Section 4.9) at concentrations greater than the MTCA cleanup levels. Based on the field screening results, visual observations and chemical analytical results for the verification soil samples collected from the limits of the remedial excavation, approximately 1,530 cubic yards of soil were removed to complete the cleanup action for this portion of the Property. Excavated soil generated from this area included the removal of contaminated fill and native material from the ground surface to a maximum depth of approximately 19 feet bgs. The final limits of excavation for this area are shown in plan view in Figure 13.

The confirmation soil sample analytical results summarized in Table 5 confirm the full removal of the petroleum-related contaminated soil with concentrations greater than the MTCA cleanup levels within the Property boundary. The locations of the confirmation soil samples representing soil conditions at the final remedial excavation limit were collected in accordance with the Ecology-approved CMMP and QAPP and are shown in Figure 13. In accordance with CMMP, native soil generated from the remaining portion of the Property in which contaminants were not detected (i.e., Category 1 soil as defined by the CMMP) was subsequently excavated to meet the overall redevelopment subgrade design and removed from the Property for unrestricted land use.

In accordance with the CAP, the locations to the north and west of the construction excavation footprint where petroleum-related contamination was observed at the final remedial excavation limit, based on field observations, were documented. Sidewall confirmation samples from the final excavation limit were collected north and west of the shoring wall which is positioned at the Property boundary. As a result, confirmation sidewall samples are representative of the soil conditions currently remaining in place within the South Jackson Street and/or 7th Avenue ROWs (i.e., soil sample R3-WSW-N-88 in which contaminants exceeding the soil cleanup levels represent soil conditions west of the Property boundary within the 7th Avenue ROW. Current soil conditions north and west of the Property are shown in plan view in Figure 14 and in cross-section in Figure 15. As discussed in Section 3.1, contaminated soil remaining in-place beneath portions of the 7th Avenue South and South Jackson Street ROWs will be managed through a combination of engineering and institutional controls. Engineering controls for this area include paved surfaces (roadways and sidewalks), and landscaping planters and/or imported topsoil to prevent direct contact and to limit the infiltration of stormwater through the soil column to limit the potential for leaching and contaminant migration toward the water table. The analytical results for the confirmation soil samples indicate that contaminant concentrations at the base of the excavation are less than the MTCA cleanup levels therefore, a vapor barrier will not be installed beneath the new building foundation. However, due to the residual contaminated soil that will remain in-place beneath portions of the 7th Avenue South and South Jackson Street ROWs, a vapor barrier will be installed along the sides of the new building foundation to prevent the intrusion of contaminant vapors into the basement of the new building. Institutional controls in the form of an EC will prevent unauthorized ground disturbance activities or disruptions to the vapor barrier without prior Ecology notification and approval. To facilitate the EC, notice to the City will be provided informing them of the residual contamination remaining beneath portions of the 7th Avenue South and South Jackson ROWs for worker protection and proper material management in the event that future construction activities related to road or utility infrastructure improvements are performed.

Long-term monitoring and maintenance of the engineering controls as well as compliance monitoring activities are further discussed below (Section 5.0).

4.11. Cultural Resources Monitoring

Prior to the start of construction, an Inadvertent Discovery Plan (IDP) was developed using Ecology's IDP form to outline procedures that would be followed in the event that cultural materials or human remains were discovered during the earthwork activities associated with the Property. The IDP developed for the earthwork activities is presented as Appendix C of the CMMP.

During construction, no evidence or signs of potential cultural resources were observed.

5.0 POST-CONSTRUCTION COMPLIANCE MONITORING

Compliance monitoring will be performed to evaluate and document the post-construction groundwater and soil vapor/indoor air conditions.

5.1. Groundwater Compliance Monitoring

Compliance groundwater monitoring consists of performance monitoring and long-term confirmational monitoring. Performance monitoring will be conducted prior to establishing the EC and includes collecting groundwater samples on a quarterly basis from monitoring wells positioned within (i.e., GEI-11 and GEI-12, Figure 14) and upgradient of the area containing residual soil contamination (new monitoring well location to be coordinated with Ecology), until four consecutive groundwater sampling events indicate contaminant concentrations below the established cleanup levels. Once the performance groundwater monitoring indicates that the MTCA cleanup standards have been met, long-term confirmational groundwater monitoring will continue on an annual basis until at least the first periodic review as required by the EC.

The specific details regarding post-construction groundwater monitoring will be provided in a CMP. The CMP will be included in the EC.

5.2. Soil Vapor/Indoor Air Compliance Monitoring

Post-construction soil vapor sampling will be conducted to evaluate the potential vapor intrusion (VI) risk to the future building on the Property from residual soil contamination remaining within the 7th Avenue ROW. The soil vapor samples will be collected from permanent soil vapor pins that will be installed along the 7th Avenue ROW, along the western Property boundary (actual locations to be coordinated with Ecology). Two initial rounds of soil vapor monitoring are proposed for the first and third quarters of the calendar year to document vapor conditions and to account for seasonal variations. Additional soil vapor and/or indoor air sampling may be required based on the initial sample result and as determined by Ecology. If required, the frequency and duration of future soil vapor and/or indoor air sampling will be coordinated with Ecology.

The specific details regarding post-construction soil vapor/indoor air monitoring will be provided in a CMP. The CMP will be included in the EC.

5.3. Controls Monitoring and Maintenance

To document long-term compliance with the Site's overall cleanup action objectives, long-term monitoring and maintenance will be performed following completion of the building construction and restoration of the

adjacent surface pavement features, as necessary. As previously discussed, engineering and institutional controls are being utilized to prevent direct-contact and limit stormwater infiltration that could lead to the migration of the residual contamination through the soil column toward the deep regional groundwater unit beneath the Site as well as mitigate the potential for vapor intrusion into the new building. Periodic monitoring and corrective actions, as needed, will be performed to maintain the function of the Site controls to limit potential exposure to the residual contamination remaining in place beneath portions of the South Jackson Street and 7th Avenue South ROWs.

Specific details regarding long-term monitoring and maintenance will be provided in a EICMMP. The CMP will be included in the EC.

6.0 CONCLUSIONS

Previous environmental investigations summarized in this document identified COCs, including gasoline- and diesel- range total petroleum hydrocarbons, BTEX, naphthalenes, cPAHs and lead in soil at concentrations greater than the MTCA cleanup levels resulting from historical area wide development (i.e., fill placement of unknown origin) and land use (i.e., gasoline and automotive repair services). In conjunction with the redevelopment of the Property, South Jackson Partners completed soil removal actions to address soil contamination within the construction excavation footprint (Property-line to Property-line) for Remedial Areas 1 through 3. The results of confirmation soil samples collected at the final excavation limits for each of these remedial areas verify the complete removal of Site contaminants from within the Property boundary.

Post-construction compliance monitoring, including groundwater and soil vapor and/or air monitoring will be completed to evaluate and document current groundwater and soil vapor/air conditions after the remedial soil excavation.

Residual soil contamination remains in place beyond the final excavation limit beneath portions of 7th Avenue South and South Jackson Street. To prevent direct exposure, contaminant migration toward the regional groundwater table, and vapor intrusion into the new building subgrade spaces, engineering controls consisting of paved surfaces (roadways and sidewalks), landscaping planters, imported topsoil and a vapor barrier will be utilized. In addition, institutional controls (EC) will be utilized to prohibit or limit any future activities that may interfere with the cleanup integrity or result in exposure to contamination. To document long-term compliance with the Site's overall cleanup action objectives, long-term monitoring and maintenance will be performed following building construction and restoration of the adjacent surface pavement features, as necessary (anticipated to begin in spring 2024).

7.0 LIMITATIONS

We have prepared this document for the Seventh Avenue Service Site located at 701 South Jackson Street in Seattle, Washington, for the exclusive use of South Jackson Partners and their authorized agents and regulatory agencies. Within the limitations of scope, schedule and budget, our services have been executed in accordance with our agreement with South Jackson Partners dated September 1, 2022, and generally accepted environmental science and geotechnical engineering practices in this area at the time this plan was prepared. No warranty or other conditions, express or implied, should be understood.

Any electronic form, facsimile or hard copy of the original document (email, text, table, and/or figure), if provided, and any attachments are only a copy of the original document. The original document is stored by GeoEngineers, Inc. and will serve as the official document of record.

Please refer to Appendix F, titled “Report Limitations and Guidelines for Use,” for additional information pertaining to use of this report.

8.0 REFERENCES

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Table 1
Summary of Previous Soil Investigation Chemical Analytical Data

701 South Jackson Street
 Seattle, Washington

Sample Location ¹		H-1	H-2	H-3	B-1		B-3		B-4	
Sample Identification		H-1-12.5	H-2-7.5	H-3-7.5	B-1-5	B-1-12.5	B-3-10	B-3-12.5	B-4-9	B-4-14
Sampled By	MTCA Cleanup Levels ³	GeoGroup	GeoGroup	GeoGroup	GeoGroup	GeoGroup	GeoGroup	GeoGroup	GeoGroup	GeoGroup
Sample Date		08/03/92	08/03/92	08/03/92	02/01/06	02/01/06	02/01/06	02/01/06	02/02/06	02/02/06
Sample Depth (feet bgs)		12.5	7.5	7.5	5.0	12.5	10.0	12.5	9.0	14.0
Sample Elevation ² (feet)		86.75	93	89.75	93.5	86	88.25	85.75	85.75	80.75
Petroleum Hydrocarbons by NWTPH-G/Dx (mg/kg)										
Gasoline-Range	30	6,000	1.6	1,400	16	12,000	1,300	13 U	10 U	8,300
Diesel-Range	2,000	--	--	--	28 U	560	30 U	27 U	28 U	280
Heavy Oil-Range		--	--	--	57 U	62 U	60 U	54 U	55 U	62 U
Total Diesel and Heavy Oil-Range	2,000	--	--	--	57 U	560	60 U	54 U	55 U	280
Volatile Organic Compounds (VOCs) by EPA 8021/8260 (mg/kg)										
Benzene	0.03	4	0.05 U	0.31	0.020 U	17	1.8	0.093	0.38	15
Toluene	7	55	0.05 U	1.9	0.047 U	7.2	4.5	0.39	0.21	35
Ethylbenzene	6	66	0.05 U	6.2	0.047 U	210	12	0.19	0.12	100
Total Xylenes	9	330	0.05 U	16	0.061	860	35.4	1.08	0.19	440
1,2 Dibromoethane (EDB)	0.005	--	--	--	--	--	--	0.057 U	--	1.1 U
1,2 Dichloroethane (EDC)	11	--	--	--	--	--	--	0.057 U	--	1.1 U
Methyl tertiary-butyl ether (MTBE)	0.1	--	--	--	--	--	--	0.057 U	--	1.1 U
Other VOCs ⁴	NE	--	--	--	--	--	--	Detected	--	Detected
Total Metals by EPA 6000 /7000 Series (mg/kg)										
Arsenic	20	--	--	--	--	--	--	--	--	--
Cadmium	2	--	--	--	--	--	--	--	--	--
Total Chromium	2,000	--	--	--	--	--	--	--	--	--
Lead	250	1.5	2.2	3.8	--	--	--	--	--	--
Mercury	2	--	--	--	--	--	--	--	--	--
Toxicity Characteristic Leaching Procedure (TCLP) Metals by EPA 6020 (mg/L)										
Lead	5	--	--	--	--	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs) by EPA 8270D/SIM (mg/kg)										
1-Methylnaphthalene	34	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene	320	--	--	--	--	--	--	--	--	--
Acenaphthene	4,800	--	--	--	--	--	--	--	--	--
Acenaphthylene	NE	--	--	--	--	--	--	--	--	--
Anthracene	24,000	--	--	--	--	--	--	--	--	--
Benzo[a]anthracene	NE	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	0.1	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	NE	--	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene	NE	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene	NE	--	--	--	--	--	--	--	--	--
Chrysene	NE	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	NE	--	--	--	--	--	--	--	--	--
Fluoranthene	3,200	--	--	--	--	--	--	--	--	--
Fluorene	3,200	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	NE	--	--	--	--	--	--	--	--	--
Naphthalene (total) ⁵	5	--	--	--	--	--	--	--	--	--
Phenanthrene	NE	--	--	--	--	--	--	--	--	--
Pyrene	2,400	--	--	--	--	--	--	--	--	--
Total cPAH TEQ ⁶	0.19	--	--	--	--	--	--	--	--	--
Polychlorinated Biphenyls (PCBs) by EPA 8082 (mg/kg)										
Total PCBs	1.0	--	--	--	--	--	--	--	--	--

Notes:

- ¹ Approximate exploration locations shown on Figure 2.
 - ² Ground surface elevation referenced to North American Vertical Datum 1988 (NAVD88).
 - ³ Washington State Model Toxic Control Act Cleanup Regulation (MTCA) Method A Soil Cleanup Levels for Unrestricted Land Uses. MTCA Method B cleanup level used when Method A cleanup level has not been established.
 - ⁴ Refer to the RI/FS Report (GeoEngineers 2022) for a full list of compounds analyzed and their results.
 - ⁵ Total naphthalenes include the sum 1-methylnaphthalene, 2-methylnaphthalenes and naphthalene.
 - ⁶ Total carcinogenic PAHs (cPAHs) calculated using the toxicity equivalency (TEQ) methodology in WAC 173-340-708(8). Non-detections were assigned half the reporting limit for these calculations.
 - ⁷ Boring Advanced at an angle of 25 degrees from vertical.
 - ⁸ Resampled on June 18, 2023 for TCLP analysis to support waste disposal profiling and acceptance.
- bgs = below ground surface
 mg/kg = milligram per kilogram
 Farallon = Farallon Consulting
 Landau = Landau Associates
 EAI = Environmental Associates, Inc.
 GeoGroup = GEO Group Northwest, Inc.
 GEI = GeoEngineers, Inc.
 NE = not established
 -- = not tested
 ND = not detected
 U = Analyte not detected above the reported sample quantization limit
Bold indicates analyte was detected.
 Shading indicates analyte was detected at a concentration greater than the MTCA soil cleanup level.

Table 1
Summary of Previous Soil Investigation Chemical Analytical Data

701 South Jackson Street
 Seattle, Washington

Sample Location ¹	Sample Identification	UST-1				UST-2				B-1-11
		UST-1-B-12	UST-1-N-8/W-6	UST-1-S-8/E-8	UST-1-OB	UST-2-B-12	UST-2-OB	UST-2-N-8/W-6	UST-2-S-8/E-8	B-1 S-5
Sampled By	MTCA Cleanup Levels ³	EAI	EAI	EAI	EAI	EAI	EAI	EAI	EAI	Landau
Sample Date		11/02/10	11/02/10	11/02/10	11/02/10	11/02/10	11/02/10	11/02/10	11/02/10	11/11/11
Sample Depth (feet bgs)		12.0	6	8.0	Stockpile	12.0	Stockpile	6	8.0	12.5
Sample Elevation ² (feet)		86	92	90	n/a	87.5	n/a	93.5	91.5	87.5
Petroleum Hydrocarbons by NWTPH-G/Dx (mg/kg)										
Gasoline-Range	30	110	2 U	37	2 U	2 U	2 U	2 U	2 U	24,000
Diesel-Range	2,000	--	--	--	--	--	--	--	--	120 U
Heavy Oil-Range		--	--	--	--	--	--	--	--	50 U
Total Diesel and Heavy Oil-Range	2,000	--	--	--	--	--	--	--	--	120 U
Volatile Organic Compounds (VOCs) by EPA 8021/8260 (mg/kg)										
Benzene	0.03	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	110
Toluene	7	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	1,700
Ethylbenzene	6	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	470
Total Xylenes	9	0.34	0.06 U	1.4	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	2,400
1,2 Dibromoethane (EDB)	0.005	--	--	--	--	--	--	--	--	--
1,2 Dichloroethane (EDC)	11	--	--	--	--	--	--	--	--	--
Methyl tertiary-butyl ether (MTBE)	0.1	--	--	--	--	--	--	--	--	--
Other VOCs ⁴	NE	--	--	--	--	--	--	--	--	--
Total Metals by EPA 6000 /7000 Series (mg/kg)										
Arsenic	20	--	--	--	--	--	--	--	--	--
Cadmium	2	--	--	--	--	--	--	--	--	--
Total Chromium	2,000	--	--	--	--	--	--	--	--	--
Lead	250	--	--	--	--	--	--	--	--	8.9
Mercury	2	--	--	--	--	--	--	--	--	--
Toxicity Characteristic Leaching Procedure (TCLP) Metals by EPA 6020 (mg/L)										
Lead	5	--	--	--	--	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs) by EPA 8270D/SIM (mg/kg)										
1-Methylnaphthalene	34	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene	320	--	--	--	--	--	--	--	--	--
Acenaphthene	4,800	--	--	--	--	--	--	--	--	--
Acenaphthylene	NE	--	--	--	--	--	--	--	--	--
Anthracene	24,000	--	--	--	--	--	--	--	--	--
Benzo[a]anthracene	NE	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	0.1	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	NE	--	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene	NE	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene	NE	--	--	--	--	--	--	--	--	--
Chrysene	NE	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	NE	--	--	--	--	--	--	--	--	--
Fluoranthene	3,200	--	--	--	--	--	--	--	--	--
Fluorene	3,200	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	NE	--	--	--	--	--	--	--	--	--
Naphthalene (total) ⁵	5	--	--	--	--	--	--	--	--	--
Phenanthrene	NE	--	--	--	--	--	--	--	--	--
Pyrene	2,400	--	--	--	--	--	--	--	--	--
Total cPAH TEQ ⁶	0.19	--	--	--	--	--	--	--	--	--
Polychlorinated Biphenyls (PCBs) by EPA 8082 (mg/kg)										
Total PCBs	1.0	--	--	--	--	--	--	--	--	--

Notes:

- ¹ Approximate exploration locations shown on Figure 2.
 - ² Ground surface elevation referenced to North American Vertical Datum 1988 (NAVD88).
 - ³ Washington State Model Toxic Control Act Cleanup Regulation (MTCA) Method A Soil Cleanup Levels for Unrestricted Land Uses. MTCA Method B cleanup level used when Method A cleanup level has not been established.
 - ⁴ Refer to the RI/FS Report (GeoEngineers 2022) for a full list of compounds analyzed and their results.
 - ⁵ Total naphthalenes include the sum 1-methylnaphthalene, 2-methylnaphthalenes and naphthalene.
 - ⁶ Total carcinogenic PAHs (cPAHs) calculated using the toxicity equivalency (TEQ) methodology in WAC 173-340-708(8). Non-detections were assigned half the reporting limit for these calculations.
 - ⁷ Boring Advanced at an angle of 25 degrees from vertical.
 - ⁸ Resampled on June 18, 2023 for TCLP analysis to support waste disposal profiling and acceptance.
- bgs = below ground surface
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 Farallon = Farallon Consulting
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Bold indicates analyte was detected.
 Shading indicates analyte was detected at a concentration greater than the MTCA soil cleanup level.

Table 1
Summary of Previous Soil Investigation Chemical Analytical Data

701 South Jackson Street
 Seattle, Washington

Sample Location ¹	MTCA Cleanup Levels ³	B-1-11	B-2-11		B-3-11		B-4-11		B-5-11	B-6-11	
Sample Identification		B-1 S-7	B-2 S-4	B-2 S-6	B-3 S-4	B-3 S-6	B-4 S-2	B-4 S-6	B-5 S-8	B-6 S-6	
Sampled By		Landau	Landau	Landau	Landau	Landau	Landau	Landau	Landau	Landau	Landau
Sample Date		11/11/11	11/11/11	11/11/11	11/11/11	11/11/11	11/11/11	11/11/11	11/11/11	11/14/11	11/04/11
Sample Depth (feet bgs)		17.5	12.5	17.5	12.5	17.5	5.0	15.0	20.0	15.0	
Sample Elevation ² (feet)		82.5	84.5	79.5	83	78	88.75	78.75	85.5	88	
Petroleum Hydrocarbons by NWTPH-G/Dx (mg/kg)											
Gasoline-Range	30	14	14	11	420	6.6	10	26	3.0 U	3.0 U	
Diesel-Range	2,000	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	
Heavy Oil-Range		50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	
Total Diesel and Heavy Oil-Range	2,000	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	
Volatile Organic Compounds (VOCs) by EPA 8021/8260 (mg/kg)											
Benzene	0.03	0.12	0.044 U	0.051	0.024 U	0.06	0.14	0.38	0.030 U	0.030 U	
Toluene	7	0.51	0.36	0.4	1.0	0.36	0.43	1.0	0.050 U	0.050 U	
Ethylbenzene	6	0.3	0.078	0.08	7.3	0.076	0.12	0.38	0.050 U	0.050 U	
Total Xylenes	9	1.3	0.32	0.32	32	0.39	0.58	2.2	0.20 U	0.20 U	
1,2 Dibromoethane (EDB)	0.005	--	--	--	--	--	--	--	--	--	
1,2 Dichloroethane (EDC)	11	--	--	--	--	--	--	--	--	--	
Methyl tertiary-butyl ether (MTBE)	0.1	--	--	--	--	--	--	--	--	--	
Other VOCs ⁴	NE	--	--	--	--	--	--	--	--	--	
Total Metals by EPA 6000 /7000 Series (mg/kg)											
Arsenic	20	--	--	--	--	--	--	--	--	--	
Cadmium	2	--	--	--	--	--	--	--	--	--	
Total Chromium	2,000	--	--	--	--	--	--	--	--	--	
Lead	250	--	--	--	7.4	--	--	--	--	--	
Mercury	2	--	--	--	--	--	--	--	--	--	
Toxicity Characteristic Leaching Procedure (TCLP) Metals by EPA 6020 (mg/L)											
Lead	5	--	--	--	--	--	--	--	--	--	
Polycyclic Aromatic Hydrocarbons (PAHs) by EPA 8270D/SIM (mg/kg)											
1-Methylnaphthalene	34	--	--	--	--	--	--	--	--	--	
2-Methylnaphthalene	320	--	--	--	--	--	--	--	--	--	
Acenaphthene	4,800	--	--	--	--	--	--	--	--	--	
Acenaphthylene	NE	--	--	--	--	--	--	--	--	--	
Anthracene	24,000	--	--	--	--	--	--	--	--	--	
Benzo[a]anthracene	NE	--	--	--	--	--	--	--	--	--	
Benzo(a)pyrene	0.1	--	--	--	--	--	--	--	--	--	
Benzo(b)fluoranthene	NE	--	--	--	--	--	--	--	--	--	
Benzo(g,h,i)perylene	NE	--	--	--	--	--	--	--	--	--	
Benzo(k)fluoranthene	NE	--	--	--	--	--	--	--	--	--	
Chrysene	NE	--	--	--	--	--	--	--	--	--	
Dibenzo(a,h)anthracene	NE	--	--	--	--	--	--	--	--	--	
Fluoranthene	3,200	--	--	--	--	--	--	--	--	--	
Fluorene	3,200	--	--	--	--	--	--	--	--	--	
Indeno(1,2,3-cd)pyrene	NE	--	--	--	--	--	--	--	--	--	
Naphthalene (total) ⁵	5	--	--	--	--	--	--	--	--	--	
Phenanthrene	NE	--	--	--	--	--	--	--	--	--	
Pyrene	2,400	--	--	--	--	--	--	--	--	--	
Total cPAH TEQ ⁶	0.19	--	--	--	--	--	--	--	--	--	
Polychlorinated Biphenyls (PCBs) by EPA 8082 (mg/kg)											
Total PCBs	1.0	--	--	--	--	--	--	--	--	--	

Notes:

- ¹ Approximate exploration locations shown on Figure 2.
 - ² Ground surface elevation referenced to North American Vertical Datum 1988 (NAVD88).
 - ³ Washington State Model Toxic Control Act Cleanup Regulation (MTCA) Method A Soil Cleanup Levels for Unrestricted Land Uses. MTCA Method B cleanup level used when Method A cleanup level has not been established.
 - ⁴ Refer to the RI/FS Report (GeoEngineers 2022) for a full list of compounds analyzed and their results.
 - ⁵ Total naphthalenes include the sum 1-methylnaphthalene, 2-methylnaphthalenes and naphthalene.
 - ⁶ Total carcinogenic PAHs (cPAHs) calculated using the toxicity equivalency (TEQ) methodology in WAC 173-340-708(8). Non-detections were assigned half the reporting limit for these calculations.
 - ⁷ Boring Advanced at an angle of 25 degrees from vertical.
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- bgs = below ground surface
 mg/kg = milligram per kilogram
 Farallon = Farallon Consulting
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 NE = Not Established
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 U = Analyte not detected above the reported sample quantization limit
Bold indicates analyte was detected.
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Table 1
Summary of Previous Soil Investigation Chemical Analytical Data

701 South Jackson Street
 Seattle, Washington

Sample Location ¹	MTCA Cleanup Levels ³	B-6-11	FB-3				FB-4			FB-5 ⁶
Sample Identification		B-6 S-7	FB-3-10.0	FB-3-15.0	FB-3-20.0	FB-3-40.0	FB-4-6.0	FB-4-10.0	FB-4-15.0	FB-5-11.0
Sampled By		Landau	Farallon	Farallon	Farallon	Farallon	Farallon	Farallon	Farallon	Farallon
Sample Date		11/04/11	10/31/19	10/31/19	10/31/19	10/31/19	11/01/19	11/01/19	11/01/19	11/01/19
Sample Depth (feet bgs)		20.0	10.0	15.0	20.0	40.0	6.0	10.0	15.0	4.6
Sample Elevation ² (feet)		83	88.75	83.75	78.75	58.75	90.75	86.75	81.75	94.1
Petroleum Hydrocarbons by NWTPH-G/Dx (mg/kg)										
Gasoline-Range	30	4.6	1,300	5.2 U	5.6 U	5.0 U	86	450	1,700	17
Diesel-Range	2,000	25 U	980 U	--	--	--	--	--	31 U	33 U
Heavy Oil-Range		50 U	570	--	--	--	--	--	61 U	66 U
Total Diesel and Heavy Oil-Range	2,000	50 U	570	--	--	--	--	--	61 U	66 U
Volatile Organic Compounds (VOCs) by EPA 8021/8260 (mg/kg)										
Benzene	0.03	0.030 U	0.021 U	0.060	0.020 U	0.020 U	0.020 U	0.032	1.3	0.020 U
Toluene	7	0.050 U	0.17	0.052 U	0.056 U	0.050 U	0.055 U	0.053 U	21	0.071 U
Ethylbenzene	6	0.078	4.6	0.29	0.056 U	0.050 U	0.12	2.2	21	0.095
Total Xylenes	9	0.20 U	11.2	0.104 U	0.112 U	0.10 U	0.1	2.99	129	0.087
1,2 Dibromoethane (EDB)	0.005	--	0.050 U	--	--	--	--	--	--	--
1,2 Dichloroethane (EDC)	11	--	0.050 U	--	--	--	--	--	--	--
Methyl tertiary-butyl ether (MTBE)	0.1	--	0.050 U	--	--	--	--	--	--	--
Other VOCs ⁴	NE	--	ND	--	--	--	--	--	--	--
Total Metals by EPA 6000 /7000 Series (mg/kg)										
Arsenic	20	--	--	--	--	--	--	--	--	--
Cadmium	2	--	--	--	--	--	--	--	--	--
Total Chromium	2,000	--	--	--	--	--	--	--	--	--
Lead	250	--	5.7 U	--	--	--	--	--	--	--
Mercury	2	--	--	--	--	--	--	--	--	--
Toxicity Characteristic Leaching Procedure (TCLP) Metals by EPA 6020 (mg/L)										
Lead	5	--	--	--	--	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs) by EPA 8270D/SIM (mg/kg)										
1-Methylnaphthalene	34	--	1.7	--	--	--	--	--	--	--
2-Methylnaphthalene	320	--	3.4	--	--	--	--	--	--	--
Acenaphthene	4,800	--	0.022	--	--	--	--	--	--	--
Acenaphthylene	NE	--	0.0076	--	--	--	--	--	--	--
Anthracene	24,000	--	0.025	--	--	--	--	--	--	--
Benzo[a]anthracene	NE	--	0.028	--	--	--	--	--	--	--
Benzo(a)pyrene	0.1	--	0.027	--	--	--	--	--	--	--
Benzo(b)fluoranthene	NE	--	0.028	--	--	--	--	--	--	--
Benzo(g,h,i)perylene	NE	--	0.022	--	--	--	--	--	--	--
Benzo(k)fluoranthene	NE	--	0.0076 U	--	--	--	--	--	--	--
Chrysene	NE	--	0.029	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	NE	--	0.0076 U	--	--	--	--	--	--	--
Fluoranthene	3,200	--	0.057	--	--	--	--	--	--	--
Fluorene	3,200	--	0.03	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	NE	--	0.019	--	--	--	--	--	--	--
Naphthalene (total) ⁵	5	--	10.5	--	--	--	--	--	--	--
Phenanthrene	NE	--	0.098	--	--	--	--	--	--	--
Pyrene	2,400	--	0.063	--	--	--	--	--	--	--
Total cPAH TEQ ⁶	0.19	--	0.039	--	--	--	--	--	--	--
Polychlorinated Biphenyls (PCBs) by EPA 8082 (mg/kg)										
Total PCBs	1.0	--	0.399 U	--	--	--	--	--	--	--

Notes:

- ¹ Approximate exploration locations shown on Figure 2.
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 - ⁴ Refer to the RI/FS Report (GeoEngineers 2022) for a full list of compounds analyzed and their results.
 - ⁵ Total naphthalenes include the sum 1-methylnaphthalene, 2-methylnaphthalenes and naphthalene.
 - ⁶ Total carcinogenic PAHs (cPAHs) calculated using the toxicity equivalency (TEQ) methodology in WAC 173-340-708(8). Non-detections were assigned half the reporting limit for these calculations.
 - ⁷ Boring Advanced at an angle of 25 degrees from vertical.
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 GEI = GeoEngineers Inc.
 NE = Not Established
 -- = not tested
 ND = Not Detected
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Bold indicates analyte was detected.
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Table 1
Summary of Previous Soil Investigation Chemical Analytical Data

701 South Jackson Street
 Seattle, Washington

Sample Location ¹	Sample Identification	FB-5 ²		FB-6				FB-7		GEI-1
		FB-5-17.0	FB-5-25.0	FB-6-10.0	FB-6-18.0	FB-6-21.0	FB-6-24.0	FB-7-2.5	FB-7-8.0	GEI-1-5.0
Sampled By	MTCA Cleanup Levels ³	Farallon	Farallon	Farallon	Farallon	Farallon	Farallon	Farallon	Farallon	GEI
Sample Date		11/01/19	11/01/19	11/01/19	11/01/19	11/01/19	11/01/19	10/30/19	10/30/19	05/18/21
Sample Depth (feet bgs)		7.2	10.6	10.0	18.0	21.0	24.0	2.5	8.0	5.0
Sample Elevation ² (feet)		91.6	88.2	88.75	80.75	77.75	74.75	92.25	86.75	93
Petroleum Hydrocarbons by NWTPH-G/Dx (mg/kg)										
Gasoline-Range	30	4,800	5.9 U	4.7 U	28	6.5 U	5.8 U	5.2 U	5.7 U	5.02 U
Diesel-Range	2,000	590	32 U	--	30 U	--	31 U	31 U	31 U	54.4 U
Heavy Oil-Range		57 U	63 U	--	61 U	--	63 U	170	78	109 U
Total Diesel and Heavy Oil-Range	2,000	590	63 U	--	61 U	--	63 U	170	78	109 U
Volatile Organic Compounds (VOCs) by EPA 8021/8260 (mg/kg)										
Benzene	0.03	1.6	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.0201 U
Toluene	7	18	0.059 U	0.047 U	0.051 U	0.065 U	0.058 U	0.052 U	0.057 U	0.0251 U
Ethylbenzene	6	89	0.059 U	0.047 U	1.2	0.065 U	0.058 U	0.052 U	0.057 U	0.0301 U
Total Xylenes	9	420	0.118 U	0.094 U	0.55	0.13 U	0.068	0.104 U	0.114 U	0.0502 U
1,2 Dibromoethane (EDB)	0.005	1.1 U	--	--	0.00089 U	--	--	--	--	--
1,2 Dichloroethane (EDC)	11	1.1 U	--	--	0.00089 U	--	--	--	--	--
Methyl tertiary-butyl ether (MTBE)	0.1	--	--	--	--	--	--	--	--	--
Other VOCs ⁴	NE	ND	--	--	ND	--	--	--	--	--
Total Metals by EPA 6000 /7000 Series (mg/kg)										
Arsenic	20	--	--	--	--	--	--	--	--	1.53
Cadmium	2	--	--	--	--	--	--	--	--	0.171 U
Total Chromium	2,000	--	--	--	--	--	--	--	--	27.6
Lead	250	--	--	--	--	--	--	--	--	1.57
Mercury	2	--	--	--	--	--	--	--	--	0.264 U
Toxicity Characteristic Leaching Procedure (TCLP) Metals by EPA 6020 (mg/L)										
Lead	5	--	--	--	--	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs) by EPA 8270D/SIM (mg/kg)										
1-Methylnaphthalene	34	2.2	--	--	0.13	--	--	--	--	0.0209 U
2-Methylnaphthalene	320	4.2	--	--	0.25	--	--	--	--	0.0209 U
Acenaphthene	4,800	0.025	--	--	0.0081 U	--	--	--	--	0.0209 U
Acenaphthylene	NE	0.025	--	--	0.0081 U	--	--	--	--	0.0209 U
Anthracene	24,000	0.016	--	--	0.0081 U	--	--	--	--	0.0419 U
Benzo[a]anthracene	NE	0.0083	--	--	0.0081 U	--	--	--	--	0.0209 U
Benzo(a)pyrene	0.1	0.0076 U	--	--	0.0081 U	--	--	--	--	0.0209 U
Benzo(b)fluoranthene	NE	0.0076 U	--	--	0.0081 U	--	--	--	--	0.0209 U
Benzo(g,h,i)perylene	NE	0.0076 U	--	--	0.0081 U	--	--	--	--	0.0419 U
Benzo(k)fluoranthene	NE	0.0076 U	--	--	0.0081 U	--	--	--	--	0.0209 U
Chrysene	NE	0.0076 U	--	--	0.0081 U	--	--	--	--	0.0419 U
Dibenzo(a,h)anthracene	NE	0.0076 U	--	--	0.0081 U	--	--	--	--	0.0419 U
Fluoranthene	3,200	0.012	--	--	0.0081 U	--	--	--	--	0.0419 U
Fluorene	3,200	0.053	--	--	0.0081 U	--	--	--	--	0.0209 U
Indeno(1,2,3-cd)pyrene	NE	0.0076 U	--	--	0.0081 U	--	--	--	--	0.0419 U
Naphthalene (total) ⁵	5	12.8	--	--	0.66	--	--	--	--	0.0209 U
Phenanthrene	NE	0.078	--	--	0.0081 U	--	--	--	--	0.0419 U
Pyrene	2,400	0.019	--	--	0.0081 U	--	--	--	--	0.0419 U
Total cPAH TEQ ⁶	0.19	0.005	--	--	0.006 U	--	--	--	--	0.016 U
Polychlorinated Biphenyls (PCBs) by EPA 8082 (mg/kg)										
Total PCBs	1.0	0.399 U	--	--	0.427 U	--	--	--	--	--

Notes:

- ¹ Approximate exploration locations shown on Figure 2.
 - ² Ground surface elevation referenced to North American Vertical Datum 1988 (NAVD88).
 - ³ Washington State Model Toxic Control Act Cleanup Regulation (MTCA) Method A Soil Cleanup Levels for Unrestricted Land Uses. MTCA Method B cleanup level used when Method A cleanup level has not been established.
 - ⁴ Refer to the RI/FS Report (GeoEngineers 2022) for a full list of compounds analyzed and their results.
 - ⁵ Total naphthalenes include the sum 1-methylnaphthalene, 2-methylnaphthalenes and naphthalene.
 - ⁶ Total carcinogenic PAHs (cPAHs) calculated using the toxicity equivalency (TEQ) methodology in WAC 173-340-708(8). Non-detections were assigned half the reporting limit for these calculations.
 - ⁷ Boring Advanced at an angle of 25 degrees from vertical.
 - ⁸ Resampled on June 18, 2023 for TCLP analysis to support waste disposal profiling and acceptance.
- bgs = below ground surface
 mg/kg = milligram per kilogram
 Farallon = Farallon Consulting
 Landau = Landau Associates
 EAI = Environmental Associates, Inc.
 GeoGroup = GEO Group Northwest, Inc.
 GEI = GeoEngineers Inc.
 NE = Not Established
 -- = not tested
 ND = Not Detected
 U = Analyte not detected above the reported sample quantization limit
Bold indicates analyte was detected.
 Shading indicates analyte was detected at a concentration greater than the MTCA soil cleanup level.

Table 1
Summary of Previous Soil Investigation Chemical Analytical Data

701 South Jackson Street
 Seattle, Washington

Sample Location ¹	Sample Identification	GEI-1		GEI-2			GEI-3			GEI-4	
		GEI-1-12.5	GEI-1-17.5	GEI-2-10.0	GEI-2-15.0	GEI-2-17.5	GEI-3-5.0	GEI-3-15.0	GEI-3-17.5	GEI-4-2.5 ⁷	
Sampled By	MTCA Cleanup Levels ³	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	
Sample Date		05/18/21	05/18/21	05/19/21	05/19/21	05/19/21	05/19/21	05/19/21	05/19/21	05/19/21	12/29/21
Sample Depth (feet bgs)		12.5	17.5	10.0	15.0	17.5	5.0	15.0	17.5	2.5	
Sample Elevation ² (feet)		85.5	80.5	89	84	81.5	90	80	77.5	98.5	
Petroleum Hydrocarbons by NWTPH-G/Dx (mg/kg)											
Gasoline-Range	30	57.9	4.94 U	1,970	361	5.59 U	4.37 U	10,500	5.80 U	5.17 U	
Diesel-Range	2,000	51.8 U	53.6 U	--	--	--	--	--	--	58.1 U	
Heavy Oil-Range		104 U	107 U	--	--	--	--	--	--	116 U	
Total Diesel and Heavy Oil-Range	2,000	104 U	107 U	--	--	--	--	--	--	116 U	
Volatile Organic Compounds (VOCs) by EPA 8021/8260 (mg/kg)											
Benzene	0.03	0.0197 U	0.0198 U	0.0207 U	0.129	0.0224 U	0.0175 U	13.2	0.232 U	0.0207 U	
Toluene	7	0.92	0.0247 U	0.347	2.21	0.0279 U	0.0219 U	97.2	0.0290 U	0.0310 U	
Ethylbenzene	6	0.124	0.0297 U	0.0311 U	0.104	0.0335 U	0.0262 U	87.8	0.0348 U	0.0258 U	
Total Xylenes	9	3.252	0.0494 U	0.686	1.315	0.0559 U	0.0437 U	554	0.0580 U	0.0517 U	
1,2 Dibromoethane (EDB)	0.005	--	--	--	--	--	--	--	--	--	
1,2 Dichloroethane (EDC)	11	--	--	--	--	--	--	--	--	--	
Methyl tertiary-butyl ether (MTBE)	0.1	--	--	--	--	--	--	--	--	--	
Other VOCs ⁴	NE	--	--	--	--	--	--	--	--	--	
Total Metals by EPA 6000 /7000 Series (mg/kg)											
Arsenic	20	1.60	3.58	--	--	--	--	--	--	8.35	
Cadmium	2	0.177 U	0.185 U	--	--	--	--	--	--	0.451	
Total Chromium	2,000	26.6	27.2	--	--	--	--	--	--	53.6	
Lead	250	1.62	1.64	--	--	--	--	--	--	340	
Mercury	2	0.279 U	0.284 U	--	--	--	--	--	--	0.288 U	
Toxicity Characteristic Leaching Procedure (TCLP) Metals by EPA 6020 (mg/L)											
Lead	5	--	--	--	--	--	--	--	--	0.200 U	
Polycyclic Aromatic Hydrocarbons (PAHs) by EPA 8270D/SIM (mg/kg)											
1-Methylnaphthalene	34	0.0194 U	0.0202 U	--	--	--	--	--	--	0.0234 U	
2-Methylnaphthalene	320	0.0333	0.0202 U	--	--	--	--	--	--	0.0234 U	
Acenaphthene	4,800	0.0194 U	0.0202 U	--	--	--	--	--	--	0.0234 U	
Acenaphthylene	NE	0.0194 U	0.0202 U	--	--	--	--	--	--	0.0234 U	
Anthracene	24,000	0.0389 U	0.0404 U	--	--	--	--	--	--	0.0234 U	
Benzo[a]anthracene	NE	0.0194 U	0.0202 U	--	--	--	--	--	--	0.0458	
Benzo(a)pyrene	0.1	0.0194 U	0.0202 U	--	--	--	--	--	--	0.044	
Benzo(b)fluoranthene	NE	0.0194 U	0.0202 U	--	--	--	--	--	--	0.0453	
Benzo(g,h,i)perylene	NE	0.0389 U	0.0202 U	--	--	--	--	--	--	0.0538	
Benzo(k)fluoranthene	NE	0.0194 U	0.0202 U	--	--	--	--	--	--	0.0403	
Chrysene	NE	0.0389 U	0.0404 U	--	--	--	--	--	--	0.0476	
Dibenzo(a,h)anthracene	NE	0.0389 U	0.0404 U	--	--	--	--	--	--	0.0469 U	
Fluoranthene	3,200	0.0389 U	0.0404 U	--	--	--	--	--	--	0.0458	
Fluorene	3,200	0.0194 U	0.0202 U	--	--	--	--	--	--	0.0234 U	
Indeno(1,2,3-cd)pyrene	NE	0.0389 U	0.0404 U	--	--	--	--	--	--	0.0469 U	
Naphthalene (total) ⁵	5	0.0596	0.0202 U	--	--	--	--	--	--	0.0234 U	
Phenanthrene	NE	0.0389 U	0.0404 U	--	--	--	--	--	--	0.0234 U	
Pyrene	2,400	0.0389 U	0.0404 U	--	--	--	--	--	--	0.0792	
Total cPAH TEQ ⁶	0.19	0.015 U	0.015 U	--	--	--	--	--	--	0.059 U	
Polychlorinated Biphenyls (PCBs) by EPA 8082 (mg/kg)											
Total PCBs	1.0	--	--	--	--	--	--	--	--	--	

Notes:

- ¹ Approximate exploration locations shown on Figure 2.
 - ² Ground surface elevation referenced to North American Vertical Datum 1988 (NAVD88).
 - ³ Washington State Model Toxic Control Act Cleanup Regulation (MTCA) Method A Soil Cleanup Levels for Unrestricted Land Uses. MTCA Method B cleanup level used when Method A cleanup level has not been established.
 - ⁴ Refer to the RI/FS Report (GeoEngineers 2022) for a full list of compounds analyzed and their results.
 - ⁵ Total naphthalenes include the sum 1-methylnaphthalene, 2-methylnaphthalenes and naphthalene.
 - ⁶ Total carcinogenic PAHs (cPAHs) calculated using the toxicity equivalency (TEQ) methodology in WAC 173-340-708(8). Non-detections were assigned half the reporting limit for these calculations.
 - ⁷ Boring Advanced at an angle of 25 degrees from vertical.
 - ⁸ Resampled on June 18, 2023 for TCLP analysis to support waste disposal profiling and acceptance.
- bgs = below ground surface
 mg/kg = milligram per kilogram
 Farallon = Farallon Consulting
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 U = Analyte not detected above the reported sample quantization limit
Bold indicates analyte was detected.
 Shading indicates analyte was detected at a concentration greater than the MTCA soil cleanup level.

Table 1
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701 South Jackson Street
 Seattle, Washington

Sample Location ¹	Sample Identification	MTCA Cleanup Levels ³	GEI-4	GEI-5		GEI-6		GEI-7		GEI-8	
			GEI-4-12.5	GEI-5-2.5	GEI-5-10.0	GEI-6-2.5	GEI-6-10.0	GEI-7-2.5	GEI-7-7.5	GEI-7-14.0	GEI-8-12.5
Sampled By	Sample Date		GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	
Sample Depth (feet bgs)	Sample Elevation ² (feet)		12/29/21	12/29/21	05/19/21	12/29/21	05/19/21	12/29/21	05/19/21	05/19/21	04/04/22
			12.5	2.5	10.0	2.5	10.0	2.5	7.5	14.0	12.5
			88.5	103.5	96	97.5	90	95.5	90.5	84	87.5
Petroleum Hydrocarbons by NWTPH-G/Dx (mg/kg)											
Gasoline-Range	30		5.27 U	4.93 U	4.86 U	5.35 U	5.57 U	4.86 U	5.46 U	1,370	9.14 U
Diesel-Range	2,000		56.8 U	50.1 U	60.2 U	54.4 U	61 U	57 U	64.7 U	58.5 U	--
Heavy Oil-Range			114 U	100 U	120 U	689	122 U	448	129 U	117 U	--
Total Diesel and Heavy Oil-Range	2,000		114 U	100 U	120 U	689	123 U	448	129 U	117 U	--
Volatile Organic Compounds (VOCs) by EPA 8021/8260 (mg/kg)											
Benzene	0.03		0.0211 U	0.0197 U	0.0195 U	0.0214 U	0.0223 U	0.0194 U	0.0218 U	0.15	0.0365 U
Toluene	7		0.0316 U	0.0296 U	0.0292 U	0.0321 U	0.0334 U	0.0291 U	0.0327 U	0.177	0.0548 U
Ethylbenzene	6		0.0263 U	0.0247 U	0.0243 U	0.0267 U	0.0278 U	0.0243 U	0.0273 U	17.1	0.0457 U
Total Xylenes	9		0.0527 U	0.0493 U	0.0486 U	0.0535 U	0.0557 U	0.0486 U	0.0546 U	39.08	0.0914 U
1,2 Dibromoethane (EDB)	0.005		--	--	--	--	--	--	0.0109 U	0.0106 U	--
1,2 Dichloroethane (EDC)	11		--	--	--	--	--	--	0.0251 U	0.0244 U	--
Methyl tertiary-butyl ether (MTBE)	0.1		--	--	--	--	--	--	0.0327 U	0.0318 U	--
Other VOCs ⁴	NE		--	--	--	--	--	--	ND	Detected	--
Total Metals by EPA 6000 /7000 Series (mg/kg)											
Arsenic	20		3.01	7.52	1.77	8.21	5.7	4.34	5.85	7.07	--
Cadmium	2		0.184 U	0.355	0.199 U	0.635	0.21 U	0.255	0.203 U	0.189	--
Total Chromium	2,000		39.3	27.4	25.9	38.2	59.2	34.5	64.1	52.2	--
Lead	250		3.28	93.8	2.04	243	4.79	59.5	4.82	6.06	--
Mercury	2		0.286 U	0.267 U	0.281 U	0.295 U	0.32 U	0.287 U	0.309	0.294 U	--
Toxicity Characteristic Leaching Procedure (TCLP) Metals by EPA 6020 (mg/L)											
Lead	5		--	--	--	--	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs) by EPA 8270D/SIM (mg/kg)											
1-Methylnaphthalene	34		0.0232 U	0.0226 U	0.0229 U	0.0495	0.0256 U	0.0221 U	0.0241 U	0.088	0.0241 U
2-Methylnaphthalene	320		0.0232 U	0.0226 U	0.0229 U	0.0482	0.0256 U	0.0221 U	0.0241 U	0.185	0.0241 U
Acenaphthene	4,800		0.0232 U	0.0226 U	0.0229 U	0.0327	0.0256 U	0.0221 U	0.0241 U	0.0249 U	--
Acenaphthylene	NE		0.0232 U	0.0226 U	0.0229 U	0.289	0.0256 U	0.0221 U	0.0241 U	0.0249 U	--
Anthracene	24,000		0.0464 U	0.0451 U	0.0458 U	0.767	0.0512 U	0.0442 U	0.0482 U	0.0498 U	--
Benzo[a]anthracene	NE		0.0232 U	0.0226 U	0.0229 U	1.32	0.0256 U	0.0221 U	0.0241 U	0.0249 U	--
Benzo(a)pyrene	0.1		0.0232 U	0.0226 U	0.0229 U	1.12	0.0256 U	0.0221 U	0.0241 U	0.0249 U	--
Benzo(b)fluoranthene	NE		0.0232 U	0.0226 U	0.0229 U	0.825	0.0256 U	0.0221 U	0.0241 U	0.0249 U	--
Benzo(g,h,i)perylene	NE		0.0232 U	0.0226 U	0.0229 U	0.483	0.0256 U	0.0221 U	0.0241 U	0.0249 U	--
Benzo(k)fluoranthene	NE		0.0232 U	0.0226 U	0.0229 U	0.856	0.0256 U	0.0221 U	0.0241 U	0.0249 U	--
Chrysene	NE		0.0464 U	0.0451 U	0.0458 U	1.15	0.0512 U	0.0442 U	0.0482 U	0.0498 U	--
Dibenzo(a,h)anthracene	NE		0.0464 U	0.0451 U	0.0458 U	0.231	0.0512 U	0.0442 U	0.0482 U	0.0498 U	--
Fluoranthene	3,200		0.0464 U	0.0451 U	0.0458 U	2.84	0.0512 U	0.0442 U	0.0482 U	0.0498 U	--
Fluorene	3,200		0.0232 U	0.0226 U	0.0229 U	0.251	0.0256 U	0.0221 U	0.0241 U	0.0249 U	--
Indeno(1,2,3-cd)pyrene	NE		0.0464 U	0.0451 U	0.0458 U	0.473	0.0512 U	0.0442 U	0.0482 U	0.0498 U	--
Naphthalene (total) ⁵	5		0.0232 U	0.0226 U	0.0229 U	0.2537	0.0256 U	0.0221 U	0.0241 U	0.556	0.0221 U
Phenanthrene	NE		0.0464 U	0.0451 U	0.0458 U	2.02	0.0512 U	0.0442 U	0.0482 U	0.0498 U	--
Pyrene	2,400		0.0464 U	0.0451 U	0.0458 U	2.65	0.0512 U	0.0442 U	0.0482 U	0.0498 U	--
Total cPAH TEQ ⁶	0.19		0.018 U	0.017 U	0.017 U	0.74	0.018 U	0.017 U	0.017 U	0.017 U	--
Polychlorinated Biphenyls (PCBs) by EPA 8082 (mg/kg)											
Total PCBs	1.0		--	--	--	--	--	--	0.0596 U	0.061 U	--

Notes:

- ¹ Approximate exploration locations shown on Figure 2.
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 - ⁴ Refer to the RI/FS Report (GeoEngineers 2022) for a full list of compounds analyzed and their results.
 - ⁵ Total naphthalenes include the sum 1-methylnaphthalene, 2-methylnaphthalenes and naphthalene.
 - ⁶ Total carcinogenic PAHs (cPAHs) calculated using the toxicity equivalency (TEQ) methodology in WAC 173-340-708(8). Non-detections were assigned half the reporting limit for these calculations.
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 U = Analyte not detected above the reported sample quantization limit
Bold indicates analyte was detected.
 Shading indicates analyte was detected at a concentration greater than the MTCA soil cleanup level.

Table 1
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701 South Jackson Street
 Seattle, Washington

Sample Location ¹	Sample Identification	MTCA Cleanup Levels ³	GEI-8	GEI-9		GEI-10		GEI-11		GEI-12	
			GEI-8-17.0	GEI-9-12.5	GEI-9-17.5	GEI-10-12.5	GEI-10-17.0	GEI-11-15.0	GEI-11-35.0	GEI-12-15.0	GEI-11-40.0
Sampled By	Sample Date		GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI
Sample Depth (feet bgs)	Sample Elevation ² (feet)		04/04/22	04/04/22	04/04/22	04/04/22	04/04/22	04/04/22	04/04/22	04/04/22	04/04/22
			17.0	12.5	17.5	12.5	17.0	15.0	35.0	15.0	40.0
			83	79.5	74.5	80.5	76	79	59	82.5	57.5
Petroleum Hydrocarbons by NWTPH-G/Dx (mg/kg)											
Gasoline-Range	30		5.74 U	6.5 U	6.25 U	5.64 U	5.76 U	41.1	5.88 U	3,220	6.05 U
Diesel-Range	2,000		--	--	--	--	--	--	--	--	--
Heavy Oil-Range			--	--	--	--	--	--	--	--	--
Total Diesel and Heavy Oil-Range	2,000		--	--	--	--	--	--	--	--	--
Volatile Organic Compounds (VOCs) by EPA 8021/8260 (mg/kg)											
Benzene	0.03		0.0230 U	0.0260 U	0.0250 U	0.0228 U	0.0230 U	1.42	0.0235 U	0.739	0.0242 U
Toluene	7		0.0348 U	0.0390 U	0.0375 U	0.0328 U	0.0346 U	0.418	0.0353 U	0.0403 U	0.0363 U
Ethylbenzene	6		0.0287 U	0.0325 U	0.0312 U	0.0282 U	0.0288 U	1.03	0.0294 U	13	0.0303 U
Total Xylenes	9		0.0574 U	0.0650 U	0.0625 U	0.0564 U	0.0576 U	3.482	0.0588 U	2.39	0.0605 U
1,2 Dibromoethane (EDB)	0.005		--	--	--	--	--	--	--	--	--
1,2 Dichloroethane (EDC)	11		--	--	--	--	--	--	--	--	--
Methyl tertiary-butyl ether (MTBE)	0.1		--	--	--	--	--	--	--	--	--
Other VOCs ⁴	NE		--	--	--	--	--	--	--	--	--
Total Metals by EPA 6000 /7000 Series (mg/kg)											
Arsenic	20		--	--	--	--	--	--	--	--	--
Cadmium	2		--	--	--	--	--	--	--	--	--
Total Chromium	2,000		--	--	--	--	--	--	--	--	--
Lead	250		--	--	--	--	--	--	--	--	--
Mercury	2		--	--	--	--	--	--	--	--	--
Toxicity Characteristic Leaching Procedure (TCLP) Metals by EPA 6020 (mg/L)											
Lead	5		--	--	--	--	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs) by EPA 8270D/SIM (mg/kg)											
1-Methylnaphthalene	34		0.0241 U	0.0241 U	0.0241 U	0.0241 U	0.0241 U	0.0241 U	0.0241 U	0.0241 U	0.0241 U
2-Methylnaphthalene	320		0.0241 U	0.0241 U	0.0241 U	0.0241 U	0.0241 U	0.0241 U	0.0241 U	0.0241 U	0.0241 U
Acenaphthene	4,800		--	--	--	--	--	--	--	--	--
Acenaphthylene	NE		--	--	--	--	--	--	--	--	--
Anthracene	24,000		--	--	--	--	--	--	--	--	--
Benzo[a]anthracene	NE		--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	0.1		--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	NE		--	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene	NE		--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene	NE		--	--	--	--	--	--	--	--	--
Chrysene	NE		--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	NE		--	--	--	--	--	--	--	--	--
Fluoranthene	3,200		--	--	--	--	--	--	--	--	--
Fluorene	3,200		--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	NE		--	--	--	--	--	--	--	--	--
Naphthalene (total) ⁵	5		0.0245 U	0.0212 U	0.0248 U	0.0223 U	0.0241 U	0.5716	0.0201 U	4.38	0.0189 U
Phenanthrene	NE		--	--	--	--	--	--	--	--	--
Pyrene	2,400		--	--	--	--	--	--	--	--	--
Total cPAH TEQ ⁶	0.19		--	--	--	--	--	--	--	--	--
Polychlorinated Biphenyls (PCBs) by EPA 8082 (mg/kg)											
Total PCBs	1.0		--	--	--	--	--	--	--	--	--

Notes:

- ¹ Approximate exploration locations shown on Figure 2.
 - ² Ground surface elevation referenced to North American Vertical Datum 1988 (NAVD88).
 - ³ Washington State Model Toxic Control Act Cleanup Regulation (MTCA) Method A Soil Cleanup Levels for Unrestricted Land Uses. MTCA Method B cleanup level used when Method A cleanup level has not been established.
 - ⁴ Refer to the RI/FS Report (GeoEngineers 2022) for a full list of compounds analyzed and their results.
 - ⁵ Total naphthalenes include the sum 1-methylnaphthalene, 2-methylnaphthalenes and naphthalene.
 - ⁶ Total carcinogenic PAHs (cPAHs) calculated using the toxicity equivalency (TEQ) methodology in WAC 173-340-708(8). Non-detections were assigned half the reporting limit for these calculations.
 - ⁷ Boring Advanced at an angle of 25 degrees from vertical.
 - ⁸ Resampled on June 18, 2023 for TCLP analysis to support waste disposal profiling and acceptance.
- bgs = below ground surface
 mg/kg = milligram per kilogram
 Farallon = Farallon Consulting
 Landau = Landau Associates
 EAI = Environmental Associates, Inc.
 GeoGroup = GEO Group Northwest, Inc.
 GEI = GeoEngineers Inc.
 NE = Not Established
 -- = not tested
 ND = Not Detected
 U = Analyte not detected above the reported sample quantization limit
Bold indicates analyte was detected.
 Shading indicates analyte was detected at a concentration greater than the MTCA soil cleanup level.

Table 2
Summary of Previous Groundwater Investigation Chemical Analytical Data
701 South Jackson Street
Seattle, Washington

Sample Location ¹	GEI-1	GEI-11	GEI-12	MTCA Cleanup Level ³
Sample Identification	GEI-1-20210518	GEI-11-W-041122	GEI-12-W-041122	
Sampled By	GEI	GEI	GEI	
Sample Date	05/18/21	04/11/22	04/11/22	
Depth To Groundwater (feet bgs)	64.1	61.3	68.8	
Groundwater Elevation ² (feet NAVD88)	33.9	32.7	31.2	
Petroleum Hydrocarbons by NWTPH-G/Dx (µg/L)				
Gasoline-Range	54.6	694	142	800/1,000 ⁴
Diesel-Range	176	117 U	117 U	500
Heavy Oil-Range	98.2 U	117 U	117 U	
Total Diesel and Heavy Oil-Range	176	117 U	117 U	500
Volatile Organic Compounds (VOCs) by EPA 8260D (µg/L)				
Benzene	0.440 U	2.06	0.440 U	5
Toluene	0.750	9.89	0.750 U	100
Ethylbenzene	0.980	8.28	1.06	700
Total Xylenes	3.274	48.9	1.2	1,000
Total Metals by EPA 200.8/245.1 (µg/L)				
Arsenic	6.75	2.94	2.85	8 ⁵
Cadmium	0.247	0.200 U	0.200 U	5
Total Chromium	8.39	1.00 U	1.10	50
Lead	4.61	0.500 U	0.500 U	15
Mercury	0.304	0.100 U	0.100 U	2
Dissolved Metals by EPA 200.8/245.1 (µg/L)				
Arsenic	1.23	2.95	2.91	5
Cadmium	0.125 U	0.125 U	0.125 U	5
Total Chromium	0.750 U	0.750 U	0.752	50
Lead	0.500 U	0.500 U	0.500 U	15
Mercury	0.100 U	0.100 U	0.100 U	2
Polycyclic Aromatic Hydrocarbons (PAHs) by EPA 8270 (µg/L)				
1-Methylnaphthalene	0.105	0.156	0.620	1.5
2-Methylnaphthalene	0.170	0.259	0.799	32
Acenaphthene	0.0994 U	0.099 U	0.0997 U	960
Acenaphthylene	0.0994 U	0.099 U	0.0997 U	NE
Anthracene	0.0994 U	0.099 U	0.0997 U	4,800
Benzo[a]anthracene	0.0994 U	0.099 U	0.0997 U	NE
Benzo(a)pyrene	0.0994 U	0.099 U	0.0997 U	NE
Benzo(b)fluoranthene	0.0994 U	0.099 U	0.0997 U	NE
Benzo(g,h,i)perylene	0.0994 U	0.099 U	0.0997 U	NE
Benzo(k)fluoranthene	0.0994 U	0.099 U	0.0997 U	0.1
Chrysene	0.0994 U	0.099 U	0.0997 U	NE
Dibenzo(a,h)anthracene	0.0994 U	0.099 U	0.0997 U	NE
Fluoranthene	0.0994 U	0.099 U	0.0997 U	640
Fluorene	0.0994 U	0.099 U	0.0997 U	640
Indeno(1,2,3-cd)pyrene	0.0994 U	0.099 U	0.0997 U	NE
Naphthalene	0.263	0.759	0.521	160
Phenanthrene	0.0994 U	0.099 U	0.0997 U	NE
Pyrene	0.0994 U	0.099 U	0.0997 U	480
Total cPAH TEQ ⁶	0.0994 U	0.099 U	0.0997 U	0.1

Notes:

¹ Approximate sample locations are shown on Figure 2.

² Groundwater elevation referenced to the approximate ground surface elevation (North American Vertical Datum 1988 [NAVD88]).

³ Washington State Model Toxic Control Act Cleanup Regulation (MTCA) Method A Groundwater Cleanup Levels. MTCA Method B cleanup level used when Method A cleanup level has not been established.

⁴ When benzene is present, the gasoline range cleanup level is 800 µg/L. When benzene is not present the gasoline range cleanup level is 1,000 µg/L.

⁵ Natural background concentration for Puget Sound groundwater (Ecology 2021).

⁶ Total carcinogenic PAHs (cPAHs) calculated using the toxicity equivalency (TEQ) methodology in WAC 173-340-708(8). Non-detections were assigned half the reporting limit for these calculations.

bgs = below ground surface

µg/L = micrograms per liter

MTCA = Model Toxics Cleanup Act

EPA = United States Environmental Protection Agency

U = chemical of concern not detected greater than the laboratory reporting limit shown

-- = not analyzed

NE = not established

GEI = GeoEngineers, Inc.

Bold font type indicates the chemical of concern was detected.

Table 3
Summary of Previous Sub-Slab Soil Vapor Investigation Chemical Analytical Data

701 South Jackson Street
 Seattle, Washington

Sample Location ¹	SSV-1		SSV-2		SSV-3		Sub-Slab Soil Gas Screening Level ²	
	SSV-1-S	SSV-1-D	SSV-2-S	SSV-2-D	SSV-3-S	SSV-3-D		
Sample Identification	SSV-1-S	SSV-1-D	SSV-2-S	SSV-2-D	SSV-3-S	SSV-3-D	Method B Noncancer	Method B Cancer
Sampled By	GEI	GEI	GEI	GEI	GEI	GEI		
Sample Date	12/28/21	12/28/21	12/28/21	12/28/21	12/28/21	12/28/21		
Sample Depth (feet bgs)	5 - 10	20 - 25	5 - 10	20 - 25	5 - 10	20 - 25		
Helium by Modified ASTM D-1496								
Helium (percent)	0.4 U	--	0.4 U	2.04	0.4 U	0.6 U	NE	NE
Petroleum Hydrocarbons by Modified TO-15 (µg/m³)								
Aliphatic Hydrocarbons (EC5-8)	112,000	--	18,500	>28,600	608	1,180 U	NE	NE
Aliphatic Hydrocarbons (EC9-12)	7,970	--	1,090	2,410	294 U	252 U	NE	NE
Aromatic Hydrocarbons (EC9-10)	3,590	--	409,000	>13,200,000	62.9 U	2,280,000	NE	NE
Total Petroleum Hydrocarbons (TPH)	123,560	--	428,590	>13,231,010	608	2,280,000	1,500	NE
Volatile Organic Compounds (VOCs) by TO-15 (µg/m³)								
Benzene	153	--	<i>67.8 U</i>	<i>1,360 U</i>	8.19	<i>203 U</i>	460	11
Toluene	957	--	1,640 U	32,800 U	16.4 U	4,910 U	76,000	NE
Ethylbenzene	695 U	--	25.6 U	511 U	0.256 U	76.7 U	15,000	NE
Xylenes	1,232	--	231 U	<i>4,620 U</i>	2.31 U	693 U	1,500	NE
(MEK) 2-Butanone	472 U	--	1,740 U	34,700 U	17.4 U	5,210 U	76,000	NE
1,2-Dibromoethane (EDB)	17.7	--	<i>2.29 U</i>	<i>45.9 U</i>	0.0229 U	<i>6.88 U</i>	140	0.14
1,2-Dichloroethane (EDC)	<i>16.2 U</i>	--	<i>1,410 U</i>	<i>28,200 U</i>	<i>14.1 U</i>	<i>4,230 U</i>	110	3.2
Methyl tert-butyl ether (MTBE)	72.1 U	--	39.7 U	793 U	0.397 U	119 U	46,000	320
Naphthalene	99.9	--	<i>247 U</i>	<i>4,950 U</i>	2.97	<i>742 U</i>	46	2.5
n-Hexane	3,120	--	383 U	7,660 U	3.83 U	1,150 U	11,000	NE

Notes:

¹ Approximate exploration locations shown on Figure 3.

² Washington State Model Toxic Control Act Cleanup Regulation (MTCA) Method B soil gas screening level.

bgs = below ground surface

µg/m³ = micrograms per cubic meter

GEI = GeoEngineers, Inc.

NE = not established

"--" = not tested

U = Analyte not detected above the reported sample quantization limit

Grey italics indicates non-detected result exceeding the screening level.

Bold indicates analyte was detected.

Shading indicates analyte was detected at a concentration greater than the MTCA screening level.

Table 4
Summary of Underground Storage Tank Site Check/Site Assessment Chemical Analytical Data
 701 South Jackson Street
 Seattle, Washington

Sample Location ¹	Sample Identification	Sampled By	Sample Date	Sample Depth (feet bgs)	MTCA Cleanup Level ²	UST-01 (Heating Oil)				UST-02 (Gasoline/Diesel)			
						UST-230629	UST-N-86	UST-E-86	UST-B-83	230802	93	93	UST-2-B-89
						GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI
						06/29/23	07/06/23	07/06/23	07/06/23	08/02/23	08/08/23	08/08/23	08/08/23
Field Screening													
Sheen	NE	n/a	HS	MS	MS	n/a	HS	MS	HS				
Headspace Vapors (PPM)	NE	n/a	947	20.1	230	n/a	15,000	15,000	15,000				
Petroleum Hydrocarbons by NWPTH-HCID													
Gasoline	n/a	ND	--	--	--	Detect	--	--	--				
Mineral Spirits	n/a	ND	--	--	--	ND	--	--	--				
Kerosene	n/a	ND	--	--	--	ND	--	--	--				
Diesel	n/a	Detect	--	--	--	Detect	--	--	--				
Heavy Oil	n/a	ND	--	--	--	ND	--	--	--				
Mineral Oil	n/a	ND	--	--	--	ND	--	--	--				
Petroleum Hydrocarbons by NWPTH-G/NWTPH-Dx (mg/kg)													
Gasoline-Range	30	--	--	--	--	--	55.9	5.72 U	500				
Diesel-Range	2,000	--	94.7	62.6 U	50.2 U	--	56.8 U	52.4 U	265				
Heavy Oil-Range	2,000	--	6,910	125 U	2,900	--	114 U	105 U	105 U				
Total Diesel and Heavy Oil-Range	2,000	--	7,004.7	125 U	2,900	--	114 U	105 U	265				
Volatile Organic Compounds (VOCs) by EPA 8021/8260 (mg/kg)													
Benzene	0.03	--	0.0173 U	0.0196 U	0.0200 U	--	0.0242 U	0.02 U	0.0195 U				
Toluene	7	--	0.0297 U	0.0336 U	0.0343 U	--	0.0414 U	0.0343 U	0.0334 U				
Ethylbenzene	6	--	0.0247 U	0.0280 U	0.0288 U	--	0.0345 U	0.0286 U	0.0607				
Total Xylenes	9	--	0.0494 U	0.0560 U	0.0672 U	--	0.109	0.0572 U	0.0246				
1,2 Dibromoethane (EDB)	0.005	--	--	--	--	--	--	--	--				
1,2 Dichloroethane (EDC)	11	--	--	--	--	--	--	--	--				
Methyl tertiary-butyl ether (MTBE)	0.1	--	--	--	--	--	--	--	--				
Total Metals by EPA 6000 /7000 Series (mg/kg)													
Lead	250	--	--	--	--	--	5.63	4.9	10.9				
Polycyclic Aromatic Hydrocarbons (PAHs) by EPA 8270D/SIM (mg/kg)													
1-Methylnaphthalene	34	--	0.023 U	0.023 U	0.0262	--	0.0256	0.0187 U	0.0204 U				
2-Methylnaphthalene	320	--	0.023 U	0.023 U	0.0384	--	0.0482	0.0187 U	0.0204 U				
Acenaphthene	4,800	--	--	--	--	--	0.0222 U	0.0187 U	0.0204 U				
Acenaphthylene	NE	--	--	--	--	--	0.0222 U	0.0187 U	0.0204 U				
Anthracene	24,000	--	--	--	--	--	0.0222 U	0.0187 U	0.0204 U				
Benzo[a]anthracene	NE	--	0.023 U	0.0255 U	0.0202 U	--	0.0222 U	0.0187 U	0.0204 U				
Benzo(a)pyrene	0.1	--	0.0244 U	0.0382 U	0.0303 U	--	0.0333 U	0.0280 U	0.0306 U				
Benzo(b)fluoranthene	NE	--	0.0287 U	0.0319 U	0.0252 U	--	0.0277 U	0.0234 U	0.0255 U				
Benzo(g,h,i)perylene	NE	--	--	--	--	--	0.0555 U	0.0467 U	0.0510 U				
Benzo(k)fluoranthene	NE	--	0.0287 U	0.0319 U	0.0252 U	--	0.0277 U	0.0234 U	0.0255 U				
Chrysene	NE	--	0.023 U	0.0255 U	0.0202 U	--	0.0222 U	0.0187 U	0.0204 U				
Dibenzo(a,h)anthracene	NE	--	0.0574 U	0.0637 U	0.0504 U	--	0.0555 U	0.0467 U	0.0510 U				
Fluoranthene	3,200	--	--	--	--	--	0.0222 U	0.0187 U	0.0204 U				
Fluorene	3,200	--	--	--	--	--	0.0222 U	0.0187 U	0.0204 U				
Indeno(1,2,3-cd)pyrene	NE	--	0.0459 U	0.0510 U	0.0403 U	--	0.0444 U	0.0374 U	0.0408 U				
Naphthalene (total) ⁴	5	--	0.023 U	0.0255 U	0.0646	--	0.1087	0.0187 U	0.0204 U				
Phenanthrene	NE	--	--	--	--	--	0.0222 U	0.0187 U	0.0204 U				
Pyrene	2,400	--	--	--	--	--	0.0444 U	0.0374 U	0.0408 U				
Total cPAH TEQ ⁵	0.1	--	0.021 U	0.029 U	0.023 U	--	0.0254 U	0.0214 U	0.0233 U				
Polychlorinated Biphenyls (PCBs) by EPA 8082 (mg/kg)													
Total PCB Aroclors	1	--	--	--	--	--	--	--	--				

Notes:

- ¹ Approximate sample locations shown on Figures 4 through 7.
- ² Washington State Model Toxic Control Act Cleanup Regulation (MTCA) Method A Soil Cleanup Levels for Unrestricted Land Uses. MTCA Method B cleanup level used when Method A cleanup level has
- ³ Refer to Appendix B for a full list of compounds analyzed and their results.
- ⁴ Total naphthalenes include the sum 1-methylnaphthalene, 2-methylnaphthalenes and naphthalene.
- ⁵ Total carcinogenic PAHs (cPAHs) calculated using the toxicity equivalency (TEQ) methodology in WAC 173-340-708(8). Non-detections were assigned half the reporting limit for these calculations.

bgs = below ground surface
 mg/kg = milligram per kilogram
 n/a = not applicable
 NE = not established
 "--" = not tested
 ND = not detected greater than the laboratory reporting limit.
 U = Analyte not detected above the reported sample quantization limit
Bold indicates analyte was detected.

 Shading indicates analyte was detected at a concentration greater than the MTCA soil cleanup level.

Table 4
Summary of Soil Field Screening and Chemical Analytical Data
701 South Jackson Street
Seattle, Washington

Sample Location ¹	Sample Identification	MTCA Cleanup Levels ²	UST-03 (Waste Oil)				UST-04 (Waste Oil)			
			230804	93	93	UST3-B-90	230808	93	93	UST4-B-90
Sampled By	Sample Date		GEI	GEI	GEI	GEI	GEI	GEI	GEI	
Sample Depth (feet bgs)			08/04/23	08/08/23	08/08/23	08/08/23	08/08/23	08/09/23	08/09/23	
Field Screening										
Sheen	NE	n/a	HS	NS	HS	n/a	SS	MS	HS	
Headspace Vapors (PPM)	NE	n/a	15,000	5,767	15,000	n/a	15,000	15,000	15,000	
Petroleum Hydrocarbons by NWPTH-HCID										
Gasoline	n/a	Detect	--	--	--	ND	--	--	--	
Mineral Spirits	n/a	ND	--	--	--	ND	--	--	--	
Kerosene	n/a	ND	--	--	--	ND	--	--	--	
Diesel	n/a	Detect	--	--	--	ND	--	--	--	
Heavy Oil	n/a	Detect	--	--	--	ND	--	--	--	
Mineral Oil	n/a	ND	--	--	--	ND	--	--	--	
Petroleum Hydrocarbons by NWPTH-G/NWTPH-Dx (mg/kg)										
Gasoline-Range	30	--	5.98 U	5.09 U	1,970	--	5.16 U	96.9	5.72 U	
Diesel-Range	2,000	--	63.6 U	50.5 U	985	--	55.2 U	74.3	51.7 U	
Heavy Oil-Range		--	127 U	101 U	5,480	--	110 U	102 U	103 U	
Total Diesel and Heavy Oil-Range	2,000	--	127 U	101 U	6,465	--	110 U	74.3	103 U	
Volatile Organic Compounds (VOCs) by EPA 8021/8260 (mg/kg)										
Benzene	0.03	--	0.0209 U	0.0178 U	0.0194 U	--	0.0181 U	0.019 U	0.02 U	
Toluene	7	--	0.0359 U	0.0306 U	0.0333 U	--	0.031 U	0.0325 U	0.0343 U	
Ethylbenzene	6	--	0.0414	0.0255 U	0.491	--	0.0258 U	0.0271 U	0.0286 U	
Total Xylenes	9	--	0.152	0.0509 U	1.7678	--	.0516 U	.0542 U	0.0572 U	
1,2 Dibromoethane (EDB)	0.005	--	0.0120 U	0.0102 U	0.0111 U	--	0.0103 U	0.0108 U	0.0114 U	
1,2 Dichloroethane (EDC)	11	--	0.0239 U	0.0204 U	0.0222 U	--	0.0206 U	0.0217 U	0.0229 U	
Methyl tertiary-butyl ether (MTBE)	0.1	--	0.0239	0.0204 U	0.0222 U	--	0.0206 U	0.0217 U	0.0229 U	
Total Metals by EPA 6000 /7000 Series (mg/kg)										
Lead	250	--	5.53	1.78	3.21	--	7.96	2.85	2.7	
Polycyclic Aromatic Hydrocarbons (PAHs) by EPA 8270D/SIM (mg/kg)										
1-Methylnaphthalene	34	--	0.0243 U	0.021 U	2.72	--	0.0241 U	0.206	0.0205 U	
2-Methylnaphthalene	320	--	0.0243 U	0.021 U	4.39	--	0.0241 U	0.291	0.0205 U	
Acenaphthene	4,800	--	0.0243 U	0.021 U	0.0618	--	0.0241 U	0.0222 U	0.0205 U	
Acenaphthylene	NE	--	0.0243 U	0.021 U	0.0216 U	--	0.0241 U	0.0222 U	0.0205 U	
Anthracene	24,000	--	0.0243 U	0.021 U	0.0697	--	0.0241 U	0.0222 U	0.0205 U	
Benzo[a]anthracene	NE	--	0.0243 U	0.021 U	0.26	--	0.0241 U	0.0222 U	0.0205 U	
Benzo(a)pyrene	0.1	--	0.0243 U	0.0315 U	0.0324 U	--	0.0361 U	0.0333 U	0.0308 U	
Benzo(b)fluoranthene	NE	--	0.0243 U	0.0263 U	0.027 U	--	0.0301 U	0.0278 U	0.0257 U	
Benzo(g,h,i)perylene	NE	--	0.0243 U	0.0526 U	0.108	--	0.0602 U	0.0555 U	0.0513 U	
Benzo(k)fluoranthene	NE	--	0.0243 U	0.0263 U	0.027 U	--	0.0301 U	0.0278 U	0.0257 U	
Chrysene	NE	--	0.0243 U	0.021 U	0.132	--	0.0241 U	0.0222 U	0.0205 U	
Dibenzo(a,h)anthracene	NE	--	0.0243 U	0.0526 U	0.054 U	--	0.0602 U	0.0555 U	0.0513 U	
Fluoranthene	3,200	--	0.0243 U	0.021 U	0.275	--	0.0241 U	0.0222 U	0.0205 U	
Fluorene	3,200	--	0.0243 U	0.021 U	0.0934	--	0.0241 U	0.0222 U	0.0205 U	
Indeno(1,2,3-cd)pyrene	NE	--	0.0243 U	0.0421 U	0.0432 U	--	0.0482 U	0.0444 U	0.0411 U	
Naphthalene (total) ⁴	5	--	0.0243 U	0.021 U	7.11	--	0.0241 U	0.497	0.0205 U	
Phenanthrene	NE	--	0.0243 U	0.021 U	0.318	--	0.0241 U	0.0222 U	0.0205 U	
Pyrene	2,400	--	0.0243 U	0.0421 U	0.362	--	0.0482 U	0.0444 U	0.0411 U	
Total cPAH TEQ ⁵	0.1	--	0.0183 U	0.024 U	0.0617 U	--	0.0275 U	0.0254 U	0.0235 U	
Polychlorinated Biphenyls (PCBs) by EPA 8082 (mg/kg)										
Total PCB Aroclors	1	--	0.0252 U	0.0212 U	0.0221 U	--	0.0238 U	0.0221 U	0.0215 U	

Notes:

- ¹ Approximate sample locations shown on Figures 4 through 7.
- ² Washington State Model Toxic Control Act Cleanup Regulation (MTCA) Method A Soil Cleanup Levels for Unrestricted Land Uses. MTCA Method B cleanup level used when Method A cleanup level has
- ³ Refer to Appendix B for a full list of compounds analyzed and their results.
- ⁴ Total naphthalenes include the sum 1-methylnaphthalene, 2-methylnaphthalenes and naphthalene.
- ⁵ Total carcinogenic PAHs (cPAHs) calculated using the toxicity equivalency (TEQ) methodology in WAC 173-340-708(8). Non-detections were assigned half the reporting limit for these calculations.

bgs = below ground surface

mg/kg = milligram per kilogram

n/a = not applicable

NE = not established

"-" = not tested

ND = not detected greater than the laboratory reporting limit.

U = Analyte not detected above the reported sample quantization limit

Bold indicates analyte was detected.

 Shading indicates analyte was detected at a concentration greater than the MTCA soil cleanup level.

Table 5
Summary of Confirmation Soil Sample Chemical Analytical Data
701 South Jackson Street
Seattle, Washington

Sample Location ¹	Sample Identification	Remedial Area 1						Remedial Area 2			
		R1-NSW-98	R1-WSW-98	R1-SSW-98	R1-ESW-98	R1-B-95	Dup-R1 (R1-SSW-98)	R2-NSW-95	R2-WSW-95	R2-SSW-95	R2-SSW-95
Sampled By	MTCA Cleanup Levels ³	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI
Sample Date		08/08/23	08/03/23	08/03/23	07/24/23	08/03/23	08/03/23	07/21/23	07/21/23	07/21/23	07/24/23
Sample Depth (feet bgs)		3.0	3.0	3.0	3.0	6.0	3.0	4.0	4.0	4.0	4.0
Sample Elevation ² (feet)		98.0	98.0	98.0	98.0	95.0	98.0	95.0	95.0	95.0	95.0
Petroleum Hydrocarbons by NWTPH-G/Dx (mg/kg)											
Gasoline-Range	30	--	--	--	--	--	--	--	--	--	--
Diesel-Range	2,000	--	--	--	--	--	--	--	--	--	--
Heavy Oil-Range		--	--	--	--	--	--	--	--	--	--
Total Diesel and Heavy Oil Range	2,000	--	--	--	--	--	--	--	--	--	--
Volatile Organic Compounds (VOCs) by EPA 8021/8260 (mg/kg)											
Benzene	0.03	--	--	--	--	--	--	--	--	--	--
Toluene	7	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	6	--	--	--	--	--	--	--	--	--	--
Total Xylenes	9	--	--	--	--	--	--	--	--	--	--
Total Metals by EPA 6000 /7000 Series (mg/kg)											
Lead	250	4.48	40.2	3.74 J	4.79	4.97	1.69 J	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs) by EPA 8270D/SIM (mg/kg)											
1-Methylnaphthalene	34	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene	320	--	--	--	--	--	--	--	--	--	--
Acenaphthene	4,800	--	--	--	--	--	--	--	--	--	--
Acenaphthylene	NE	--	--	--	--	--	--	--	--	--	--
Anthracene	24,000	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene	NE	--	--	--	--	--	--	0.0246 U	0.0234 U	0.175	0.0269 U
Benzo(a)pyrene	0.1	--	--	--	--	--	--	0.0368 U	0.0351 U	0.134	0.0403 U
Benzo(b)fluoranthene	NE	--	--	--	--	--	--	0.0307 U	0.0293 U	0.0262 U	0.0336 U
Benzo(g,h,i)perylene	NE	--	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene	NE	--	--	--	--	--	--	0.0307 U	0.0293 U	0.0262 U	0.0336 U
Chrysene	NE	--	--	--	--	--	--	0.0245 U	0.0234 U	0.2	0.0269 U
Dibenzo(a,h)anthracene	NE	--	--	--	--	--	--	0.0614 U	0.0585 U	0.524 U	0.0672 U
Fluoranthene	3,200	--	--	--	--	--	--	--	--	--	--
Fluorene	3,200	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	NE	--	--	--	--	--	--	0.0491 U	0.0468 U	0.0581	0.0538 U
Naphthalene (total) ⁴	5	--	--	--	--	--	--	--	--	--	--
Phenanthrene	NE	--	--	--	--	--	--	--	--	--	--
Pyrene	2,400	--	--	--	--	--	--	--	--	--	--
Total cPAH TEQ ⁵	0.19	--	--	--	--	--	--	0.028 U	0.027 U	0.205	0.031 U

Notes:

¹ Approximate confirmation sample locations shown on Figures 11 through 13.

² Ground surface elevation referenced to North American Vertical Datum 1988 (NAVD88).

³ Washington State Model Toxic Control Act Cleanup Regulation (MTCA) Method A Soil Cleanup Levels for Unrestricted Land Uses. MTCA Method B cleanup level used when Method A cleanup level has not been established.

⁴ Total naphthalenes include the sum 1-methylnaphthalene, 2-methylnaphthalenes and naphthalene.

⁵ Total carcinogenic PAHs (cPAHs) calculated using the toxicity equivalency (TEQ) methodology in WAC 173-340-708(8). Non-detections were assigned half the reporting limit for these calculations.

bgs = below ground surface

mg/kg = milligram per kilogram

GEI = GeoEngineers, Inc.

NE = not established

-- = not tested

U = Analyte not detected above the reported sample quantization limit

Grey Italics indicates soil represented by this sample was over-excavated and removed from the Site for permitted disposal.

Bold indicates analyte was detected.

 Shading indicates analyte was detected at a concentration greater than the MTCA soil cleanup level.

Table 5
Summary of Confirmation Soil Sample Chemical Analytical Data
 701 South Jackson Street
 Seattle, Washington

Sample Location ¹	Sample Identification	Remedial Area 2			Remedial Area 3						
		R2-ESW-95	R2-B-90	DUP-R2 (R2-B-90)	R3-NSW-W-88	R3-NSW-E-84	R3-WSW-S-88	R3-WSW-N-88	R3-ESW-N-88	R3-ESW-C-87	R3-ESW-S-87
Sampled By	MTCA Cleanup Levels ³	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI
Sample Date		07/21/23	07/24/23	07/24/23	08/22/23	08/30/23	08/22/23	08/22/23	08/22/23	09/08/23	09/08/23
Sample Depth (feet bgs)		4.0	8.0	8.0	12.0	17.0	6.0	9.0	13.0	15.0	13.0
Sample Elevation ² (feet)		95.0	90.0	90.0	88.0	84.0	88.0	88.0	88.0	87.0	87.0
Petroleum Hydrocarbons by NWTPH-G/Dx (mg/kg)											
Gasoline-Range	30	--	--	--	17.6	6.2 U	4.68 U	2,080	6.30 U	5.62 U	5.54 U
Diesel-Range	2,000	--	--	--	57.4 U	57.1 U	61.4 U	1030	52.6 U	49.6 U	47.1 U
Heavy Oil-Range		--	--	--	115 U	114 U	123 U	112 U	105 U	99.3 U	94.1 U
Total Diesel and Heavy Oil Range	2,000	--	--	--	115 U	114 U	123 U	1030	105 U	99.3 U	94.1 U
Volatile Organic Compounds (VOCs) by EPA 8021/8260 (mg/kg)											
Benzene	0.03	--	--	--	0.0184 U	0.0217 U	0.0164 U	0.0297	0.0220 U	0.0197 U	0.0194 U
Toluene	7	--	--	--	0.0316 U	0.0372 U	0.0281 U	0.0358 U	0.0378 U	0.0337 U	0.0332 U
Ethylbenzene	6	--	--	--	0.0263 U	0.0310 U	0.0234 U	8.55	0.0315 U	0.0281 U	0.0277 U
Total Xylenes	9	--	--	--	0.0527 U	0.0620 U	0.0468 U	18.047	0.0630 U	0.0562 U	0.0554 U
Total Metals by EPA 6000 /7000 Series (mg/kg)											
Lead	250	--	--	--	--	--	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs) by EPA 8270D/SIM (mg/kg)											
1-Methylnaphthalene	34	--	--	--	0.0236 U	0.0475	0.0244 U	1.29	0.0196 U	0.0209 U	0.0182 U
2-Methylnaphthalene	320	--	--	--	0.0236 U	0.0849	0.0244 U	2.87	0.0196 U	0.0209 U	0.0182 U
Acenaphthene	4,800	--	--	--	--	--	--	--	--	--	--
Acenaphthylene	NE	--	--	--	--	--	--	--	--	--	--
Anthracene	24,000	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene	NE	0.0246 U	0.0243 U	0.0249 U	--	--	--	--	--	--	--
Benzo(a)pyrene	0.1	0.0369 U	0.0365 U	0.0373 U	--	--	--	--	--	--	--
Benzo(b)fluoranthene	NE	0.0307 U	0.0304 U	0.0311 U	--	--	--	--	--	--	--
Benzo(g,h,i)perylene	NE	--	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene	NE	0.0307 U	0.0304 U	0.0311 U	--	--	--	--	--	--	--
Chrysene	NE	0.0246 U	0.0243 U	0.0249 U	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	NE	0.0615 U	0.0608 U	0.0621 U	--	--	--	--	--	--	--
Fluoranthene	3,200	--	--	--	--	--	--	--	--	--	--
Fluorene	3,200	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	NE	0.0492 U	0.0487 U	0.0497 U	--	--	--	--	--	--	--
Naphthalene (total) ⁴	5	--	--	--	0.0236 U	0.1686	0.0244 U	8.98	0.0196 U	0.0209 U	0.0182 U
Phenanthrene	NE	--	--	--	--	--	--	--	--	--	--
Pyrene	2,400	--	--	--	--	--	--	--	--	--	--
Total cPAH TEQ ⁵	0.19	0.028 U	0.0248 U	0.028 U	--	--	--	--	--	--	--

Notes:

¹ Approximate confirmation sample locations shown on Figures 11 through 13.

² Ground surface elevation referenced to North American Vertical Datum 1988 (NAVD88).

³ Washington State Model Toxic Control Act Cleanup Regulation (MTCA) Method A Soil Cleanup Levels for Unrestricted Land Uses. MTCA Method B cleanup level used when Method A cleanup level has not been established.

⁴ Total naphthalenes include the sum 1-methylnaphthalene, 2-methylnaphthalenes and naphthalene.

⁵ Total carcinogenic PAHs (cPAHs) calculated using the toxicity equivalency (TEQ) methodology in WAC 173-340-708(8). Non-detections were assigned half the reporting limit for these calculations.

bgs = below ground surface

mg/kg = milligram per kilogram

GEI = GeoEngineers, Inc.

NE = not established

-- = not tested

U = Analyte not detected above the reported sample quantization limit

Grey Italics indicates soil represented by this sample was over-excavated and removed from the Site for permitted disposal.

Bold indicates analyte was detected.

 Shading indicates analyte was detected at a concentration greater than the MTCA soil cleanup level.

Table 5
Summary of Confirmation Soil Sample Chemical Analytical Data
 701 South Jackson Street
 Seattle, Washington

Sample Location ¹	Sample Identification	Remedial Area 3									
		R3-SSW-E-88	R3-DUP-01 (R3-SSW-E-88)	R3-SSW-W-88	R3-SW-1-83	R3-SW-1-83	R3-B1-81	R3-B1-80	R3-B2-81	R3-B3-81	R3-B3-79
Sampled By	Sample Date	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI
Sample Depth (feet bgs)	Sample Elevation ² (feet)	08/23/23	08/23/23	08/23/23	09/25/23	09/25/23	08/25/23	09/08/23	08/25/23	08/25/23	09/20/23
Sample Elevation ² (feet)	MTCA Cleanup Levels ³	10.0	10.0	7.0	13.0	13.0	17.0	18.0	18.0	17.0	19.0
Sample Elevation ² (feet)	MTCA Cleanup Levels ³	88.0	88.0	88.0	83.0	83.0	81.0	80.0	81.0	81.0	79.0
Petroleum Hydrocarbons by NWTPH-G/Dx (mg/kg)											
Gasoline-Range	30	5.43 U	5.51 U	5.48 U	5.92 U	5.39 U	7.74	6.77 U	5.41 U	168	7.56 U
Diesel-Range	2,000	50.6 U	50.8 U	45.5 U	60.7 U	62.6 U	62.3 U	60.9 U	60.5 U	62.4 U	51.4 U
Heavy Oil-Range		101 U	102 U	90.9 U	121 U	125 U	125 U	122 U	121 U	125 U	103 U
Total Diesel and Heavy Oil Range	2,000	101 U	102 U	90.9 U	121 U	125 U	125 U	122 U	121 U	125 U	103 U
Volatile Organic Compounds (VOCs) by EPA 8021/8260 (mg/kg)											
Benzene	0.03	0.0190 U	0.0193 U	0.0192 U	0.0207 U	0.0189 U	0.0472	0.0237 U	0.0189 U	0.929	0.0292
Toluene	7	0.0326 U	0.0330 U	0.0329 U	0.0355 U	0.0323 U	0.0329 U	0.0406 U	0.02325 U	3.44	0.059
Ethylbenzene	6	0.0271 U	0.0275 U	0.0274 U	0.0296 U	0.0270 U	0.0275 U	0.0336 U	0.0270 U	2.89	0.0517
Total Xylenes	9	0.0543 U	0.0551 U	0.0548 U	0.0592 U	0.0539 U	0.0549 U	0.0677 U	0.0541 U	17.54	0.2254
Total Metals by EPA 6000 /7000 Series (mg/kg)											
Lead	250	--	--	--	--	--	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs) by EPA 8270D/SIM (mg/kg)											
1-Methylnaphthalene	34	0.0196 U	0.0195 U	0.0204 U	0.0225 U	0.0232 U	0.0232 U	0.0224 U	0.0245 U	0.131	0.0212 U
2-Methylnaphthalene	320	0.0196 U	0.0195 U	0.0204 U	0.0225 U	0.0232 U	0.0232 U	0.0224 U	0.0245 U	0.287	0.0212 U
Acenaphthene	4,800	--	--	--	--	--	--	--	--	--	--
Acenaphthylene	NE	--	--	--	--	--	--	--	--	--	--
Anthracene	24,000	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene	NE	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	0.1	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	NE	--	--	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene	NE	--	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene	NE	--	--	--	--	--	--	--	--	--	--
Chrysene	NE	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	NE	--	--	--	--	--	--	--	--	--	--
Fluoranthene	3,200	--	--	--	--	--	--	--	--	--	--
Fluorene	3,200	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	NE	--	--	--	--	--	--	--	--	--	--
Naphthalene (total) ⁴	5	0.0196 U	0.0195 U	0.0204 U	0.0225 U	0.0232 U	0.0232 U	0.0224 U	0.0245 U	1.199	0.0212 U
Phenanthrene	NE	--	--	--	--	--	--	--	--	--	--
Pyrene	2,400	--	--	--	--	--	--	--	--	--	--
Total cPAH TEQ ⁵	0.19	--	--	--	--	--	--	--	--	--	--

Notes:

- ¹ Approximate confirmation sample locations shown on Figures 11 through 13.
- ² Ground surface elevation referenced to North American Vertical Datum 1988 (NAVD88).
- ³ Washington State Model Toxic Control Act Cleanup Regulation (MTCA) Method A Soil Cleanup Levels for Unrestricted Land Uses. MTCA Method B cleanup level used when Method A cleanup level has not been established.
- ⁴ Total naphthalenes include the sum 1-methylnaphthalene, 2-methylnaphthalenes and naphthalene.
- ⁵ Total carcinogenic PAHs (cPAHs) calculated using the toxicity equivalency (TEQ) methodology in WAC 173-340-708(8). Non-detections were assigned half the reporting limit for these calculations.

bgs = below ground surface

mg/kg = milligram per kilogram

GEI = GeoEngineers, Inc.

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U = Analyte not detected above the reported sample quantization limit

Grey Italics indicates soil represented by this sample was over-excavated and removed from the Site for permitted disposal.

Bold indicates analyte was detected.

 Shading indicates analyte was detected at a concentration greater than the MTCA soil cleanup level.

Table 5
Summary of Confirmation Soil Sample Chemical Analytical Data
 701 South Jackson Street
 Seattle, Washington

Sample Location ¹	Sample Identification	Remedial Area 3									
		R3-B4-81	R3-B4-80	R3-B5-81	R3-B6-81	R3-B7-81	R3-B7-80	R3-B7-79	R3-B7-78	R3-B8-81	R3-B8-79
Sampled By	MTCA Cleanup Levels ³	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI
Sample Date		08/25/23	09/08/23	08/25/23	08/30/23	08/30/23	09/01/23	09/19/23	09/25/23	08/30/23	09/08/23
Sample Depth (feet bgs)		16.0	17.0	17.0	14.0	16.0	17.0	18.0	19.0	15.0	17.0
Sample Elevation ² (feet)		81.0	80.0	81.0	81.0	81.0	80.0	79.0	78.0	81.0	79.0
Petroleum Hydrocarbons by NWTPH-G/Dx (mg/kg)											
Gasoline-Range	30	30.1	6.61 U	23.8	6.19 U	581	14.4	5.91 U	4.90 U	149	7.56 U
Diesel-Range	2,000	63.2 U	60.7 U	445	60.4 U	60.1 U	--	--	55.2 U	61.7 U	51.4 U
Heavy Oil-Range		126 U	121 U	118 U	121 U	120 U	--	--	110 U	123 U	103 U
Total Diesel and Heavy Oil Range	2,000	126 U	121 U	445	121 U	120 U	--	--	110 U	123 U	103 U
Volatile Organic Compounds (VOCs) by EPA 8021/8260 (mg/kg)											
Benzene	0.03	0.243	0.0231 U	0.0194 U	0.0265	1.38	0.241	0.0785	0.0172 U	3.27	0.0265 U
Toluene	7	0.0828	0.0397 U	0.033 U	0.0372 U	12.9	0.529	0.0355 U	0.0294 U	7.66	0.0590 U
Ethylbenzene	6	1.1	0.0331 U	0.0278 U	0.155	9.42	0.168	0.0956	0.0246 U	3.27	0.0378 U
Total Xylenes	9	0.976	0.0661 U	0.055 U	0.2647	65.1	1.085	0.256	0.0490 U	22.22	0.0756 U
Total Metals by EPA 6000 /7000 Series (mg/kg)											
Lead	250	--	--	--	--	--	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs) by EPA 8270D/SIM (mg/kg)											
1-Methylnaphthalene	34	0.0426	0.0245 U	0.773	0.0241 U	--	--	--	0.0220 U	--	0.01212 U
2-Methylnaphthalene	320	0.0818	0.0245 U	1.68	0.0241 U	--	--	--	0.0220 U	--	0.01212 U
Acenaphthene	4,800	--	--	--	--	--	--	--	--	--	--
Acenaphthylene	NE	--	--	--	--	--	--	--	--	--	--
Anthracene	24,000	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene	NE	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	0.1	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	NE	--	--	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene	NE	--	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene	NE	--	--	--	--	--	--	--	--	--	--
Chrysene	NE	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	NE	--	--	--	--	--	--	--	--	--	--
Fluoranthene	3,200	--	--	--	--	--	--	--	--	--	--
Fluorene	3,200	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	NE	--	--	--	--	--	--	--	--	--	--
Naphthalene (total) ⁴	5	0.3314	0.0245 U	3.064	0.0241 U	--	--	--	--	--	0.01212 U
Phenanthrene	NE	--	--	--	--	--	--	--	--	--	--
Pyrene	2,400	--	--	--	--	--	--	--	--	--	--
Total cPAH TEQ ⁵	0.19	--	--	--	--	--	--	--	--	--	--

Notes:

¹ Approximate confirmation sample locations shown on Figures 11 through 13.

² Ground surface elevation referenced to North American Vertical Datum 1988 (NAVD88).

³ Washington State Model Toxic Control Act Cleanup Regulation (MTCA) Method A Soil Cleanup Levels for Unrestricted Land Uses. MTCA Method B cleanup level used when Method A cleanup level has not been established.

⁴ Total naphthalenes include the sum 1-methylnaphthalene, 2-methylnaphthalenes and naphthalene.

⁵ Total carcinogenic PAHs (cPAHs) calculated using the toxicity equivalency (TEQ) methodology in WAC 173-340-708(8). Non-detections were assigned half the reporting limit for these calculations.

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Table 5
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 701 South Jackson Street
 Seattle, Washington

Sample Location ¹	Sample Identification	Remedial Area 3									
		R3-B9-81	R3-B9-80	R3-B9-79	R3-B9-77.5	R3-B10-81	R3-B10-80	R3-B11-83	R3-B12-83	R3-B12-81	R3-B13-79
Sampled By	MTCA Cleanup Levels ³	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI
Sample Date		08/30/23	09/08/23	09/08/23	09/25/23	08/30/23	09/08/23	09/08/23	09/08/23	09/08/23	09/11/23
Sample Depth (feet bgs)		16.0	17.0	18.0	79.0	18.0	19.0	17.0	16.0	18.0	18.0
Sample Elevation ² (feet)		81.0	80.0	79.0	78	81.0	80.0	83.0	83.0	81.0	79.0
Petroleum Hydrocarbons by NWTPH-G/Dx (mg/kg)											
Gasoline-Range	30	<i>303</i>	<i>86</i>	<i>80.5</i>	5.09 U	19	18.9	5.26 U	<i>24,400</i>	8.31 U	17.8
Diesel-Range	2,000	<i>61.6 U</i>	--	--	56.3 U	<i>59.2 U</i>	52.4 U	54.4 U	--	61.7 U	--
Heavy Oil-Range		<i>123 U</i>	--	--	113 U	<i>118 U</i>	105 U	109 U	--	123 U	--
Total Diesel and Heavy Oil Range	2,000	<i>124 U</i>	--	--	113 U	<i>118 U</i>	105 U	109 U	--	123 U	--
Volatile Organic Compounds (VOCs) by EPA 8021/8260 (mg/kg)											
Benzene	0.03	<i>0.957</i>	<i>0.603</i>	<i>0.477</i>	0.0178 U	<i>0.105</i>	0.0246 U	0.0184 U	<i>0.187 U</i>	0.0291 U	<i>0.901</i>
Toluene	7	<i>2.9</i>	<i>1.42</i>	<i>0.946</i>	0.0305 U	<i>0.0358 U</i>	0.0422 U	0.0316 U	<i>0.345</i>	0.0498 U	<i>0.629</i>
Ethylbenzene	6	<i>4.74</i>	<i>2.04</i>	<i>1.73</i>	0.0254 U	<i>0.451</i>	0.0474	0.0263 U	<i>156</i>	0.0415 U	<i>0.612</i>
Total Xylenes	9	<i>25.33</i>	<i>11.47</i>	<i>6.83</i>	0.0609 U	<i>0.1567</i>	0.0703 U	0.0526 U	<i>134.58</i>	0.0831 U	<i>2.479</i>
Total Metals by EPA 6000 /7000 Series (mg/kg)											
Lead	250	--	--	--	--	--	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs) by EPA 8270D/SIM (mg/kg)											
1-Methylnaphthalene	34	--	--	--	0.0214 U	--	0.0206 U	0.0236 U	--	0.0256 U	--
2-Methylnaphthalene	320	--	--	--	0.0214 U	--	0.0206 U	0.0236 U	--	0.0256 U	--
Acenaphthene	4,800	--	--	--	--	--	--	--	--	--	--
Acenaphthylene	NE	--	--	--	--	--	--	--	--	--	--
Anthracene	24,000	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene	NE	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	0.1	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	NE	--	--	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene	NE	--	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene	NE	--	--	--	--	--	--	--	--	--	--
Chrysene	NE	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	NE	--	--	--	--	--	--	--	--	--	--
Fluoranthene	3,200	--	--	--	--	--	--	--	--	--	--
Fluorene	3,200	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	NE	--	--	--	--	--	--	--	--	--	--
Naphthalene (total) ⁴	5	--	--	--	0.0214 U	--	0.0206 U	0.0236 U	--	0.0256 U	--
Phenanthrene	NE	--	--	--	--	--	--	--	--	--	--
Pyrene	2,400	--	--	--	--	--	--	--	--	--	--
Total cPAH TEQ ⁵	0.19	--	--	--	--	--	--	--	--	--	--

Notes:

¹ Approximate confirmation sample locations shown on Figures 11 through 13.

² Ground surface elevation referenced to North American Vertical Datum 1988 (NAVD88).

³ Washington State Model Toxic Control Act Cleanup Regulation (MTCA) Method A Soil Cleanup Levels for Unrestricted Land Uses. MTCA Method B cleanup level used when Method A cleanup level has not been established.

⁴ Total naphthalenes include the sum 1-methylnaphthalene, 2-methylnaphthalenes and naphthalene.

⁵ Total carcinogenic PAHs (cPAHs) calculated using the toxicity equivalency (TEQ) methodology in WAC 173-340-708(8). Non-detections were assigned half the reporting limit for these calculations.

bgs = below ground surface

mg/kg = milligram per kilogram

GEI = GeoEngineers, Inc.

NE = not established

-- = not tested

U = Analyte not detected above the reported sample quantization limit

Grey Italics indicates soil represented by this sample was over-excavated and removed from the Site for permitted disposal.

Bold indicates analyte was detected.

 Shading indicates analyte was detected at a concentration greater than the MTCA soil cleanup level.

Table 5
Summary of Confirmation Soil Sample Chemical Analytical Data
701 South Jackson Street
Seattle, Washington

Sample Location ¹	Sample Identification	Remedial Area 3				
		R3-B13-78	R3-DUP-02 (R3-B13-78)	R3-B14-79	R3-B14-77.5	R3-B15-83
Sampled By	MTCA Cleanup Levels ³	GEI	GEI	GEI		GEI
Sample Date		09/19/23	09/19/23	09/11/23	09/25/23	09/25/23
Sample Depth (feet bgs)		18.0	18.0	19.0	18.5	13.0
Sample Elevation ² (feet)		79.0	79.0	79.0	77.5	83.0
Petroleum Hydrocarbons by NWTPH-G/Dx (mg/kg)						
Gasoline-Range	30	4.75 U	5.26 U	10.2	6.21 U	5.06 U
Diesel-Range	2,000	56.6 U	49.4 U	--	62.6 U	58.3 U
Heavy Oil-Range		113 U	99.6 U	--	125 U	1177 U
Total Diesel and Heavy Oil Range	2,000	113 U	99.6 U	--	125 U	1177 U
Volatile Organic Compounds (VOCs) by EPA 8021/8260 (mg/kg)						
Benzene	0.03	0.0166 U	0.0184 U	0.341	0.0217 U	0.0177 U
Toluene	7	0.0285 U	0.0316 U	0.0411	0.0373 U	0.0303 U
Ethylbenzene	6	0.0238 U	0.0263 U	0.185	0.0310 U	0.0353 U
Total Xylenes	9	0.0475 U	0.0526 U	0.8751	0.0621 U	0.0506 U
Total Metals by EPA 6000 /7000 Series (mg/kg)						
Lead	250	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs) by EPA 8270D/SIM (mg/kg)						
1-Methylnaphthalene	34	0.0239 U	0.0230 U	--	0.0241 U	0.0230 U
2-Methylnaphthalene	320	0.0239 U	0.0230 U	--	0.0241 U	0.0230 U
Acenaphthene	4,800	--	--	--	--	--
Acenaphthylene	NE	--	--	--	--	--
Anthracene	24,000	--	--	--	--	--
Benzo[a]anthracene	NE	--	--	--	--	--
Benzo(a)pyrene	0.1	--	--	--	--	--
Benzo(b)fluoranthene	NE	--	--	--	--	--
Benzo(g,h,i)perylene	NE	--	--	--	--	--
Benzo(k)fluoranthene	NE	--	--	--	--	--
Chrysene	NE	--	--	--	--	--
Dibenzo(a,h)anthracene	NE	--	--	--	--	--
Fluoranthene	3,200	--	--	--	--	--
Fluorene	3,200	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	NE	--	--	--	--	--
Naphthalene (total) ⁴	5	0.0239 U	0.0230 U	--	0.0241 U	0.0230 U
Phenanthrene	NE	--	--	--	--	--
Pyrene	2,400	--	--	--	--	--
Total cPAH TEQ ⁵	0.19	--	--	--	--	--

Notes:

¹ Approximate confirmation sample locations shown on Figures 11 through 13.

² Ground surface elevation referenced to North American Vertical Datum 1988 (NAVD88).

³ Washington State Model Toxic Control Act Cleanup Regulation (MTCA) Method A Soil Cleanup Levels for Unrestricted Land Uses. MTCA Method B cleanup level used when Method A cleanup level has not been established.

⁴ Total naphthalenes include the sum 1-methylnaphthalene, 2-methylnaphthalenes and naphthalene.

⁵ Total carcinogenic PAHs (cPAHs) calculated using the toxicity equivalency (TEQ) methodology in WAC 173-340-708(8). Non-detections were assigned half the reporting limit for these calculations.

bgs = below ground surface

mg/kg = milligram per kilogram

GEI = GeoEngineers, Inc.

NE = not established

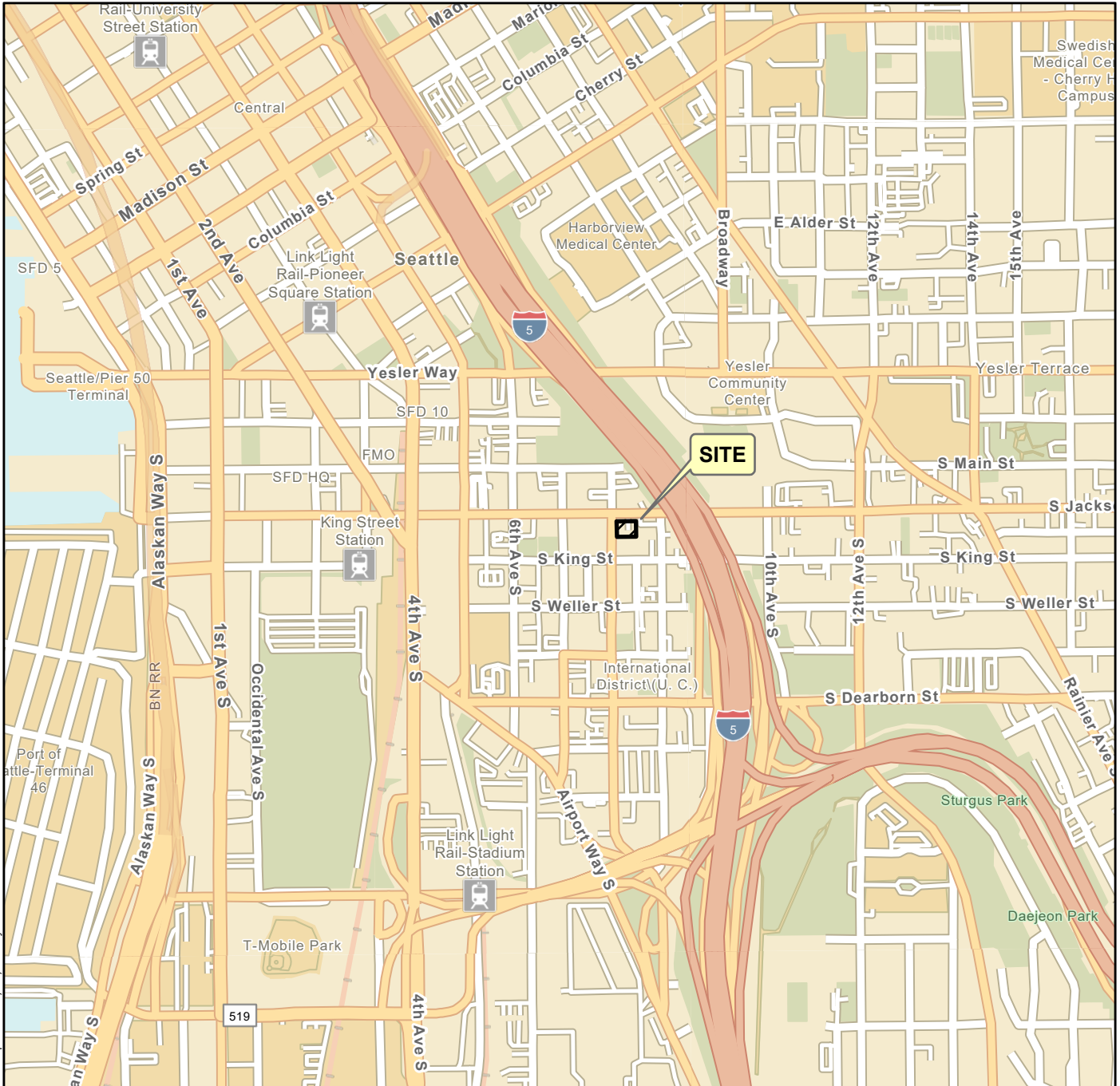
-- = not tested

U = Analyte not detected above the reported sample quantization limit

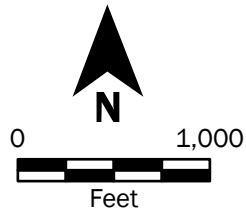
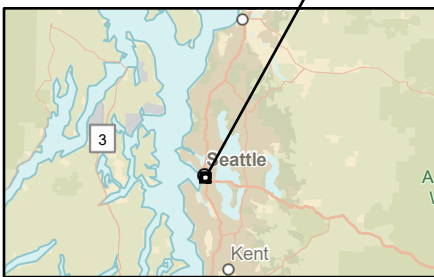
Grey Italics indicates soil represented by this sample was over-excavated and removed from the Site for permitted disposal.

Bold indicates analyte was detected.

 Shading indicates analyte was detected at a concentration greater than the MTCA soil cleanup level.



P:\24\24504001_GIS\24504001_Project.aprx\VicinityMap Date Exported: 11/15/23 by odias

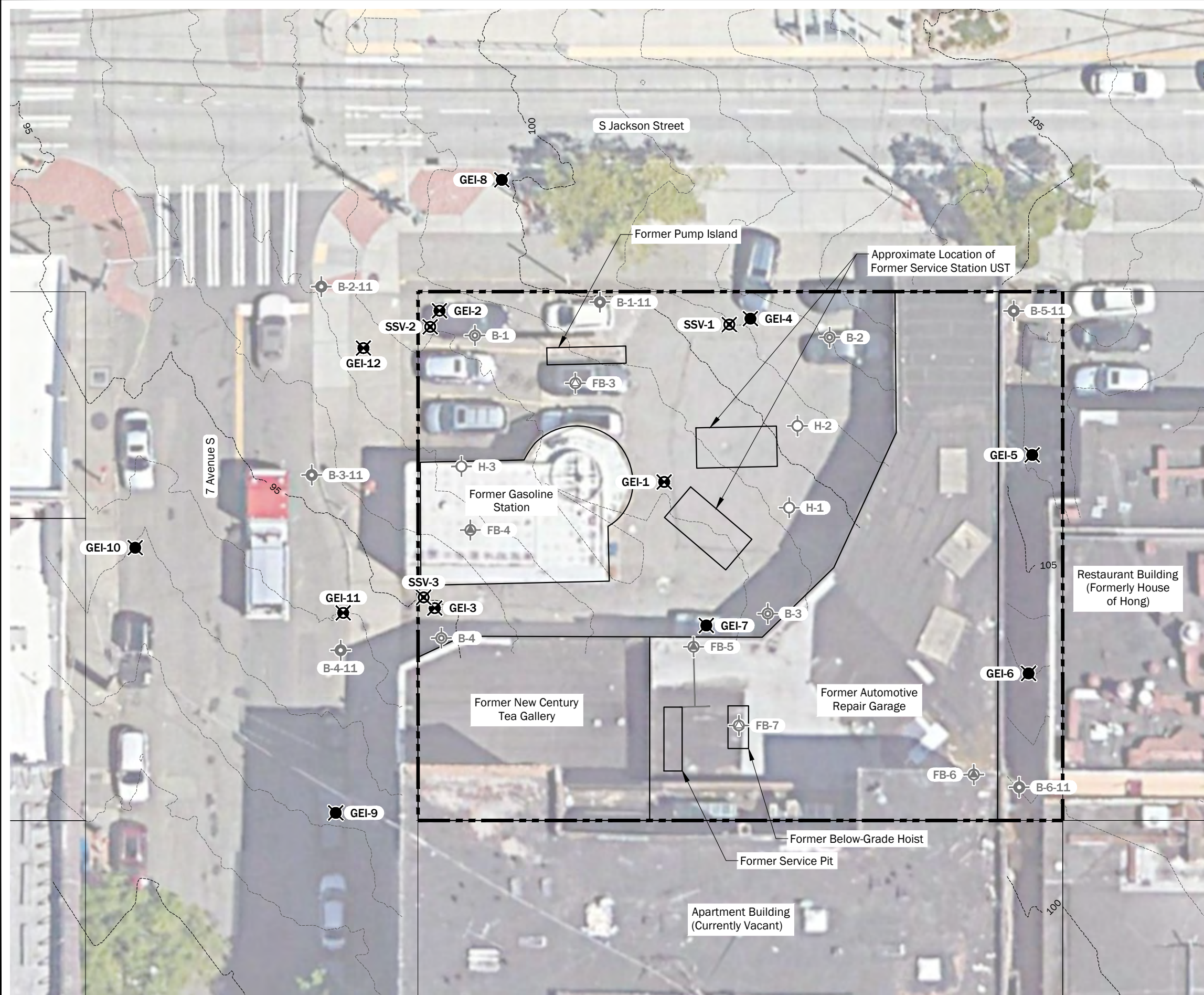


Vicinity Map	
701 South Jackson Street Seattle, Washington	
	Figure 1

Source(s):
 • ESRI

Coordinate System: NAD 1983 UTM Zone 10N

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Legend

- Property Boundary
- Parcel Boundary
- Topographic Contour (Feet, NAVD88)
- Historical Feature

Previous Environmental Investigations

- FB-3 Hollow Stem Auger Boring by Farallon Consulting, 2019
- FB-4 Direct Push Boring by Farallon Consulting, 2019
- FB-5 Direct Push Boring by Farallon Consulting, 2019 Completed at 25 degrees to horizontal
- B-1-11 Hollow Stem Auger Boring by Landau Associates, 2011
- B-1 Hollow Stem Auger Boring by GEO Group Northwest, 2006
- H-1 Hollow Stem Auger Boring by GEO Group Northwest, 1992
- GEI-1 Hollow Stem Auger Boring by GeoEngineers, 2021/2022
- GEI-4 Direct Push Boring by GeoEngineers, 2021/2022
- SSV-1 Soil Vapor Boring by GeoEngineers, 2021

Note(s):

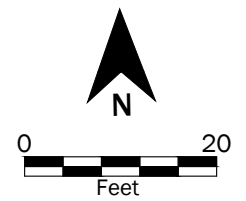
- Elevations on this plan reference the North American Vertical Datum of 1988 (NAVD88).

Source(s):

- Aerial from Google Earth Pro dated 5/26/2018
- LIDAR from Puget Sound Lidar Consortium dated 2016

Projection: WA State Plane, North Zone, NAD83, US Foot

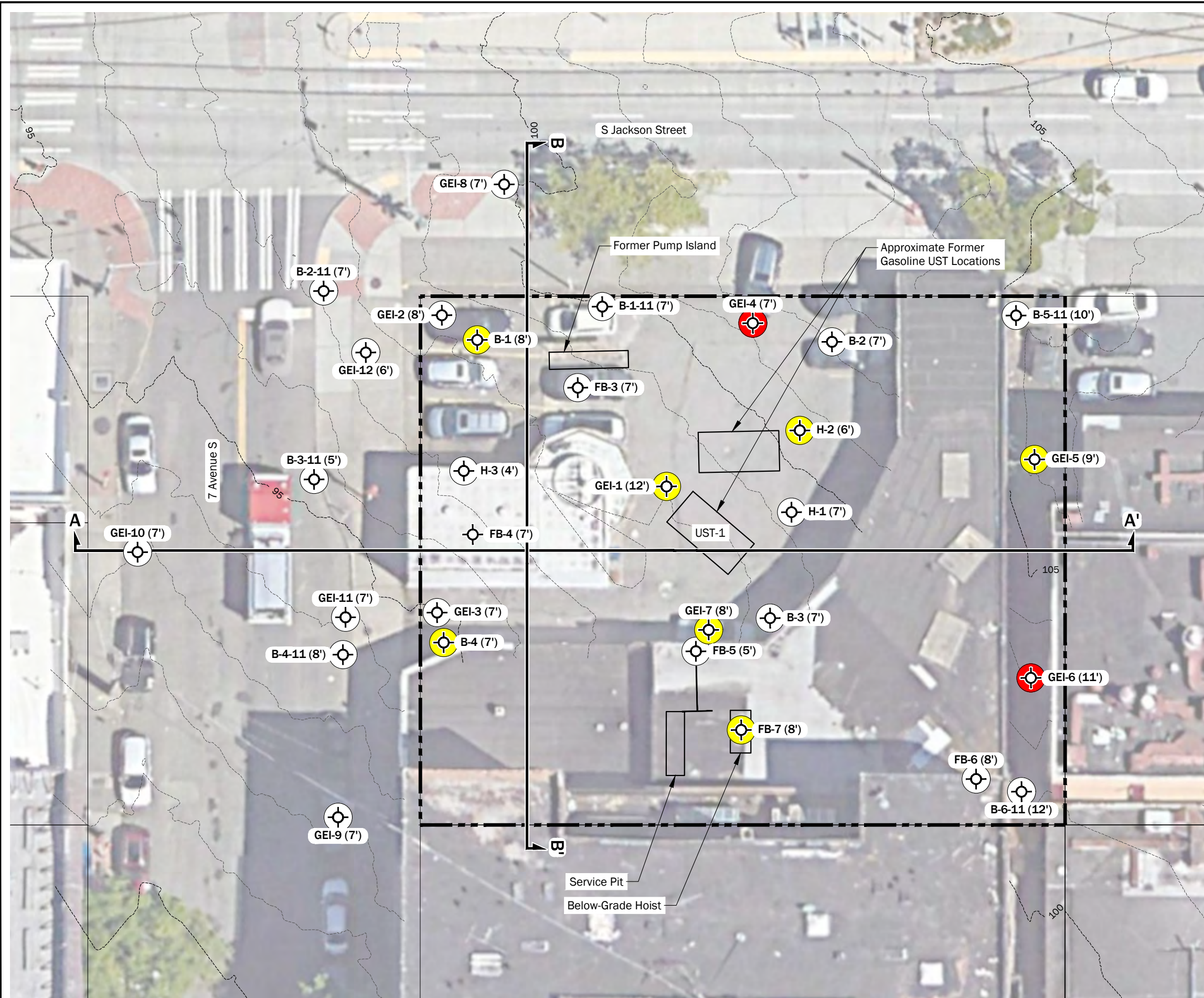
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Previous Property Layout and Environmental Investigation Sampling Locations

701 South Jackson Street
Seattle, Washington

Figure 2



Legend

- FB-4 Investigation Sampling Location
- FB-5 Investigation sampling location completed at 25 degrees to horizontal
- A A' Cross Section Location
- One or More Contaminants Detected at a Concentration Greater Than the MTCA CUL
- One or More Contaminants Detected at a Concentration Greater than Natural Background but Less than the MTCA CUL
- Contaminants Not Detected or Detected Less than Natural Background
- Not Analyzed
- (7') Depth below ground surface to Fill/Native Soil Contact (Approximate)

Natural Background = Natural Background soil metals for Puget Sound (Ecology Publication 94-115)
 MTCA = Model Toxics Control Act
 CUL = Cleanup Level (see Table 1)

Note(s):

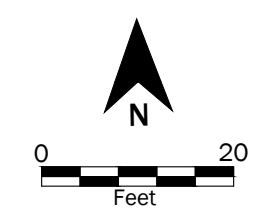
- Elevations on this plan reference the North American Vertical Datum of 1988 (NAVD88).

Source(s):

- Aerial from Google Earth Pro dated 5/26/2018
- LIDAR from Puget Sound Lidar Consortium dated 2016

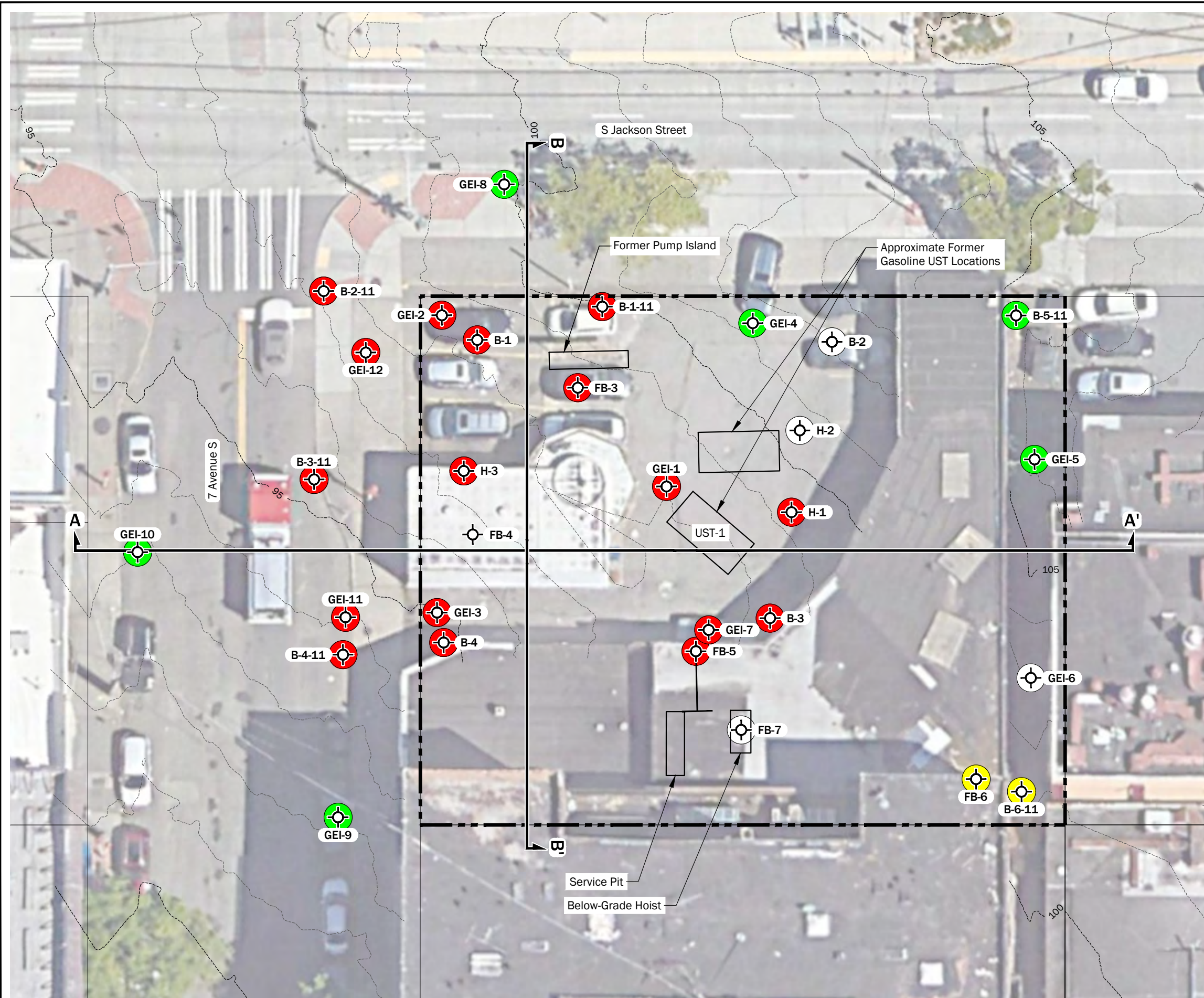
Projection: WA State Plane, North Zone, NAD83, US Foot

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Pre-Construction Fill Soil Conditions	
701 South Jackson Street Seattle, Washington	
	Figure 3

p:\24\24504001\CAD\03\Cleanup action report\2450400103_F4_Pre-Construction Native Soil Conditions.dwg Pre-Construction Fill Soil Conditions Date Exported:11/21/2023 2:42 PM - by Courtney Dias



Legend

- FB-4 Investigation Sampling Location
- FB-5 Investigation sampling location completed at 25 degrees to horizontal
- A A' Cross Section Location
- One or More Contaminants Detected at a Concentration Greater Than the MTCA CUL
- One or More Contaminants Detected at a Concentration Greater than Natural Background but Less than the MTCA CUL
- Contaminants Not Detected or Detected Less than Natural Background
- Not Analyzed

Natural Background = Natural Background soil metals for Puget Sound (Ecology Publication 94-115)
 MTCA = Model Toxics Control Act
 CUL = Cleanup Level (see Table 1)

Note(s):

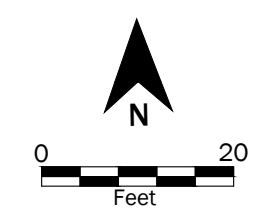
- Elevations on this plan reference the North American Vertical Datum of 1988 (NAVD88).

Source(s):

- Aerial from Google Earth Pro dated 5/26/2018
- LIDAR from Puget Sound Lidar Consortium dated 2016

Projection: WA State Plane, North Zone, NAD83, US Foot

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Pre-Construction Native Soil Conditions	
701 South Jackson Street Seattle, Washington	
	Figure 4

P:\24\24504001\CAD\03\cleanup action report\2450400103_F5_Pre-Construction GW Conditions.dwg Exported:2/9/2024 3:35 PM - by Courtney Dias



Legend

- GEI-1 Monitoring Well / Grab Groundwater Sampling Location
- ↔ A A' Cross Section Location
- One or More Contaminants Detected at a Concentration Greater Than the MTCA CUL
- Contaminants Not Detected or Detected Less than Natural Background
- Not Analyzed
- (7') Measured Groundwater Elevation (NAVD 88)
- ➔ Inferred Groundwater Flow Direction

Natural Background = Natural Background soil metals for Puget Sound (Ecology Publication 94-115)
 MTCA = Model Toxics Control Act
 CUL = Cleanup Level (see Table 1)

Note(s):

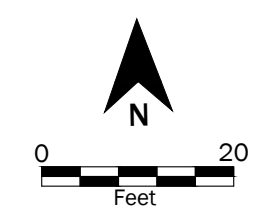
- Elevations on this plan reference the North American Vertical Datum of 1988 (NAVD88).

Source(s):

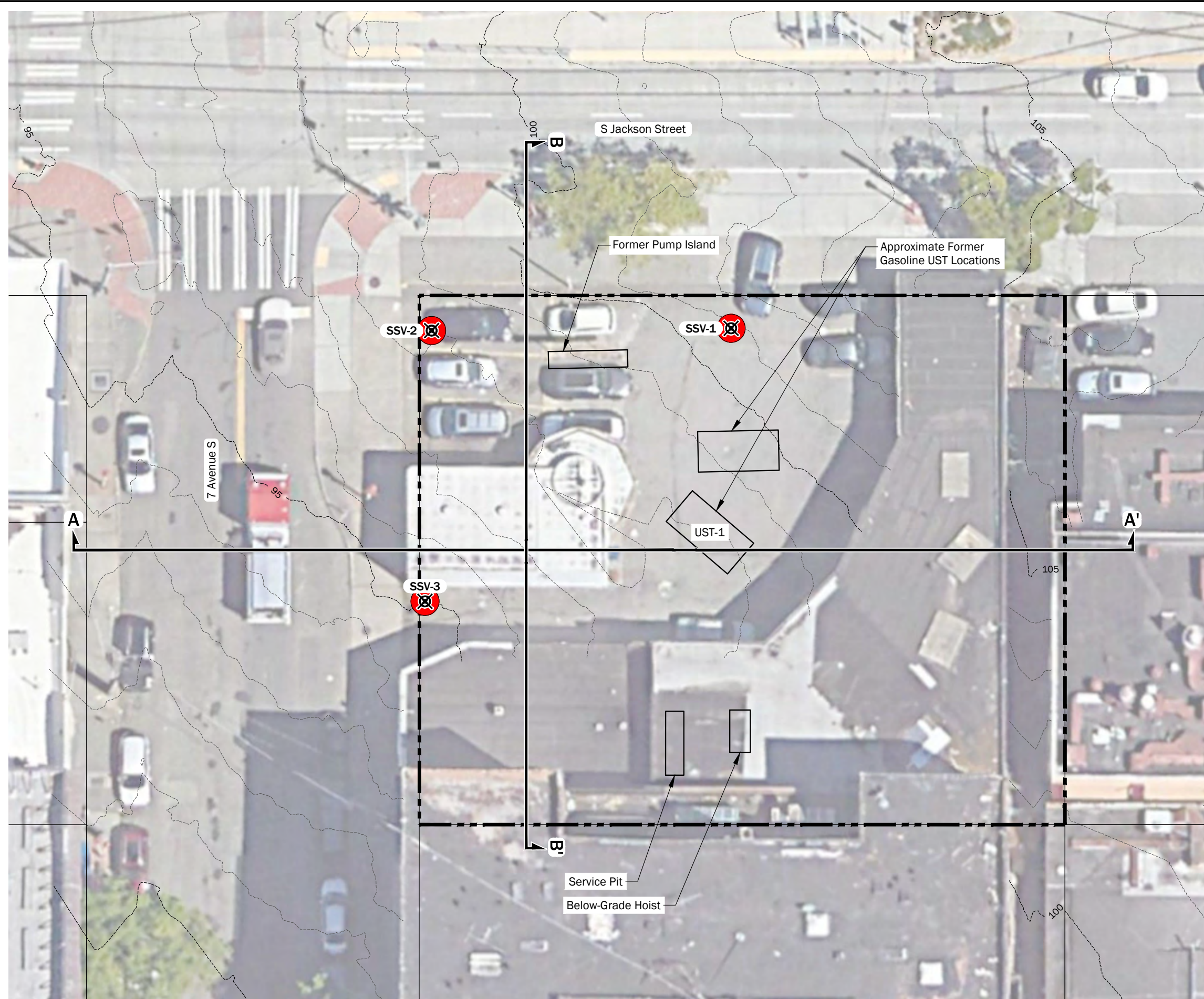
- Aerial from Google Earth Pro dated 5/26/2018
- LIDAR from Puget Sound Lidar Consortium dated 2016

Projection: WA State Plane, North Zone, NAD83, US Foot

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Pre-Construction Groundwater Conditions	
701 South Jackson Street Seattle, Washington	
	Figure 5



Legend

SSV-1 Soil Vapor Sampling Location

A A' Cross Section Location

One or More Contaminants Detected at a Concentration Greater Than the MTCA Sub-Slab Soil Gas Screening Level

Contaminants Not Detected or Detected Less than the MTCA Sub-Slab Soil Gas Screening Level

Not Analyzed

MTCA = Model Toxics Control Act

Note(s):

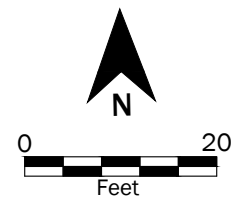
- Elevations on this plan reference the North American Vertical Datum of 1988 (NAVD88).

Source(s):

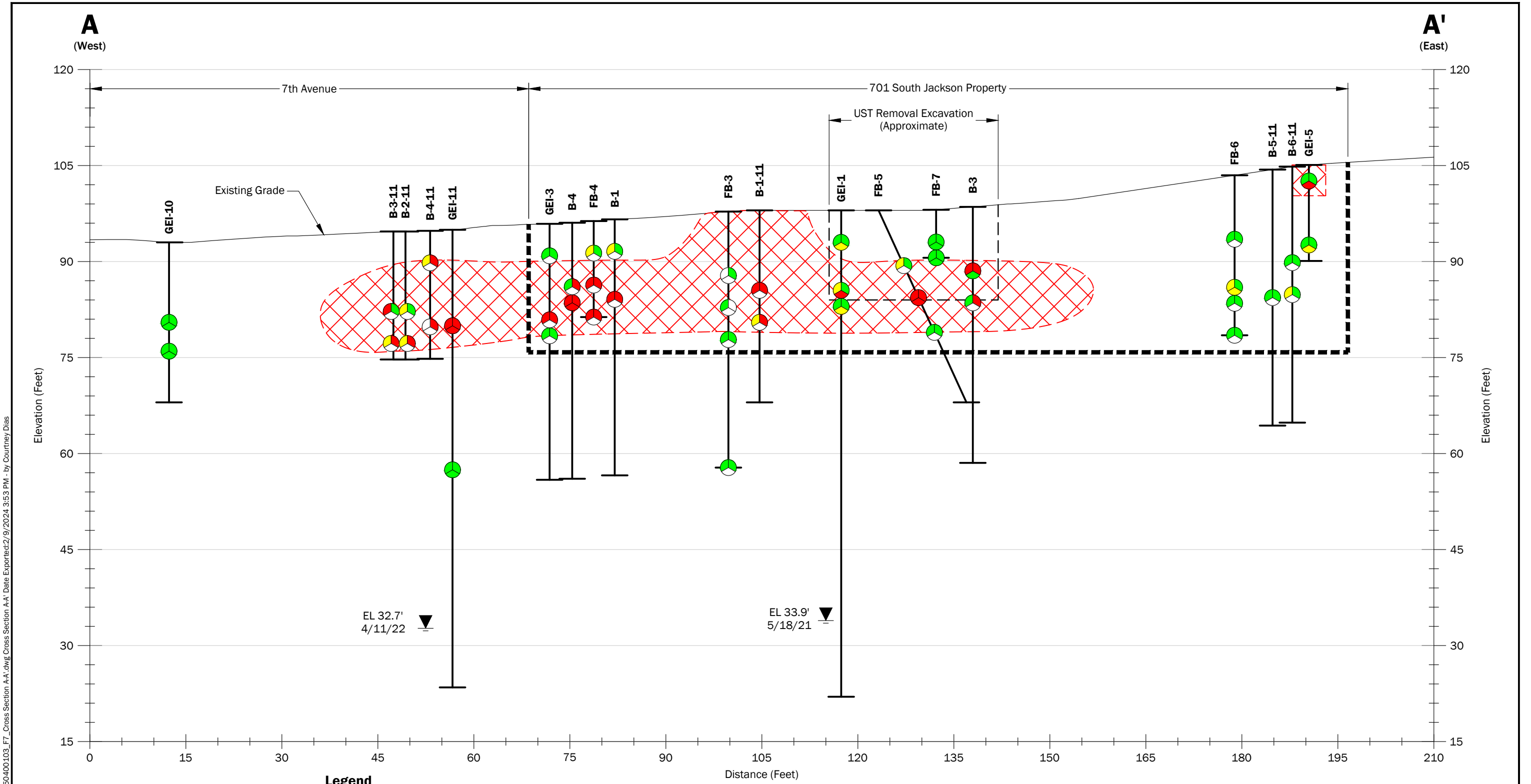
- Aerial from Google Earth Pro dated 5/26/2018
- LIDAR from Puget Sound Lidar Consortium dated 2016

Projection: WA State Plane, North Zone, NAD83, US Foot

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Pre-Construction Soil Vapor Conditions	
701 South Jackson Street Seattle, Washington	
	Figure 6



Note(s):

- The subsurface conditions shown are based on interpolation between widely spaced explorations and should be considered approximate; actual subsurface conditions may vary from those shown.

Datum: North American Vertical Datum 1988 (NAVD88)

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Legend

Soil Chemical Analytical Results (mg/kg)

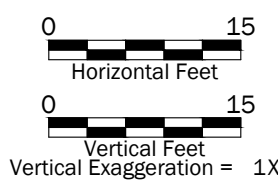
Gasoline — Benzene
PAHs and Metals

- Contaminants of Concern Not Detected or Detected at Concentration similar to Background Levels
- Contaminants of Concern Detected at Concentrations Less Than MTCA Method A/B Cleanup Levels
- Contaminants of Concern Detected at Concentrations Greater Than the MTCA Method A/B Cleanup Levels

 Approximate Extent of Contaminated Soil Greater than MTCA Cleanup Levels

--- Planned Development Extent

▼ Groundwater Measure Depth



Cross Section A-A'

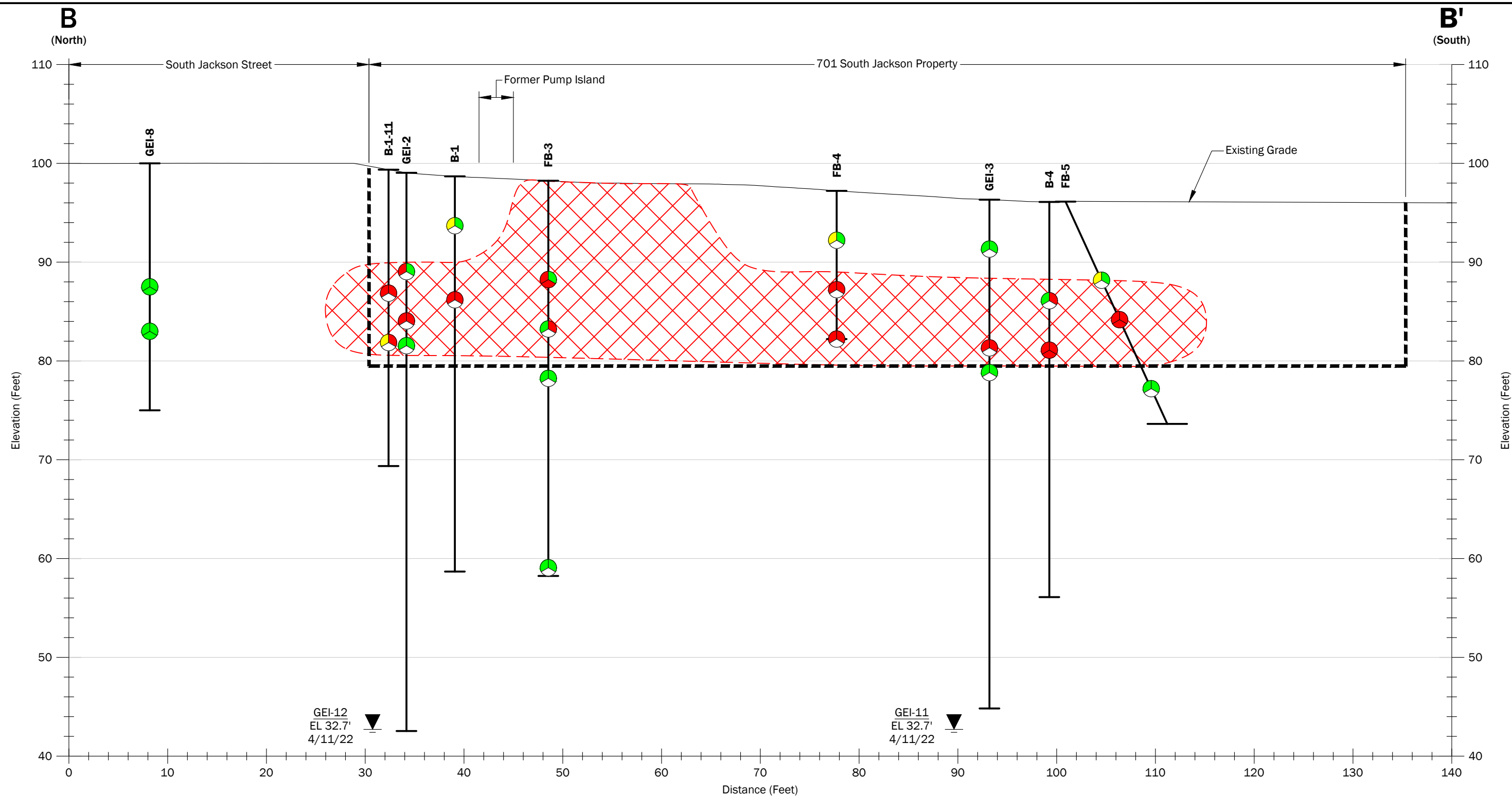
701 South Jackson Street
Seattle, Washington

GEOENGINEERS

Figure 7

P:\24\24504001\CAD\03\cleanup action report\2450400103_F7_Cross Section A-A'.dwg Cross Section A-A' Date Exported:2/9/2024 3:53 PM - by Courtney Dias

P:\24\24504001\CAD\03\cleanup action report\2450400103_FB_Cross Section B-B.dwg Cross Section B-B Date Exported:2/9/2024 4:15 PM - by Courtney Dias



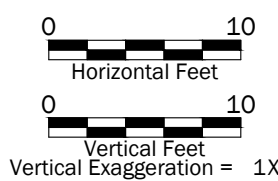
Note(s):
 1. The subsurface conditions shown are based on interpolation between widely spaced explorations and should be considered approximate; actual subsurface conditions may vary from those shown.

Datum: North American Vertical Datum 1988 (NAVD88)
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Legend
 Soil Chemical Analytical Results (mg/kg)

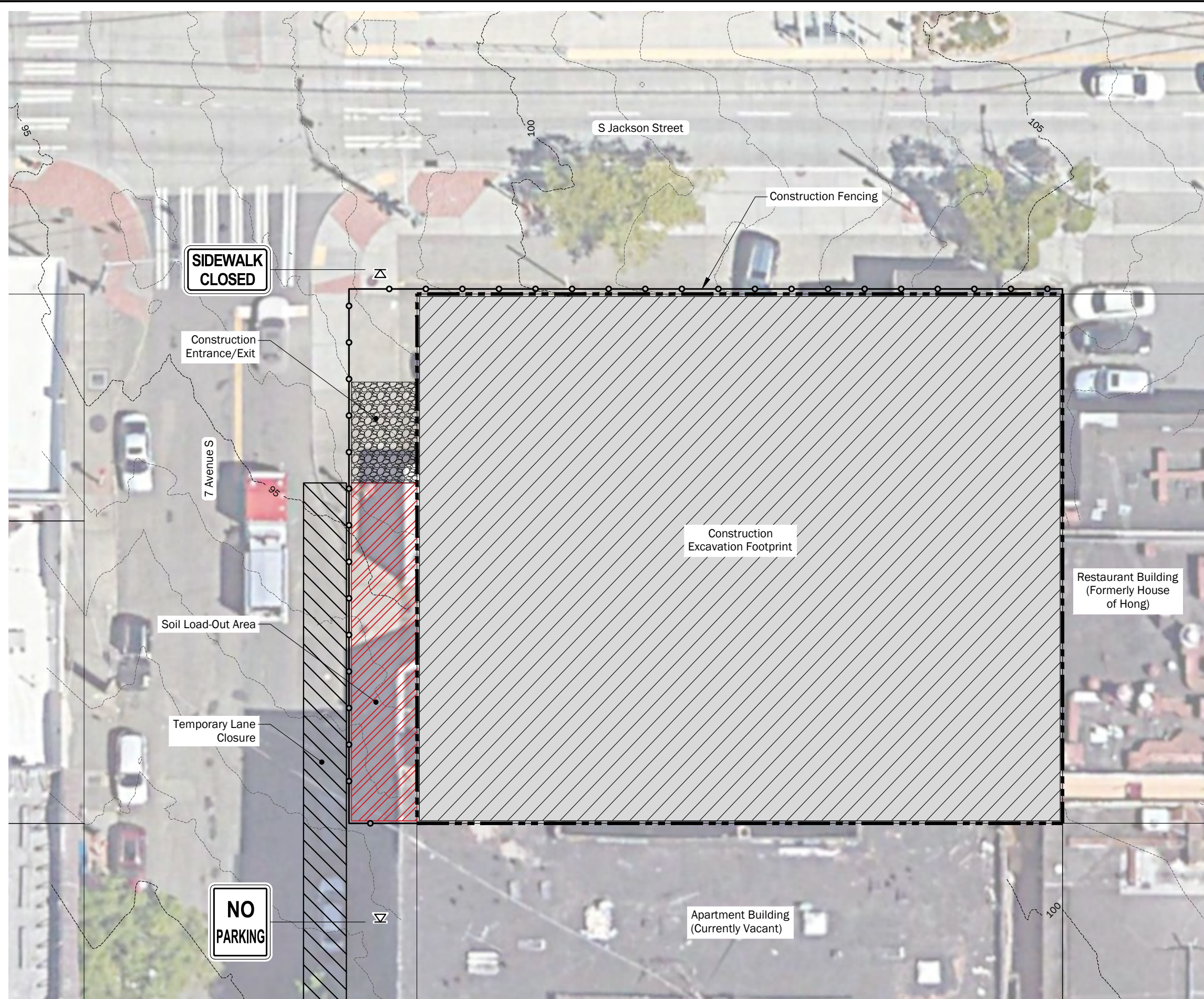
	Gasoline		Benzene
			PAHs and Metals
	Contaminants of Concern Not Detected or Detected at Concentration similar to Background Levels		
	Contaminants of Concern Detected at Concentrations Less Than MTCA Method A/B Cleanup Levels		
	Contaminants of Concern Detected at Concentrations Greater Than the MTCA Method A/B Cleanup Levels		

Approximate Extent of Contaminated Soil Greater than MTCA Cleanup Levels
 Planned Development Extent



Cross Section B-B'	
701 South Jackson Street Seattle, Washington	
	Figure 8

p:\24\24504001\CAD\03\Cleanup action report\2450400103_F9_TSC.dwg_TSC Date Exported:11/22/2023 10:10 AM - by Courtney Dias



- Legend**
- Property Boundary
 - ▭ Parcel Boundary
 - ~ Topographic Contour (Feet, NAVD88)
 - ▨ Property Redevelopment Area
 - ▧ Temporary Lane Closure
 - ▩ Temporary Construction Entrance/Exit
 - ▨ Soil Load-Out Area
 - Temporary Construction Fencing
 - ⚡ Temporary Sign Location

Note(s):

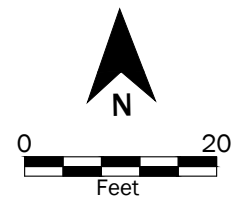
1. Elevations on this plan reference the North American Vertical Datum of 1988 (NAVD88).

Source(s):

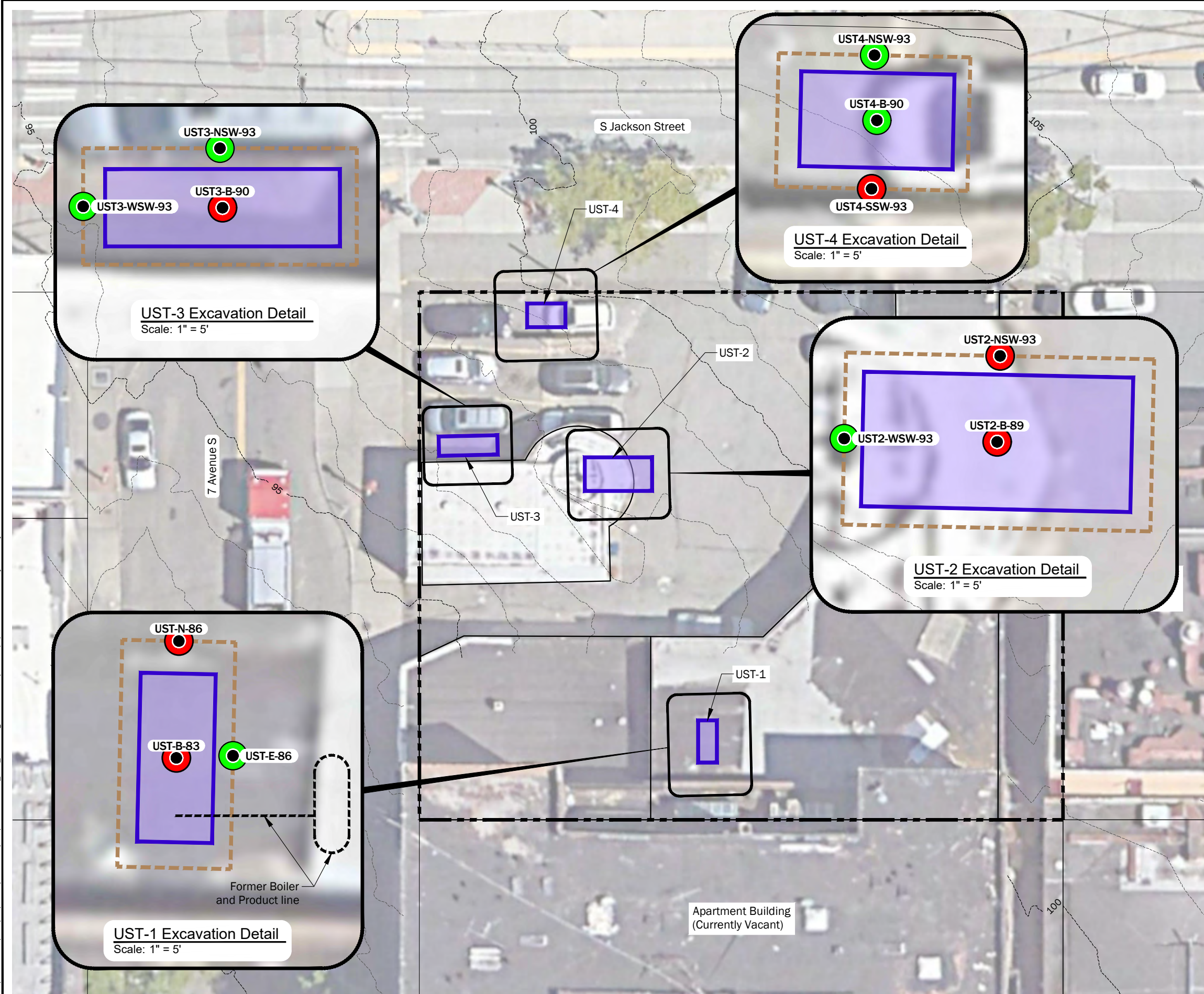
- Aerial from Google Earth Pro dated 5/26/2018
- LiDAR from Puget Sound Lidar Consortium dated 2016

Projection: WA State Plane, North Zone, NAD83, US Foot

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Temporary Site Controls	
701 South Jackson Street Seattle, Washington	
	Figure 9



Legend

- Property Boundary
- Parcel Boundary
- Topographic Contour (Feet, NAVD88)
- Historical Feature
- Previously Undocumented Underground Storage Tank (UST)
- Approximate Limits of UST Removal Excavation
- Confirmation Sample Collected from Limits of UST Removal Excavation
- Confirmation Sample Collected from Limits of UST Removal Excavation

Summary of Chemical Results (See Appendix B Tables)

- Soil Sample Location - Contaminants Either Not Detected or Detected Less Than the MTCA Cleanup Level
- Soil Sample Location - One or More Contaminants Detected Greater Than the MTCA Cleanup Level

UST-XX-XX

- Sample Elevation (NAVD88)
- Location Identification
- Sample Identification

MTCA - Model Toxics Control Act

Note(s):

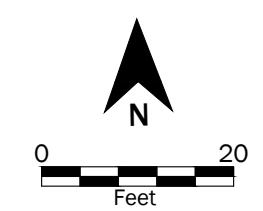
- Elevations on this plan reference the North American Vertical Datum of 1988 (NAVD88).

Source(s):

- Aerial from Google Earth Pro dated 5/26/2018
- LIDAR from Puget Sound Lidar Consortium dated 2016

Projection: WA State Plane, North Zone, NAD83, US Foot

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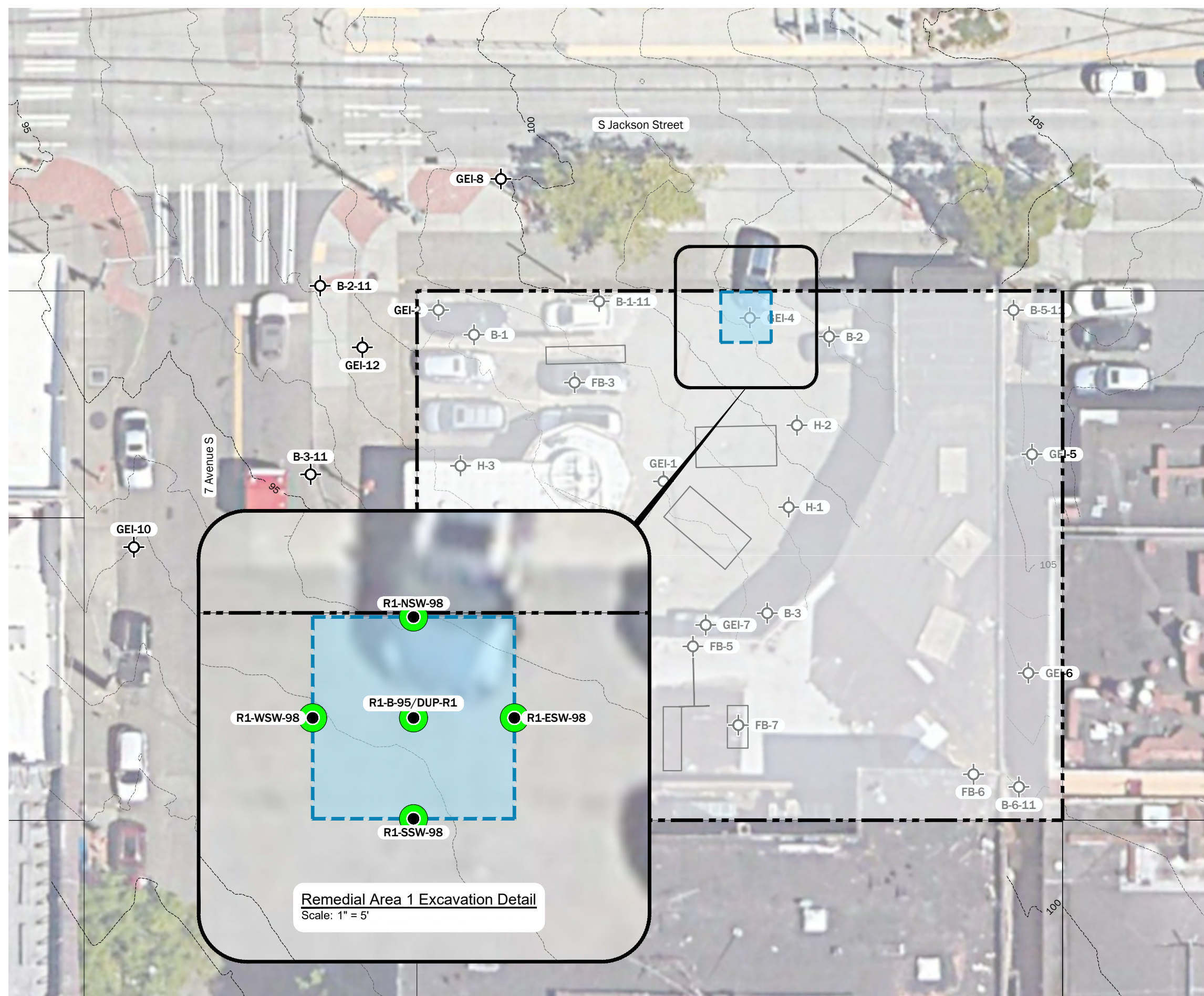


**Previously Undocumented
Underground Storage Tanks**

701 South Jackson Street
Seattle, Washington

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Figure 10



Legend

- Property Boundary
- Parcel Boundary
- Topographic Contour (Feet, NAVD88)
- Historical Feature
- Property Redevelopment Area
- Remedial Excavation Area
- B-2 Sampling Locations
- Confirmation Sample Collected from Limits of Remedial Excavation Area

Summary of Chemical Results (See Table 4)

- Confirmation Sample - Contaminants Either Not Detected or Detected Less Than the MTCA Cleanup Level
- RAX-XX-XX**
 - Sample Elevation (NAVD88)
 - Location Identification
 - Sample Area Designation
- MTCA - Model Toxics Control Act

Note(s):

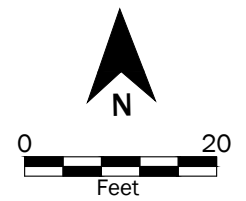
1. Elevations on this plan reference the North American Vertical Datum of 1988 (NAVD88).

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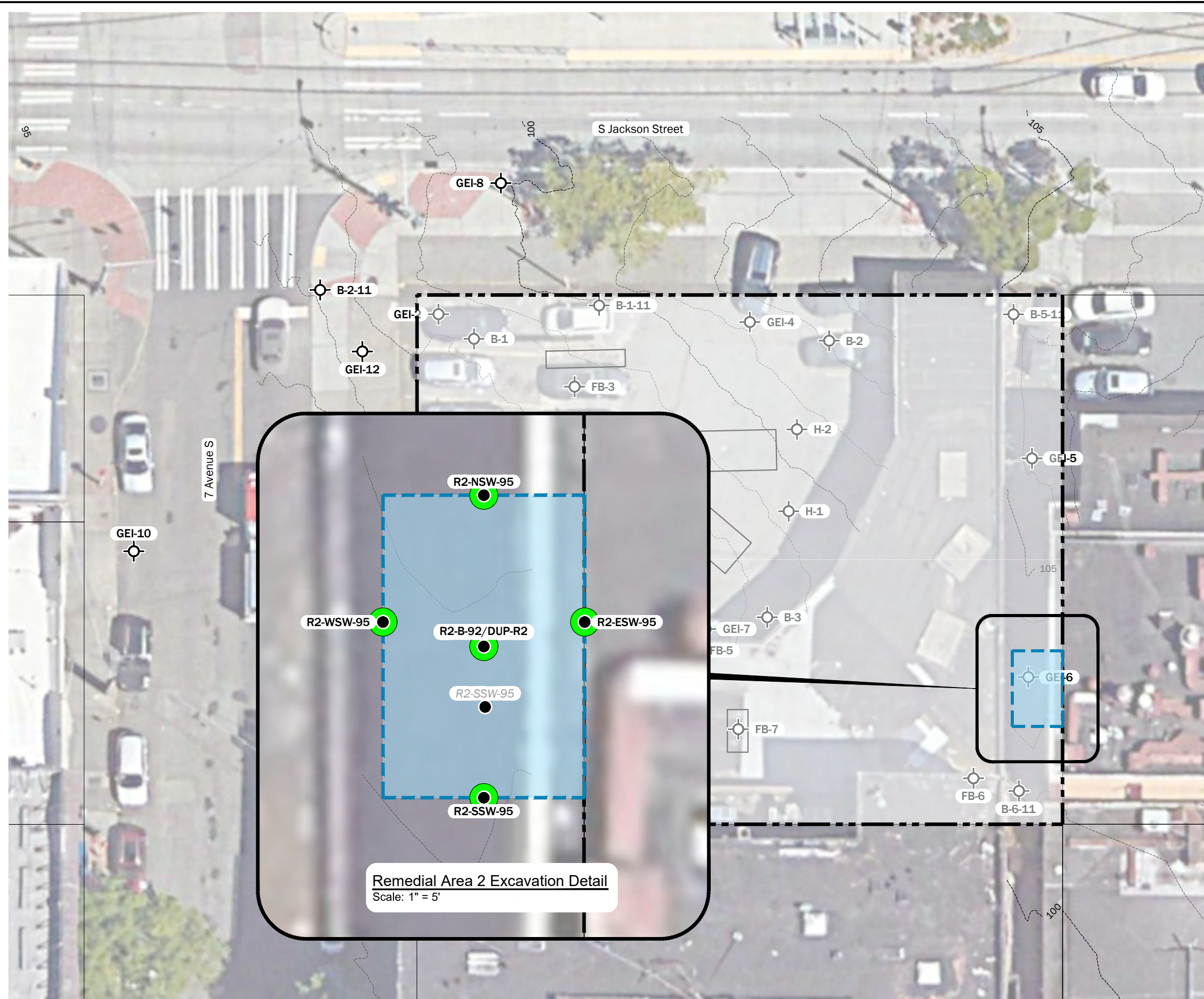
- Aerial from Google Earth Pro dated 5/26/2018
- LIDAR from Puget Sound Lidar Consortium dated 2016

Projection: WA State Plane, North Zone, NAD83, US Foot

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Remedial Excavation Area 1	
701 South Jackson Street Seattle, Washington	
	Figure 11



Legend

- Property Boundary
- Parcel Boundary
- Topographic Contour (Feet, NAVD88)
- Historical Feature
- Property Redevelopment Area
- Remedial Excavation Area
- B-2 Sampling Locations
- Confirmation Sample Collected from Limits of Remedial Excavation Area

Summary of Chemical Results (See Table 4)

- Confirmation Sample - Contaminants Either Not Detected or Detected Less Than the MTCA Cleanup Level
- RAX-XX-XX**
 - └─ Sample Elevation (NAVD88)
 - └─ Location Identification
 - └─ Sample Area Designation
- MTCA - Model Toxics Control Act
- Grey Italics indicates soil represented by this sample was over-excavated and removed from the Site for permitted disposal.

Note(s):

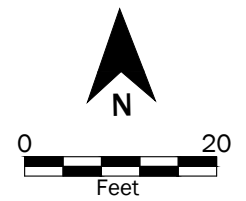
1. Elevations on this plan reference the North American Vertical Datum of 1988 (NAVD88).

Source(s):

- Aerial from Google Earth Pro dated 5/26/2018
- LiDAR from Puget Sound Lidar Consortium dated 2016

Projection: WA State Plane, North Zone, NAD83, US Foot

Disclaimer: This figure was created for a specific purpose and project. Any use of this figure for any other project or purpose shall be at the user's sole risk and without liability to GeoEngineers. The locations of features shown may be approximate. GeoEngineers makes no warranty or representation as to the accuracy, completeness, or suitability of the figure, or data contained therein. The file containing this figure is a copy of a master document, the original of which is retained by GeoEngineers and is the official document of record.



Remedial Excavation Area 2	
701 South Jackson Street Seattle, Washington	
	Figure 12



Legend

- Property Boundary
- ▭ Parcel Boundary
- ~ Topographic Contour (Feet, NAVD88)
- Historical Feature
- ▭ Property Redevelopment Area
- ▭ Remedial Excavation Area
- ⊙ B-2 Sampling Locations
- Confirmation Sample Collected from Limits of Remedial Excavation Area

Summary of Chemical Results (See Table 4)

- Confirmation Sample - Contaminants Either Not Detected or Detected Less Than the MTCA Cleanup Level
- Confirmation Sample - One or More Contaminants Detected Greater Than the MTCA Cleanup Level

RAX-XX-XX

- Sample Elevation (NAVD88)
- Location Identification
- Sample Area Designation

MTCA - Model Toxics Control Act

Grey Italics indicates soil represented by this sample was over-excavated and removed from the Site for permitted disposal.

Note(s):

- Elevations on this plan reference the North American Vertical Datum of 1988 (NAVD88).

Source(s):

- Aerial from Google Earth Pro dated 5/26/2018
- LIDAR from Puget Sound Lidar Consortium dated 2016

Projection: WA State Plane, North Zone, NAD83, US Foot

Disclaimer: This figure was created for a specific purpose and project. Any use of this figure for any other project or purpose shall be at the user's sole risk and without liability to GeoEngineers. The locations of features shown may be approximate. GeoEngineers makes no warranty or representation as to the accuracy, completeness, or suitability of the figure, or data contained therein. The file containing this figure is a copy of a master document, the original of which is retained by GeoEngineers and is the official document of record.

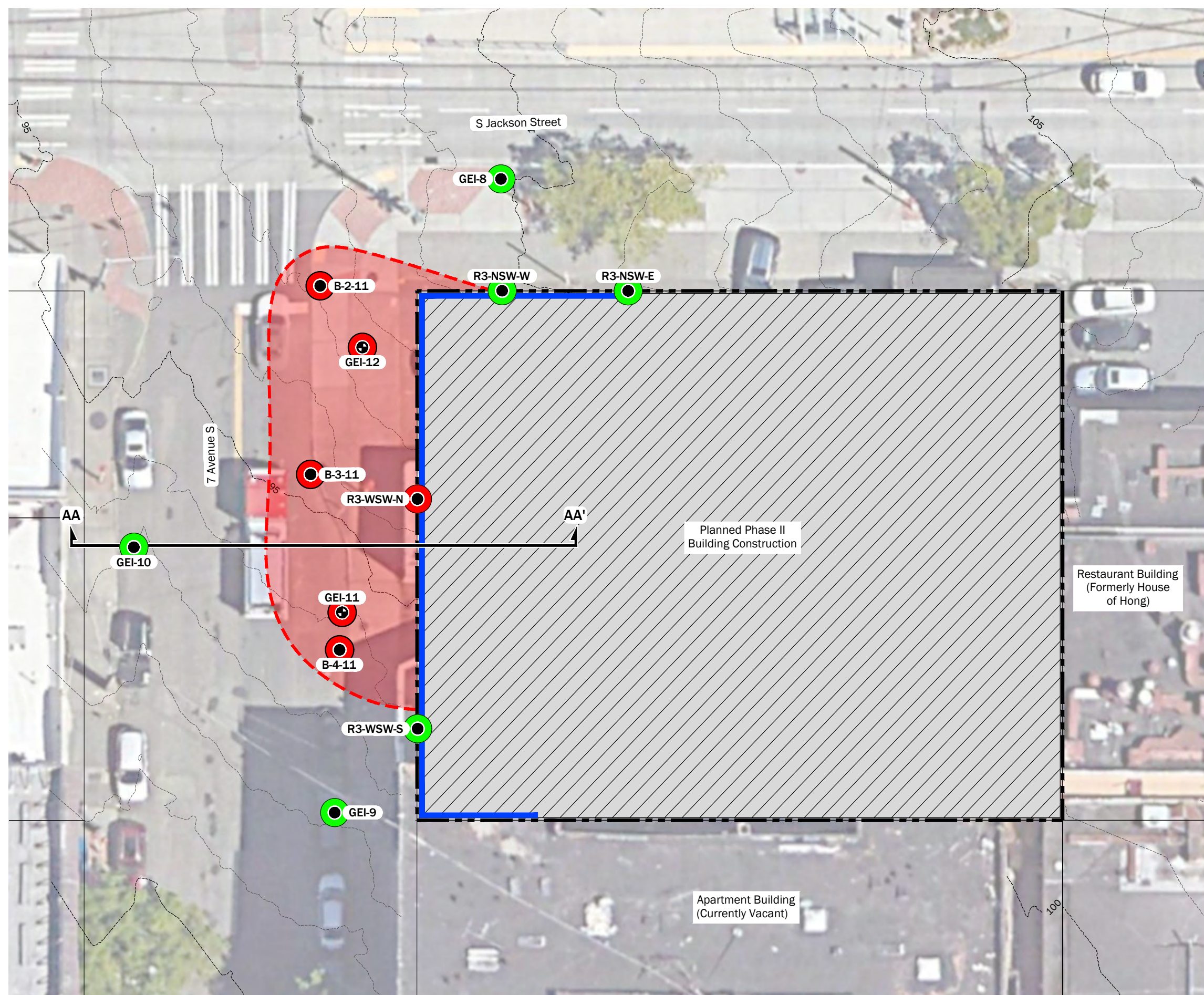
Remedial Excavation Area 3

701 South Jackson Street
Seattle, Washington

GEOENGINEERS

Figure 13

P:\24\24504001\CAD\03\cleanup action report\2450400103_F14_Current Property Layout.dwg Current Property Layout Date Exported:11/22/2023 1:01 PM - by Courtney Dias



Legend

- Property Boundary
- Parcel Boundary
- Topographic Contour (Feet, NAVD88)
- Property Redevelopment Area
- Extent of Residual Soil Contamination
- Vapor Barrier (Planned Extent)
- Soil Sample Location
- Monitoring Well (Existing)
- Cross Section Location (See Figure 15)

Summary of Chemical Result (See Tables 1 and 4)

- Contaminants of Concern Not Detected or Detected Less Than the MTCA Cleanup Level
- Contaminants of Concern Detected Greater Than the MTCA Cleanup Level

Note(s):

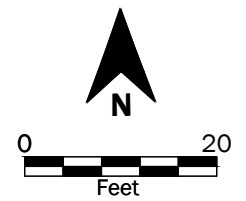
- Elevations on this plan reference the North American Vertical Datum of 1988 (NAVD88).

Source(s):

- Aerial from Google Earth Pro dated 5/26/2018.
- LIDAR from Puget Sound Lidar Consortium dated 2016

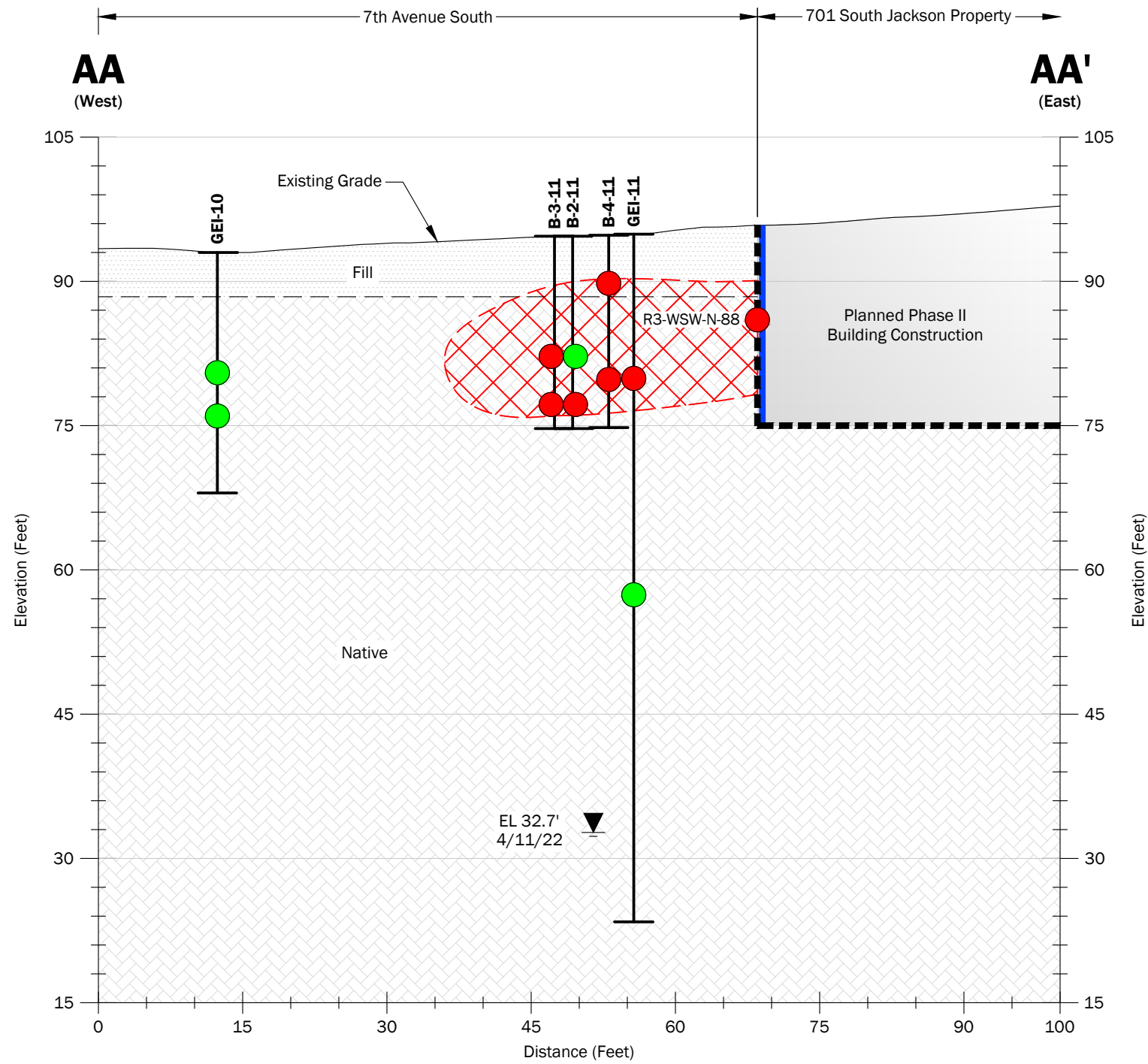
Projection: WA State Plane, North Zone, NAD83, US Foot

Disclaimer: This figure was created for a specific purpose and project. Any use of this figure for any other project or purpose shall be at the user's sole risk and without liability to GeoEngineers. The locations of features shown may be approximate. GeoEngineers makes no warranty or representation as to the accuracy, completeness, or suitability of the figure, or data contained therein. The file containing this figure is a copy of a master document, the original of which is retained by GeoEngineers and is the official document of record.



Current Property Layout	
701 South Jackson Street Seattle, Washington	
	Figure 14

P:\24\24504001\CAD\03\cleanup action report\2450400103_F15_Cross Section AA-AA.dwg Cross Section AA-AA Date Exported: 2/9/2024 4:22 PM - by Courtney Dias



Legend

Soil Chemical Analytical Results (See Tables 1 and 4)

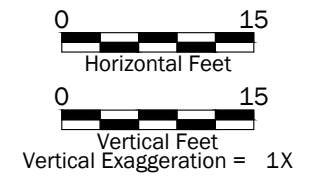
- Contaminants of Concern Not Detected or Detected at Concentration similar to Background Levels
- Contaminants of Concern Detected at Concentrations Greater Than the MTCA Method A/B Cleanup Levels
- Fill Deposits
- Glacial Deposits
- Approximate Extent of Contaminated Soil Greater than MTCA Cleanup Levels
- Property Redevelopment Extent
- Vapor Barrier (Planned Extent)
- Groundwater Measure Depth

Note(s):

1. The subsurface conditions shown are based on interpolation between widely spaced explorations and should be considered approximate; actual subsurface conditions may vary from those shown.

Datum: North American Vertical Datum 1988 (NAVD88)

Disclaimer: This figure was created for a specific purpose and project. Any use of this figure for any other project or purpose shall be at the user's sole risk and without liability to GeoEngineers. The locations of features shown may be approximate. GeoEngineers makes no warranty or representation as to the accuracy, completeness, or suitability of the figure, or data contained therein. The file containing this figure is a copy of a master document, the original of which is retained by GeoEngineers and is the official document of record.



Cross Section AA-AA'	
701 South Jackson Street Seattle, Washington	
	Figure 15

APPENDIX A
Waste Disposal Records

HISTORY TICKET INQUIRY

BEGIN DATE	7/1/2023	LOCATION	98785500	PRODUCT	99004
END DATE	8/21/2023	CUSTOMER	10255331		
SELL/BUY/TRANS	ALL	ORDER	10130238		
SHIP/RECEIVE	ALL				

<u>Ticket</u>	<u>Date</u>	<u>Time</u>	<u>Customer</u>	<u>Order</u>	<u>Product</u>	<u>Vehicle</u>	<u>Qty</u>	<u>Unit</u>
1120573054	7/25/2023	8:52:18 AM	STS CONSTRUCTION SVCS	10130238	CLASS 2 SOILS DUMP (TN)	ELK7TT	27.06	Ton
1120573055	7/25/2023	8:54:49 AM	STS CONSTRUCTION SVCS	10130238	CLASS 2 SOILS DUMP (TN)	SIL51TT	25.33	Ton
1120573056	7/25/2023	10:10:47 AM	STS CONSTRUCTION SVCS	10130238	CLASS 2 SOILS DUMP (TN)	SIL121TT	26.01	Ton
1120573057	7/25/2023	10:14:35 AM	STS CONSTRUCTION SVCS	10130238	CLASS 2 SOILS DUMP (TN)	SIL161TT	26.45	Ton
1120573058	7/25/2023	10:23:22 AM	STS CONSTRUCTION SVCS	10130238	CLASS 2 SOILS DUMP (TN)	SIL55TT	27.42	Ton
1120573059	7/25/2023	10:41:06 AM	STS CONSTRUCTION SVCS	10130238	CLASS 2 SOILS DUMP (TN)	ELK7TT	28.23	Ton
1120573060	7/25/2023	10:54:52 AM	STS CONSTRUCTION SVCS	10130238	CLASS 2 SOILS DUMP (TN)	SIL51TT	30.54	Ton
1120573061	7/25/2023	11:19:31 AM	STS CONSTRUCTION SVCS	10130238	CLASS 2 SOILS DUMP (TN)	ELK7TT	27.64	Ton
1120573062	7/25/2023	11:20:38 AM	STS CONSTRUCTION SVCS	10130238	CLASS 2 SOILS DUMP (TN)	SIL51TT	27.21	Ton
1120573063	7/25/2023	11:21:13 AM	STS CONSTRUCTION SVCS	10130238	CLASS 2 SOILS DUMP (TN)	SIL47TT	25.91	Ton
1120573064	7/25/2023	11:21:47 AM	STS CONSTRUCTION SVCS	10130238	CLASS 2 SOILS DUMP (TN)	ELK7TT	29.06	Ton
1120573065	7/25/2023	11:22:14 AM	STS CONSTRUCTION SVCS	10130238	CLASS 2 SOILS DUMP (TN)	SIL51TT	27.79	Ton
1120573066	7/25/2023	11:22:47 AM	STS CONSTRUCTION SVCS	10130238	CLASS 2 SOILS DUMP (TN)	SIL47TT	27.39	Ton
1120573067	7/25/2023	11:23:15 AM	STS CONSTRUCTION SVCS	10130238	CLASS 2 SOILS DUMP (TN)	ELK7TT	28.26	Ton
1120573068	7/25/2023	11:24:07 AM	STS CONSTRUCTION SVCS	10130238	CLASS 2 SOILS DUMP (TN)	SIL51TT	27.15	Ton
1120573069	7/25/2023	11:24:39 AM	STS CONSTRUCTION SVCS	10130238	CLASS 2 SOILS DUMP (TN)	SIL47TT	27.98	Ton
1120573070	7/25/2023	11:25:05 AM	STS CONSTRUCTION SVCS	10130238	CLASS 2 SOILS DUMP (TN)	ELK7TT	31.93	Ton
1120573071	7/25/2023	11:25:32 AM	STS CONSTRUCTION SVCS	10130238	CLASS 2 SOILS DUMP (TN)	SIL51TT	28.63	Ton
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1120573078	7/25/2023	2:24:09 PM	STS CONSTRUCTION SVCS	10130238	CLASS 2 SOILS DUMP (TN)	SIL121TT	29.28	Ton
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1120573082	7/26/2023	10:05:12 AM	STS CONSTRUCTION SVCS	10130238	CLASS 2 SOILS DUMP (TN)	SIL225TT	29.44	Ton
1120573083	7/26/2023	10:11:24 AM	STS CONSTRUCTION SVCS	10130238	CLASS 2 SOILS DUMP (TN)	ELK7TT	28.50	Ton
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1120573085	7/26/2023	10:29:25 AM	STS CONSTRUCTION SVCS	10130238	CLASS 2 SOILS DUMP (TN)	SIL161TT	27.80	Ton
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1120573101	7/27/2023	9:26:41 AM	STS CONSTRUCTION SVCS	10130238	CLASS 2 SOILS DUMP (TN)	SIL225TT	30.32	Ton
1120573103	7/27/2023	9:48:34 AM	STS CONSTRUCTION SVCS	10130238	CLASS 2 SOILS DUMP (TN)	SIL33TT	27.07	Ton
1120573104	7/27/2023	9:52:32 AM	STS CONSTRUCTION SVCS	10130238	CLASS 2 SOILS DUMP (TN)	SIL55TT	30.72	Ton
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1120573114	7/27/2023	1:37:38 PM	STS CONSTRUCTION SVCS	10130238	CLASS 2 SOILS DUMP (TN)	SIL159TT	29.95	Ton
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1120573119	7/28/2023	9:46:53 AM	STS CONSTRUCTION SVCS	10130238	CLASS 2 SOILS DUMP (TN)	SIL55TT	31.71	Ton
1120573120	7/28/2023	10:15:47 AM	STS CONSTRUCTION SVCS	10130238	CLASS 2 SOILS DUMP (TN)	R&L24TT	28.17	Ton
1120573121	7/28/2023	10:21:23 AM	STS CONSTRUCTION SVCS	10130238	CLASS 2 SOILS DUMP (TN)	R&L21TT	30.25	Ton
1120573122	7/28/2023	11:08:27 AM	STS CONSTRUCTION SVCS	10130238	CLASS 2 SOILS DUMP (TN)	ELK7TT	30.40	Ton
1120573123	7/28/2023	11:28:49 AM	STS CONSTRUCTION SVCS	10130238	CLASS 2 SOILS DUMP (TN)	SIL55TT	30.47	Ton

<u>Ticket</u>	<u>Date</u>	<u>Time</u>	<u>Customer</u>	<u>Order</u>	<u>Product</u>	<u>Vehicle</u>	<u>Qty</u>	<u>Unit</u>
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1120573125	7/28/2023	12:02:04 PM	STS CONSTRUCTION SVCS	10130238	CLASS 2 SOILS DUMP (TN)	R&L21TT	29.47	Ton
1120573126	7/28/2023	12:27:04 PM	STS CONSTRUCTION SVCS	10130238	CLASS 2 SOILS DUMP (TN)	SIL187TT	31.56	Ton
1120573128	7/28/2023	1:27:04 PM	STS CONSTRUCTION SVCS	10130238	CLASS 2 SOILS DUMP (TN)	ELK7TT	33.79	Ton
1120573129	7/28/2023	1:51:26 PM	STS CONSTRUCTION SVCS	10130238	CLASS 2 SOILS DUMP (TN)	SIL55TT	33.59	Ton
1120573130	7/28/2023	2:11:06 PM	STS CONSTRUCTION SVCS	10130238	CLASS 2 SOILS DUMP (TN)	R&L24TT	31.75	Ton
1120573131	7/28/2023	2:37:50 PM	STS CONSTRUCTION SVCS	10130238	CLASS 2 SOILS DUMP (TN)	R&L21TT	31.01	Ton
1120573132	7/31/2023	11:49:57 AM	STS CONSTRUCTION SVCS	10130238	CLASS 2 SOILS DUMP (TN)	SIL47TT	30.85	Ton
1120573133	7/31/2023	12:03:05 PM	STS CONSTRUCTION SVCS	10130238	CLASS 2 SOILS DUMP (TN)	ELK7TT	30.27	Ton
1120573134	7/31/2023	1:33:19 PM	STS CONSTRUCTION SVCS	10130238	CLASS 2 SOILS DUMP (TN)	SIL47TT	33.24	Ton
1120573135	8/1/2023	7:42:27 AM	STS CONSTRUCTION SVCS	10130238	CLASS 2 SOILS DUMP (TN)	SIL51TT	31.15	Ton
1120573136	8/1/2023	8:09:49 AM	STS CONSTRUCTION SVCS	10130238	CLASS 2 SOILS DUMP (TN)	SIL121TT	31.20	Ton
1120573137	8/1/2023	8:23:29 AM	STS CONSTRUCTION SVCS	10130238	CLASS 2 SOILS DUMP (TN)	SIL167TT	29.81	Ton
1120573138	8/1/2023	8:38:38 AM	STS CONSTRUCTION SVCS	10130238	CLASS 2 SOILS DUMP (TN)	SIL33TT	26.16	Ton
1120573139	8/1/2023	10:02:13 AM	STS CONSTRUCTION SVCS	10130238	CLASS 2 SOILS DUMP (TN)	SIL51TT	30.68	Ton
1120573140	8/1/2023	10:46:58 AM	STS CONSTRUCTION SVCS	10130238	CLASS 2 SOILS DUMP (TN)	SIL121TT	31.93	Ton
1120573141	8/1/2023	10:56:28 AM	STS CONSTRUCTION SVCS	10130238	CLASS 2 SOILS DUMP (TN)	SIL33TT	26.25	Ton
1120573142	8/1/2023	12:08:31 PM	STS CONSTRUCTION SVCS	10130238	CLASS 2 SOILS DUMP (TN)	SIL51TT	30.87	Ton
1120573143	8/1/2023	12:43:42 PM	STS CONSTRUCTION SVCS	10130238	CLASS 2 SOILS DUMP (TN)	SIL121TT	32.16	Ton
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1120573145	8/2/2023	7:44:35 AM	STS CONSTRUCTION SVCS	10130238	CLASS 2 SOILS DUMP (TN)	SIL55TT	32.32	Ton
1120573146	8/2/2023	7:47:53 AM	STS CONSTRUCTION SVCS	10130238	CLASS 2 SOILS DUMP (TN)	ELK7TT	32.67	Ton
1120573147	8/2/2023	8:06:45 AM	STS CONSTRUCTION SVCS	10130238	CLASS 2 SOILS DUMP (TN)	SMC82TT	32.16	Ton
1120573148	8/2/2023	8:10:24 AM	STS CONSTRUCTION SVCS	10130238	CLASS 2 SOILS DUMP (TN)	SIL167TT	31.72	Ton
1120573149	8/2/2023	8:18:25 AM	STS CONSTRUCTION SVCS	10130238	CLASS 2 SOILS DUMP (TN)	SAN1143TT	30.74	Ton
1120573150	8/2/2023	8:28:49 AM	STS CONSTRUCTION SVCS	10130238	CLASS 2 SOILS DUMP (TN)	JHC02TT	27.42	Ton
1120573151	8/2/2023	8:53:39 AM	STS CONSTRUCTION SVCS	10130238	CLASS 2 SOILS DUMP (TN)	STR116TT	26.70	Ton
1120573152	8/2/2023	8:58:54 AM	STS CONSTRUCTION SVCS	10130238	CLASS 2 SOILS DUMP (TN)	MAY77TT	26.36	Ton
1120573153	8/2/2023	9:59:42 AM	STS CONSTRUCTION SVCS	10130238	CLASS 2 SOILS DUMP (TN)	SIL55TT	33.45	Ton
1120573154	8/2/2023	10:02:25 AM	STS CONSTRUCTION SVCS	10130238	CLASS 2 SOILS DUMP (TN)	ELK7TT	32.57	Ton
1120573155	8/2/2023	10:19:40 AM	STS CONSTRUCTION SVCS	10130238	CLASS 2 SOILS DUMP (TN)	SAN1143TT	31.85	Ton
1120573156	8/2/2023	10:22:14 AM	STS CONSTRUCTION SVCS	10130238	CLASS 2 SOILS DUMP (TN)	SMC82TT	34.00	Ton
1120573157	8/2/2023	10:31:10 AM	STS CONSTRUCTION SVCS	10130238	CLASS 2 SOILS DUMP (TN)	SIL167TT	31.38	Ton
1120573158	8/2/2023	10:38:06 AM	STS CONSTRUCTION SVCS	10130238	CLASS 2 SOILS DUMP (TN)	JHC02TT	26.95	Ton
1120573159	8/2/2023	11:16:33 AM	STS CONSTRUCTION SVCS	10130238	CLASS 2 SOILS DUMP (TN)	MAY77TT	26.85	Ton
1120573160	8/2/2023	11:19:45 AM	STS CONSTRUCTION SVCS	10130238	CLASS 2 SOILS DUMP (TN)	STR116TT	25.76	Ton
1120573161	8/2/2023	11:57:47 AM	STS CONSTRUCTION SVCS	10130238	CLASS 2 SOILS DUMP (TN)	ELK7TT	31.86	Ton
1120573162	8/2/2023	12:03:22 PM	STS CONSTRUCTION SVCS	10130238	CLASS 2 SOILS DUMP (TN)	SIL55TT	31.31	Ton
1120573163	8/2/2023	12:09:48 PM	STS CONSTRUCTION SVCS	10130238	CLASS 2 SOILS DUMP (TN)	SAN1143TT	28.31	Ton
1120573164	8/2/2023	12:13:36 PM	STS CONSTRUCTION SVCS	10130238	CLASS 2 SOILS DUMP (TN)	SMC82TT	26.27	Ton
1120573165	8/2/2023	12:24:58 PM	STS CONSTRUCTION SVCS	10130238	CLASS 2 SOILS DUMP (TN)	SIL167TT	28.83	Ton
1120573166	8/2/2023	1:01:50 PM	STS CONSTRUCTION SVCS	10130238	CLASS 2 SOILS DUMP (TN)	JHC02TT	26.83	Ton
1120573167	8/2/2023	1:13:19 PM	STS CONSTRUCTION SVCS	10130238	CLASS 2 SOILS DUMP (TN)	MAY77TT	27.34	Ton
1120573168	8/2/2023	1:19:38 PM	STS CONSTRUCTION SVCS	10130238	CLASS 2 SOILS DUMP (TN)	STR116TT	26.19	Ton
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<u>Ticket</u>	<u>Date</u>	<u>Time</u>	<u>Customer</u>	<u>Order</u>	<u>Product</u>	<u>Vehicle</u>	<u>Qty</u>	<u>Unit</u>
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Tickets 150

4,396.40

08/22/2023

9:12:03 AM

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HISTORY TICKET INQUIRY

BEGIN DATE	7/1/2023	LOCATION	98846900	PRODUCT	99005
END DATE	8/21/2023	CUSTOMER	10255331		
SELL/BUY/TRANS	ALL	ORDER	10129617		
SHIP/RECEIVE	ALL				

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<u>Ticket</u>	<u>Date</u>	<u>Time</u>	<u>Customer</u>	<u>Order</u>	<u>Product</u>	<u>Vehicle</u>	<u>Qty</u>	<u>Unit</u>
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APPENDIX B
**Underground Storage Tank Decommissioning and
Closure Report**

**Underground Storage Tank
Removal and Closure Report**

Seventh Avenue Service Site
701 South Jackson Street
Seattle, Washington

for

701 South Jackson Partners, LLC
c/o Housing Diversity Corp

February 20, 2024



**Underground Storage Tank
Removal and Closure Report**

Seventh Avenue Service Site
701 South Jackson Street
Seattle, Washington

for

**701 South Jackson Partners, LLC
c/o Housing Diversity Corp**

February 20, 2024



2101 4th Avenue, Suite 950
Seattle, Washington
206.728.2674

Underground Storage Tank Removal and Closure Report

Seventh Avenue Service Site 701 South Jackson Street Seattle, Washington

File No. 24504-001-03

February 20, 2024


Prepared for:

701 S Jackson Partners, LLC
c/o Housing Diversity Corp
159 South Jackson Street
Seattle, Washington 98104


Attention: Brad Padden

Prepared by:

GeoEngineers, Inc.
2101 4th Avenue, Suite 950
Seattle, Washington 98121
206.728.2674



Robert S. Trahan, LG
Senior Environmental Scientist



Tim L. Syverson, LHG
Associate

RST:TLS:ch

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APPENDICES

Appendix A. Underground Storage Tank Closure Documents

Appendix B. Site Check/Site Assessment Checklist

Appendix C. Field Program

Appendix D. Chemical Analytical Program

Appendix E. Report Limitations and Guidelines for Use

1.0 INTRODUCTION

This report summarizes GeoEngineers' observations and soil sampling results associated with the discovery, removal, and permanent closure of four previously undocumented underground storage tanks (USTs), designated as UST-1 through UST-4, encountered during redevelopment of the Seventh Avenue Service Site (Site) located at 701 South Jackson Street (Property) in the Chinatown-International District neighborhood of Seattle, Washington (Figure 1). Currently, remedial actions are being completed at the Site in accordance with the Washington State Department of Ecology (Ecology) Cleanup Action Plan (Ecology 2022), Ecology-approved Contaminated Media Management Plan (CMMP; GeoEngineers 2023), and Chapter 173-340 of the Washington Administrative Code (WAC) as part of the Property redevelopment. Redevelopment plans for the Property include a new eight-story building with affordable housing and ground level commercial retail space. As part of the redevelopment, the existing buildings and structures will be demolished followed by Property-line to Property-line excavation of soils to a depth of approximately 15 to 20 feet below ground surface (bgs; Elevation 85 to 80 feet¹) and subsequent construction of the new building.

To facilitate cleanup as part of project construction, 701 S Jackson Partners, LLC (South Jackson Partners) entered into Prospective Purchaser Consent Decree (PPCD) No. 22-2-15886-7 SEA with Ecology, and the Assistant Attorney General, Ecology Division (AGO), to facilitate cleanup as part of project construction. The Site is currently listed in Ecology's database of confirmed and suspected contaminated sites under Facility/Site No. 99187287 and Cleanup Site ID No. 11348.

The purpose of this report is to document the permanent removal and closure of each of the four previously unidentified USTs in accordance with WAC 173-360A-0810 and Ecology's UST Site Check/Site Assessment guidance document (Ecology 2021). The following sections provide a summary of Site conditions, historical land use and UST removal and closure activities. The approximate locations of the former USTs are shown on Figure 2 relative to the surrounding features. Specific remedial actions completed to address Site contaminates will be documented in a Cleanup Action Report following completion of the construction project.

2.0 BACKGROUND INFORMATION

2.1.1. Site/Property Description and Future Land Use

The Property is bounded by South Jackson Street to the north, 7th Avenue South to the west, a mixed-use retail and apartment building (currently vacant) to the south, and a restaurant building (House of Hong) to the east (Figure 2). The Property (currently being redeveloped) previously contained two single-story structures, including a former gasoline station building in the northwest portion and an "L"-shaped automobile repair garage along the east and south Property boundaries, and paved parking and drive areas. A former small building on the southwest corner of the Property was previously used as a storage room for "New Century Tea Gallery". These former structures have recently been demolished to facilitate Property redevelopment.

¹ Elevations in this document are referenced to North American Vertical Datum 1988 (NAVD88).

As noted above, future use of the Property will include a new apartment building with affordable housing and ground level commercial retail space.

2.1.2. Site/Property History

Since redevelopment following the Jackson Street regrading project in 1927, the Property has been used for automobile repair and fueling services. During redevelopment, the large “L”-shaped building was constructed along the southern and eastern portions of the Property. As early as 1932, a gasoline service station was added to the northwest portion of the Property until sales of gasoline ceased in the 1970s. The former gasoline service station operations included two gasoline USTs and an associated fuel dispenser/pump island, and vehicle service/repair. In 2010, the two gasoline USTs associated with the service station were decommissioned and removed from the Property (Global 2010). A summary of the UST decommissioning activities, including the associated soil characterization and laboratory analytical results, is presented in the Remedial Investigation/Feasibility Study Report (RI/FS; GeoEngineers 2022).

2.1.3. Geology and Hydrogeology

2.1.3.1. Local Geology

Previous investigations of the Site have identified varying depths of fill material overlying pre-Vashon deposits consisting of interbedded sand, gravel, silt, and poorly sorted mixtures that are of unspecified age and origin (GeoEngineers 2022). Previous drilling and sampling locations are shown on Figure 3. The previous investigations have identified the following:

- **Fill** – Surficial fill was encountered at each exploration location. The fill is approximately 4 to 7 feet thick, and may extend to depths of up to 10 feet bgs (elevation ranging from approximately 96 to 85 feet) at some exploration locations. The fill consisted primarily of silty fine to fine sand with silt containing occasional debris (concrete, plastic, metal and brick debris).
- **Glacial Deposits** – Interbedded fine sand with silt and clayey silt is present beneath the fill deposits to a depth of approximately 12 feet bgs. Fine to medium silty sand and sand with trace silt underlies the interbedded silt and clayey silt deposits to an approximate depth of 20 feet bgs (approximately Elevation 77 feet). The glacial deposits from approximately 20 feet to the maximum depth explored (76.5 feet bgs; Elevation 22 feet) consist of fine sand with varying amounts of silt and clayey silt.

2.1.3.2. Local Hydrogeology

Moist and/or wet soil interpreted as being the result of localized shallow perched groundwater was observed in 5 of the 25 explorations completed at the Site at depths ranging from approximately 12 to 20 feet bgs (approximately Elevation 90 to 75 feet) during previous investigations (GeoEngineers 2022). The previous investigation results indicate that the shallow perched groundwater is discontinuous and not widespread.

Deep regional groundwater is present beneath the Site at a depth ranging from approximately 61 to 69 feet bgs (approximately Elevation 31 to 34 feet), based on depths to groundwater measured in one deep temporary monitoring well (GEI-1) in the central portion of the Property (Figure 3), and two deep monitoring wells (GEI-11 and GEI-12) within the west adjacent 7th Avenue right-of-way (ROW). Based on the location of the Property to surrounding surface water bodies (i.e., Puget Sound) and local topography, the inferred groundwater flow direction is to the west-northwest.

2.1.4. Environmental Conditions

Based on the results of the previous environmental investigations, soil in the central and western portions of the Property contains gasoline-range total petroleum hydrocarbons, benzene, toluene, ethylbenzene, and xylenes (BTEX), and naphthalene at concentrations greater than the applicable Model Toxics Cleanup Act (MTCA) cleanup levels (CULs) between approximately 5 and 20 feet bgs (approximately Elevation 95 to 80 feet). Additionally, localized areas of the shallow fill soil imported to the Property during construction for the former structures contain lead (GEI-6) and carcinogenic polycyclic aromatic hydrocarbons (cPAHs; GEI-4) at concentrations greater than the MTCA CULs at a depth of approximately 2.5 feet bgs. Other contaminants of potential concern including diesel- and heavy oil-range total petroleum hydrocarbons, volatile organic compounds (VOCs; not including BTEX), halogenated VOCs (HVOCs), metals (not including lead) and polychlorinated biphenyls (PCBs) either were not detected at concentrations greater than the laboratory reporting limits or were detected at concentrations less than the corresponding MTCA CULs.

Analytical results for groundwater samples collected from the deep regional groundwater unit (GEI-1, GEI-11 and GEI-12) indicate that contaminants either were not detected at concentrations greater than the laboratory reporting limits or were detected at concentrations less than the MTCA CULs.

The previous soil and groundwater investigation results are presented in the RI/FS Report and are summarized on Figures 4 through 6.

2.1.5. Regulatory Framework

The Site is listed by Ecology with Facility/Site No. 99187287 and Cleanup Site ID No. 11348 and has been identified as a Leaking Underground Storage Tank (LUST) site (LUST Release No. 592055) for benzene, naphthalene, and gasoline-range total petroleum hydrocarbons confirmed in soil at concentrations greater than the MTCA CULs. As part of the planned redevelopment, South Jackson Partners entered a PPCD No. 22-2-15886-7 SEA with Ecology, and the AGO, to facilitate cleanup as part of Property redevelopment.

Prior to initiating the PPCD process, the Site was enrolled in Ecology's Voluntary Cleanup Program (VCP) to receive Ecology's technical advice and assistance on the independent RI/FS. The Site entered into the Expedited VCP on April 23, 2021 and was assigned a VCP No. XS0009. Upon initiating the PPCD process, the VCP agreement governing No. XS0009 was terminated.

3.0 PURPOSE AND SCOPE

The activities summarized in this report were performed during Property redevelopment to document the UST removal in general accordance with Ecology's Guidance for Site Checks and Site Assessments for Underground Storage Tanks. GeoEngineers' scope of services included the following:

1. Obtaining samples to characterize the contents of each UST. Samples were submitted to a subcontracted laboratory (Fremont Analytical in Seattle, Washington [Fremont]) for total petroleum hydrocarbon identification (HCID) analysis.
2. Observed and documented the removal of UST-1 through UST-4 and performed a Site Check/Site Assessment for each UST during removal and permanent closure activities as required by the Washington UST regulations under WAC 173-360A.

3. Performed field screening of soil encountered during the UST removal excavation activities for evidence of petroleum hydrocarbons and VOCs. Field screening consisted of visual, water sheen, and headspace vapor methods using a photoionization detector (PID).
4. Obtained soil samples adjacent to and beneath each UST for field screening and chemical analysis in general accordance with the WAC 173-340 and related guidance documents. Soil samples were submitted to Fremont Analytical for a combination or the following chemical analysis in accordance with MTCA Table 830-1 based on the initial HCID analysis and field observations:
 - a. Total petroleum hydrocarbons as gasoline-range organics (GRO), diesel-range organics (DRO), and heavy oil-range organics (ORO) by NWTPH-G and NWTPH-Dx methods.
 - b. VOCs including BTEX, methyl tert-butyl ether (MTBE), ethylene dibromide (EDB) and ethylene dichloride (EDC) by United States Environmental Protection Agency (EPA) 8260/8021 methods.
 - c. PCBs by EPA Method 8082.
 - d. Polycyclic aromatic hydrocarbons (PAHs) by EPA Method 8270/SIM.
 - e. Metals (lead) by EPA 6000/7000 method series.
5. Compared the soil sample analytical results to the MTCA CULs for unrestricted land use.
6. Prepared this summary report documenting the UST removal and closure.

4.0 UNDERGROUND STORAGE TANK REMOVAL AND CLOSURE

STS Construction (STS) arranged for the removal and permanent closure of each UST from the Property under oversight by a certified Marine Chemist and the Seattle Fire Department. During removal and closure of each tank, the liquid contents were removed (as necessary), the tank was then inerted, and removed from the ground for appropriate off-Property disposal. The UST removal permits, Marine Chemist certificate, and other documentation related to the UST removal and closure provided by STS are presented in Appendix A.

A representative of GeoEngineers was present to observe the UST removal and document the condition of each tank. A copy of the Site Check/Site Assessment Checklist forms are presented in Appendix B. Note that in accordance with WAC 173-360A-110(1)(a), UST-1 is exempt from the requirements of WAC 173-360A based on the volume of the tank (i.e., less than 1,100 gallons) and use of the tank (i.e., heating oil). Although exempt, GeoEngineers was on Site to collect samples for chemical analysis to 1) verify the contents of this tank, and 2) evaluate whether a release had occurred to the surrounding soil. The characterization of the UST contents, condition of the tanks during removal, and the soil analytical results for samples collected at the UST removal excavation limits are summarized in the following sections (Section 4.1 through 4.4).

4.1. Underground Storage Tank-1

4.1.1. Tank and Soil Condition

On June 29, 2023, UST-1 was encountered in the southern portion of the Property adjacent to a former boiler located within the basement of the former service (“L” shaped) building (Figure 7). The UST was a single-wall, steel, cylindrical tank measuring approximately 9 feet long by 4 feet in diameter (approximately

800 gallons) and was oriented north-south. The top of the UST was located at an approximate Elevation of 87 feet (approximately 11 feet bgs). Product lines were observed near the UST extending to the east toward the former boiler. At the time of removal, the UST appeared to be weathered with minor corrosion holes along its underside. When encountered the tank contained approximately 150 gallons of a black, semi-viscous liquid. Mar-Vac removed the tank contents on July 6, 2023.

Soil observed on the sidewalls and base of the UST removal excavation consisted of moist, dark brown and gray, fine to coarse sand with silt and occasional fine gravel. Field screening of the soil at the excavation limits yielded a slight to heavy sheen and headspace vapor measurements ranging from 89 to 947 parts per million² (ppm; Table 1). Field screening methods are described in Appendix C. Groundwater was not observed in the excavation at the time of the UST removal.

4.1.2. Sampling and Analysis

One product sample (UST-230629) was collected to characterize the contents of the tank and three discrete soil samples (UST-N-86, UST-E-86 and UST-B-83) were collected from the sidewalls and base of the UST removal excavation to evaluate soil conditions. Sidewall soil samples (UST-N-86 and UST-E-86) were collected from the northern and eastern limits of the UST removal excavation. Sample locations were selected based on field screening results and the location of the observed product line extending to the former boiler (i.e., east of the UST) in this vicinity. Sidewall samples were collected at an approximate Elevation of 86 feet (approximately 12 feet bgs). The base sample was collected from the central portion of the UST removal excavation directly beneath the former tank at an approximate Elevation of 83 feet (approximately 15 feet bgs). Soil sample locations relative to the removal excavation for UST-1 are shown on Figure 7.

The product sample (UST-230629) submitted for NWTPH-HCID analysis and the location of the tank relative to the former boiler indicated that this UST-1 was used as a heating oil tank. In accordance with MTCA Table 830-1, sidewall and base samples were submitted for NWTPH-Dx, BTEX and PAH analysis to evaluate soil conditions adjacent to the tank. Chemical analytical results are presented in Table 1 and summarized below:

- ORO was detected in the northern sidewall and base soil at a concentration greater than the MTCA CUL. ORO was not detected greater than the laboratory report limit in the eastern sidewall sample.
- DRO, BTEX and PAHs (carcinogenic PAHs [cPAHs] and naphthalene) either were not detected in any of the excavation soil samples at a concentration greater than the laboratory reporting limit or were detected at a concentration less than the MTCA CULs.

Laboratory analytical reports and the data quality review are presented in Appendix D.

² Note that the former use of the Property was a gasoline service station and that remedial excavation activities are being completed in conjunction with redevelopment to address previously identified contamination (predominantly GRO). Given the nature of the historical Property use and ongoing cleanup activities, soil sample PID measurements are generally elevated throughout the Site and are not necessarily an indication of release from the UST itself.

4.2. Underground Storage Tank-2

4.2.1. Tank and Soil Condition

UST-2 was encountered in the northwestern portion of the adjacent former service station (Figure 8). The UST was a single-wall, steel, cylindrical tank measuring approximately 14 feet long by 7 feet in diameter (approximately 4,000 gallons) and was oriented east-west. The top of the UST was located at an approximate Elevation of 95 feet (approximately 6 feet below the local ground surface [bgs]). At the time of removal, the UST had no obvious signs of weathering or corrosion. When encountered, the tank contained approximately 100 to 150 gallons of a clear liquid. Mar-Vac removed the tank contents on August 8, 2023.

Soil observed on the sidewalls and base of the UST removal excavation consisted of moist, dark brown and gray, fine to coarse sand with silt and occasional fine gravel. Field screening of the soil at the excavation limits yielded a medium to heavy sheen and headspace vapor measurements of 15,000 ppm (Table 1; see footnote above regarding elevated headspace vapor measurements at the Site). Field screening methods are described in Appendix C. Groundwater was not observed in the excavation at the time of the UST removal.

4.2.2. Sampling and Analysis

One product sample (UST-2-230802) was collected to characterize the contents of the tank and three discrete soil samples (UST2-NSW-93, UST2-WSW-93 and UST2-B-89) were collected from the sidewalls and base of the UST removal excavation to evaluate soil conditions. Sidewall soil samples (UST2-NSW-93 and UST2-WSW-93) were collected from the northern and western limits of the UST removal excavation. Sample locations were selected based on field screening results. Sidewalls samples were collected at an approximate Elevation of 93 feet (approximately 8 feet bgs). The base sample was collected from the central portion of the UST removal excavation directly beneath the former tank location at an approximate Elevation of 89 feet (approximately 12 feet bgs). Soil sample locations relative to the removal excavation for UST-2 are shown on Figure 8.

The product sample (UST-2-230802) was submitted for NWTPH-HCID analysis which identified gasoline- and diesel-range petroleum hydrocarbons. Although the tank likely was used for gasoline based our visual observations, in accordance with MTCA Table 830-1, sidewall and base samples were submitted for NWTPH-G, NWTPH-Dx, BTEX, PAH and lead analysis to evaluate soil conditions adjacent to the tank based on the presence of both gasoline- and diesel-range petroleum hydrocarbons. Chemical analytical results are presented in Table 1 and summarized below:

- GRO was detected in the northern sidewall and base soil samples at a concentration greater than the MTCA CUL. GRO was not detected at a concentration greater than the laboratory reporting limit in the western sidewall sample.
- DRO, ORO, BTEX, lead and PAHs either were not detected in any of the excavation soil samples at a concentration greater than the laboratory reporting limit or were detected at a concentration less than the MTCA CULs.

Laboratory analytical reports and data quality review are presented in Appendix D.

4.3. Underground Storage Tank-3

4.3.1. Tank and Soil Condition

UST-3 was encountered in the western portion of the Property (Figure 9). The UST was a single-wall, steel, cylindrical tank measuring approximately 12 feet long by 4 feet in diameter (approximately 1,100-gallons) and was oriented east-west. The top of the UST was located at an approximate Elevation of 94 feet (approximately 7 feet below the local ground surface [bgs]). At the time of removal, the UST appeared to be corroded with holes at the seams of the butt joints. When encountered, the tank contained approximately 50 to 60 gallons of liquid. Mar-Vac removed the tank contents on August 8, 2023.

Soil observed on the sidewalls and base of the UST removal excavation consisted of moist, dark brown and gray, fine to coarse sand with silt and occasional fine gravel. Field screening of the soil at the excavation limits yielded no to heavy sheen and headspace vapor measurements ranging from 5,767 to 15,000 ppm (Table 1; see footnote above regarding elevated headspace vapor measurements at the Site). Field screening methods are described in Appendix C. Groundwater was not observed in the excavation at the time of the UST removal.

4.3.2. Sampling and Analysis

One product sample (UST-3-230804) was collected to characterize the contents of the tank and three discrete soil samples (UST3-NSW-93, UST3-WSW-93 and UST3-B-90) were collected from the sidewalls and base the UST removal excavation to evaluate soil conditions. Sidewall soil samples (UST3-NSW-93 and UST3-WSW-93) were collected from the northern and western limits of the UST removal excavation. Sample locations were selected based on field screening results. Sidewalls soil samples were collected at an approximate Elevation of 93 feet (approximately 8 feet bgs). The base sample was collected from the central portion of the UST removal excavation directly beneath the former tank location at an approximate Elevation of 90 feet (approximately 11 feet bgs). Sample locations relative to the removal excavation for UST-3 are shown on Figure 9.

The product sample (UST-3-230804) was submitted for NWTPH-HCID analysis which identified gasoline-, diesel- and heavy oil-range petroleum hydrocarbons. In accordance with MTCA Table 830-1, sidewall and base samples were submitted for NWTPH-G, NWTPH-Dx, VOCs including BTEX, EDB, EDC and MTBE, PAHs, lead and PCB analysis to evaluate soil conditions adjacent to the tanks. Chemical analytical results are presented in Table 1 and summarized below:

- GRO, ORO and naphthalenes were detected in soil at the base of the UST removal excavation at concentrations greater than the MTCA CULs. GRO, ORO and naphthalenes were not detected at a concentration greater than the laboratory report limit in the other soil samples analyzed.
- DRO, BTEX, EDB, EDC, MTBE, PAHs and PCBs either were not detected in any of the excavation soil samples at a concentration greater than the laboratory reporting limit or were detected at a concentration less than the MTCA CULs.

Laboratory analytical reports and data quality review are presented in Appendix D.

4.4. Underground Storage Tank-4

4.4.1. Tank and Soil Condition

UST-4 was encountered in the northern portion of the Property (Figure 10). The UST was a single-wall, steel, cylindrical tank measuring approximately 8 feet long by 5 feet in diameter (approximately 1,100 gallons) and was oriented east-west. The top of the UST was located at an approximate Elevation of 95 feet (approximately 6 feet below the local ground surface [bgs]). At the time of removal on August 9, 2023, the UST had no obvious signs of weathering or corrosion. No liquids were observed inside the tank.

Soil observed on the sidewalls and base of the UST removal excavation consisted of moist, dark brown and gray, fine to coarse sand with silt and occasional fine gravel. Field screening of the soil at the excavation limits yielded slight to heavy sheen and headspace vapor measurements of 15,000 ppm (Table 1; see footnote above regarding elevated headspace vapor measurements at the Site). Field screening methods are described in Appendix C. Groundwater was not observed in the excavation at the time of the UST removal.

4.4.2. Sampling and Analysis

One product sample (UST-4-230808) was collected to characterize the contents of the tank and three discrete soil samples (UST4-NSW-94, UST4-SSW-93 and UST4-B-90) were collected from the sidewalls and base of the UST removal excavation to evaluate soil conditions. Sidewall soil samples (UST4-NSW-94 and UST4-SSW-93) were collected from the northern and southern limits of the UST removal excavation. Sample locations were selected based on field screening results. Sidewalls samples were collected at an approximate Elevation of 93 feet (approximately 8 feet bgs). The base sample was collected from the central portion of the UST removal excavation directly beneath the former tank location at an approximate Elevation of 90 feet (approximately 11 feet bgs). Sample locations relative to the removal excavation for UST-4 are shown on Figure 10.

The product sample (UST-4-230808) was submitted for NWTPH-HCID analysis, however, petroleum hydrocarbons were not detected at concentrations greater than the laboratory reporting limits. Due to the unknown use of this tank and inconclusive NWTPH-HCID results, sidewall and base samples were submitted for NWTPH-G, NWTPH-Dx, BTEX, PAH, lead and PCB analysis to evaluate soil conditions adjacent to the tank in accordance with MTCA Table 830-1. Chemical analytical results are presented in Table 1 and summarized below:

- GRO was detected in the southern sidewall soil at a concentration greater than the MTCA CUL. GRO was not detected greater than the laboratory report limit in the other samples analyzed.
- DRO, ORO, BTEX, EDB, EDC, MTBE, lead, PAHs and PCBs either were not detected at concentrations greater than the laboratory reporting limits or were detected at concentrations less than the MTCA CULs in the base and sidewall soil samples.

Laboratory analytical reports and data quality review are presented in Appendix D.

5.0 SUMMARY

Four previously undocumented single-wall, steel USTs (UST-1 through UST-4) were identified during redevelopment for the 701 South Jackson Street Property. In accordance with Washington UST regulations (WAC 173-360A), each of the USTs was decommissioned and removed from the Property. During UST removal activities, a Site Check/Site Assessment was performed for each tank to evaluate the contents and soil conditions at the limits of the tank removal excavations. Chemical analytical testing of the soil samples collected from the limits of the UST removal excavations identified one or more contaminants including GRO, ORO and/or naphthalenes at concentrations greater than the MTCA CULs adjacent to/beneath each of the USTs removed from the Property.

In accordance with the CAP, South Jackson Partners is conducting remedial activities during redevelopment of the Property to address the previously identified petroleum-related contamination. These remedial activities include the locations of the previously unidentified USTs and will address soil containing contaminants at concentrations greater than the MTCA CULs identified as part of the Site Check/Site Assessments. A Cleanup Action Report summarizing the remedial excavation and confirmation sample results verifying the removal of Site contamination will be prepared following the completion of the cleanup action. This UST Removal and Closure Report, including the attached UST removal and site check documentation in Appendix B, is being provided to meet Ecology's requirements for UST closure of the previously undocumented USTs encountered at the Site.

6.0 LIMITATIONS

We have prepared this report pertaining to the Seventh Avenue Service Site located at 701 South Jackson Street in Seattle, Washington, for the exclusive use of South Jackson Partners LLC and their authorized agents and regulatory agencies. Our interpretations of subsurface conditions are based on GeoEngineers' field observations and chemical analytical data for soil samples from specific sampling locations at the site. It is possible that petroleum hydrocarbons exist beneath portions of the site that were not explored, sampled or analyzed.

Within the limitations of scope, schedule and budget, our services have been executed in accordance with our agreement with South Jackson Partners LLC dated September 1, 2022, and generally accepted environmental science and geotechnical engineering practices in this area at the time this plan was prepared. No warranty or other conditions, express or implied, should be understood.

Any electronic form, facsimile or hard copy of the original document (email, text, table, and/or figure), if provided, and any attachments are only a copy of the original document. The original document is stored by GeoEngineers, Inc. and will serve as the official document of record.

Please refer to Appendix E, titled "Report Limitations and Guidelines for Use," for additional information pertaining to use of this plan.

We appreciate the opportunity to be of service on this project. Please call if you have questions regarding our report.

7.0 REFERENCES

GeoEngineers Inc. (GeoEngineers) 2023. Contaminated Media Management Plan, 701 South Jackson Property. Prepared for South Jackson Partners LLC. File No. 24504-001-01. May 16, 2023.

GeoEngineers Inc. (GeoEngineers) 2022. Remedial Investigation and Feasibility Study, 701 South Jackson Property. Prepared for South Jackson Partners LLC. File No. 24504-001-01. September 19, 2022.

Troost, Kathy Goetz, Derek B. Booth, Aaron P. Wisher, and Scott A. Shimel (Troost et al.) 2005. The Geologic Map of Seattle – A Progress Report. USGS Open File Report 2005-1252. 2005.

Washington State Department of Ecology (Ecology) 2022. Cleanup Action Plan, Seventh Avenue Service, 701 South Jackson Street, Seattle, WA 98104 King, County Parcel #5247802725, CSID: 11348, FSID: 99187287. Prepared by the Washington State Department of Ecology. September 20, 2022.

Washington State Department of Ecology (Ecology) 2021. Site Assessment Guidance for Underground Storage Tank Systems. Publication No. 21-09-050 prepared by the Washington State Department of Ecology. January 2021.

Table 1
Summary of Underground Storage Tank Site Check/Site Assessment Chemical Analytical Data

701 South Jackson Street
 Seattle, Washington

Sample Location ¹	MTCA Cleanup Level ²	UST-01 (Heating Oil)				UST-02 (Gasoline/Diesel)			
		UST-230629	UST-N-86	UST-E-86	UST-B-83	230802	93	93	UST2-B-89
Sample Identification		GEI	GEI	GEI	GEI	GEI	GEI	GEI	
Sampled By		06/29/23	07/06/23	07/06/23	07/06/23	08/02/23	08/08/23	08/08/23	
Sample Date		n/a	12.0	12.0	15.0	n/a	8.0	8.0	
Sample Depth (feet bgs)									
Field Screening									
Sheen	NE	n/a	HS	MS	MS	n/a	HS	MS	HS
Headspace Vapors (PPM)	NE	n/a	947	20.1	230	n/a	15,000	15,000	15,000
Petroleum Hydrocarbons by NWPTH-HCID									
Gasoline	n/a	ND	--	--	--	Detect	--	--	--
Mineral Spirits	n/a	ND	--	--	--	ND	--	--	--
Kerosene	n/a	ND	--	--	--	ND	--	--	--
Diesel	n/a	Detect	--	--	--	Detect	--	--	--
Heavy Oil	n/a	ND	--	--	--	ND	--	--	--
Mineral Oil	n/a	ND	--	--	--	ND	--	--	--
Petroleum Hydrocarbons by NWPTH-G/NWTPH-Dx (mg/kg)									
Gasoline-Range	30	--	--	--	--	--	55.9	5.72 U	500
Diesel-Range	2,000	--	94.7	62.6 U	50.2 U	--	56.8 U	52.4 U	265
Heavy Oil-Range		--	6,910	125 U	2,900	--	114 U	105 U	105 U
Total Diesel and Heavy Oil-Range	2,000	--	7,004.7	125 U	2,900	--	114 U	105 U	265
Volatile Organic Compounds (VOCs) by EPA 8021/8260 (mg/kg)									
Benzene	0.03	--	0.0173 U	0.0196 U	0.0200 U	--	0.0242 U	0.02 U	0.0195 U
Toluene	7	--	0.0297 U	0.0336 U	0.0343 U	--	0.0414 U	0.0343 U	0.0334 U
Ethylbenzene	6	--	0.0247 U	0.0280 U	0.0288 U	--	0.0345 U	0.0286 U	0.0607
Total Xylenes	9	--	0.0494 U	0.0560 U	0.0672 U	--	0.109	0.0572 U	0.0246
1,2 Dibromoethane (EDB)	0.005	--	--	--	--	--	--	--	--
1,2 Dichloroethane (EDC)	11	--	--	--	--	--	--	--	--
Methyl tertiary-butyl ether (MTBE)	0.1	--	--	--	--	--	--	--	--
Total Metals by EPA 6000 /7000 Series (mg/kg)									
Lead	250	--	--	--	--	--	5.63	4.9	10.9
Polycyclic Aromatic Hydrocarbons (PAHs) by EPA 8270D/SIM (mg/kg)									
1-Methylnaphthalene	34	--	0.023 U	0.023 U	0.0262	--	0.0256	0.0187 U	0.0204 U
2-Methylnaphthalene	320	--	0.023 U	0.023 U	0.0384	--	0.0482	0.0187 U	0.0204 U
Acenaphthene	4,800	--	--	--	--	--	0.0222 U	0.0187 U	0.0204 U
Acenaphthylene	NE	--	--	--	--	--	0.0222 U	0.0187 U	0.0204 U
Anthracene	24,000	--	--	--	--	--	0.0222 U	0.0187 U	0.0204 U
Benzo[a]anthracene	NE	--	0.023 U	0.0255 U	0.0202 U	--	0.0222 U	0.0187 U	0.0204 U
Benzo(a)pyrene	0.1	--	0.0244 U	0.0382 U	0.0303 U	--	0.0333 U	0.0280 U	0.0306 U
Benzo(b)fluoranthene	NE	--	0.0287 U	0.0319 U	0.0252 U	--	0.0277 U	0.0234 U	0.0255 U
Benzo(g,h,i)perylene	NE	--	--	--	--	--	0.0555 U	0.0467 U	0.0510 U
Benzo(k)fluoranthene	NE	--	0.0287 U	0.0319 U	0.0252 U	--	0.0277 U	0.0234 U	0.0255 U
Chrysene	NE	--	0.023 U	0.0255 U	0.0202 U	--	0.0222 U	0.0187 U	0.0204 U
Dibenzo(a,h)anthracene	NE	--	0.0574 U	0.0637 U	0.0504 U	--	0.0555 U	0.0467 U	0.0510 U
Fluoranthene	3,200	--	--	--	--	--	0.0222 U	0.0187 U	0.0204 U
Fluorene	3,200	--	--	--	--	--	0.0222 U	0.0187 U	0.0204 U
Indeno(1,2,3-cd)pyrene	NE	--	0.0459 U	0.0510 U	0.0403 U	--	0.0444 U	0.0374 U	0.0408 U
Naphthalene (total) ⁴	5	--	0.023 U	0.0255 U	0.0646	--	0.1087	0.0187 U	0.0204 U
Phenanthrene	NE	--	--	--	--	--	0.0222 U	0.0187 U	0.0204 U
Pyrene	2,400	--	--	--	--	--	0.0444 U	0.0374 U	0.0408 U
cPAHs TEQ ⁵	0.1	--	0.021 U	0.029 U	0.023 U	--	0.0254 U	0.0214 U	0.0233 U
Polychlorinated Biphenyls (PCBs) by EPA 8082 (mg/kg)									
Total PCB Aroclors	1	--	--	--	--	--	--	--	--

Notes:

¹ Approximate sample locations shown on Figures 4 through 7.

² Washington State Model Toxic Control Act Cleanup Regulation (MTCA) Method A Soil Cleanup Levels for Unrestricted Land Uses. MTCA Method B cleanup level used when Method A cleanup level has not been established.

³ Refer to Appendix B for a full list of compounds analyzed and their results.

⁴ Total naphthalenes include the sum 1-methylnaphthalene, 2-methylnaphthalenes and naphthalene.

⁵ Total carcinogenic PAHs (cPAHs) calculated using the toxicity equivalency (TEQ) methodology in WAC 173-340-708(8). Non-detections were assigned half the reporting limit for these calculations.

bgs = below ground surface

mg/kg = milligram per kilogram

n/a = not applicable

NE = not established

"-" = not tested

ND = not detected greater than the laboratory reporting limit

U = Analyte not detected above the reported sample quantization limit

Bold indicates analyte was detected.

Shading indicates analyte was detected at a concentration greater than the MTCA soil cleanup level.

Table 1
Summary of Soil Field Screening and Chemical Analytical Data

701 South Jackson Street
Seattle, Washington

Sample Location ¹	MTCA Cleanup Levels ²	UST-03 (Waste Oil)				UST-04 (Waste Oil)			
		230804	93	93	UST3-B-90	230808	93	93	UST4-B-90
Sample Identification		GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI
Sampled By		08/04/23	08/08/23	08/08/23	08/08/23	08/08/23	08/09/23	08/09/23	08/09/23
Sample Date		n/a	8.0	8.0	11.0	n/a	8.0	8.0	11.0
Sample Depth (feet bgs)									
Field Screening									
Sheen	NE	n/a	HS	NS	HS	n/a	SS	MS	HS
Headspace Vapors (PPM)	NE	n/a	15,000	5,767	15,000	n/a	15,000	15,000	15,000
Petroleum Hydrocarbons by NWPTH-HCID									
Gasoline	n/a	Detect	--	--	--	ND	--	--	--
Mineral Spirits	n/a	ND	--	--	--	ND	--	--	--
Kerosene	n/a	ND	--	--	--	ND	--	--	--
Diesel	n/a	Detect	--	--	--	ND	--	--	--
Heavy Oil	n/a	Detect	--	--	--	ND	--	--	--
Mineral Oil	n/a	ND	--	--	--	ND	--	--	--
Petroleum Hydrocarbons by NWPTH-G/NWPTH-Dx (mg/kg)									
Gasoline-Range	30	--	5.98 U	5.09 U	1,970	--	5.16 U	96.9	5.72 U
Diesel-Range	2,000	--	63.6 U	50.5 U	985	--	55.2 U	74.3	51.7 U
Heavy Oil-Range		--	127 U	101 U	5,480	--	110 U	102 U	103 U
Total Diesel and Heavy Oil-Range	2,000	--	127 U	101 U	6,465	--	110 U	74.3	103 U
Volatile Organic Compounds (VOCs) by EPA 8021/8260 (mg/kg)									
Benzene	0.03	--	0.0209 U	0.0178 U	0.0194 U	--	0.0181 U	0.019 U	0.02 U
Toluene	7	--	0.0359 U	0.0306 U	0.0333 U	--	0.031 U	0.0325 U	0.0343 U
Ethylbenzene	6	--	0.0414	0.0255 U	0.491	--	0.0258 U	0.0271 U	0.0286 U
Total Xylenes	9	--	0.152	0.0509 U	1.7678	--	.0516 U	.0542 U	0.0572 U
1,2 Dibromoethane (EDB)	0.005	--	0.0120 U	0.0102 U	0.0111 U	--	0.0103 U	0.0108 U	0.0114 U
1,2 Dichloroethane (EDC)	11	--	0.0239 U	0.0204 U	0.0222 U	--	0.0206 U	0.0217 U	0.0229 U
Methyl tertiary-butyl ether (MTBE)	0.1	--	0.0239 U	0.0204 U	0.0222 U	--	0.0206 U	0.0217 U	0.0229 U
Total Metals by EPA 6000 /7000 Series (mg/kg)									
Lead	250	--	5.53	1.78	3.21	--	7.96	2.85	2.7
Polycyclic Aromatic Hydrocarbons (PAHs) by EPA 8270D/SIM (mg/kg)									
1-Methylnaphthalene	34	--	0.0243 U	0.021 U	2.72	--	0.0241 U	0.206	0.0205 U
2-Methylnaphthalene	320	--	0.0243 U	0.021 U	4.39	--	0.0241 U	0.291	0.0205 U
Acenaphthene	4,800	--	0.0243 U	0.021 U	0.0618	--	0.0241 U	0.0222 U	0.0205 U
Acenaphthylene	NE	--	0.0243 U	0.021 U	0.0216 U	--	0.0241 U	0.0222 U	0.0205 U
Anthracene	24,000	--	0.0243 U	0.021 U	0.0697	--	0.0241 U	0.0222 U	0.0205 U
Benzo[a]anthracene	NE	--	0.0243 U	0.021 U	0.26	--	0.0241 U	0.0222 U	0.0205 U
Benzo(a)pyrene	0.1	--	0.0243 U	0.0315 U	0.0324 U	--	0.0361 U	0.0333 U	0.0308 U
Benzo(b)fluoranthene	NE	--	0.0243 U	0.0263 U	0.027 U	--	0.0301 U	0.0278 U	0.0257 U
Benzo(g,h,i)perylene	NE	--	0.0243 U	0.0526 U	0.108	--	0.0602 U	0.0555 U	0.0513 U
Benzo(k)fluoranthene	NE	--	0.0243 U	0.0263 U	0.027 U	--	0.0301 U	0.0278 U	0.0257 U
Chrysene	NE	--	0.0243 U	0.021 U	0.132	--	0.0241 U	0.0222 U	0.0205 U
Dibenzo(a,h)anthracene	NE	--	0.0243 U	0.0526 U	0.054 U	--	0.0602 U	0.0555 U	0.0513 U
Fluoranthene	3,200	--	0.0243 U	0.021 U	0.275	--	0.0241 U	0.0222 U	0.0205 U
Fluorene	3,200	--	0.0243 U	0.021 U	0.0934	--	0.0241 U	0.0222 U	0.0205 U
Indeno(1,2,3-cd)pyrene	NE	--	0.0243 U	0.0421 U	0.0432 U	--	0.0482 U	0.0444 U	0.0411 U
Naphthalene (total) ⁴	5	--	0.0243 U	0.021 U	7.11	--	0.0241 U	0.497	0.0205 U
Phenanthrene	NE	--	0.0243 U	0.021 U	0.318	--	0.0241 U	0.0222 U	0.0205 U
Pyrene	2,400	--	0.0243 U	0.0421 U	0.362	--	0.0482 U	0.0444 U	0.0411 U
cPAHs TEQ ⁵	0.1	--	0.0183 U	0.024 U	0.0617 U	--	0.0275 U	0.0254 U	0.0235 U
Polychlorinated Biphenyls (PCBs) by EPA 8082 (mg/kg)									
Total PCB Aroclors	1	--	0.0252 U	0.0212 U	0.0221 U	--	0.0238 U	0.0221 U	0.0215 U

Notes:

¹ Approximate sample locations shown on Figures 4 through 7.

² Washington State Model Toxic Control Act Cleanup Regulation (MTCA) Method A Soil Cleanup Levels for Unrestricted Land Uses. MTCA Method B cleanup level used when Method A cleanup level has not been established.

³ Refer to Appendix B for a full list of compounds analyzed and their results.

⁴ Total naphthalenes include the sum 1-methylnaphthalene, 2-methylnaphthalenes and naphthalene.

⁵ Total carcinogenic PAHs (cPAHs) calculated using the toxicity equivalency (TEQ) methodology in WAC 173-340-708(8). Non-detections were assigned half the reporting limit for these calculations.

bgs = below ground surface

mg/kg = milligram per kilogram

n/a = not applicable

NE = not established

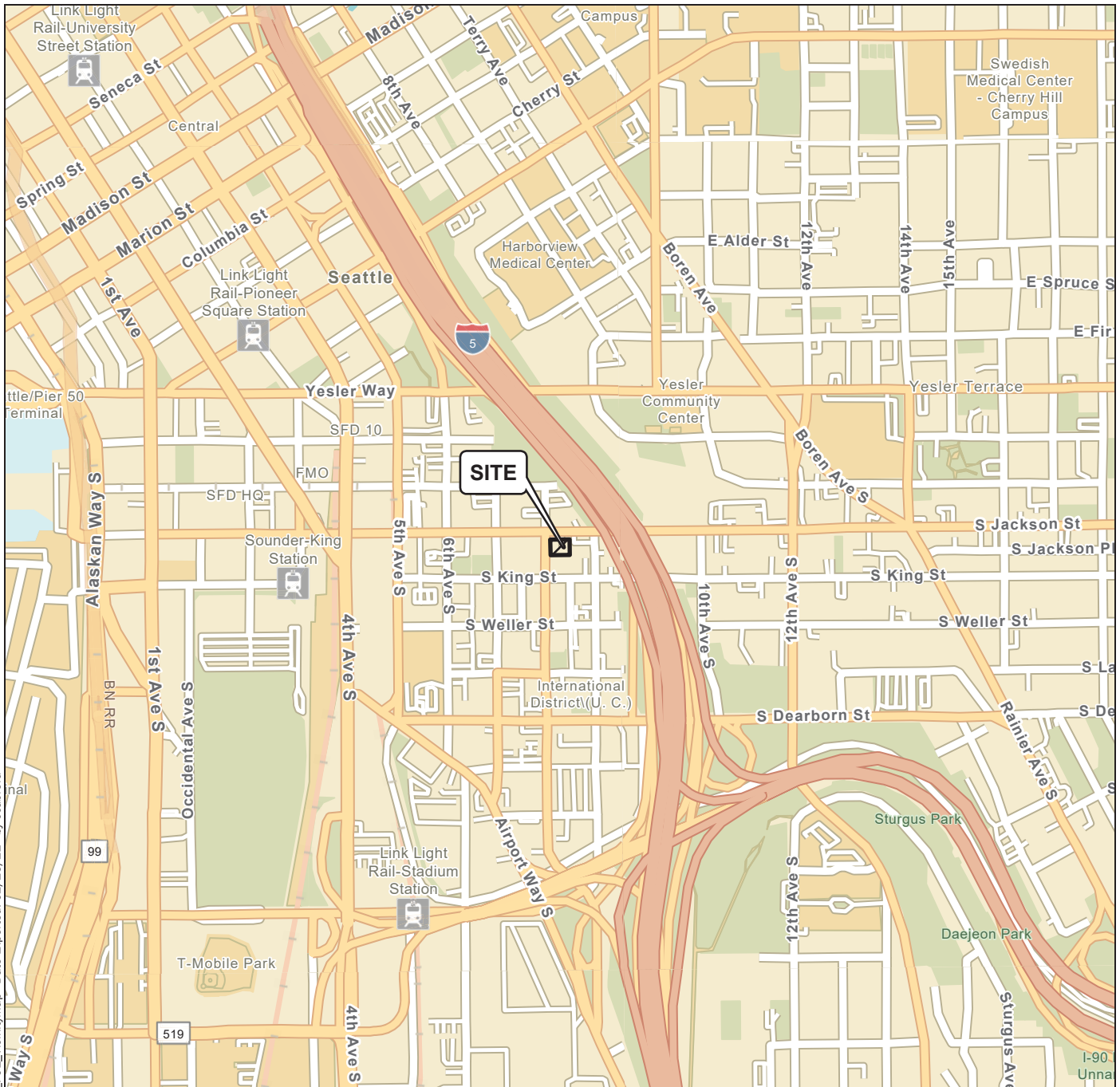
"-" = not tested

ND = not detected greater than the laboratory reporting limit

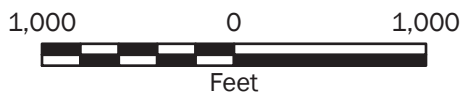
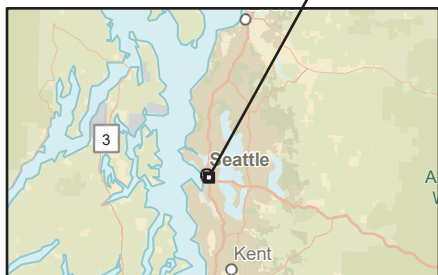
U = Analyte not detected above the reported sample quantization limit

Bold indicates analyte was detected.

Shading indicates analyte was detected at a concentration greater than the MTCA soil cleanup level.



P:\24\24504001_GIS\24504001_Project\aprx\24504001_VicinityMap Date Exported: 02/26/21 by coabrera



Notes:

1. The locations of all features shown are approximate.
2. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

Data Source: ESRI
 Projection: NAD 1983 UTM Zone 10N

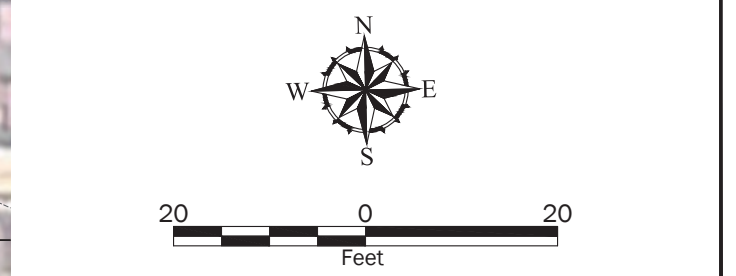
Vicinity Map	
701 South Jackson Street Seattle, Washington	
	Figure 1



- Legend**
- FB-3 Hollow Stem Auger Boring by Farallon Consulting, 2019
 - FB-4 Direct Push Boring by Farallon Consulting, 2019
 - FB-5 Direct Push Boring by Farallon Consulting, 2019 Completed at 25 degrees to horizontal
 - B-1-11 Hollow Stem Auger Boring by Landau Associates, 2011
 - B-1 Hollow Stem Auger Boring by GEO Group Northwest, 2006
 - H-1 Hollow Stem Auger Boring by GEO Group Northwest, 1992
 - GEI-1 Hollow Stem Auger Boring by GeoEngineers, 2021/2022
 - GEI-4 Direct Push Boring by GeoEngineers, 2021/2022
 - SSV-1 Soil Vapor Boring by GeoEngineers, 2021

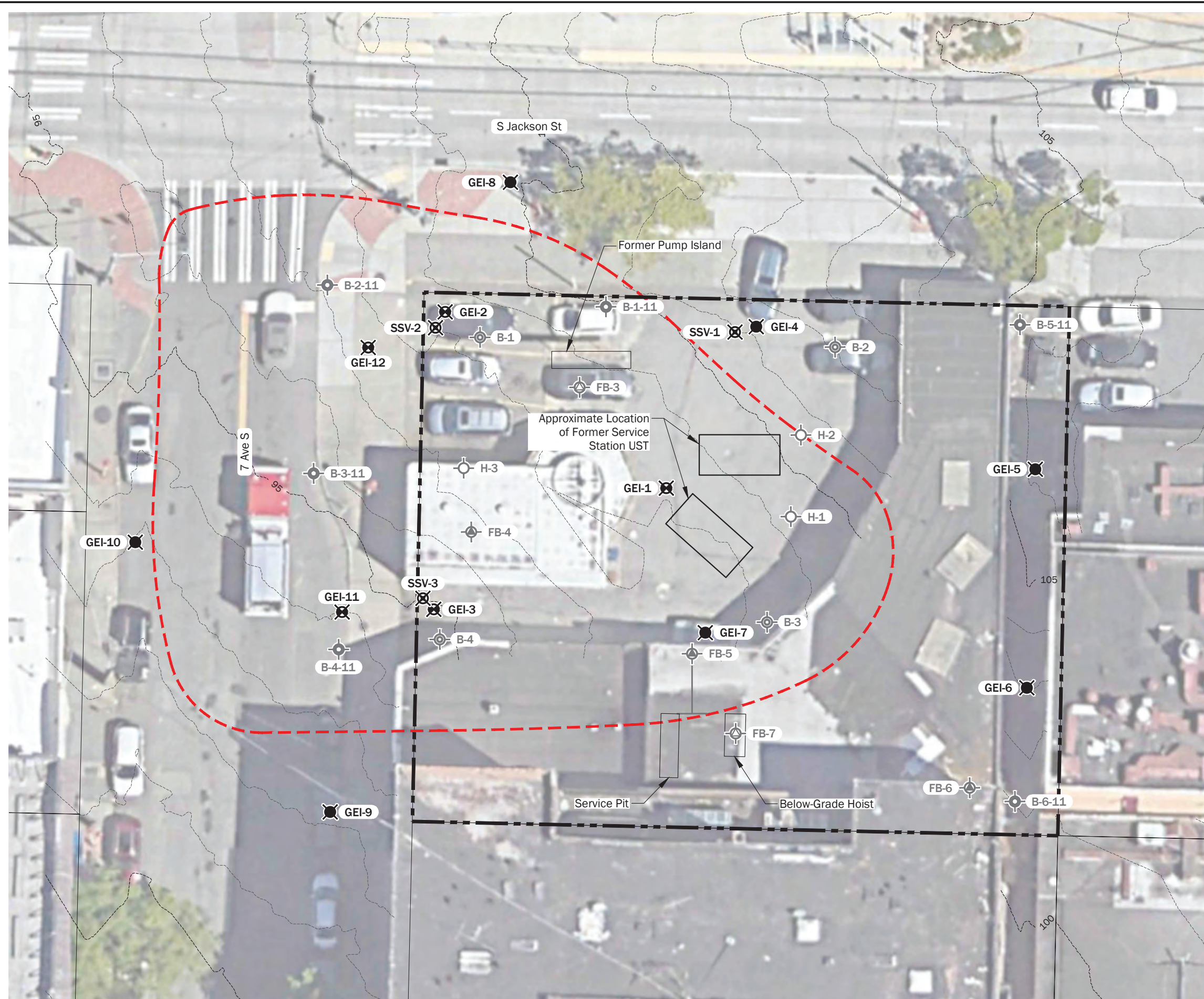
- Notes:**
1. The locations of all features shown are approximate.
 2. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

Data Source: Aerial from Google Earth Pro dated 5/26/2018.
 Lidar from Puget Sound Lidar Consortium dated 2016.
 Projection: NAD83 Washington State Planes, North Zone, US Foot



Environmental Investigation Sampling Locations	
701 South Jackson Street Seattle, Washington	
	Figure 2

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Legend

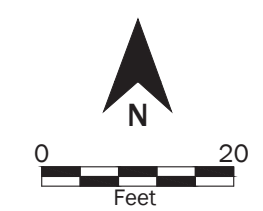
- FB-3 Hollow Stem Auger Boring by Farallon Consulting, 2019
- FB-4 Direct Push Boring by Farallon Consulting, 2019
- FB-5 Direct Push Boring by Farallon Consulting, 2019 Completed at 25 degrees to horizontal
- B-1-11 Hollow Stem Auger Boring by Landau Associates, 2011
- B-1 Hollow Stem Auger Boring by GEO Group Northwest, 2006
- H-1 Hollow Stem Auger Boring by GEO Group Northwest, 1992
- GEI-1 Hollow Stem Auger Boring by GeoEngineers, 2021/2022
- GEI-4 Direct Push Boring by GeoEngineers, 2021/2022
- SSV-1 Soil Vapor Boring by GeoEngineers, 2021
- Estimated Lateral Extent of Soil with Contaminant Concentrations Greater Than the MTCA Method A/B Cleanup Levels.

Source(s):

- Aerial from Google Earth Pro dated 5/26/2018.
- LIDAR from Puget Sound Lidar Consortium dated 2016

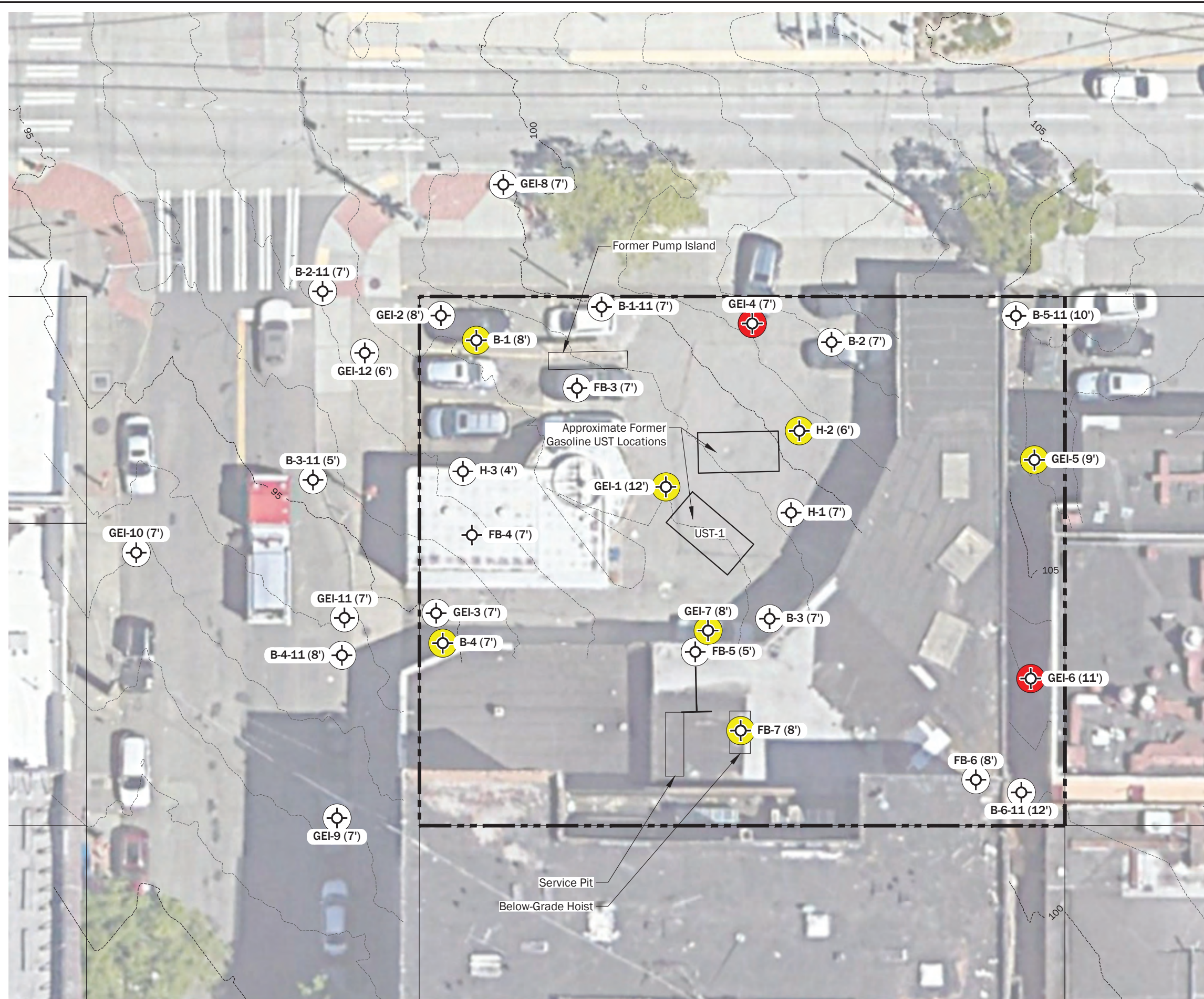
Projection: WA State Plane, North Zone, NAD83, US Foot

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Environmental Investigation Sampling Locations	
701 South Jackson Street Seattle, Washington	
	Figure 3

P:\24\24504001\CAD\01\Contaminated Media Management Plan\24504001_01_F03_Fill Soil Conditions.dwg TAB:F03 Date Exported: 05/24/22 - 12:46 by mwoods



Legend

- FB-4 Investigation Sampling Location
- FB-5 Investigation sampling location completed at 25 degrees to horizontal
- One or More Contaminants Detected at a Concentration Greater Than the MTCA CUL
- One or More Contaminants Detected at a Concentration Greater than Natural Background but Less than the MTCA CUL
- Contaminants Not Detected or Detected Less than Natural Background
- Not Analyzed
- (7') Depth below ground surface to Fill/Native Soil Contact (Approximate)

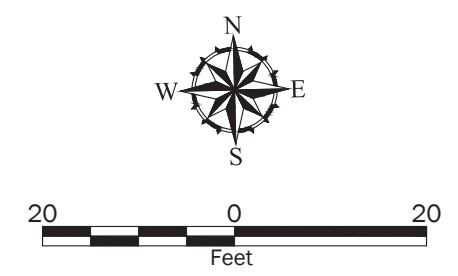
Natural Background = Natural Background soil metals for Puget Sound (Ecology Publication 94-115)
 MTCA = Model Toxics Control Act
 CUL = Cleanup Level (see Table 1)

Notes:

- The locations of all features shown are approximate.
- This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

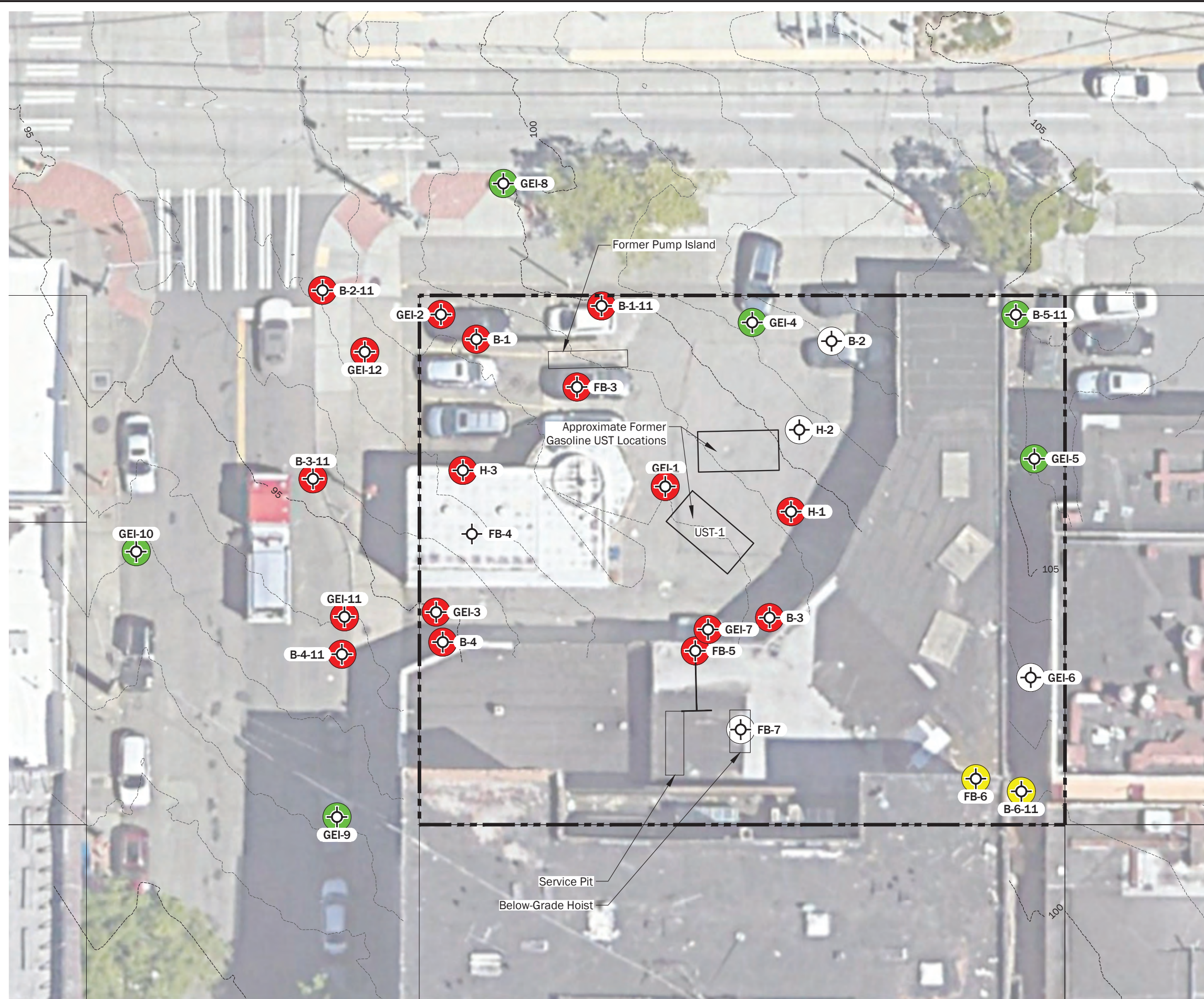
Data Source: Aerial from Google Earth Pro dated 5/26/2018.
 Lidar from Puget Sound Lidar Consortium dated 2016.

Projection: NAD83 Washington State Planes, North Zone, US Foot



Fill Soil Conditions	
701 South Jackson Street Seattle, Washington	
	Figure 4

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Legend

- FB-4 Investigation Sampling Location
- FB-5 Investigation sampling location completed at 25 degrees to horizontal
- One or More Contaminants Detected at a Concentration Greater Than the MTCA CUL
- One or More Contaminants Detected at a Concentration Greater than Natural Background but Less than the MTCA CUL
- Contaminants Not Detected or Detected Less than Natural Background
- Not Analyzed

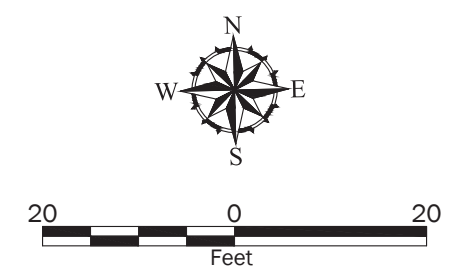
Natural Background = Natural Background soil metals for Puget Sound (Ecology Publication 94-115)
 MTCA = Model Toxics Control Act
 CUL = Cleanup Level (see Table 1)

Notes:

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Data Source: Aerial from Google Earth Pro dated 5/26/2018.
 Lidar from Puget Sound Lidar Consortium dated 2016.

Projection: NAD83 Washington State Planes, North Zone, US Foot



Native Soil Conditions	
701 South Jackson Street Seattle, Washington	
	Figure 5

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Legend

- GEI-1 Monitoring Well / Grab Groundwater Sampling Location
- ↔ A A' Cross Section Location
- One or More Contaminants Detected at a Concentration Greater Than the MTCA CUL
- Contaminants Not Detected or Detected Less than Natural Background
- Not Analyzed
- (7') Measured Groundwater Elevation (NAVD 88)
- ➔ Inferred Groundwater Flow Direction

Natural Background = Natural Background soil metals for Puget Sound (Ecology Publication 94-115)
 MTCA = Model Toxics Control Act
 CUL = Cleanup Level (see Table 1)

Note(s):

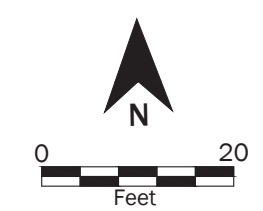
- Elevations on this plan reference the North American Vertical Datum of 1988 (NAVD88).

Source(s):

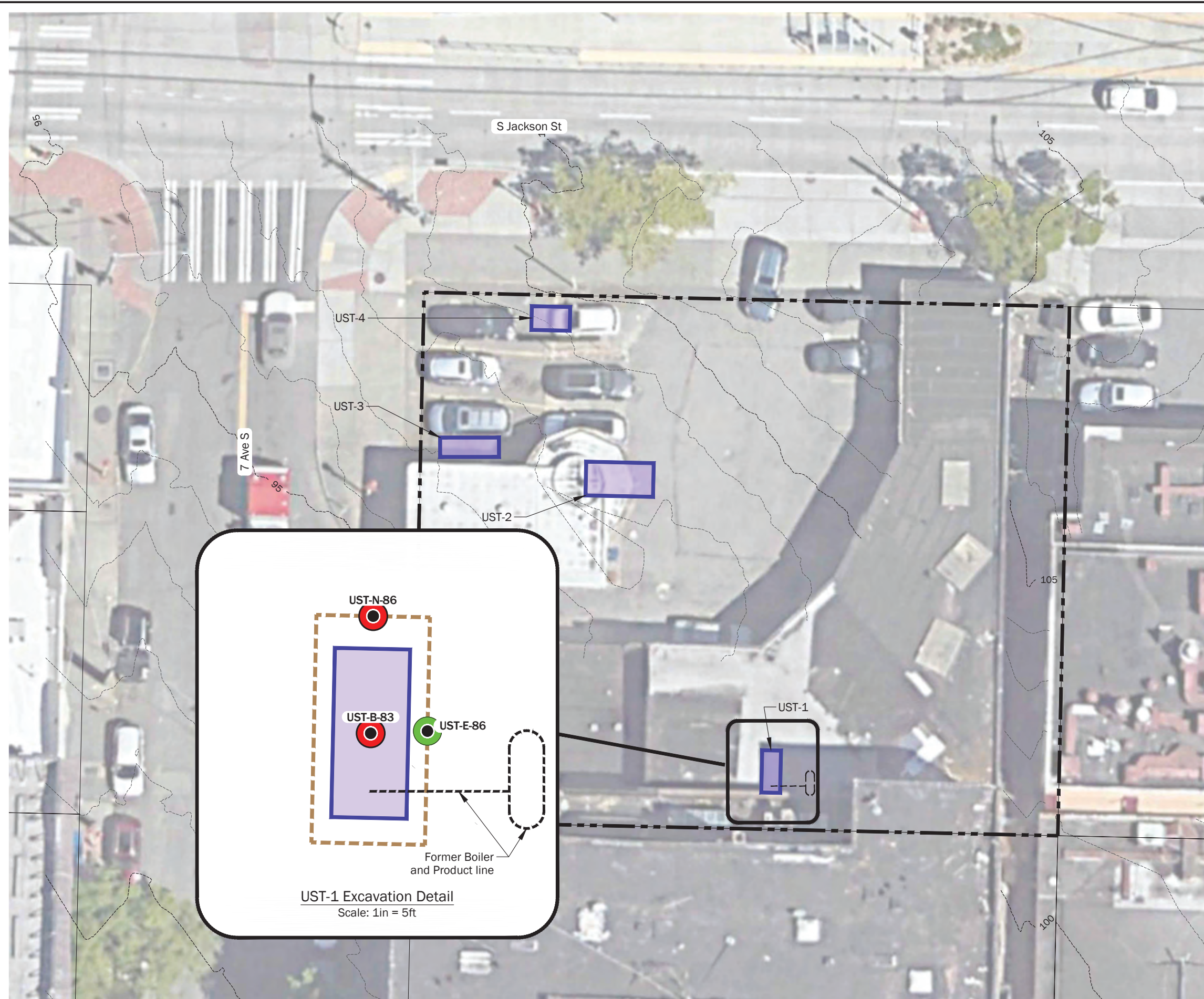
- Aerial from Google Earth Pro dated 5/26/2018
- LIDAR from Puget Sound Lidar Consortium dated 2016

Projection: WA State Plane, North Zone, NAD83, US Foot

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Groundwater Conditions	
701 South Jackson Street Seattle, Washington	
	Figure 6



Legend

- Site Boundary
- Approximate Location of Underground Storage Tank (UST) - Removed
- Approximate Limits of UST Removal Excavation
- Confirmation Sample Collected from Limits of UST Removal Excavation
- Confirmation Sample Collected from Limits of UST Removal Excavation
- Sample Elevation (NAVD88)
- Location Identification
- Sample Identification

Soil Chemical Analytical Results at Limits of UST Excavation

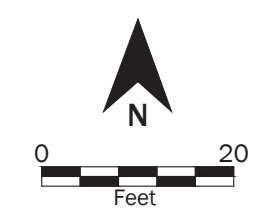
- Soil Sample Location - Contaminants Either Not Detected or Detected Less Than the MTCA Cleanup Level
- Soil Sample Location - One or More Contaminants Detected Greater Than The MTCA Cleanup Level

Source(s):

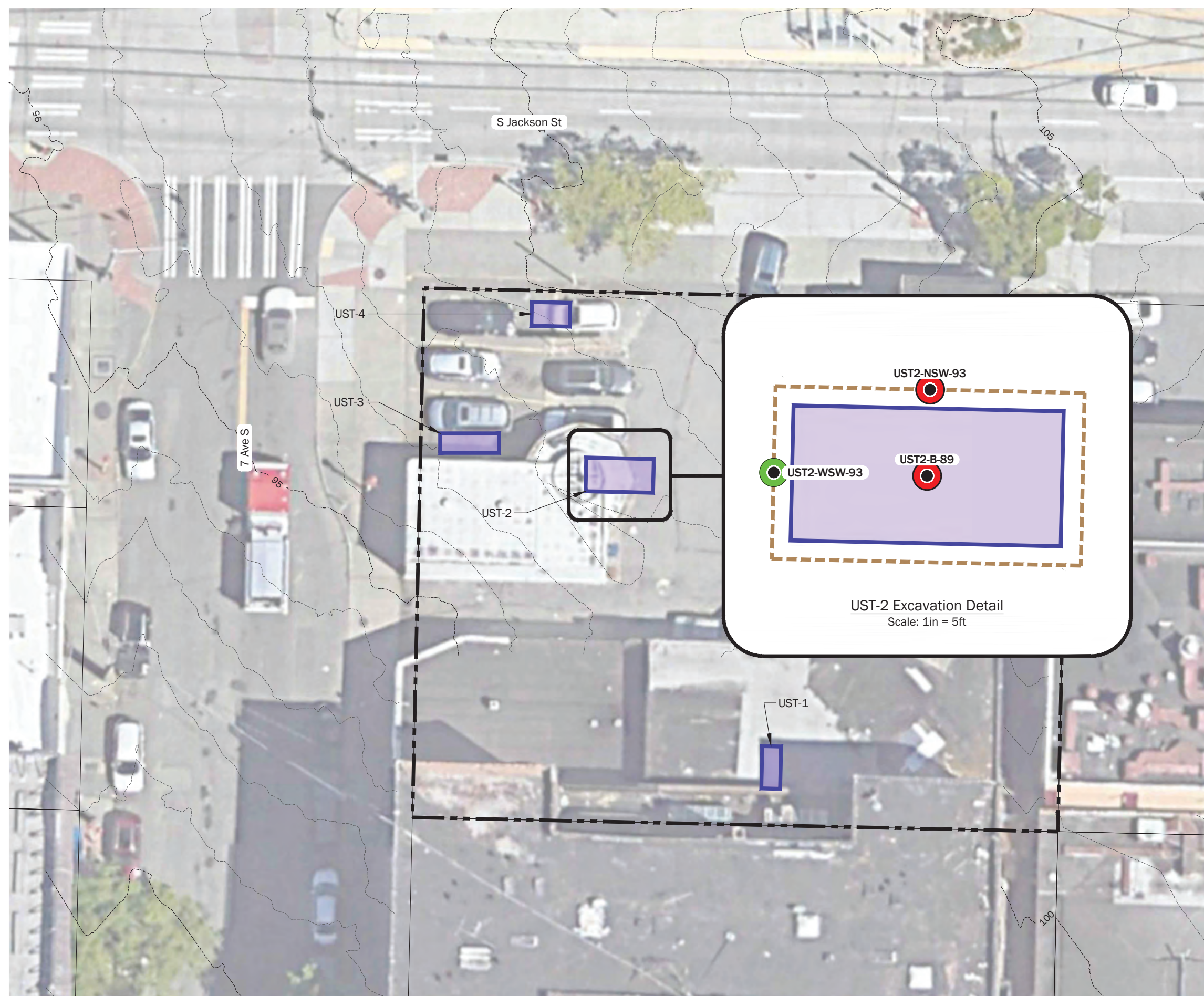
- Aerial from Google Earth Pro dated 5/26/2018.
- LIDAR from Puget Sound Lidar Consortium dated 2016

Projection: WA State Plane, North Zone, NAD83, US Foot

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UST-1 Removal Excavation and Soil Sampling Locations	
701 South Jackson Street Seattle, Washington	
	Figure 7



Legend

- Site Boundary
- Approximate Location of Underground Storage Tank (UST) - Removed
- Approximate Limits of UST Removal Excavation
- Confirmation Sample Collected from Limits of UST Removal Excavation
- Sample Elevation (NAVD88)
- Location Identification
- Sample Identification

Soil Chemical Analytical Results at Limits of UST Excavation

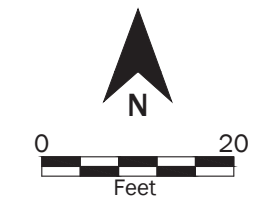
- Soil Sample Location - Contaminants Either Not Detected or Detected Less Than the MTCA Cleanup Level
- Soil Sample Location - One or More Contaminants Detected Greater Than The MTCA Cleanup Level

Source(s):

- Aerial from Google Earth Pro dated 5/26/2018.
- LIDAR from Puget Sound Lidar Consortium dated 2016

Projection: WA State Plane, North Zone, NAD83, US Foot

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UST-2 Removal Excavation and Soil Sampling Locations	
701 South Jackson Street Seattle, Washington	
	Figure 8



Legend

- Site Boundary
- Approximate Location of Underground Storage Tank (UST) - Removed
- Approximate Limits of UST Removal Excavation
- Confirmation Sample Collected from Limits of UST Removal Excavation
- Sample Elevation (NAVD88)
- Location Identification
- Sample Identification

Soil Chemical Analytical Results at Limits of UST Excavation

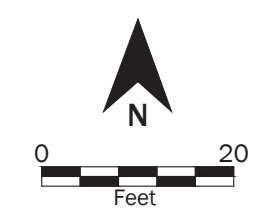
- Soil Sample Location - Contaminants Either Not Detected or Detected Less Than the MTCA Cleanup Level
- Soil Sample Location - One or More Contaminants Detected Greater Than The MTCA Cleanup Level

Source(s):

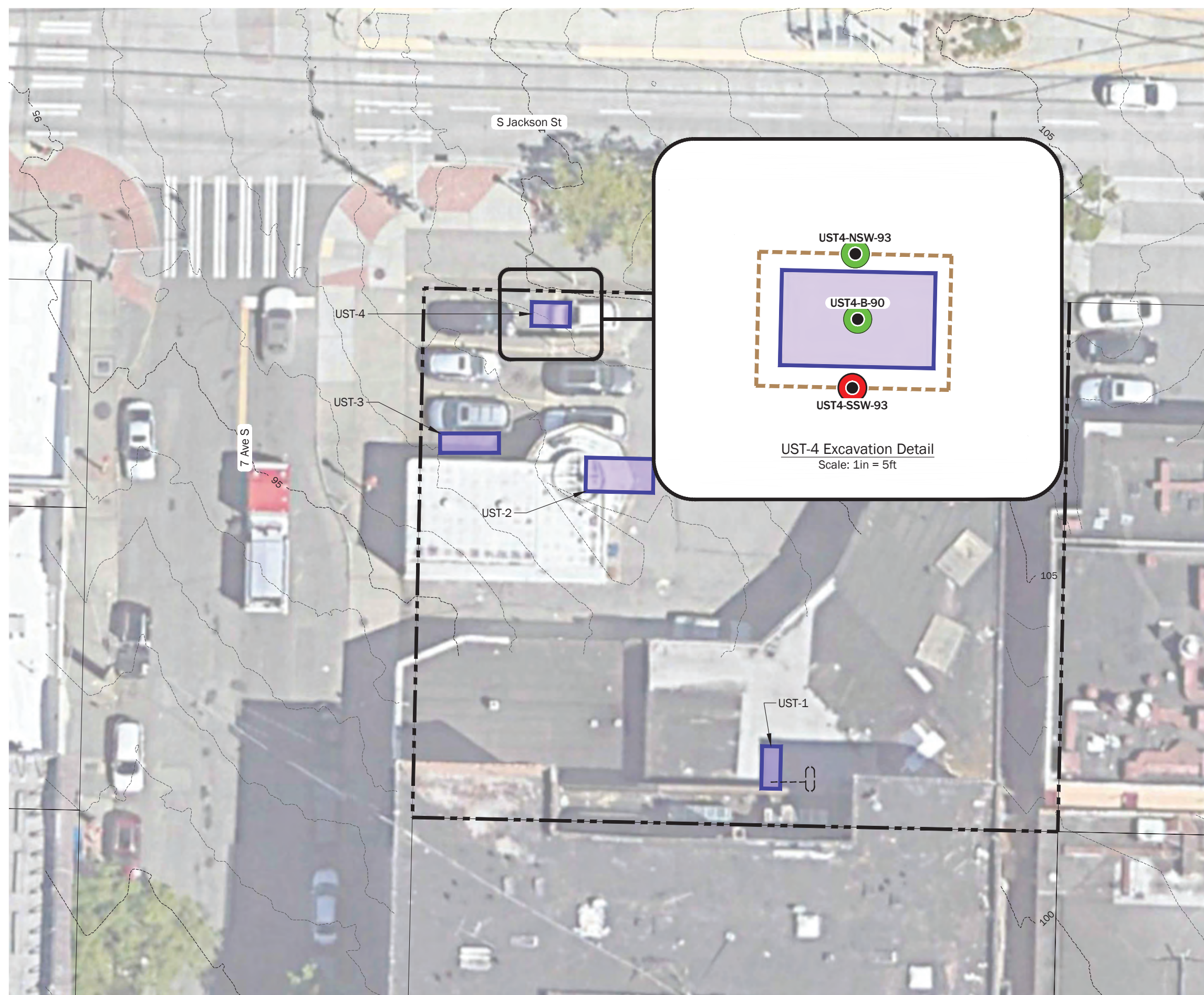
- Aerial from Google Earth Pro dated 5/26/2018.
- LIDAR from Puget Sound Lidar Consortium dated 2016

Projection: WA State Plane, North Zone, NAD83, US Foot

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UST-3 Removal Excavation and Soil Sampling Locations	
701 South Jackson Street Seattle, Washington	
	Figure 9



Legend

- Site Boundary
- Approximate Location of Underground Storage Tank (UST) - Removed
- Approximate Limits of UST Removal Excavation
- Confirmation Sample Collected from Limits of UST Removal Excavation
- Sample Elevation (NAVD88)
- Location Identification
- Sample Identification

Soil Chemical Analytical Results at Limits of UST Excavation

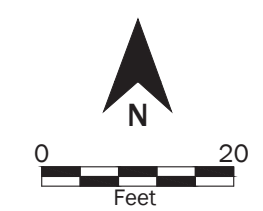
- Soil Sample Location - Contaminants Either Not Detected or Detected Less Than the MTCA Cleanup Level
- Soil Sample Location - One or More Contaminants Detected Greater Than The MTCA Cleanup Level

Source(s):

- Aerial from Google Earth Pro dated 5/26/2018.
- LIDAR from Puget Sound Lidar Consortium dated 2016

Projection: WA State Plane, North Zone, NAD83, US Foot

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UST-4 Removal Excavation and Soil Sampling Locations	
701 South Jackson Street Seattle, Washington	
	Figure 10

APPENDIX A
Underground Storage Tank Closure Documents

Robert S. Trahan

From: Imke, Andrew (ECY) <aimk461@ECY.WA.GOV>
Sent: Tuesday, August 8, 2023 8:05 AM
To: Robert S. Trahan
Cc: Brad Padden; Robert Tiscareno; Paul D. Robinette; Tim L. Syverson; Song, Jing (ECY); Mark Sexauer; Demesio Cedeno; JC Cunningham
Subject: RE: Seventh Avenue Service - Cleanup Site ID: 11348: USTs

You don't often get email from aimk461@ecy.wa.gov. [Learn why this is important](#)

CAUTION! THIS IS AN EXTERNAL EMAIL

If you suspect this is a phishing email, click the **Phish Alert Report** button.

Good morning Robert,

Under the circumstances I am willing to Waive the 30-Day Notice timeframe. Please ensure you follow ALL the regulatory requirements for Permanent Closure of these UST Systems, as well as all other applicable Local, State and Federal requirements. Ensure that there are pictures of the current "as found" status of the tanks, removal operations, EACH sample area and specific location included in the Permanent Closure Packet. Direct observation of decommissioning operations by the ICC certified Decommissioner and site assessment operations by the ICC Certified Site Assessor are mandatory.

Should you have any questions please email me immediately. Failure to comply with the above requirements will void your 30-Day Notice Waiver and result in further enforcement actions.

Respectfully,
Drew

Andrew A. Imke
Senior Underground Storage Tank Inspector (Interim UST Unit Supervisor)
Dept. of Ecology-NWRO: TCP/UST
Cell (425) 457-3142
andrew.imke@ecy.wa.gov

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From: Robert S. Trahan <rtrahan@geoengineers.com>
Sent: Monday, August 7, 2023 5:55 PM
To: Imke, Andrew (ECY) <aimk461@ECY.WA.GOV>
Cc: Brad Padden <brad@housingdiversity.com>; Robert Tiscareno <robertt@housingdiversity.com>; Paul D. Robinette <probinette@geoengineers.com>; Tim L. Syverson <tsyverson@geoengineers.com>; Song, Jing (ECY)

<JISO461@ECY.WA.GOV>; Robert S. Trahan <rtrahan@geoengineers.com>; Mark Sexauer <marks@stsconst.com>; Demesio Cedeno <DemesioC@stsconst.com>; JC Cunningham <johnc@stsconst.com>

Subject: RE: Seventh Avenue Service - Cleanup Site ID: 11348: USTs

Drew,

Please see the attached 30-day notice for the recently encountered USTs as part of the Seventh Street Service Site. Given that these tanks were not previously identified and the ongoing construction activities, we are requesting on behalf of 701 South Jackson Partners a waiver to the 30-day notice. Currently, tank removal activities are anticipated for tomorrow (8/8) and will include flushing and rinsing the contents of the tanks followed by their removal. A marine chemist will inert the tanks prior to removal as appropriate under supervision of the Seattle Fire Department. GeoEngineers will be onsite to oversee the removal/decommissioning activities and perform an Ecology Site Check/Site Assessment. Note that these tanks are located within an active remedial excavation to address petroleum contamination and that ongoing remedial activities will address any potential releases to soil at the site.

Please don't hesitate to call with any questions or concerns.

Thanks,

Robert S. Trahan
Senior Environmental Scientist | GeoEngineers, Inc.

Telephone: 206.239.3253

Fax: 206.728.2732

Mobile: 206.240.2300

Email: rtrahan@geoengineers.com

2101 4th Avenue, Suite 950

Seattle, WA 98121

www.geoengineers.com

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From: Imke, Andrew (ECY) <aimk461@ECY.WA.GOV>

Sent: Monday, August 7, 2023 7:23 AM

To: Song, Jing (ECY) <JISO461@ECY.WA.GOV>; Tim L. Syverson <tsyverson@geoengineers.com>

Cc: Brad Padden <brad@housingdiversity.com>; Carly Hendricks <chendricks@geoengineers.com>; Robert Tiscareno <robertt@housingdiversity.com>; Robert S. Trahan <rtrahan@geoengineers.com>; Paul D. Robinette <probinette@geoengineers.com>

Subject: RE: Seventh Avenue Service - Cleanup Site ID: 11348: USTs

Some people who received this message don't often get email from aimk461@ecy.wa.gov. [Learn why this is important](#)

CAUTION! THIS IS AN EXTERNAL EMAIL

If you suspect this is a phishing email, click the **Phish Alert Report** button.

Good morning Jing,

Thank you for including me in this correspondence. I look forward to receiving the 30 – Day Notice from Tim. That will get things rolling for the Permeant Closure Packet for these abandoned UST Systems. If Tim needs any guidance he can respond to this email.

Respectfully,
Drew

Andrew A. Imke
Senior Underground Storage Tank Inspector (Interim UST Unit Supervisor)
Dept. of Ecology-NWRO: TCP/UST
Work (425) 649-7226
Cell (425) 457-3142
Fax (425) 649-7161
andrew.imke@ecy.wa.gov

The above email may contain identifiable or confidential information. Because email is not secure, please be aware of associated risks of email transmissions. If you are communicating with a Department of Ecology employee via email, your acceptance of the risk and agreement to the conditions for email communications is implied.

The information contained herein is intended for the individual(s) named above. If you are not the intended recipient, any disclosure, copying, distribution or use of the contents of this information shall occur in accordance with Washington State Laws and Department of Ecology Policy. Please notify the sender by reply email if you receive this email in error.

From: Song, Jing (ECY) <JISO461@ECY.WA.GOV>
Sent: Thursday, August 3, 2023 11:55 AM
To: Tim L. Syverson <tsyverson@geoengineers.com>
Cc: Brad Padden <brad@housingdiversity.com>; Carly Hendricks <chendricks@geoengineers.com>; Robert Tiscareno <robertt@housingdiversity.com>; Robert S. Trahan <rtrahan@geoengineers.com>; Paul D. Robinette <probinette@geoengineers.com>; Imke, Andrew (ECY) <aimk461@ECY.WA.GOV>
Subject: RE: Seventh Avenue Service - Cleanup Site ID: 11348: USTs

Tim,

Thank you for letting me know.

Are there products inside the tanks? Do you have photos of the tanks to share?

Also please contact Ecology UST inspector Andrew Imke (cc'd) if you need a waiver for 30-day notice to remove the tanks.

Jing

From: Tim L. Syverson <tsyverson@geoengineers.com>
Sent: Thursday, August 3, 2023 11:44 AM
To: Song, Jing (ECY) <JISO461@ECY.WA.GOV>
Cc: Brad Padden <brad@housingdiversity.com>; Carly Hendricks <chendricks@geoengineers.com>; Robert Tiscareno <robertt@housingdiversity.com>; Robert S. Trahan <rtrahan@geoengineers.com>; Paul D. Robinette

<probinette@geoengineers.com>

Subject: Seventh Avenue Service - Cleanup Site ID: 11348: USTs

Hi Jing,

A brief email separate from our regular project status updates.

Yesterday (August 2, 2023) two underground storage tanks (USTs) were encountered during construction excavation in the north central portion of the property in the area where two other USTs had been removed in 2010 (see the RI/FS document). We are getting more details regarding the size and contents of the two unanticipated tanks.

Once the tanks were noted, the excavation was stopped and moved to another area of the property. There is no evidence that the tanks were damaged, or of a release associated with either of the tanks.

STS is coordinating for decommissioning of the tanks and preparation of the appropriate documentation, per the Ecology regulations, prior to removal.

Please let us know if you have any questions.

Thanks,

Tim

Tim L. Syverson, LHG
Associate Environmental Geologist | GeoEngineers, Inc.
Telephone: 206.448.4197
Fax: 206.728.2732
Mobile: 206.605.9236
Email: tsyverson@geoengineers.com

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Confidentiality: This message is confidential and intended solely for use of the individual or entity to whom it is addressed. If you are not the person for whom this message is intended, please delete it and notify me immediately, and please do not copy or send this message to anyone else.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Vineta Mills, M.S.
Eric Young, B.S.

5500 4th Avenue South
Seattle, WA 98108
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

July 3, 2023

Tom Wise, Project Manager
Tank Wise
5405 W Marginal Way SW
Seattle, WA 98106

Dear Mr Wise:

Included are the results from the testing of material submitted on June 26, 2023 from the 701 S Jackson St, F&BI 306404 project. There are 7 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
TAW0703R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	Sludge	Client:	Tank Wise
Date Received:	06/26/23	Project:	701 S Jackson St, F&BI 306404
Date Extracted:	06/27/23	Lab ID:	306404-01
Date Analyzed:	06/27/23	Data File:	306404-01.153
Matrix:	Soil/Product	Instrument:	ICPMS2
Units:	mg/kg (ppm)	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
Arsenic	<1
Barium	<1
Cadmium	<1
Chromium	<1
Copper	<5
Lead	73.9
Mercury	<1
Nickel	<1
Selenium	<1
Silver	<1
Zinc	5.11

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	Method Blank	Client:	Tank Wise
Date Received:	Not Applicable	Project:	701 S Jackson St, F&BI 306404
Date Extracted:	06/27/23	Lab ID:	I3-510 mb2
Date Analyzed:	06/27/23	Data File:	I3-510 mb2.110
Matrix:	Soil/Product	Instrument:	ICPMS2
Units:	mg/kg (ppm)	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
Arsenic	<1
Barium	<1
Cadmium	<1
Chromium	<1
Copper	<5
Lead	<1
Mercury	<1
Nickel	<1
Selenium	<1
Silver	<1
Zinc	<5

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	Sludge	Client:	Tank Wise
Date Received:	06/26/23	Project:	701 S Jackson St, F&BI 306404
Date Extracted:	06/29/23	Lab ID:	306404-01 1/500
Date Analyzed:	06/29/23	Data File:	062936.D
Matrix:	Soil/Product	Instrument:	GCMS11
Units:	mg/kg (ppm)	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	114	79	128
Toluene-d8	100	84	121
4-Bromofluorobenzene	101	84	116

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<25
Chloroethane	<250
1,1-Dichloroethene	<25
Methylene chloride	<250
trans-1,2-Dichloroethene	<25
1,1-Dichloroethane	<25
cis-1,2-Dichloroethene	<25
1,2-Dichloroethane (EDC)	<25
1,1,1-Trichloroethane	<25
Trichloroethene	<10
Tetrachloroethene	<12

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	Method Blank	Client:	Tank Wise
Date Received:	Not Applicable	Project:	701 S Jackson St, F&BI 306404
Date Extracted:	06/29/23	Lab ID:	03-1524 mb
Date Analyzed:	06/29/23	Data File:	062909.D
Matrix:	Soil/product	Instrument:	GCMS11
Units:	mg/kg (ppm)	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	106	79	128
Toluene-d8	100	84	121
4-Bromofluorobenzene	106	84	116

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.02
Tetrachloroethene	<0.025

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 07/03/23

Date Received: 06/26/23

Project: 701 S Jackson St, F&BI 306404

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR VOLATILES BY EPA METHOD 8260D**

Laboratory Code: 306424-02 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	mg/kg (ppm)	2	<0.05	87	90	50-150	3
Chloroethane	mg/kg (ppm)	2	<0.5	112	112	50-150	0
1,1-Dichloroethene	mg/kg (ppm)	2	<0.05	91	92	50-150	1
Methylene chloride	mg/kg (ppm)	2	<0.5	97	97	50-150	0
trans-1,2-Dichloroethene	mg/kg (ppm)	2	<0.05	95	96	50-150	1
1,1-Dichloroethane	mg/kg (ppm)	2	<0.05	95	95	50-150	0
cis-1,2-Dichloroethene	mg/kg (ppm)	2	<0.05	92	95	50-150	3
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2	<0.05	98	99	50-150	1
1,1,1-Trichloroethane	mg/kg (ppm)	2	<0.05	96	97	50-150	1
Trichloroethene	mg/kg (ppm)	2	<0.02	95	97	50-150	2
Tetrachloroethene	mg/kg (ppm)	2	<0.025	97	100	50-150	3

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Vinyl chloride	mg/kg (ppm)	2	101	35-135
Chloroethane	mg/kg (ppm)	2	110	21-147
1,1-Dichloroethene	mg/kg (ppm)	2	100	49-138
Methylene chloride	mg/kg (ppm)	2	105	25-146
trans-1,2-Dichloroethene	mg/kg (ppm)	2	104	62-126
1,1-Dichloroethane	mg/kg (ppm)	2	105	64-131
cis-1,2-Dichloroethene	mg/kg (ppm)	2	102	62-127
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2	107	73-123
1,1,1-Trichloroethane	mg/kg (ppm)	2	105	66-125
Trichloroethene	mg/kg (ppm)	2	103	62-116
Tetrachloroethene	mg/kg (ppm)	2	104	69-131

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 07/03/23

Date Received: 06/26/23

Project: 701 S Jackson St, F&BI 306404

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF SOIL/PRODUCT SAMPLES
FOR TOTAL METALS USING EPA METHOD 6020B**

Laboratory Code: 306340-05 x5 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Arsenic	mg/kg (ppm)	10	<5	95	91	75-125	4
Barium	mg/kg (ppm)	50	44.7	143 b	96 b	75-125	39 b
Cadmium	mg/kg (ppm)	10	<5	99	97	75-125	2
Chromium	mg/kg (ppm)	50	5.29	94	97	75-125	3
Copper	mg/kg (ppm)	50	<25	86	96	75-125	11
Lead	mg/kg (ppm)	50	874	0 b	374 b	75-125	200 b
Mercury	mg/kg (ppm)	5	<5	95	91	75-125	4
Nickel	mg/kg (ppm)	25	5.43	85 b	91 b	75-125	7 b
Selenium	mg/kg (ppm)	5	<5	68 vo	62 vo	75-125	9
Silver	mg/kg (ppm)	10	<5	96	95	75-125	1
Zinc	mg/kg (ppm)	50	107	2 b	119 b	75-125	193 b

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Arsenic	mg/kg (ppm)	10	101	80-120
Barium	mg/kg (ppm)	50	99	80-120
Cadmium	mg/kg (ppm)	10	101	80-120
Chromium	mg/kg (ppm)	50	107	80-120
Copper	mg/kg (ppm)	50	103	80-120
Lead	mg/kg (ppm)	50	104	80-120
Mercury	mg/kg (ppm)	5	100	80-120
Nickel	mg/kg (ppm)	25	107	80-120
Selenium	mg/kg (ppm)	5	92	80-120
Silver	mg/kg (ppm)	10	101	80-120
Zinc	mg/kg (ppm)	50	101	80-120

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

- a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca - The calibration results for the analyte were outside of acceptance criteria, biased low; or, the calibration results for the analyte were outside of acceptance criteria, biased high, with a detection for the analyte in the sample. The value reported is an estimate.
- c - The presence of the analyte may be due to carryover from previous sample injections.
- cf - The sample was centrifuged prior to analysis.
- d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.
- dv - Insufficient sample volume was available to achieve normal reporting limits.
- f - The sample was laboratory filtered prior to analysis.
- fb - The analyte was detected in the method blank.
- fc - The analyte is a common laboratory and field contaminant.
- hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.
- hs - Headspace was present in the container used for analysis.
- ht - The analysis was performed outside the method or client-specified holding time requirement.
- ip - Recovery fell outside of control limits due to sample matrix effects.
- j - The analyte concentration is reported below the standard reporting limit. The value reported is an estimate.
- J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.
- jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.
- js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.
- k - The calibration results for the analyte were outside of acceptance criteria, biased high, and the analyte was not detected in the sample.
- lc - The presence of the analyte is likely due to laboratory contamination.
- L - The reported concentration was generated from a library search.
- nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.
- pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.
- ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.
- vo - The value reported fell outside the control limits established for this analyte.
- x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

306404

SAMPLE CHART OF CUSTODI

06/26/23

M1

Page # of

TURNAROUND TIME

Standard turnaround

RUSH

Rush charges authorized by:

SAMPLE DISPOSAL

Archive samples

Other

Default: Dispose after 30 days

Report To Tom Wise

Company Tank Wise

Address 5105 W. Marginal Way SW

City, State, ZIP Sea WA 98106

Phone 206 793-2425 Email Tom.Wise@TankWise.com

SAMPLERS (signature)

PROJECT NAME

701 S Jackson ST Sea WA

REMARKS

Project specific RIS? - Yes / No

PO #

INVOICE TO

ANALYSES REQUESTED

- NWTPH-Dx
- NWTPH-Gx
- BTEX EPA 8021
- NWTPH-HCID
- VOCs EPA 8260
- PAHs EPA 8270
- PCBs EPA 8082

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	Notes
<u>RCRA 8+</u>	<u>-01</u>	<u>6-26</u>	<u>1:45 pm</u>	<u>Sludges</u>	<u>1</u>					<u>X</u>		<u>X</u>	<u>RCRA Metals + Cu, Ni, Zn</u>
<u>Copper-Nickel-Zinc</u>													
<u>Chlorinated Solvents</u>		<u>11</u>	<u>11</u>	<u>11</u>									

Samples received at 16

SIGNATURE

PRINT NAME

COMPANY

DATE

TIME

Relinquished by: [Signature]

Received by: [Signature]

Relinquished by:

Received by:

Tom Wise

AMHPHAN

Tank Wise

FSB

6-26-23

06/26/23 15:44

15:44

Friedman & Bruya, Inc.

3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

MARINE CHEMIST CERTIFICATE
SERIAL NO 48066

TANK WISE Survey Requested by TANK WISE Vessel Owner or Agent 5 July 23 Date

UST Vessel UST Type of Vessel 701 S. JACKSON Specific Location of Vessel

HEATING OIL/DIESEL X3 Last Three (3) Loadings VISUAL, O2, LEL, VOC Tests Performed 1355 Time Survey Completed

1270 UST DIESEL

SAFE FOR EXCAVATION

SAFE FOR TRANSPORTATION

PLEASE NOTE:
① MAY REMOVE AS LATE AS FRIDAY
NIGHT IF NEEDED. BEYOND THAT,
CALL THE CHEMIST FOR FURTHER
INSPECTION INSTRUCTIONS.

In the event of changes adversely affecting conditions in the above spaces, or if in any doubt, immediately stop all work and contact the undersigned Marine Chemist.

Qualifications: Manipulation of valves or devices tending to alter conditions in pipe lines or tanks noted above, unless specifically approved in this certificate, will require re-inspection and a new Certificate for spaces so affected. All piping, heating coils, pumps and floating roof gaskets attached to or contained within spaces listed above shall be considered "NOT SAFE" unless otherwise specifically designated.

STANDARD SAFETY DESIGNATIONS

(These detail the minimum conditions for Safe Entry and Hot Work.) The Marine Chemist may request additional measures if workplace conditions so dictate.

ATMOSPHERE SAFE FOR WORKERS means that in a space (a) the oxygen content is between 19.5% and 22% by volume, and (b) combustible gas is less than 10% of the Lower Explosive Limit, and (c) airborne toxic materials are within permissible concentrations as listed in OSHA's Subpart Z or in ACGIH's current list of Threshold Limit Values.

SAFE FOR HOT WORK means that (a) oxygen within the space is less than 22% by volume; and (b) the combustible gas is less than 10% of the Lower Explosive Limit; and (c) cargo residues within the space will not combust during hot work; and (d) pipes that can deliver hazardous materials to the workspace have been separated, blanked, or locked out, and nearby hazardous spaces have been evaluated and noted on the certificate.

NOT SAFE FOR HOT WORK: In the compartment or space so designated, hot work is not permitted.

CRAIG TRETENIK (ct)
206-313-6933 CELL

"The undersigned acknowledges receipt of this Certificate and understands conditions and limitations under which it was issued."
 Signed [Signature] Name Tom Wise Company TANK WISE

This Certificate is based on conditions existing at the time the inspection herein set forth was completed and is issued subject to compliance with all qualifications and instructions.
 Date 5 JULY 23 Signed [Signature] Marine Chemist #688 Certificate No

FMO STAFF USE - Inspection Date: 7/6 | Inspection Time: 14:00 | Staff: ID

RECEIVED

JUN 26 2023



Your
Seattle
Fire Department

FIRE DEPARTMENT
APPLICATION FOR TEMPORARY PERMIT

Code 7908 531100
Permit Fee: \$288.00

Commercial Tank Removal/Decommissioning

Date Issued: 7/6/23

APPLICANT TO COMPLETE PAGES 1 AND 2

Tank(s) must be removed from site on the same day as permit is issued!

BUSINESS NAME: TANK WISE LLC		
MAILING ADDRESS: 5405 W MARGINAL WAY SW		SUITE:
CITY: SEATTLE	STATE: WA	ZIP: 98106
JOBSITE ADDRESS: <u>701 S JACKSON</u>		
CONTACT PERSON: TOM WISE		PHONE NUMBER: (206) 793-2425
Number of Tank(s): <u>1</u>	Tank Size(s): <u>1240-</u>	<input type="checkbox"/> Aboveground tank
Product(s) Previously Contained: <u>Diesel</u>		<input type="checkbox"/> Underground tank
<input checked="" type="checkbox"/> Removal (Marine Chemist inspection and certificate required for all tanks regardless of size or contents)		
<input type="checkbox"/> Abandonment-in-Place (Marine Chemist certificate required for tanks previously containing Class I flammable liquids and/or unknowns)		
Hot work being conducted: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (If yes, a separate hot work permit is required)		

Permit applications may be submitted in person weekdays from 8:00 a.m. to 4:30 p.m., or mailed to:

Seattle Fire Department
Fire Marshal's Office - Permits
220 Third Ave S, 2nd Floor
Seattle, WA 98104-2608

To pay with a Visa or Master Card, email this completed application to us,
and then visit www.seattle.gov/fire/permits to make a payment.
Tel: (206) 386-1450
E-mail: permits@seattle.gov

**WORK SHALL NOT COMMENCE UNTIL SFD INSPECTION HAS BEEN COMPLETED.
NO HOT WORK IS ALLOWED ON A TANK SYSTEM PRIOR TO ISSUANCE OF THIS FIRE DEPARTMENT PERMIT!
Contact us at least 2 business days prior to intended start date to request an inspection.
Email: permits@seattle.gov | Call: (206) 386-1450**

Permission is hereby granted to remove or decommission the tank(s) identified in this permit in accordance with the attached conditions, all noted special conditions, and all applicable provisions of the Seattle Fire Code, and federal, state, and local regulations.

I understand the conditions of this permit and will ensure all tank removal/decommissioning operations are conducted accordingly. I acknowledge that I received an inspection by a Seattle Fire Department inspector today.

Tom Wise Print Name [Signature] Signature Owner Title

Special permit conditions: Tank removal/decommissioning must be performed, or directly supervised, by an ICC certified individual (WAC 173-360-600)

THIS PERMIT IS NULL AND VOID IF PERMIT CONDITIONS ARE NOT ATTACHED

FMO USE:	APPROVED BY:
Check No.: <u>00026908062623</u>	Inspector: <u>Adam [Signature]</u>
Receipt No.: <u>5-350857</u>	Name of Marine Chemist: <u>Craig</u>
Application ID#: <u>131149</u>	Date: <u>7/6/23</u>
	SFD ID# <u>2343</u>
	Certificate # <u>48066</u>

715, Jackson



Certificate of Weight
Issued under authority of City of Seattle Ord. 7.04.580

SEATTLE IRON & METALS CORP.

601 S. Myrtle Street Seattle, WA 98108 206-682-0040

PAID
JUL 08 2008
SEATTLE IRON & METALS CORP.

Weighted For: Tank Wise

Date

Ticket #

Commodity: S Price: - 85

Gross lbs.

Tare lbs.

1404

Net lbs.

I, the undersigned, certify that the weights indicated hereon are true and correct.

Weighted By: [Signature]
Licensed City Weigher

(5/20)

ORIGINAL

FMO STAFF USE - Inspection Date: _____ | Inspection Time: _____ | Staff: _____

Your
Seattle
Fire Department



APPLICATION FOR TEMPORARY PERMIT

Code 7908

Commercial Tank Removal/Decommissioning

Permit Fee: \$311.00

Date Issued: 8/8/23

APPLICANT TO COMPLETE PAGES 1 AND 2

Tank(s) must be removed from site on the same day as permit is issued!

BUSINESS NAME: Tank Wise LLC		
MAILING ADDRESS: 5405 W Marginal Way SA	SUITE:	
CITY: Seattle	STATE: WA	ZIP: 98104
JOBSITE ADDRESS: 701 S Jackson Street Seattle WA		206 937-3995
CONTACT PERSON: Monica Vijarro	PHONE NUMBER: (206) 937-3995	
Number of Tank(s): <u>3</u>	Tank Size(s): <u>675 1500 1500</u>	<input type="checkbox"/> Aboveground tank
Product(s) Previously Contained: <u>Gasoline</u>	<input checked="" type="checkbox"/> Underground tank	
<input checked="" type="checkbox"/> Removal (Marine Chemist inspection and certificate required for all tanks regardless of size or contents)		
<input type="checkbox"/> Abandonment-in-Place (Marine Chemist certificate required for tanks previously containing Class I flammable liquids and/or unknowns)		
Hot work being conducted: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (If yes, a separate hot work permit is required)		

Permit applications may be submitted in person weekdays from 8:00 a.m. to 4:30 p.m., or mailed to:

Seattle Fire Department
Fire Marshal's Office - Permits
220 Third Ave S, 2nd Floor
Seattle, WA 98104-2608

To pay with a Visa or Master Card, email this completed application to us,
and then visit www.seattle.gov/fire/permits to make a payment.
Tel: (206) 386-1450
E-mail: permits@seattle.gov

**WORK SHALL NOT COMMENCE UNTIL SFD INSPECTION HAS BEEN COMPLETED.
NO HOT WORK IS ALLOWED ON A TANK SYSTEM PRIOR TO ISSUANCE OF THIS FIRE DEPARTMENT PERMIT!
Contact us at least 2 business days prior to intended start date to request an inspection.
Email: permits@seattle.gov | Call: (206) 386-1450**

Permission is hereby granted to remove or decommission the tank(s) identified in this permit in accordance with the attached conditions, all noted special conditions, and all applicable provisions of the Seattle Fire Code, and federal, state, and local regulations.

I understand the conditions of this permit and will ensure all tank removal/decommissioning operations are conducted accordingly. I acknowledge that I received an inspection by a Seattle Fire Department inspector today.

Monica Vijarro Monica L. Vijarro 8-2-23
Print Name Signature Title

Special permit conditions: Tank removal/decommissioning must be performed, or directly supervised, by an ICC certified individual (WAC 173-360-600)

Per. comes with Sound Technia 3rd tank chg. to be removed 0600 8/9/23

THIS PERMIT IS NULL AND VOID IF PERMIT CONDITIONS ARE NOT ATTACHED

FMO USE:	APPROVED BY:	
Check No.: _____	Inspector: <u>[Signature]</u>	SFD ID# <u>2343</u>
Receipt No.: _____	Name of Marine Chemist: <u>[Signature]</u>	Certificate # <u>725</u>
Application ID#: _____	Date: <u>8/9/23</u>	

STRAIGHT BILL OF LADING
ORIGINAL — NOT NEGOTIABLE

Shipper No. 23022

Carrier No. _____

Date 8-8-23

Page 1 of 4

Marine Vacuum Service Inc.

(Name of carrier)

(SCAC)

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec. 1.

TO: Marine Vacuum Service Inc.

Consignee Marine Vacuum Service Inc.

Street 1516 South Graham Street

City Seattle State WA Zip Code 98108

FROM: Shipper GARY

Street 701 South Jackson St

City Seattle State WA Zip Code _____

ChemTel 1-800-255-3924

Contract MIS3627926

24 hr. Emergency Contact Tel. No. _____

Route _____ Vehicle Number 049

No. of Units & Container Type	HM	BASIC DESCRIPTION UN or NA Number, Proper Shipping Name, Hazard Class, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
1 TT	X	(DOT Spec Tank Required) UN1863 Fuel, Aviation, Turbin Engine, Class 3, PG I				
1 TT	X	(DOT Spec Tank Required) UN1203 Gasoline, Mixture Class 3, PG II				
1 TT	X	(DOT Spec Tank Required) UN1203 Gasoline, Class 3, PG II				
1 TT	X	NA1993 Diesel Mixture, Class 3, PG III				
1 TT	X	NA1993 Diesel, Class 3, PG III				
1 TT	X	NA1270 Petroleum Oil, Class 3, PG I				
1 TT	X	NA1270 Petroleum Oil, Mixture, Class 3, PG I				
1 TT		Oily Waste Water Non Reg by DOT	<u>100</u>	<u>Gall</u>		
1 TT		Waste Water Non Reg by DOT				
1 TT		Used Oil Non Reg by DOT				
1 TT		Used Coolant Non Reg by DOT				

PLACARDS TENDERED: YES NO

Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____ per _____"
 (2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172.
 (3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(c) of item 360, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Signature _____

REMIT C.O.D. TO: ADDRESS

COD Amt: \$ _____

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
 The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

Signature of Consignor _____

G.O.D. FEE: PREPAID COLLECT \$ _____

TOTAL CHARGES \$ _____

FREIGHT CHARGES: FREIGHT PREPAID Check box if charges are to be collect

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.

Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER [Signature]

PER 8/8/23

CARRIER MAR VAC

PER [Signature]

DATE 8-8-23

Permanent post-office address of shipper.

SOUND TESTING, INC.

P.O. BOX 16204 SEATTLE, WA 98116

(206) 932-0206 FAX (206) 937-3848

WWW.SOUNDTESTINGINC.COM

MARINE CHEMIST CERTIFICATE

SERIAL NO 48152

TANK WISE

TANK WISE / GARY

8/8/23

Survey Requested by

Vessel Owner or Agent

Date

UST

UST

701 S JACKSON ST

Vessel

Type of Vessel

SEATTLE Specific Location of Vessel

GASOLINE #3

Visual O₂

1120 HRS

Last Three (3) Loadings

Tests Performed

Time Survey Completed

1,000 gal UST #1

INERTED - CO₂

1,000 gal UST #2

SAFE FOR EXCAVATION

2,500 gal UST

SAFE FOR TRANSPORT

ALL TANKS:

O₂ < 5%

REQUIREMENTS: KEEP ALL OPENING TO THE UST'S PLUGGED

In the event of changes adversely affecting conditions in the above spaces, or if in any doubt, immediately stop all work and contact the undersigned Marine Chemist.

Qualifications: Manipulation of valves or devices tending to alter conditions in pipe lines or tanks noted above, unless specifically approved in this certificate, will require re-inspection and a new Certificate for spaces so affected. All piping, heating coils, pumps and floating roof gaskets attached to or contained within spaces listed above shall be considered "NOT SAFE" unless otherwise specifically designated.

STANDARD SAFETY DESIGNATIONS

(These detail the minimum conditions for Safe Entry and Hot Work.) The Marine Chemist may request additional measures if workplace conditions so dictate.

ATMOSPHERE SAFE FOR WORKERS means that in a space (a) the oxygen content is between 19.5% and 22% by volume, and (b) combustible gas is less than 10% of the Lower Explosive Limit, and (c) airborne toxic materials are within permissible concentrations as listed in OSHA's Subpart Z or in ACGIH's current list of Threshold Limit Values.

SAFE FOR HOT WORK means that (a) oxygen within the space is less than 22% by volume; and (b) the combustible gas is less than 10% of the Lower Explosive Limit; and (c) cargo residues within the space will not combust during hot work; and (d) pipes that can deliver hazardous materials to the workspace have been separated, blanked, or locked out, and nearby hazardous spaces have been evaluated and noted on the certificate.

NOT SAFE FOR HOT WORK: In the compartment or space so designated, hot work is not permitted.

"The undersigned acknowledges receipt of this Certificate and understands conditions and limitations under which it was issued."

This Certificate is based on conditions existing at the time the inspection herein set forth was completed and is issued subject to compliance with all qualifications and instructions.

Signed

[Signature]

Name

TANK WISE 8/8/23

Company

Date

Signed

[Signature] # 725

Marine Chemist

Certificate No

POSTING

SOUND TESTING, INC.

P.O. BOX 16204 SEATTLE, WA 98116

(206) 932-0206 FAX (206) 937-3848

WWW.SOUNDTESTINGINC.COM

MARINE CHEMIST CERTIFICATE

SERIAL N^o 48161

08/18/23

Survey Requested by <i>Tankwise</i> - 2500 Gal UST	Vessel Owner or Agent <i>Tankwise</i> UST	Date <i>08/18/23</i>
Vessel	Type of Vessel	Specific Location of Vessel
<i>Gasoline (3x)</i>	<i>O₂, LEL, CO, H₂S, VOC, Visual</i>	<i>Tank Wise Yard</i> 1420
Last Three (3) Loadings	Tests Performed	Time Survey Completed

-2500 Gal UST

→ Inerted -w/ CO₂
Safe For Limited Hotwork
•5% Oxygen, •4% LEL

Limitations → Limit hotwork to grinding/cutoff wheel to cut cleaning hole in end of tank. Work to be completed by 1500 on 08/18/23, chemist will stand by.

Post Firewatch w/ extinguisher during cutting

In the event of changes adversely affecting conditions in the above spaces, or if in any doubt, immediately stop all work and contact the undersigned Marine Chemist.

Qualifications: Manipulation of valves or devices tending to alter conditions in pipe lines or tanks noted above, unless specifically approved in this certificate, will require re-inspection and a new Certificate for spaces so affected. All piping, heating coils, pumps and floating roof gaskets attached to or contained within spaces listed above shall be considered "NOT SAFE" unless otherwise specifically designated.

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NOT SAFE FOR HOT WORK: In the compartment or space so designated, hot work is not permitted.

[Signature]
 "The undersigned acknowledges receipt of this Certificate and understands conditions and limitations under which it was issued."
 Signed *X* Name _____ Company *Tankwise* Date *08/18/23*

This Certificate is based on conditions existing at the time the inspection herein set forth was completed and is issued subject to compliance with all qualifications and instructions.
 Signed *[Signature]* Marine Chemist Lucas Kuebler Certificate No *718*

POSTING



Certificate of Weight
Issued under authority of City of Seattle Ord. 7.04.580

SEATTLE IRON & METALS CORP.

601 S. Myrtle Street Seattle, WA 98108 206-682-0040

Weighed For: Tank wise

Date 8/22/23

Ticket # 171587

Commodity: S Price: -85

Gross lbs. 2525.16

Tare lbs. 1145.00

Net lbs. 1380.16

I, the undersigned, certify that the weights indicated hereon are true and correct.

Weighed By: [Signature]
Licensed City Weigher

PAID

AUG 22 2023

SEATTLE IRON & METALS CORP

ORIGINAL

KS300 (5/20)



Certificate of Weight
Issued under authority of City of Seattle Ord. 7.04.580

SEATTLE IRON & METALS CORP.

601 S. Myrtle Street Seattle, WA 98108 206-682-0040

Weighed For: Tank wise

Date 8/22/23

Ticket # 171587

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Tare lbs. 1145.00

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Weighed By: [Signature]
Licensed City Weigher

PAID

AUG 22 2023

SEATTLE IRON & METALS CORP

ORIGINAL



30-DAY NOTICE

FOR UNDERGROUND STORAGE TANK SYSTEMS

UST ID #: 9017

County: King

This form provides Ecology 30-days' advanced notice for projects, as required by Chapter 173-360A WAC. Instructions are on the back page.

Please ✓ the appropriate box: Intent to Install Intent to Close Change-in-Service

I. SITE INFORMATION			II. OWNER/OPERATOR INFORMATION			
Tag or UBI # (if applicable): <u>Not Applicable</u>			Owner/Operator Name: <u>701 South Jackson Partners LLC</u>			
UST ID # (if applicable): <u>9017</u>			Business Name: <u>701 South Jackson Partners LLC</u>			
Site Name: <u>Seventh Avenue Service</u>			Mailing Address: <u>159 South Jackson Street</u>			
Site Address: <u>701 South Jackson Street</u>			City: <u>Seattle</u>	State: <u>WA</u>	Zip: <u>98104</u>	
City: <u>Seattle</u>			Phone: <u>206-915-9702</u>			
Phone: <u>206-915-9702</u>			Email: <u>robertt@housingdiversity.com</u>			
III. CERTIFIED SERVICE PROVIDER(S)						
Check the appropriate boxes. If more than one service provider is required for this project, fill out both sections.						
Note: Individuals performing UST services MUST be ICC-certified or have passed another qualifying exam approved by the Department of Ecology.						
1) <input type="checkbox"/> Installer <input checked="" type="checkbox"/> Decommissioner <input type="checkbox"/> Site Assessor						
Company Name: <u>Tank Wise LLC</u>			Certification Type: <u>U2</u>			
Service Provider Name: <u>Seattle Oil Solution</u>			Cert. No.: <u>9408330-U2</u>		Exp. Date: <u>6/15/2025</u>	
Provider Phone: <u>206-937-3995</u>			Provider Email: <u>wtankwise@gmail.com office@hotlineheating.net</u>			
2) <input type="checkbox"/> Installer <input type="checkbox"/> Decommissioner <input type="checkbox"/> Site Assessor						
Company Name:			Certification Type:			
Service Provider Name:			Cert. No.:		Exp. Date:	
Provider Phone:			Provider Email:			
IV. TANK AND/OR PIPING INFORMATION						
TANK ID	TANK CAPACITY	SUBSTANCE STORED	PIPING		DATE PROJECT IS EXPECTED TO BEGIN	COMMENTS
			INSTALLATION OR REPLACEMENT ONLY (Y/N)			
T2	1,000 gallon	Gas	N		8/8/2023	Previously unidentified tanks encountered during site clean/property redevelopment (Site ID 11348). Tanks will be permanently decommissioned and removed from the property.
T3	1,000 gallon	Waste Oil	N		8/8/2023	
T4	1,000 gallon	Waste Oil	N		8/8/2023	

30-DAY NOTICE

FOR UNDERGROUND STORAGE TANK SYSTEMS

GENERAL INSTRUCTIONS

Under WAC 173-360A-0300, 173-360A-0810 and 173-360A-0820, owners and/or operators are required to notify the Department of Ecology (Ecology) **at least 30 days prior** to beginning underground storage tank (UST) and/or piping installation, decommissioning, or change-in-service projects by mailing this notice to the address below. A separate form must be used for each project type (e.g. install, removal). Once this form is received by Ecology, it is date-stamped and returned to the owner/operator listed on the form. Installation and decommissioning projects cannot begin within the first 30 days after the date stamped on this form unless the wait-period has been waived by a regional Ecology UST inspector. If a project cannot meet the deadlines described below, an additional 30-Day Notice may be required.

Department of Ecology
Underground Storage Tank Section
PO Box 47655
Olympia, WA 98504-7655

SITE AND OWNER/OPERATOR INFORMATION

Fill in the site/owner information completely. The contact person listed on this form must confirm the exact date an installation or decommissioning project will begin by contacting the regional UST inspector **at least 3 business days** before proceeding.

INSTALLATION/REPLACEMENT OF TANK AND/OR PIPING

Installation projects must begin within 90 days of the date stamped on this notice. Complete the Tank Information section by assigning Tank ID numbers that have not previously been used at the facility. Once processed, this form allows a one-time drop of product for UST system testing purposes only. The fuel drop is not required to occur within the 90-day period. Once your tank(s) store more than one inch of product, leak detection equipment and monitoring must be in place.

To receive additional deliveries and operate the new tanks/piping, you must submit the [Business License application, UST Addendum](#), and the tank/piping Manufacturer's Installation Checklists to the Department of Revenue (DOR) **within 30 days** of completing the installation. This activates the mailing of your Business License with tank endorsement(s) from DOR and the facility compliance tag from Ecology.

If only piping is being installed or replaced piping, the ICC-certified installer must certify the installation by completing the [Retrofit/Repair Checklist](#) with the Manufacturer's Installation Checklist and submitting it to the owner/operator. The form packet must be submitted by the owner/operator to Ecology **within 30 days** of completing the piping installation.

PERMANENT CLOSURE OF TANK AND/OR PIPING

Decommissioning projects must be completed within 90 days after the date stamped on this returned notice. Complete the Tank Information section using Tank ID numbers listed on the Business License. Use the Comments box to include additional information, such as the date when product was removed from both the piping and the tank to less than one inch.

Contact your local fire marshal and planning department prior to tank closure to procure any permits required by county or other local jurisdictions. Compliance with the State Environmental Policy Act (SEPA) Rules, Chapter 197-11 WAC may also apply.

A site assessment is required at the time of closure. If contamination is not discovered, a site assessment report must be submitted to the above address **within 30 days**. If contamination is discovered or confirmed, it must be reported to the appropriate Ecology regional office **within 24 hours** and a site characterization report must be submitted to the above address **within 90 days**.

The following are some examples of tanks that are exempt from the UST regulations.

- ❖ Farm or residential tanks, 1,100 gallons or less, used to store motor fuel for personal or farm use only.
The fuel must be used for farm purposes and cannot be for resale.
- ❖ Tanks used for storing heating oil that is used solely for the purpose of heating the premises.
- ❖ Tanks with a capacity of 110 gallons or less.
- ❖ Emergency overflow tanks, catch basins, or sumps.

If you need this document in a format for the visually impaired, call Toxics Cleanup Program at (360) 407-7170. Persons with hearing loss can call 711 for Washington Relay Service. Persons with speech disability, call (877) 833-6341.



PERMANENT CLOSURE NOTICE

FOR UNDERGROUND STORAGE TANKS

UST ID #: 9017

County: King

This notice certifies that permanent closure activities were performed and conducted in accordance with Chapter 173-360A WAC. Instructions are found on the back page.

I. UST FACILITY	II. OWNER/OPERATOR INFORMATION
Facility Compliance Tag #: <u>Not Applicable</u>	Owner/Operator Name: <u>701 South Jackson Partners LLC</u>
UST ID #: <u>9017</u>	Business Name: <u>701 South Jackson Partners LLC</u>
Site Name: <u>Seventh Avenue Service</u>	Address: <u>159 South Jackson Street</u>
Site Address: <u>701 South Jackson Street</u>	City: <u>Seattle</u> State: <u>WA</u> Zip: <u>98104</u>
City: <u>Seattle</u>	Phone: <u>206-915-9702</u>
Phone: <u>206-915-9702</u>	Email: <u>robertt@housingdiversity.com</u>

III. CERTIFIED UST DECOMMISSIONER			
Company Name: <u>Tank Wise LLC</u>		Service Provider Name: <u>Seattle Oil Solution</u>	
Address: <u>5405 W Marginal Way SW</u>		Certification Type: <u>U2</u>	
City: <u>Seattle</u>	State: <u>WA</u>	Zip: <u>98106</u>	Exp. Date: <u>6/15/2025</u>
Provider Phone: <u>206-937-3995</u>		Provider Email: <u>wtankwise@gmail.com office@hotlineheating.net</u>	
<i>Provider Signature:</i>		<i>Date:</i> <u>FEB 14TH 2024</u>	

IV. TANK INFORMATION						
TANK ID	TANK CAPACITY	LAST SUBSTANCE STORED	CLOSURE METHOD			CLOSURE DATE
			removal	closed-in-place	change-in-service	
T2	1,000 gallon	Gas	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
T3	1,000 gallon	Waste Oil	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
T4	1,000 gallon	Waste Oil	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

V. REQUIRED SIGNATURE		
<i>Signature acknowledges UST(s) comply with UST regulation WAC 173-360A-0810 Permanent Closure Requirements.</i>		
2-16-24		Gary Van Cleave
Date	Signature of Tank Owner/Operator or Authorized Representative	Print or Type Name

APPENDIX B
Site Check/Site Assessment Checklists



SITE CHECK/SITE ASSESSMENT CHECKLIST

FOR UNDERGROUND STORAGE TANKS

UST ID #: 9017

County: King

This checklist certifies that site check or site assessment activities were performed in accordance with Chapter 173-360A WAC. Instructions are found on the last page.

I. UST FACILITY		II. OWNER/OPERATOR INFORMATION	
Facility Compliance Tag #:		Owner/Operator Name: <u>701 South Jackson Partners LLC</u>	
UST ID #: <u>FSID # 99187287</u>		Business Name: <u>701 South Jackson Partners LLC</u>	
Site Name: <u>Seventh Avenue Service</u>		Address: <u>159 South Jackson Street</u>	
Site Address: <u>701 South Jackson Street</u>		City: <u>Seattle</u>	State: <u>WA</u> Zip: <u>98104</u>
City: <u>Seattle</u>		Phone: <u>206-915-9702</u>	
Phone: <u>206-915-9702</u>		Email: <u>robertt@housingdiversity.com</u>	
III. CERTIFIED SITE ASSESSOR			
Service Provider Name: <u>Robert Trahan</u>		Company Name: <u>GeoEngineers</u>	
Cell Phone: <u>206.240.2300</u> Email: <u>rtrahan@geoengineers.com</u>		Address: <u>2101 4th Avenue</u>	
Certification #: <u>5242654</u>	Exp. Date: <u>Aug 2024</u>	City: <u>Seattle</u>	State: <u>WA</u> Zip: <u>98121</u>
IV. TANK INFORMATION			
TANK ID	TANK CAPACITY	LAST SUBSTANCE STORED	DATE SITE CHECK OR ASSESSMENT CONDUCTED
<u>T2</u>	<u>4,000 gallon</u>	<u>Gasoline</u>	<u>8/8/2023</u>
<u>T3</u>	<u>1,100 gallon</u>	<u>Waste Oil</u>	<u>8/8/2023</u>
<u>T4</u>	<u>1,100 gallon</u>	<u>Waste Oil</u>	<u>8/8/2023</u>
V. REASON FOR CONDUCTING SITE CHECK/SITE ASSESSMENT (check one)			
<input checked="" type="checkbox"/> Release investigation following permanent UST system closure (i.e. tank removal or closure-in-place).			
<input type="checkbox"/> Release investigation following a failed tank and/or line tightness test.			
<input type="checkbox"/> Release investigation following discovery of contaminated soil and/or groundwater.			
<input type="checkbox"/> Release investigation directed by Ecology to determine if the UST system is the source of offsite impacts.			
<input type="checkbox"/> UST system is undergoing a "change-in-service", which is changing from storing a regulated substance (e.g. gasoline) to storing a non-regulated substance (e.g. water).			
<input type="checkbox"/> Directed by Ecology for UST system permanently closed or abandoned before 12/22/1988.			
<input type="checkbox"/> Other (describe):			

VI. CHECKLIST

**The site assessor must check each of the following items and include it in the report.
Sections referenced below can be found in the Ecology publication
*Guidance for Site Checks and Site Assessments for Underground Storage Tanks.***

	YES	NO
1. The location of the UST site is shown on a vicinity map.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. A brief summary of information obtained during the site inspection is provided (Section 3.2)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. A summary of UST system data is provided (Section 3.1)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4. The soils characteristics at the UST site are described. (Section 5.2)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5. Is there any apparent groundwater in the tank excavation?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6. A brief description of the surrounding land use is provided. (Section 3.1)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7. The name and address of the laboratory used to perform analyses is provided. The methods used to collect and analyze the samples, including the number and types of samples collected, are also documented in the report. The data from the laboratory is appended to the report.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8. The following items are provided in one or more sketches:		
• Location and ID number for all field samples collected	<input checked="" type="checkbox"/>	<input type="checkbox"/>
• If applicable, groundwater samples are distinguished from soil samples	<input type="checkbox"/>	<input type="checkbox"/>
• Location of samples collected from stockpiled excavated soil	<input type="checkbox"/>	<input type="checkbox"/>
• Tank and piping locations and limits of excavation pit	<input checked="" type="checkbox"/>	<input type="checkbox"/>
• Adjacent structures and streets	<input checked="" type="checkbox"/>	<input type="checkbox"/>
• Approximate locations of any on-site and nearby utilities	<input checked="" type="checkbox"/>	<input type="checkbox"/>
9. If sampling procedures are different from those specified in the guidance, has justification for using these alternative sampling procedures been provided? (Section 3.4)	<input type="checkbox"/>	<input type="checkbox"/>
10. A table is provided showing laboratory results for each sample collected including; sample ID number, constituents analyzed for and corresponding concentration, analytical method, and detection limit for that method. Any sample exceeding MTCA Method A cleanup standards are highlighted or bolded.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
11. Any factors that may have compromised the quality of the data or validity of the results are described.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
12. The results of this site check/site assessment indicate that a confirmed release of a regulated substance has occurred. The requirements for reporting confirmed releases can be found in WAC 173-360-372.	<input checked="" type="checkbox"/>	<input type="checkbox"/>

n/a

n/a

n/a

VII. REQUIRED SIGNATURES

Signature acknowledges the Site Check or Site Assessment complies with UST regulations WAC 173-360A-0730 through 0750.

Robert Trahan

Signature of Certified Site Assessor

8/8/2023

Date

SITE CHECK/SITE ASSESSMENT CHECKLIST

FOR UNDERGROUND STORAGE TANKS

INSTRUCTIONS

This checklist must accompany the results of a Site Check Report, which is performed if a release of petroleum or other regulated substance is suspected. It is also required to accompany a Site Assessment Report, which is required following the permanent closure or “change-in-service” of an underground storage tank system. This form is required to be filled out whether or not contamination is found. This checklist is to be completed by the Site Assessor and submitted **within thirty days of completing** these activities to the following address:

Dept. of Ecology
UST Section
PO Box 47655
Olympia, WA 98504-7655

- I./II. UST Facility and Owner/Operator Information:** Fill out these sections completely. If you do not know your UST ID number, include the facility compliance tag number.
- III. Service Provider Information:** It is the responsibility of the ICC-certified Site Assessor to ensure that sampling and documentation procedures are completed in accordance with Ecology’s *Guidance for Site Checks and Site Assessment for Underground Storage Tanks*.
- IV. Tank Information:** Use the same Tank identification numbers listed on the facility’s Business License which is based on the most recent UST Addendum on file with Ecology. List the last substance stored in each tank, the tank sizes and the date the site check or site assessment was completed.
- V. Required Signature:** The Site Assessor signature certifies these procedures were followed.

All confirmed releases must be reported to Ecology by the owner within 24 hours and by service providers within 72 hours of discovery. A Site Characterization Report must be submitted to Ecology within 90 days after confirming a release.

Further questions? Please contact your regional office below and ask for a tank inspector to assist you.

Regional Office	Counties Served
Central (509) 575-2490	Benton, Chelan, Douglas, Kittitas, Klickitat, Okanogan, Yakima
Eastern (509) 329-3400	Adams, Asotin, Columbia, Ferry, Franklin, Garfield, Grant, Lincoln, Pend Oreille, Spokane, Stevens, Walla Walla, Whitman
HQ (360) 407-7170	Federal facilities in Western Washington
Northwest (425) 649-7000	Island, King, Kitsap, San Juan, Skagit, Snohomish, Whatcom
Southwest (360) 407-6300	Clallam, Clark, Cowlitz, Grays Harbor, Jefferson, Lewis, Mason, Pacific, Pierce, Skamania, Thurston, Wahkiakum

or find a complete list of UST inspectors at:
www.ecy.wa.gov/programs/tcp/ust-lust/people.html

APPENDIX C

Field Methods

APPENDIX C FIELD PROGRAM

Sample Collection and Handling

Soil samples from Seventh Avenue Service Site (Site) located at 701 South Jackson Street, Seattle, Washington, were obtained using a clean nitrile-gloved hand and placed in a 4- or 8-oz. laboratory-prepared jar filled to minimize headspace. Gloves were changed between samples to prevent cross-contamination. United States Environmental Protection Agency (EPA) Method 5035 was used to obtain soil samples for chemical analysis of volatile organic compounds. The samples were placed in an iced cooler pending transport to the analytical laboratory.

Each sample that was submitted for analysis was identified by a unique sample designation that corresponded to its mapped sample location and elevation. Standard chain-of-custody procedures were followed in transporting the samples to the laboratory.

Field Screening of Soil Samples

A representative from our staff performed field screening of soil samples obtained from the excavation. Field screening results are used as a general guideline to delineate areas with possible petroleum hydrocarbon concentrations. In addition, screening results are used to aid in the selection of soil samples for chemical analysis. The screening methods used include: (1) visual screening; (2) water sheen screening; and (3) headspace vapor screening.

Visual screening consists of inspecting the soil for stains indicative of petroleum hydrocarbons. Visual screening is generally more effective when hydrocarbons are heavier, such as motor oil, or when hydrocarbon concentrations are high. Water sheen screening and headspace vapor screening are more sensitive methods that have been effective in detecting contamination at concentrations less than regulatory cleanup levels. However, field screening results are site-specific. The effectiveness of field screening varies with temperature, moisture content, organic content, soil type and age of contaminant. The presence or absence of a sheen or headspace vapors does not necessarily indicate the presence or absence of petroleum hydrocarbons.

Water sheen screening involves placing soil in water and observing the water surface for signs of sheen. Sheen screening may detect both volatile and nonvolatile petroleum hydrocarbons. Sheen classifications are as follows:

No Sheen (NS)	No visible sheen on water surface.
Slight Sheen (SS)	Light, colorless, dull sheen; spread is irregular, not rapid; sheen dissipates rapidly. Natural organic matter in the soil may produce a slight sheen.
Moderate Sheen (MS)	Light to heavy sheen; may have some color/iridescence; spread is irregular to flowing, may be rapid; few remaining areas of no sheen on water surface.
Heavy Sheen (HS)	Heavy sheen with color/iridescence; spread is rapid; entire water surface may be covered with sheen.

Headspace vapor screening may identify volatile petroleum hydrocarbon compounds and involves placing a soil sample in a plastic sample bag. Air is captured in the bag, and the bag is shaken to expose the soil to the air trapped in the bag. The probe of a photoionization detector (PID) is inserted into the bag, and the PID then measures the concentration of volatile organic vapors present within the sample bag headspace. The PID measures photoionizable vapor concentrations in parts per million (ppm) and is calibrated to isobutylene. The PID is designed to quantify concentrations up to 15,000 ppm. A lower threshold of significance of 1 ppm was used in this application.

APPENDIX D
Chemical Analytical Program

APPENDIX D CHEMICAL ANALYTICAL PROGRAM

Analytical Methods

Chain-of-custody procedures were followed during the transport of the field samples to the analytical laboratory. The samples were held in cold storage pending extraction and/or analysis. The analytical results, analytical methods reference and laboratory quality control records are included in this appendix. The analytical results are also summarized in the text and tables of this report.

Analytical Data Review

The laboratory maintains an internal quality assurance program as documented in its laboratory quality assurance manual. The laboratory uses a combination of blanks, surrogate recoveries, duplicates, matrix spike recoveries, matrix spike duplicate recoveries, blank spike recoveries and blank spike duplicate recoveries to evaluate the validity of the analytical results. The laboratory also uses data quality goals for individual chemicals or groups of chemicals based on the long-term performance of the test methods. The data quality goals were included in the laboratory reports. The laboratory compared each group of samples with the existing data quality goals and no exceptions were noted in the laboratory report.

Analytical Data Review Summary

No data quality issues were identified, and no data qualification was necessary.



3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

GeoEngineers

Robert Trahan
2101 4th Ave, Suite 950
Seattle, WA 98121

**RE: S Jackson Street
Work Order Number: 2306502**

July 05, 2023

Attention Robert Trahan:

Fremont Analytical, Inc. received 1 sample(s) on 6/29/2023 for the analyses presented in the following report.

Hydrocarbon Identification by NWTPH-HCID

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager

*DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.3 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910*

Original



Date: 07/05/2023

CLIENT: GeoEngineers
Project: S Jackson Street
Work Order: 2306502

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2306502-001	UST-230629	06/29/2023 7:30 AM	06/29/2023 11:55 AM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

Original

CLIENT: GeoEngineers
Project: S Jackson Street

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Analytical Report

Work Order: **2306502**
 Date Reported: **7/5/2023**

Client: GeoEngineers
Project: S Jackson Street
Lab ID: 2306502-001
Client Sample ID: UST-230629

Collection Date: 6/29/2023 7:30:00 AM
Matrix: Product

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Hydrocarbon Identification by NWTPH-HCID

Batch ID: 40797 Analyst: AP

Gasoline	ND	566		mg/Kg	1	6/30/2023 4:50:04 PM
Mineral Spirits	ND	943		mg/Kg	1	6/30/2023 4:50:04 PM
Kerosene	ND	943		mg/Kg	1	6/30/2023 4:50:04 PM
Diesel (Fuel Oil)	DETECT	943		mg/Kg	1	6/30/2023 4:50:04 PM
Heavy Oil	ND	1,890		mg/Kg	1	6/30/2023 4:50:04 PM
Mineral Oil	ND	1,890		mg/Kg	1	6/30/2023 4:50:04 PM
Surr: 2-Fluorobiphenyl	69.9	50 - 150		%Rec	1	6/30/2023 4:50:04 PM
Surr: o-Terphenyl	76.0	50 - 150		%Rec	1	6/30/2023 4:50:04 PM

Work Order: 2306502
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT
Hydrocarbon Identification by NWTPH-HCID

Sample ID: MB-40797	SampType: MBLK	Units: mg/Kg		Prep Date: 6/29/2023	RunNo: 85090						
Client ID: MBLKS	Batch ID: 40797			Analysis Date: 6/30/2023	SeqNo: 1776250						
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline	ND	30.0									
Mineral Spirits	ND	50.0									
Kerosene	ND	50.0									
Diesel (Fuel Oil)	ND	50.0									
Heavy Oil	ND	100									
Mineral Oil	ND	100									
Surr: 2-Fluorobiphenyl	8.53		10.00		85.3	50	150				
Surr: o-Terphenyl	8.44		10.00		84.4	50	150				

Sample ID: LCS-40797	SampType: LCS	Units: mg/Kg		Prep Date: 6/29/2023	RunNo: 85090						
Client ID: LCSS	Batch ID: 40797			Analysis Date: 6/30/2023	SeqNo: 1776251						
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Petroleum Hydrocarbons	458	50.0	500.0	0	91.6	74.5	125				
Surr: 2-Fluorobiphenyl	8.12		10.00		81.2	50	150				
Surr: o-Terphenyl	10.7		10.00		107	50	150				

Client Name: GEI	Work Order Number: 2306502
Logged by: Morgan Wilson	Date Received: 6/29/2023 11:55:00 AM

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
2. How was the sample delivered? Client

Log In

3. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes No Not Present
4. Was an attempt made to cool the samples? Yes No NA
5. Were all items received at a temperature of >2°C to 6°C * Unknown prior to receipt. Yes No NA
6. Sample(s) in proper container(s)? Yes No
7. Sufficient sample volume for indicated test(s)? Yes No
8. Are samples properly preserved? Yes No
9. Was preservative added to bottles? Yes No NA
10. Is there headspace in the VOA vials? Yes No NA
11. Did all samples containers arrive in good condition(unbroken)? Yes No
12. Does paperwork match bottle labels? Yes No
13. Are matrices correctly identified on Chain of Custody? Yes No
14. Is it clear what analyses were requested? Yes No
15. Were all holding times able to be met? Yes No

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

17. Additional remarks:

Item Information

Item #	Temp °C
Sample	20.6

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C



Fremont
Analytical

3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790

Chain of Custody Record & Laboratory Services Agreement

Date: 6/29/23 Page: 1 of: 1
Project Name: S Jackson Street

Laboratory Project No (Internal): 2306502

Client: GeoEngineers

Project No: 24504-001-01

Special Remarks:

Address: 2101 4th Ave Ste 950

Collected by: Paul Robinette

City, State, Zip: Seattle, WA 98121

Location: Seattle, WA

Telephone: 425.861.2674

Report To (PM): Robert Trahan

Disposal: Samples will be disposed in 30 days unless otherwise requested
 Retain volume (specify above) Return to client

Email(s): rtrahan@geoengineers.com

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	# of Cont.	VOCS (EPA 8260 / 624)	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HClD)	Diesel/Heavy Oil Range Organics (DX)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T) Dissolved (D)	Anions (IC)**	EDB (801)	Comments
1 VST-230629	6/29/23	0730	P	1													X
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water
 **Metals (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Tl Ti V Zn
 ***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite

Turn-around Time:
 3 Day Next Day
 2 Day Same Day (specify)

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished (Signature) [Signature] Print Name Paul Robinette Date/Time 6/29/23 Received (Signature) [Signature] Print Name Stephen Kofler Date/Time 6/29/23
 Relinquished (Signature) [Signature] Print Name Paul Robinette Date/Time 6/29/23 Received (Signature) [Signature] Print Name Stephen Kofler Date/Time 6/29/23



3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

GeoEngineers

Robert Trahan
2101 4th Ave, Suite 950
Seattle, WA 98121

RE: S Jackson Street
Work Order Number: 2307040

July 14, 2023

Attention Robert Trahan:

Fremont Analytical, Inc. received 5 sample(s) on 7/6/2023 for the analyses presented in the following report.

Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.
Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)
Sample Moisture (Percent Moisture)
Volatile Organic Compounds by EPA Method 8260D

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager

DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.3 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910

Original



Date: 07/14/2023

CLIENT: GeoEngineers
Project: S Jackson Street
Work Order: 2307040

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2307040-001	UST-N-86	07/06/2023 1:10 PM	07/06/2023 2:26 PM
2307040-002	UST-S-86	07/06/2023 1:25 PM	07/06/2023 2:26 PM
2307040-003	UST-E-86	07/06/2023 1:15 PM	07/06/2023 2:26 PM
2307040-004	UST-W-86	07/06/2023 1:20 PM	07/06/2023 2:26 PM
2307040-005	UST-B-83	07/06/2023 1:30 PM	07/06/2023 2:26 PM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: GeoEngineers
Project: S Jackson Street

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Analytical Report

Work Order: 2307040
Date Reported: 7/14/2023

Client: GeoEngineers
Project: S Jackson Street
Lab ID: 2307040-001
Client Sample ID: UST-N-86

Collection Date: 7/6/2023 1:10:00 PM
Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Batch ID: 40883 Analyst: AP

Diesel Range Organics	94.7	56.7		mg/Kg-dry	1	7/12/2023 3:21:34 PM
Heavy Oil	6,910	113		mg/Kg-dry	1	7/12/2023 3:21:34 PM
Total Petroleum Hydrocarbons	7,000	170		mg/Kg-dry	1	7/12/2023 3:21:34 PM
Surr: 2-Fluorobiphenyl	105	50 - 150		%Rec	1	7/12/2023 3:21:34 PM
Surr: o-Terphenyl	115	50 - 150		%Rec	1	7/12/2023 3:21:34 PM

NOTES:

Chromatographic pattern indicates the presence of two overlapping products, divided into diesel and oil ranges

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Batch ID: 40884 Analyst: SH

Naphthalene	ND	23.0		µg/Kg-dry	1	7/12/2023 4:51:33 PM
2-Methylnaphthalene	ND	23.0		µg/Kg-dry	1	7/12/2023 4:51:33 PM
1-Methylnaphthalene	ND	23.0		µg/Kg-dry	1	7/12/2023 4:51:33 PM
Benz(a)anthracene	ND	23.0		µg/Kg-dry	1	7/12/2023 4:51:33 PM
Chrysene	ND	23.0		µg/Kg-dry	1	7/12/2023 4:51:33 PM
Benzo(b)fluoranthene	ND	28.7		µg/Kg-dry	1	7/12/2023 4:51:33 PM
Benzo(k)fluoranthene	ND	28.7		µg/Kg-dry	1	7/12/2023 4:51:33 PM
Benzo(a)pyrene	ND	34.4		µg/Kg-dry	1	7/12/2023 4:51:33 PM
Indeno(1,2,3-cd)pyrene	ND	45.9		µg/Kg-dry	1	7/12/2023 4:51:33 PM
Dibenz(a,h)anthracene	ND	57.4		µg/Kg-dry	1	7/12/2023 4:51:33 PM
Surr: 2-Fluorobiphenyl	88.4	22.2 - 146		%Rec	1	7/12/2023 4:51:33 PM
Surr: Terphenyl-d14 (surr)	112	20.2 - 159		%Rec	1	7/12/2023 4:51:33 PM

Volatile Organic Compounds by EPA Method 8260D

Batch ID: 40900 Analyst: KJ

Benzene	ND	0.0173		mg/Kg-dry	1	7/13/2023 3:56:46 PM
Toluene	ND	0.0297		mg/Kg-dry	1	7/13/2023 3:56:46 PM
Ethylbenzene	ND	0.0247		mg/Kg-dry	1	7/13/2023 3:56:46 PM
m,p-Xylene	ND	0.0494		mg/Kg-dry	1	7/13/2023 3:56:46 PM
o-Xylene	ND	0.0247		mg/Kg-dry	1	7/13/2023 3:56:46 PM
Surr: Dibromofluoromethane	109	79.5 - 124		%Rec	1	7/13/2023 3:56:46 PM
Surr: Toluene-d8	105	77.5 - 124		%Rec	1	7/13/2023 3:56:46 PM
Surr: 1-Bromo-4-fluorobenzene	97.7	60.5 - 139		%Rec	1	7/13/2023 3:56:46 PM

Sample Moisture (Percent Moisture)

Batch ID: R85231 Analyst: MP

Percent Moisture	14.2	0.500		wt%	1	7/12/2023 8:19:45 AM
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Analytical Report

Work Order: 2307040
Date Reported: 7/14/2023

Client: GeoEngineers
Project: S Jackson Street
Lab ID: 2307040-003
Client Sample ID: UST-E-86

Collection Date: 7/6/2023 1:15:00 PM
Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Batch ID: 40883 Analyst: AP

Diesel Range Organics	ND	62.6		mg/Kg-dry	1	7/12/2023 3:10:40 PM
Heavy Oil	ND	125		mg/Kg-dry	1	7/12/2023 3:10:40 PM
Total Petroleum Hydrocarbons	ND	188		mg/Kg-dry	1	7/12/2023 3:10:40 PM
Surr: 2-Fluorobiphenyl	107	50 - 150		%Rec	1	7/12/2023 3:10:40 PM
Surr: o-Terphenyl	113	50 - 150		%Rec	1	7/12/2023 3:10:40 PM

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Batch ID: 40884 Analyst: SH

Naphthalene	ND	25.5		µg/Kg-dry	1	7/12/2023 5:20:02 PM
2-Methylnaphthalene	ND	25.5		µg/Kg-dry	1	7/12/2023 5:20:02 PM
1-Methylnaphthalene	ND	25.5		µg/Kg-dry	1	7/12/2023 5:20:02 PM
Benz(a)anthracene	ND	25.5		µg/Kg-dry	1	7/12/2023 5:20:02 PM
Chrysene	ND	25.5		µg/Kg-dry	1	7/12/2023 5:20:02 PM
Benzo(b)fluoranthene	ND	31.9		µg/Kg-dry	1	7/12/2023 5:20:02 PM
Benzo(k)fluoranthene	ND	31.9		µg/Kg-dry	1	7/12/2023 5:20:02 PM
Benzo(a)pyrene	ND	38.2		µg/Kg-dry	1	7/12/2023 5:20:02 PM
Indeno(1,2,3-cd)pyrene	ND	51.0		µg/Kg-dry	1	7/12/2023 5:20:02 PM
Dibenz(a,h)anthracene	ND	63.7		µg/Kg-dry	1	7/12/2023 5:20:02 PM
Surr: 2-Fluorobiphenyl	87.8	22.2 - 146		%Rec	1	7/12/2023 5:20:02 PM
Surr: Terphenyl-d14 (surr)	111	20.2 - 159		%Rec	1	7/12/2023 5:20:02 PM

Volatile Organic Compounds by EPA Method 8260D

Batch ID: 40900 Analyst: KJ

Benzene	ND	0.0196		mg/Kg-dry	1	7/13/2023 2:56:31 PM
Toluene	ND	0.0336		mg/Kg-dry	1	7/13/2023 2:56:31 PM
Ethylbenzene	ND	0.0280		mg/Kg-dry	1	7/13/2023 2:56:31 PM
m,p-Xylene	ND	0.0560		mg/Kg-dry	1	7/13/2023 2:56:31 PM
o-Xylene	ND	0.0280		mg/Kg-dry	1	7/13/2023 2:56:31 PM
Surr: Dibromofluoromethane	97.7	79.5 - 124		%Rec	1	7/13/2023 2:56:31 PM
Surr: Toluene-d8	104	77.5 - 124		%Rec	1	7/13/2023 2:56:31 PM
Surr: 1-Bromo-4-fluorobenzene	99.8	60.5 - 139		%Rec	1	7/13/2023 2:56:31 PM

Sample Moisture (Percent Moisture)

Batch ID: R85231 Analyst: MP

Percent Moisture	24.8	0.500		wt%	1	7/12/2023 8:19:45 AM
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Analytical Report

Work Order: 2307040
Date Reported: 7/14/2023

Client: GeoEngineers
Project: S Jackson Street
Lab ID: 2307040-005
Client Sample ID: UST-B-83

Collection Date: 7/6/2023 1:30:00 PM
Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Batch ID: 40883 Analyst: AP

Diesel Range Organics	ND	50.2		mg/Kg-dry	1	7/12/2023 3:43:39 PM
Heavy Oil	2,900	100		mg/Kg-dry	1	7/12/2023 3:43:39 PM
Total Petroleum Hydrocarbons	2,900	151		mg/Kg-dry	1	7/12/2023 3:43:39 PM
Surr: 2-Fluorobiphenyl	135	50 - 150		%Rec	1	7/12/2023 3:43:39 PM
Surr: o-Terphenyl	146	50 - 150		%Rec	1	7/12/2023 3:43:39 PM

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Batch ID: 40884 Analyst: SH

Naphthalene	ND	20.2		µg/Kg-dry	1	7/12/2023 5:48:22 PM
2-Methylnaphthalene	38.4	20.2		µg/Kg-dry	1	7/12/2023 5:48:22 PM
1-Methylnaphthalene	26.2	20.2		µg/Kg-dry	1	7/12/2023 5:48:22 PM
Benz(a)anthracene	ND	20.2		µg/Kg-dry	1	7/12/2023 5:48:22 PM
Chrysene	ND	20.2		µg/Kg-dry	1	7/12/2023 5:48:22 PM
Benzo(b)fluoranthene	ND	25.2		µg/Kg-dry	1	7/12/2023 5:48:22 PM
Benzo(k)fluoranthene	ND	25.2		µg/Kg-dry	1	7/12/2023 5:48:22 PM
Benzo(a)pyrene	ND	30.3		µg/Kg-dry	1	7/12/2023 5:48:22 PM
Indeno(1,2,3-cd)pyrene	ND	40.3		µg/Kg-dry	1	7/12/2023 5:48:22 PM
Dibenz(a,h)anthracene	ND	50.4		µg/Kg-dry	1	7/12/2023 5:48:22 PM
Surr: 2-Fluorobiphenyl	91.2	22.2 - 146		%Rec	1	7/12/2023 5:48:22 PM
Surr: Terphenyl-d14 (surr)	124	20.2 - 159		%Rec	1	7/12/2023 5:48:22 PM

Volatile Organic Compounds by EPA Method 8260D

Batch ID: 40900 Analyst: KJ

Benzene	ND	0.0200		mg/Kg-dry	1	7/13/2023 3:26:40 PM
Toluene	ND	0.0343		mg/Kg-dry	1	7/13/2023 3:26:40 PM
Ethylbenzene	ND	0.0286		mg/Kg-dry	1	7/13/2023 3:26:40 PM
m,p-Xylene	ND	0.0572		mg/Kg-dry	1	7/13/2023 3:26:40 PM
o-Xylene	ND	0.0286		mg/Kg-dry	1	7/13/2023 3:26:40 PM
Surr: Dibromofluoromethane	107	79.5 - 124		%Rec	1	7/13/2023 3:26:40 PM
Surr: Toluene-d8	103	77.5 - 124		%Rec	1	7/13/2023 3:26:40 PM
Surr: 1-Bromo-4-fluorobenzene	102	60.5 - 139		%Rec	1	7/13/2023 3:26:40 PM

Sample Moisture (Percent Moisture)

Batch ID: R85231 Analyst: MP

Percent Moisture	6.10	0.500		wt%	1	7/12/2023 8:19:45 AM
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Work Order: 2307040
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT

Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Sample ID: MB-40883		SampType: MBLK		Units: mg/Kg		Prep Date: 7/12/2023		RunNo: 85244			
Client ID: MBLKS		Batch ID: 40883				Analysis Date: 7/12/2023		SeqNo: 1778999			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics	ND	50.0									
Heavy Oil	ND	100									
Total Petroleum Hydrocarbons	ND	150									
Surr: 2-Fluorobiphenyl	11.2		10.00		112	50	150				
Surr: o-Terphenyl	11.9		10.00		119	50	150				

Sample ID: LCS-40883		SampType: LCS		Units: mg/Kg		Prep Date: 7/12/2023		RunNo: 85244			
Client ID: LCSS		Batch ID: 40883				Analysis Date: 7/12/2023		SeqNo: 1779000			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Petroleum Hydrocarbons	615	150	500.0	0	123	76.8	124				
Surr: 2-Fluorobiphenyl	12.5		10.00		125	50	150				
Surr: o-Terphenyl	14.5		10.00		145	50	150				

Sample ID: 2307109-001AMS		SampType: MS		Units: mg/Kg-dry		Prep Date: 7/12/2023		RunNo: 85244			
Client ID: BATCH		Batch ID: 40883				Analysis Date: 7/12/2023		SeqNo: 1779002			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Petroleum Hydrocarbons	574	166	553.7	0	104	21.8	165				
Surr: 2-Fluorobiphenyl	12.3		11.07		111	50	150				
Surr: o-Terphenyl	15.0		11.07		136	50	150				

Sample ID: 2307109-001AMSD		SampType: MSD		Units: mg/Kg-dry		Prep Date: 7/12/2023		RunNo: 85244			
Client ID: BATCH		Batch ID: 40883				Analysis Date: 7/12/2023		SeqNo: 1779003			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Petroleum Hydrocarbons	606	166	554.8	0	109	21.8	165	574.1	5.45	30	
Surr: 2-Fluorobiphenyl	12.0		11.10		108	50	150		0		
Surr: o-Terphenyl	15.3		11.10		138	50	150		0		

Work Order: 2307040
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT
Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Sample ID: 2307109-002ADUP	SampType: DUP	Units: mg/Kg-dry	Prep Date: 7/12/2023	RunNo: 85244							
Client ID: BATCH	Batch ID: 40883		Analysis Date: 7/12/2023	SeqNo: 1779005							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel Range Organics	ND	51.9						0		30	
Heavy Oil	ND	104						0		30	
Total Petroleum Hydrocarbons	ND	156						0		30	
Surr: 2-Fluorobiphenyl	10.8		10.37		104	50	150		0		
Surr: o-Terphenyl	11.7		10.37		113	50	150		0		

Work Order: 2307040
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Sample ID: MB-40884	SampType: MBLK	Units: µg/Kg	Prep Date: 7/12/2023	RunNo: 85290							
Client ID: MBLKS	Batch ID: 40884		Analysis Date: 7/12/2023	SeqNo: 1779723							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	ND	20.0									
2-Methylnaphthalene	ND	20.0									
1-Methylnaphthalene	ND	20.0									
Benz(a)anthracene	ND	20.0									
Chrysene	ND	20.0									
Benzo(b)fluoranthene	ND	25.0									
Benzo(k)fluoranthene	ND	25.0									
Benzo(a)pyrene	ND	30.0									
Indeno(1,2,3-cd)pyrene	ND	40.0									
Dibenz(a,h)anthracene	ND	50.0									
Surr: 2-Fluorobiphenyl	955		1,000		95.5	22.2	146				
Surr: Terphenyl-d14 (surr)	1,170		1,000		117	20.2	159				

Sample ID: LCS-40884	SampType: LCS	Units: µg/Kg	Prep Date: 7/12/2023	RunNo: 85290							
Client ID: LCSS	Batch ID: 40884		Analysis Date: 7/12/2023	SeqNo: 1779724							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	1,920	20.0	2,000	0	95.8	59.3	114				
2-Methylnaphthalene	1,790	20.0	2,000	0	89.6	55.5	115				
1-Methylnaphthalene	1,810	20.0	2,000	0	90.5	57.2	116				
Benz(a)anthracene	1,950	20.0	2,000	0	97.6	59.5	123				
Chrysene	1,910	20.0	2,000	0	95.3	51.5	115				
Benzo(b)fluoranthene	1,840	25.0	2,000	0	92.1	50	122				
Benzo(k)fluoranthene	1,950	25.0	2,000	0	97.4	51	117				
Benzo(a)pyrene	2,090	30.0	2,000	0	105	53.2	123				
Indeno(1,2,3-cd)pyrene	1,760	40.0	2,000	0	87.8	49.5	122				
Dibenz(a,h)anthracene	1,790	50.0	2,000	0	89.6	51	120				
Surr: 2-Fluorobiphenyl	1,010		1,000		101	22.2	146				
Surr: Terphenyl-d14 (surr)	1,190		1,000		119	20.2	159				

Work Order: 2307040
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Sample ID: 2307040-005AMS		SampType: MS		Units: µg/Kg-dry		Prep Date: 7/12/2023		RunNo: 85290			
Client ID: UST-B-83		Batch ID: 40884				Analysis Date: 7/12/2023		SeqNo: 1779728			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	1,970	20.2	2,025	9.828	96.8	44	114				
2-Methylnaphthalene	1,890	20.2	2,025	38.37	91.6	46.9	106				
1-Methylnaphthalene	1,890	20.2	2,025	26.25	92.2	47.3	109				
Benz(a)anthracene	2,320	20.2	2,025	8.793	114	41.7	126				
Chrysene	1,820	20.2	2,025	0	90.0	40.4	108				
Benzo(b)fluoranthene	2,020	25.3	2,025	0	99.6	30.9	124				
Benzo(k)fluoranthene	1,930	25.3	2,025	0	95.3	32.8	115				
Benzo(a)pyrene	2,180	30.4	2,025	0	108	25.9	129				
Indeno(1,2,3-cd)pyrene	1,730	40.5	2,025	0	85.2	14.3	126				
Dibenz(a,h)anthracene	1,730	50.6	2,025	0	85.3	18.6	121				
Surr: 2-Fluorobiphenyl	1,050		1,012		104	22.2	146				
Surr: Terphenyl-d14 (surr)	1,250		1,012		124	20.2	159				

Sample ID: 2307040-005AMSD		SampType: MSD		Units: µg/Kg-dry		Prep Date: 7/12/2023		RunNo: 85290			
Client ID: UST-B-83		Batch ID: 40884				Analysis Date: 7/12/2023		SeqNo: 1779729			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	2,020	20.2	2,025	9.828	99.4	44	114	1,969	2.68	30	
2-Methylnaphthalene	1,950	20.2	2,025	38.37	94.7	46.9	106	1,893	3.23	30	
1-Methylnaphthalene	1,950	20.2	2,025	26.25	94.8	47.3	109	1,893	2.73	30	
Benz(a)anthracene	2,340	20.2	2,025	8.793	115	41.7	126	2,321	0.849	30	
Chrysene	1,850	20.2	2,025	0	91.2	40.4	108	1,823	1.33	30	
Benzo(b)fluoranthene	2,080	25.3	2,025	0	102	30.9	124	2,016	2.91	30	
Benzo(k)fluoranthene	1,960	25.3	2,025	0	96.7	32.8	115	1,929	1.46	30	
Benzo(a)pyrene	2,240	30.4	2,025	0	110	25.9	129	2,185	2.34	30	
Indeno(1,2,3-cd)pyrene	1,720	40.5	2,025	0	84.9	14.3	126	1,726	0.372	30	
Dibenz(a,h)anthracene	1,740	50.6	2,025	0	85.7	18.6	121	1,727	0.492	30	
Surr: 2-Fluorobiphenyl	1,020		1,012		100	22.2	146		0		
Surr: Terphenyl-d14 (surr)	1,220		1,012		120	20.2	159		0		

Work Order: 2307040
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: LCS-40900		SampType: LCS		Units: µg/L		Prep Date: 7/13/2023		RunNo: 85295			
Client ID: LCSS		Batch ID: 40900				Analysis Date: 7/13/2023		SeqNo: 1779779			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	0.894	0.0175	1.000	0	89.4	80	120				
Toluene	0.975	0.0300	1.000	0	97.5	80	120				
Ethylbenzene	0.968	0.0250	1.000	0	96.8	80	120				
m,p-Xylene	1.95	0.0500	2.000	0	97.4	80	120				
o-Xylene	0.963	0.0250	1.000	0	96.3	80	120				
Surr: Dibromofluoromethane	1.33		1.250		106	79.5	124				
Surr: Toluene-d8	1.26		1.250		100	77.5	124				
Surr: 1-Bromo-4-fluorobenzene	1.23		1.250		98.6	60.5	139				

Sample ID: MB-40900		SampType: MBLK		Units: mg/Kg		Prep Date: 7/13/2023		RunNo: 85295			
Client ID: MBLKS		Batch ID: 40900				Analysis Date: 7/13/2023		SeqNo: 1779772			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.0175									
Toluene	ND	0.0300									
Ethylbenzene	ND	0.0250									
m,p-Xylene	ND	0.0500									
o-Xylene	ND	0.0250									
Surr: Dibromofluoromethane	1.25		1.250		99.7	79.5	124				
Surr: Toluene-d8	1.28		1.250		102	77.5	124				
Surr: 1-Bromo-4-fluorobenzene	1.16		1.250		92.9	60.5	139				

Sample ID: 2307139-002BDUP		SampType: DUP		Units: mg/Kg-dry		Prep Date: 7/13/2023		RunNo: 85295			
Client ID: BATCH		Batch ID: 40900				Analysis Date: 7/13/2023		SeqNo: 1779774			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.321						0		30	D
Toluene	ND	0.551						0		30	D
Ethylbenzene	ND	0.459						0		30	D
m,p-Xylene	ND	0.918						0		30	D
o-Xylene	ND	0.459						0		30	D

Work Order: 2307040
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: 2307139-002BDUP	SampType: DUP	Units: mg/Kg-dry	Prep Date: 7/13/2023	RunNo: 85295							
Client ID: BATCH	Batch ID: 40900	Analysis Date: 7/13/2023	SeqNo: 1779774								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	22.3		22.94		97.4	79.5	124		0		D
Surr: Toluene-d8	23.5		22.94		102	77.5	124		0		D
Surr: 1-Bromo-4-fluorobenzene	22.3		22.94		97.4	60.5	139		0		D

Sample ID: 2307040-003BMS	SampType: MS	Units: mg/Kg-dry	Prep Date: 7/13/2023	RunNo: 85295							
Client ID: UST-E-86	Batch ID: 40900	Analysis Date: 7/13/2023	SeqNo: 1779778								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	1.17	0.0196	1.121	0	104	52.3	147				
Toluene	1.05	0.0336	1.121	0	93.6	50.1	147				
Ethylbenzene	0.979	0.0280	1.121	0	87.4	51.7	143				
m,p-Xylene	1.97	0.0560	2.241	0	87.9	54.5	144				
o-Xylene	0.978	0.0280	1.121	0	87.3	57.1	141				
Surr: Dibromofluoromethane	1.46		1.401		104	79.5	124				
Surr: Toluene-d8	1.46		1.401		104	77.5	124				
Surr: 1-Bromo-4-fluorobenzene	1.37		1.401		98.0	60.5	139				

Client Name: GEI	Work Order Number: 2307040
Logged by: Morgan Wilson	Date Received: 7/6/2023 2:26:00 PM

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
2. How was the sample delivered? Client

Log In

3. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes No Not Present
4. Was an attempt made to cool the samples? Yes No NA
5. Were all items received at a temperature of >2°C to 6°C * Unknown prior to receipt. Yes No NA
6. Sample(s) in proper container(s)? Yes No
7. Sufficient sample volume for indicated test(s)? Yes No
8. Are samples properly preserved? Yes No
9. Was preservative added to bottles? Yes No NA
10. Is there headspace in the VOA vials? Yes No NA
11. Did all samples containers arrive in good condition(unbroken)? Yes No
12. Does paperwork match bottle labels? Yes No
13. Are matrices correctly identified on Chain of Custody? Yes No
14. Is it clear what analyses were requested? Yes No
15. Were all holding times able to be met? Yes No

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

17. Additional remarks:

Item Information

Item #	Temp °C
Sample	26.6

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C



3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

GeoEngineers

Robert Trahan
2101 4th Ave, Suite 950
Seattle, WA 98121

RE: S Jackson Street
Work Order Number: 2308021

August 11, 2023

Attention Robert Trahan:

Fremont Analytical, Inc. received 1 sample(s) on 8/2/2023 for the analyses presented in the following report.

Gasoline by NWTPH-Gx
Hydrocarbon Identification by NWTPH-HCID
Volatile Organic Compounds by EPA Method 8260D

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager

DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.3 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910

Revision v1

www.fremontanalytical.com



Date: 08/11/2023

CLIENT: GeoEngineers
Project: S Jackson Street
Work Order: 2308021

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2308021-001	UST-2-230802	08/02/2023 10:40 AM	08/02/2023 11:19 AM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: GeoEngineers
Project: S Jackson Street

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

8/11/23 - Revision 1 includes an updated client Sample ID and additional analyses per client request.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Analytical Report

Work Order: 2308021
Date Reported: 8/11/2023

Client: GeoEngineers
Project: S Jackson Street
Lab ID: 2308021-001
Client Sample ID: UST-2-230802

Collection Date: 8/2/2023 10:40:00 AM
Matrix: Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Hydrocarbon Identification by NWTPH-HCID

Batch ID: 41123 Analyst: AP

Gasoline	ND	2,410		µg/L	1	8/9/2023 12:31:26 PM
Gasoline Range Organics	DETECT	2,410			1	8/9/2023 12:31:26 PM
Mineral Spirits	ND	2,410		µg/L	1	8/9/2023 12:31:26 PM
Kerosene	ND	2,410		µg/L	1	8/9/2023 12:31:26 PM
Diesel (Fuel Oil)	NON-DETECT	2,410		µg/L	1	8/9/2023 12:31:26 PM
Diesel Range Organics (C12-C24)	DETECT	2,410		µg/L	1	8/9/2023 12:31:26 PM
Heavy Oil	ND	4,810		µg/L	1	8/9/2023 12:31:26 PM
Mineral Oil	ND	4,810		µg/L	1	8/9/2023 12:31:26 PM
Surr: 2-Fluorobiphenyl	182	50 - 150	S	%Rec	1	8/9/2023 12:31:26 PM
Surr: o-Terphenyl	91.8	50 - 150		%Rec	1	8/9/2023 12:31:26 PM

NOTES:

S - Outlying surrogate recovery attributed to TPH interference.

Gasoline by NWTPH-Gx

Batch ID: 41056 Analyst: KJ

Gasoline Range Organics	128,000	10,000	D	µg/L	200	8/3/2023 11:44:19 AM
Surr: Toluene-d8	97.6	65 - 135	D	%Rec	200	8/3/2023 11:44:19 AM
Surr: 4-Bromofluorobenzene	104	65 - 135	D	%Rec	200	8/3/2023 11:44:19 AM

Volatile Organic Compounds by EPA Method 8260D

Batch ID: 41056 Analyst: KJ

Benzene	14,100	440	D	µg/L	1000	8/3/2023 11:14:07 AM
Toluene	13,400	1,000	D	µg/L	1000	8/3/2023 11:14:07 AM
Ethylbenzene	993	40.0	D	µg/L	100	8/3/2023 9:46:01 AM
m,p-Xylene	3,810	100	D	µg/L	100	8/3/2023 9:46:01 AM
o-Xylene	1,680	50.0	D	µg/L	100	8/3/2023 9:46:01 AM
Surr: Dibromofluoromethane	124	80 - 120	DS	%Rec	100	8/3/2023 9:46:01 AM
Surr: Toluene-d8	109	80 - 120	D	%Rec	100	8/3/2023 9:46:01 AM
Surr: 1-Bromo-4-fluorobenzene	106	80 - 120	D	%Rec	100	8/3/2023 9:46:01 AM

NOTES:

S - Outlying surrogate recovery(ies) observed (high bias). Outlying surrogate is not associated with reported analytes.

Work Order: 2308021
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT
Hydrocarbon Identification by NWTPH-HCID

Sample ID: DX-CCV-41152A	SampType: CCV	Units: µg/L				Prep Date: 8/8/2023	RunNo: 85849				
Client ID: CCV	Batch ID: 41123					Analysis Date: 8/8/2023	SeqNo: 1791502				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel (Fuel Oil)	477	250	500.0	0	95.3	80	120				
Surr: 2-Fluorobiphenyl	9.86		10.00		98.6	50	150				
Surr: o-Terphenyl	12.6		10.00		126	50	150				

Sample ID: MB-41123	SampType: MBLK	Units: µg/L				Prep Date: 8/7/2023	RunNo: 85849				
Client ID: MBLKW	Batch ID: 41123					Analysis Date: 8/8/2023	SeqNo: 1791503				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline	ND	238									
Mineral Spirits	ND	238									
Kerosene	ND	238									
Diesel (Fuel Oil)	ND	238									
Heavy Oil	ND	476									
Mineral Oil	ND	476									
Surr: 2-Fluorobiphenyl	20.0		23.78		84.1	50	150				
Surr: o-Terphenyl	21.2		23.78		89.3	50	150				

Sample ID: LCS-41123	SampType: LCS	Units: µg/L				Prep Date: 8/7/2023	RunNo: 85849				
Client ID: LCSW	Batch ID: 41123					Analysis Date: 8/8/2023	SeqNo: 1791504				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Petroleum Hydrocarbons	878	234	1,171	0	75.0	45.7	115				
Surr: 2-Fluorobiphenyl	19.8		23.41		84.6	50	150				
Surr: o-Terphenyl	21.6		23.41		92.3	50	150				

Sample ID: LCS-41123	SampType: LCS	Units: µg/L				Prep Date: 8/7/2023	RunNo: 85849				
Client ID: LCSW02	Batch ID: 41123					Analysis Date: 8/8/2023	SeqNo: 1791505				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Petroleum Hydrocarbons	960	235	1,173	0	81.9	45.7	115	878.4	8.87	30	

Work Order: 2308021
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT

Hydrocarbon Identification by NWTPH-HCID

Sample ID: LCS D-41123	SampType: LCS D	Units: µg/L	Prep Date: 8/7/2023	RunNo: 85849							
Client ID: LCS W02	Batch ID: 41123		Analysis Date: 8/8/2023	SeqNo: 1791505							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Surr: 2-Fluorobiphenyl	23.2		23.45		99.1	50	150		0	
Surr: o-Terphenyl	27.0		23.45		115	50	150		0	

Sample ID: DX-CCV-41152C	SampType: CCV	Units: µg/L	Prep Date: 8/9/2023	RunNo: 85849							
Client ID: CCV	Batch ID: 41123		Analysis Date: 8/9/2023	SeqNo: 1791509							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel (Fuel Oil)	470	250	500.0	0	94.0	80	120			
Surr: 2-Fluorobiphenyl	10.9		10.00		109	50	150			
Surr: o-Terphenyl	12.5		10.00		125	50	150			

Sample ID: DX-CCV-41152D	SampType: CCV	Units: µg/L	Prep Date: 8/9/2023	RunNo: 85849							
Client ID: CCV	Batch ID: 41123		Analysis Date: 8/9/2023	SeqNo: 1791512							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel (Fuel Oil)	480	250	500.0	0	96.0	80	120			
Surr: 2-Fluorobiphenyl	11.1		10.00		111	50	150			
Surr: o-Terphenyl	12.8		10.00		128	50	150			

Work Order: 2308021
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT
Gasoline by NWTPH-Gx

Sample ID: GX 85465 MIDPOINT	SampType: CCV	Units: µg/L	Prep Date: 7/22/2023	RunNo: 85697							
Client ID: CCV	Batch ID: R85697	Analysis Date: 7/22/2023	SeqNo: 1788173								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	522	50.0	500.0	0	104	80	120				
Surr: Toluene-d8	25.2		25.00		101	65	135				
Surr: 4-Bromofluorobenzene	24.8		25.00		99.4	65	135				

Sample ID: GX ICB	SampType: ICB	Units: µg/L	Prep Date: 7/22/2023	RunNo: 85465							
Client ID: ICB	Batch ID: R85465	Analysis Date: 7/22/2023	SeqNo: 1783152								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	ND	50.0									
Surr: Toluene-d8	24.5		25.00		97.9	65	135				
Surr: 4-Bromofluorobenzene	25.0		25.00		100	65	135				

Sample ID: GX ICV	SampType: ICV	Units: µg/L	Prep Date: 7/22/2023	RunNo: 85465							
Client ID: ICV	Batch ID: R85465	Analysis Date: 7/22/2023	SeqNo: 1783153								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	617	50.0	500.0	0	123	70	130				
Surr: Toluene-d8	25.0		25.00		100	65	135				
Surr: 4-Bromofluorobenzene	25.0		25.00		100	65	135				

Sample ID: LCS-41056	SampType: CCV	Units: µg/L	Prep Date: 8/2/2023	RunNo: 85697							
Client ID: CCV	Batch ID: 41056	Analysis Date: 8/2/2023	SeqNo: 1788174								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	457	50.0	500.0	0	91.4	80	120				
Surr: Toluene-d8	24.6		25.00		98.4	65	135				
Surr: 4-Bromofluorobenzene	25.2		25.00		101	65	135				

Work Order: 2308021
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT
Gasoline by NWTPH-Gx

Sample ID: GX-CCV-85697A	SampType: CCV	Units: µg/L	Prep Date: 8/2/2023	RunNo: 85697							
Client ID: CCV	Batch ID: R85697	Analysis Date: 8/2/2023	SeqNo: 1788171								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	457	50.0	500.0	0	91.4	80	120				
Surr: Toluene-d8	24.6		25.00		98.4	65	135				
Surr: 4-Bromofluorobenzene	25.2		25.00		101	65	135				

Sample ID: MB-41056	SampType: MBLK	Units: µg/L	Prep Date: 8/2/2023	RunNo: 85697							
Client ID: MBLKW	Batch ID: 41056	Analysis Date: 8/2/2023	SeqNo: 1788172								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	ND	50.0									
Surr: Toluene-d8	24.5		25.00		97.9	65	135				
Surr: 4-Bromofluorobenzene	24.4		25.00		97.8	65	135				

Sample ID: 2308021-001ADUP	SampType: DUP	Units: µg/L	Prep Date: 8/2/2023	RunNo: 85697							
Client ID: UST-2-230802	Batch ID: 41056	Analysis Date: 8/3/2023	SeqNo: 1788167								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	60,600	50.0						55,350	9.00	30	E
Surr: Toluene-d8	32.4		25.00		130	65	135		0		
Surr: 4-Bromofluorobenzene	28.2		25.00		113	65	135		0		

Sample ID: GX-CCV-85697B	SampType: CCV	Units: µg/L	Prep Date: 8/3/2023	RunNo: 85697							
Client ID: CCV	Batch ID: R85697	Analysis Date: 8/3/2023	SeqNo: 1788170								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	732	50.0	500.0	0	146	80	120				S
Surr: Toluene-d8	25.0		25.00		99.9	65	135				
Surr: 4-Bromofluorobenzene	26.2		25.00		105	65	135				

NOTES:

S - Outlying spike recovery observed (high bias). Samples are non-detect/non-reporting; result meets QC requirements.

Work Order: 2308021
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT
Gasoline by NWTPH-Gx

Sample ID: GX-CCV-85697C	SampType: CCV	Units: µg/L	Prep Date: 8/3/2023	RunNo: 85697							
Client ID: CCV	Batch ID: R85697		Analysis Date: 8/3/2023	SeqNo: 1788168							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline Range Organics	401	50.0	500.0	0	80.2	80	120				
Surr: Toluene-d8	24.4		25.00		97.6	65	135				
Surr: 4-Bromofluorobenzene	26.5		25.00		106	65	135				

Work Order: 2308021
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: LCS-41056		SampType: LCS		Units: µg/L		Prep Date: 8/2/2023		RunNo: 85683			
Client ID: LCSW		Batch ID: 41056				Analysis Date: 8/2/2023		SeqNo: 1788032			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	20.6	0.440	20.00	0	103	80	120				
Toluene	21.1	1.00	20.00	0	105	80	120				
Ethylbenzene	20.0	0.400	20.00	0	99.8	80	120				
m,p-Xylene	39.5	1.00	40.00	0	98.6	80	120				
o-Xylene	19.8	0.500	20.00	0	98.8	80	120				
Surr: Dibromofluoromethane	29.6		25.00		118	80	120				
Surr: Toluene-d8	26.5		25.00		106	80	120				
Surr: 1-Bromo-4-fluorobenzene	27.0		25.00		108	80	120				

Sample ID: VOC-CCV-85683A		SampType: CCV		Units: µg/L		Prep Date: 8/2/2023		RunNo: 85683			
Client ID: CCV		Batch ID: R85683				Analysis Date: 8/2/2023		SeqNo: 1787833			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	20.6	0.440	20.00	0	103	80	120				
Toluene	21.1	1.00	20.00	0	105	80	120				
Ethylbenzene	20.0	0.400	20.00	0	99.8	80	120				
m,p-Xylene	39.5	1.00	40.00	0	98.6	80	120				
o-Xylene	19.8	0.500	20.00	0	98.8	80	120				
Surr: Dibromofluoromethane	29.6		25.00		118	80	120				
Surr: Toluene-d8	26.5		25.00		106	80	120				
Surr: 1-Bromo-4-fluorobenzene	27.0		25.00		108	80	120				

Sample ID: MB-41056		SampType: MBLK		Units: µg/L		Prep Date: 8/2/2023		RunNo: 85683			
Client ID: MBLKW		Batch ID: 41056				Analysis Date: 8/2/2023		SeqNo: 1788030			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.440									
Toluene	ND	1.00									
Ethylbenzene	ND	0.400									
m,p-Xylene	ND	1.00									
o-Xylene	ND	0.500									

Work Order: 2308021
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: MB-41056	SampType: MBLK	Units: µg/L	Prep Date: 8/2/2023	RunNo: 85683							
Client ID: MBLKW	Batch ID: 41056		Analysis Date: 8/2/2023	SeqNo: 1788030							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	27.5		25.00		110	80	120				
Surr: Toluene-d8	26.8		25.00		107	80	120				
Surr: 1-Bromo-4-fluorobenzene	25.2		25.00		101	80	120				

Sample ID: 2308021-001ADUP	SampType: DUP	Units: µg/L	Prep Date: 8/2/2023	RunNo: 85683							
Client ID: UST-2-230802	Batch ID: 41056		Analysis Date: 8/3/2023	SeqNo: 1788029							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	815	0.440						14,130	178	30	RE
Toluene	1,080	1.00						13,350	170	30	RE
Ethylbenzene	263	0.400						1,043	119	30	RE
m,p-Xylene	730	1.00						3,946	138	30	RE
o-Xylene	524	0.500						1,734	107	30	RE
Surr: Dibromofluoromethane	30.6		25.00		122	80	120		0		S
Surr: Toluene-d8	35.4		25.00		142	80	120		0		S
Surr: 1-Bromo-4-fluorobenzene	27.0		25.00		108	80	120		0		

NOTES:

S - Outlying surrogate recovery(ies) observed. A duplicate analysis was performed with similar results indicating a possible matrix effect.
R,E - High RPD due to high analyte concentration. In this range, high RPD's may be expected.

Sample ID: VOC-CCV-85683B	SampType: CCV	Units: µg/L	Prep Date: 8/3/2023	RunNo: 85683							
Client ID: CCV	Batch ID: R85683		Analysis Date: 8/3/2023	SeqNo: 1788031							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	22.6	0.440	20.00	0	113	80	120				
Toluene	22.3	1.00	20.00	0	111	80	120				
Ethylbenzene	19.8	0.400	20.00	0	98.9	80	120				
m,p-Xylene	39.6	1.00	40.00	0	99.1	80	120				
o-Xylene	19.4	0.500	20.00	0	96.9	80	120				
Surr: Dibromofluoromethane	31.2		25.00		125	80	120				S
Surr: Toluene-d8	27.7		25.00		111	80	120				
Surr: 1-Bromo-4-fluorobenzene	26.5		25.00		106	80	120				

Work Order: 2308021
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: VOC-CCV-85683B	SampType: CCV	Units: µg/L	Prep Date: 8/3/2023	RunNo: 85683							
Client ID: CCV	Batch ID: R85683		Analysis Date: 8/3/2023	SeqNo: 1788031							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

NOTES:

S - Outlying surrogate recovery(ies) observed (high bias). Outlying surrogate is not associated with reported analytes.

Client Name: GEI

Work Order Number: 2308021

Logged by: Morgan Wilson

Date Received: 8/2/2023 11:19:00 AM

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
2. How was the sample delivered? Client

Log In

3. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes No Not Present
4. Was an attempt made to cool the samples? Yes No NA
5. Were all items received at a temperature of >2°C to 6°C * Yes No NA
6. Sample(s) in proper container(s)? Yes No
7. Sufficient sample volume for indicated test(s)? Yes No
8. Are samples properly preserved? Yes No
9. Was preservative added to bottles? Yes No NA
10. Is there headspace in the VOA vials? Yes No NA
11. Did all samples containers arrive in good condition(unbroken)? Yes No
12. Does paperwork match bottle labels? Yes No
13. Are matrices correctly identified on Chain of Custody? Yes No
14. Is it clear what analyses were requested? Yes No
15. Were all holding times able to be met? Yes No

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

17. Additional remarks:

Item Information

Item #	Temp °C
Sample	21.4

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C



Fremont
Analytical

3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790

Chain of Custody Record & Laboratory Services Agreement

Client: GeoEngineers

Address: 2101 4th Ave Ste 950

City, State, Zip: Seattle, WA 98121

Telephone: 425.861.2674

Email(s): rtrahan@geoengineers.com

Date: 8/2/23 Page: 1 of 1

Project Name: S Jackson Street

Project No: 24504-001-01

Collected by: Paul Robinette

Location: Seattle, WA

Report To (PM): Robert Trahan

Laboratory Project No (Internal): 2305802-1

Special Remarks: 25 REPAIR AREA

Disposal: Samples will be disposed in 30 days unless otherwise requested.
 Retain volume (Specify above) Return to client

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	# of Cont.	VOCs (EPA 8260 / 624)	BTX	Gasoline Range Organics (GM)	Hydrocarbon Identification (HID)	Diesel/Heavy Oil Range Organics (DH)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T) Dissolved (D)	Anions (IC)***	EDB (8011)	Comments
1 VST-1-230802	8/2/23	1040	P	3	X	X											
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SI = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water
 **Metals (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Tl Ti V Zn
 ***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished (Signature) *[Signature]* Print Name *Paul Robinette* Date/Time *8/2/23 11:19*
 Received (Signature) *[Signature]* Print Name *Emma Truck* Date/Time *8/2/23 11:19*

Turn-around Time:
 Standard Next Day
 3 Day
 Same Day
 2 Day (specify) _____



Fremont
Analytical

3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790

Chain of Custody Record & Laboratory Services Agreement

Client: GeoEngineers
Address: 2101 4th Ave Ste 950
City, State, Zip: Seattle, WA 98121
Telephone: 425.861.2674
Email(s): rtrahan@geoengineers.com

Date: 8/2/23 **Page:** 1 **of:** 1
Project Name: S Jackson Street
Project No: 24504-001-01
Collected by: Paul Robinette
Location: Seattle, WA
Report To (PM): Robert Trahan

Laboratory Project No (Internal): 2305021
Special Remarks: 25 REPERE AAR
X = Run on 3 day TAT, edits per RT 8/8/23 -cg

Disposal: Samples will be disposed in 30 days unless otherwise requested.
 Retain volume (Specify above) Return to client

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	# of Cont.	Analytical Parameters													Comments																					
					VOCs (EPA 8260 / 624)	BTX	Gasoline Range Organics (GM)	Hydrocarbon Identification (HCD)	Diesel/Heavy Oil Range Organics (DH)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T) Dissolved (D)	Anions (IC)**	EDB (8011)																							
1 UST-230802	8/2/23	1040	P	3	X	X	X																																
2 UST-2-230802																																							
3																																							
4																																							
5																																							
6																																							
7																																							
8																																							
9																																							
10																																							

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water
 **Metals (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Tl Tl V Zn
 ***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite

Turn-around Time:
 Standard Next Day
 3 Day
 Same Day
 2 Day (specify) _____

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished (Signature) 	Print Name	Date/Time	Received (Signature) 	Print Name	Date/Time
Relinquished (Signature) 	Paul Roberts	8/2/23 11:19	Received (Signature) 	Emma Truck	8/2/23 11:19



3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

GeoEngineers

Robert Trahan
2101 4th Ave, Suite 950
Seattle, WA 98121

**RE: S Jackson Street
Work Order Number: 2308065**

August 08, 2023

Attention Robert Trahan:

Fremont Analytical, Inc. received 1 sample(s) on 8/4/2023 for the analyses presented in the following report.

Hydrocarbon Identification by NWTPH-HCID

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager

*DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.3 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910*

Original

www.fremontanalytical.com



Date: 08/08/2023

CLIENT: GeoEngineers
Project: S Jackson Street
Work Order: 2308065

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2308065-001	UST-3-230804	08/04/2023 9:45 AM	08/04/2023 10:22 AM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

Original

CLIENT: GeoEngineers
Project: S Jackson Street

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Analytical Report

Work Order: **2308065**
 Date Reported: **8/8/2023**

Client: GeoEngineers

Collection Date: 8/4/2023 9:45:00 AM

Project: S Jackson Street

Lab ID: 2308065-001

Matrix: Product

Client Sample ID: UST-3-230804

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
----------	--------	----	------	-------	----	---------------

Hydrocarbon Identification by NWTPH-HCID

Batch ID: 41094

Analyst: AP

Gasoline	DETECT	600		mg/Kg	1	8/4/2023 6:23:36 PM
Mineral Spirits	ND	1,000		mg/Kg	1	8/4/2023 6:23:36 PM
Kerosene	ND	1,000		mg/Kg	1	8/4/2023 6:23:36 PM
Diesel (Fuel Oil)	DETECT	1,000		mg/Kg	1	8/4/2023 6:23:36 PM
Heavy Oil	DETECT	2,000		mg/Kg	1	8/4/2023 6:23:36 PM
Mineral Oil	ND	2,000		mg/Kg	1	8/4/2023 6:23:36 PM
Surr: 2-Fluorobiphenyl	86.5	50 - 150		%Rec	1	8/4/2023 6:23:36 PM
Surr: o-Terphenyl	102	50 - 150		%Rec	1	8/4/2023 6:23:36 PM

Work Order: 2308065
 CLIENT: GeoEngineers
 Project: S Jackson Street

QC SUMMARY REPORT
 Hydrocarbon Identification by NWTPH-HCID

Sample ID: DX-CCV-41094A	SampType: CCV	Units: mg/Kg				Prep Date: 8/4/2023	RunNo: 85777				
Client ID: CCV	Batch ID: 41094					Analysis Date: 8/4/2023	SeqNo: 1789916				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel (Fuel Oil)	569	50.0	500.0	0	114	80	120				
Surr: 2-Fluorobiphenyl	11.8		10.00		118	50	150				
Surr: o-Terphenyl	14.2		10.00		142	50	150				

Sample ID: MB-41094	SampType: MBLK	Units: mg/Kg				Prep Date: 8/3/2023	RunNo: 85777				
Client ID: MBLKS	Batch ID: 41094					Analysis Date: 8/4/2023	SeqNo: 1789917				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline	ND	30.0									
Mineral Spirits	ND	50.0									
Kerosene	ND	50.0									
Diesel (Fuel Oil)	ND	50.0									
Heavy Oil	ND	100									
Mineral Oil	ND	100									
Surr: 2-Fluorobiphenyl	9.42		10.00		94.2	50	150				
Surr: o-Terphenyl	9.61		10.00		96.1	50	150				

Sample ID: LCS-41094	SampType: LCS	Units: mg/Kg				Prep Date: 8/3/2023	RunNo: 85777				
Client ID: LCSS	Batch ID: 41094					Analysis Date: 8/4/2023	SeqNo: 1789918				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Petroleum Hydrocarbons	454	50.0	500.0	0	90.8	74.5	125				
Surr: 2-Fluorobiphenyl	9.70		10.00		97.0	50	150				
Surr: o-Terphenyl	11.3		10.00		113	50	150				

Sample ID: DX-CCV-41094B	SampType: CCV	Units: mg/Kg				Prep Date: 8/4/2023	RunNo: 85777				
Client ID: CCV	Batch ID: 41094					Analysis Date: 8/4/2023	SeqNo: 1789920				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel (Fuel Oil)	479	50.0	500.0	0	95.8	80	120				

Work Order: 2308065
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT

Hydrocarbon Identification by NWTPH-HCID

Sample ID: DX-CCV-41094B	SampType: CCV	Units: mg/Kg	Prep Date: 8/4/2023	RunNo: 85777							
Client ID: CCV	Batch ID: 41094		Analysis Date: 8/4/2023	SeqNo: 1789920							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Surr: 2-Fluorobiphenyl	9.20	10.00	10.00	92.0	50	150
Surr: o-Terphenyl	12.1	10.00	10.00	121	50	150

Sample ID: 2308037-012ADUP	SampType: DUP	Units: mg/Kg-dry	Prep Date: 8/3/2023	RunNo: 85777							
Client ID: BATCH	Batch ID: 41094		Analysis Date: 8/4/2023	SeqNo: 1789922							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	ND	30.1				0	30
Mineral Spirits	ND	50.2				0	30
Kerosene	ND	50.2				0	30
Diesel (Fuel Oil)	ND	50.2				0	30
Heavy Oil	ND	100				0	30
Mineral Oil	ND	100				0	30
Surr: 2-Fluorobiphenyl	8.84	10.03	10.03	88.1	50	150	0
Surr: o-Terphenyl	8.80	10.03	10.03	87.7	50	150	0

Sample ID: DX-CCV-41094C	SampType: CCV	Units: mg/Kg	Prep Date: 8/4/2023	RunNo: 85777							
Client ID: CCV	Batch ID: 41094		Analysis Date: 8/4/2023	SeqNo: 1789925							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel (Fuel Oil)	481	50.0	500.0	0	96.2	80	120
Surr: 2-Fluorobiphenyl	10.3	10.00	10.00	103	50	150	
Surr: o-Terphenyl	12.0	10.00	10.00	120	50	150	

Client Name: GEI	Work Order Number: 2308065
Logged by: Morgan Wilson	Date Received: 8/4/2023 10:22:00 AM

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
2. How was the sample delivered? Client

Log In

3. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes No Not Present
4. Was an attempt made to cool the samples? Yes No NA
5. Were all items received at a temperature of >2°C to 6°C * Unknown prior to receipt. Yes No NA
6. Sample(s) in proper container(s)? Yes No
7. Sufficient sample volume for indicated test(s)? Yes No
8. Are samples properly preserved? Yes No
9. Was preservative added to bottles? Yes No NA
10. Is there headspace in the VOA vials? Yes No NA
11. Did all samples containers arrive in good condition(unbroken)? Yes No
12. Does paperwork match bottle labels? Yes No
13. Are matrices correctly identified on Chain of Custody? Yes No
14. Is it clear what analyses were requested? Yes No
15. Were all holding times able to be met? Yes No

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

17. Additional remarks:

Item Information

Item #	Temp °C
Sample	24.1

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C



3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790

Chain of Custody Record & Laboratory Services Agreement

Date: 8/14/23 Page: 1 of 1
Project Name: S Jackson Street
Project No: 24504-001-01

Collected by: Paul Robinette

Location: Seattle, WA

Report to (pm): Robert Trahan

Laboratory Project No (internal): 2308065
Special Remarks: LETTER 2 OR

Disposal: Samples will be disposed in 30 days unless otherwise requested.
 Retain volume (specify above) Return to client

Client: **GeoEngineers**
Address: **2101 4th Ave Ste 950**
City, State, Zip: **Seattle, WA 98121**
Telephone: **425.861.2674**
Email(s): **rtarahan@geoengineers.com, PROBABETTER@GEOENGINEERS.COM**

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	# of Cont.	Analytes												Comments	
					VOCs (EPA 8260 / 624)	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (HCO)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T) Dissolved (D)	Anions (IC)**	EDB (8011)		
1																		
2	8/14/23	945	P	1														
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water
 **Metals (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Tl Ti V Zn
 ***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished (Signature) [Signature] Print Name Paul Robinette Date/Time 8/14/23 10:22
 Relinquished (Signature) [Signature] Print Name MAE RIGS Date/Time 8/14/23 10:22



3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

GeoEngineers

Robert Trahan
2101 4th Ave, Suite 950
Seattle, WA 98121

**RE: S Jackson Street
Work Order Number: 2308151**

August 28, 2023

Attention Robert Trahan:

Fremont Analytical, Inc. received 12 sample(s) on 8/10/2023 for the analyses presented in the following report.

***Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.
Gasoline by NWTPH-Gx
Polycyclic Aromatic Hydrocarbons by EPA Method 8270 (SIM)
Polychlorinated Biphenyls (PCB) by EPA Method 8082
Sample Moisture (Percent Moisture)
Total Metals by EPA Method 6020B
Volatile Organic Compounds by EPA Method 8260D***

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager

*DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.3 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910*

Revision v2

CLIENT: GeoEngineers
Project: S Jackson Street
Work Order: 2308151

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2308151-001	R1-NSW-98	08/08/2023 9:00 AM	08/10/2023 11:11 AM
2308151-002	UST2-NSW-93	08/08/2023 2:00 PM	08/10/2023 11:11 AM
2308151-003	UST2-WSW-93	08/08/2023 1:55 PM	08/10/2023 11:11 AM
2308151-004	UST2-SSW-93	08/08/2023 2:05 PM	08/10/2023 11:11 AM
2308151-005	UST2-B-89	08/08/2023 1:50 PM	08/10/2023 11:11 AM
2308151-006	UST3-NSW-93	08/08/2023 3:15 PM	08/10/2023 11:11 AM
2308151-007	UST3-SSW-93	08/08/2023 3:25 PM	08/10/2023 11:11 AM
2308151-008	UST3-WSW-93	08/08/2023 3:30 PM	08/10/2023 11:11 AM
2308151-009	UST3-B-90	08/08/2023 3:20 PM	08/10/2023 11:11 AM
2308151-010	UST4-NSW-93	08/09/2023 7:45 AM	08/10/2023 11:11 AM
2308151-011	UST4-SSW-93	08/09/2023 7:50 AM	08/10/2023 11:11 AM
2308151-012	UST4-B-90	08/09/2023 7:55 AM	08/10/2023 11:11 AM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: GeoEngineers
Project: S Jackson Street

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Prep Comments for METHOD (PREP-PCB-S), SAMPLE (2308151-006A) required Acid Cleanup Procedure (Using Method No 3665A).

Prep Comments for METHOD (PREP-PCB-S), SAMPLE (2308151-006A) required Florisil Cleanup Procedure (Using Method No 3620C).

Rev 1: Additional analyses requested by the client.

Rev 2: Additional analyses requested by the client.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Analytical Report

Work Order: 2308151
 Date Reported: 8/28/2023

Client: GeoEngineers

Collection Date: 8/8/2023 9:00:00 AM

Project: S Jackson Street

Lab ID: 2308151-001

Matrix: Soil

Client Sample ID: R1-NSW-98

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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Total Metals by EPA Method 6020B

Batch ID: 41172 Analyst: JR

Lead	4.48	0.997		mg/Kg-dry	1	8/11/2023 1:46:00 PM
------	------	-------	--	-----------	---	----------------------

Sample Moisture (Percent Moisture)

Batch ID: R85861 Analyst: MP

Percent Moisture	23.8	0.500		wt%	1	8/11/2023 8:37:20 AM
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Analytical Report

Work Order: 2308151
Date Reported: 8/28/2023

Client: GeoEngineers
Project: S Jackson Street
Lab ID: 2308151-002
Client Sample ID: UST2-NSW-93

Collection Date: 8/8/2023 2:00:00 PM
Matrix: Soil

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
----------	--------	-----	------	-------	----	---------------

Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Batch ID: 41170 Analyst: AP

Diesel Range Organics	ND	56.8		mg/Kg-dry	1	8/10/2023 6:10:41 PM
Heavy Oil	ND	114		mg/Kg-dry	1	8/10/2023 6:10:41 PM
Total Petroleum Hydrocarbons	ND	171		mg/Kg-dry	1	8/10/2023 6:10:41 PM
Surr: 2-Fluorobiphenyl	112	50 - 150		%Rec	1	8/10/2023 6:10:41 PM
Surr: o-Terphenyl	114	50 - 150		%Rec	1	8/10/2023 6:10:41 PM

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Batch ID: 41251 Analyst: RG

Naphthalene	34.9	22.2		µg/Kg-dry	1	8/21/2023 2:10:40 PM
2-Methylnaphthalene	48.2	22.2		µg/Kg-dry	1	8/21/2023 2:10:40 PM
1-Methylnaphthalene	25.6	22.2		µg/Kg-dry	1	8/21/2023 2:10:40 PM
Acenaphthylene	ND	22.2		µg/Kg-dry	1	8/21/2023 2:10:40 PM
Acenaphthene	ND	22.2		µg/Kg-dry	1	8/21/2023 2:10:40 PM
Fluorene	ND	22.2		µg/Kg-dry	1	8/21/2023 2:10:40 PM
Phenanthrene	ND	22.2		µg/Kg-dry	1	8/21/2023 2:10:40 PM
Anthracene	ND	22.2		µg/Kg-dry	1	8/21/2023 2:10:40 PM
Fluoranthene	ND	22.2		µg/Kg-dry	1	8/21/2023 2:10:40 PM
Pyrene	ND	44.4		µg/Kg-dry	1	8/21/2023 2:10:40 PM
Benz(a)anthracene	ND	22.2		µg/Kg-dry	1	8/21/2023 2:10:40 PM
Chrysene	ND	22.2		µg/Kg-dry	1	8/21/2023 2:10:40 PM
Benzo(b)fluoranthene	ND	27.7		µg/Kg-dry	1	8/21/2023 2:10:40 PM
Benzo(k)fluoranthene	ND	27.7		µg/Kg-dry	1	8/21/2023 2:10:40 PM
Benzo(a)pyrene	ND	33.3		µg/Kg-dry	1	8/21/2023 2:10:40 PM
Indeno(1,2,3-cd)pyrene	ND	44.4		µg/Kg-dry	1	8/21/2023 2:10:40 PM
Dibenz(a,h)anthracene	ND	55.5		µg/Kg-dry	1	8/21/2023 2:10:40 PM
Benzo(g,h,i)perylene	ND	55.5		µg/Kg-dry	1	8/21/2023 2:10:40 PM
Surr: 2-Fluorobiphenyl	84.2	22.2 - 146		%Rec	1	8/21/2023 2:10:40 PM
Surr: Terphenyl-d14 (surr)	80.9	20.2 - 159		%Rec	1	8/21/2023 2:10:40 PM

Gasoline by NWTPH-Gx

Batch ID: 41166 Analyst: CC

Gasoline Range Organics	55.9	6.90		mg/Kg-dry	1	8/12/2023 4:59:08 PM
Surr: Toluene-d8	101	65 - 135		%Rec	1	8/12/2023 4:59:08 PM
Surr: 4-Bromofluorobenzene	98.5	65 - 135		%Rec	1	8/12/2023 4:59:08 PM

Volatile Organic Compounds by EPA Method 8260D

Batch ID: 41166 Analyst: KJ

Benzene	ND	0.0242		mg/Kg-dry	1	8/12/2023 4:59:08 PM
Toluene	ND	0.0414		mg/Kg-dry	1	8/12/2023 4:59:08 PM



Analytical Report

Work Order: 2308151
Date Reported: 8/28/2023

Client: GeoEngineers
Project: S Jackson Street
Lab ID: 2308151-002
Client Sample ID: UST2-NSW-93

Collection Date: 8/8/2023 2:00:00 PM
Matrix: Soil

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 41166 Analyst: KJ

Ethylbenzene	ND	0.0345		mg/Kg-dry	1	8/12/2023 4:59:08 PM
m,p-Xylene	0.109	0.0690		mg/Kg-dry	1	8/12/2023 4:59:08 PM
o-Xylene	ND	0.0345		mg/Kg-dry	1	8/12/2023 4:59:08 PM
Surr: Dibromofluoromethane	100	79.5 - 124		%Rec	1	8/12/2023 4:59:08 PM
Surr: Toluene-d8	98.3	77.5 - 124		%Rec	1	8/12/2023 4:59:08 PM
Surr: 1-Bromo-4-fluorobenzene	98.2	60.5 - 139		%Rec	1	8/12/2023 4:59:08 PM

Total Metals by EPA Method 6020B

Batch ID: 41271 Analyst: SLL

Lead	5.63	0.877		mg/Kg-dry	1	8/23/2023 1:47:00 PM
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Sample Moisture (Percent Moisture)

Batch ID: R85861 Analyst: MP

Percent Moisture	12.9	0.500		wt%	1	8/11/2023 8:37:20 AM
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Analytical Report

Work Order: 2308151
Date Reported: 8/28/2023

Client: GeoEngineers
Project: S Jackson Street
Lab ID: 2308151-003
Client Sample ID: UST2-WSW-93

Collection Date: 8/8/2023 1:55:00 PM
Matrix: Soil

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Batch ID: 41170 Analyst: AP

Diesel Range Organics	ND	52.4		mg/Kg-dry	1	8/10/2023 6:32:43 PM
Heavy Oil	ND	105		mg/Kg-dry	1	8/10/2023 6:32:43 PM
Total Petroleum Hydrocarbons	ND	157		mg/Kg-dry	1	8/10/2023 6:32:43 PM
Surr: 2-Fluorobiphenyl	102	50 - 150		%Rec	1	8/10/2023 6:32:43 PM
Surr: o-Terphenyl	103	50 - 150		%Rec	1	8/10/2023 6:32:43 PM

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Batch ID: 41251 Analyst: RG

Naphthalene	ND	18.7		µg/Kg-dry	1	8/21/2023 3:35:09 PM
2-Methylnaphthalene	ND	18.7		µg/Kg-dry	1	8/21/2023 3:35:09 PM
1-Methylnaphthalene	ND	18.7		µg/Kg-dry	1	8/21/2023 3:35:09 PM
Acenaphthylene	ND	18.7		µg/Kg-dry	1	8/21/2023 3:35:09 PM
Acenaphthene	ND	18.7		µg/Kg-dry	1	8/21/2023 3:35:09 PM
Fluorene	ND	18.7		µg/Kg-dry	1	8/21/2023 3:35:09 PM
Phenanthrene	ND	18.7		µg/Kg-dry	1	8/21/2023 3:35:09 PM
Anthracene	ND	18.7		µg/Kg-dry	1	8/21/2023 3:35:09 PM
Fluoranthene	ND	18.7		µg/Kg-dry	1	8/21/2023 3:35:09 PM
Pyrene	ND	37.4		µg/Kg-dry	1	8/21/2023 3:35:09 PM
Benz(a)anthracene	ND	18.7		µg/Kg-dry	1	8/21/2023 3:35:09 PM
Chrysene	ND	18.7		µg/Kg-dry	1	8/21/2023 3:35:09 PM
Benzo(b)fluoranthene	ND	23.4		µg/Kg-dry	1	8/21/2023 3:35:09 PM
Benzo(k)fluoranthene	ND	23.4		µg/Kg-dry	1	8/21/2023 3:35:09 PM
Benzo(a)pyrene	ND	28.0		µg/Kg-dry	1	8/21/2023 3:35:09 PM
Indeno(1,2,3-cd)pyrene	ND	37.4		µg/Kg-dry	1	8/21/2023 3:35:09 PM
Dibenz(a,h)anthracene	ND	46.7		µg/Kg-dry	1	8/21/2023 3:35:09 PM
Benzo(g,h,i)perylene	ND	46.7		µg/Kg-dry	1	8/21/2023 3:35:09 PM
Surr: 2-Fluorobiphenyl	75.3	22.2 - 146		%Rec	1	8/21/2023 3:35:09 PM
Surr: Terphenyl-d14 (surr)	73.3	20.2 - 159		%Rec	1	8/21/2023 3:35:09 PM

Gasoline by NWTPH-Gx

Batch ID: 41166 Analyst: CC

Gasoline Range Organics	ND	5.72		mg/Kg-dry	1	8/12/2023 5:31:00 PM
Surr: Toluene-d8	99.7	65 - 135		%Rec	1	8/12/2023 5:31:00 PM
Surr: 4-Bromofluorobenzene	98.2	65 - 135		%Rec	1	8/12/2023 5:31:00 PM

Volatile Organic Compounds by EPA Method 8260D

Batch ID: 41166 Analyst: KJ

Benzene	ND	0.0200		mg/Kg-dry	1	8/12/2023 5:31:00 PM
Toluene	ND	0.0343		mg/Kg-dry	1	8/12/2023 5:31:00 PM



Analytical Report

Work Order: 2308151
Date Reported: 8/28/2023

Client: GeoEngineers
Project: S Jackson Street
Lab ID: 2308151-003
Client Sample ID: UST2-WSW-93

Collection Date: 8/8/2023 1:55:00 PM
Matrix: Soil

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 41166 Analyst: KJ

Ethylbenzene	ND	0.0286		mg/Kg-dry	1	8/12/2023 5:31:00 PM
m,p-Xylene	ND	0.0572		mg/Kg-dry	1	8/12/2023 5:31:00 PM
o-Xylene	ND	0.0286		mg/Kg-dry	1	8/12/2023 5:31:00 PM
Surr: Dibromofluoromethane	99.8	79.5 - 124		%Rec	1	8/12/2023 5:31:00 PM
Surr: Toluene-d8	98.9	77.5 - 124		%Rec	1	8/12/2023 5:31:00 PM
Surr: 1-Bromo-4-fluorobenzene	98.0	60.5 - 139		%Rec	1	8/12/2023 5:31:00 PM

Total Metals by EPA Method 6020B

Batch ID: 41271 Analyst: SLL

Lead	4.90	0.889		mg/Kg-dry	1	8/23/2023 1:50:00 PM
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Sample Moisture (Percent Moisture)

Batch ID: R85861 Analyst: MP

Percent Moisture	7.77	0.500		wt%	1	8/11/2023 8:37:20 AM
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Analytical Report

Work Order: 2308151
Date Reported: 8/28/2023

Client: GeoEngineers
Project: S Jackson Street
Lab ID: 2308151-005
Client Sample ID: UST2-B-89

Collection Date: 8/8/2023 1:50:00 PM
Matrix: Soil

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Batch ID: 41170 Analyst: AP

Diesel Range Organics	265	52.6		mg/Kg-dry	1	8/10/2023 6:43:40 PM
Heavy Oil	ND	105		mg/Kg-dry	1	8/10/2023 6:43:40 PM
Total Petroleum Hydrocarbons	265	158		mg/Kg-dry	1	8/10/2023 6:43:40 PM
Surr: 2-Fluorobiphenyl	102	50 - 150		%Rec	1	8/10/2023 6:43:40 PM
Surr: o-Terphenyl	105	50 - 150		%Rec	1	8/10/2023 6:43:40 PM

NOTES:

Detection is due to overlap with gasoline-range material

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Batch ID: 41251 Analyst: RG

Naphthalene	ND	20.4		µg/Kg-dry	1	8/21/2023 4:03:20 PM
2-Methylnaphthalene	ND	20.4		µg/Kg-dry	1	8/21/2023 4:03:20 PM
1-Methylnaphthalene	ND	20.4		µg/Kg-dry	1	8/21/2023 4:03:20 PM
Acenaphthylene	ND	20.4		µg/Kg-dry	1	8/21/2023 4:03:20 PM
Acenaphthene	ND	20.4		µg/Kg-dry	1	8/21/2023 4:03:20 PM
Fluorene	ND	20.4		µg/Kg-dry	1	8/21/2023 4:03:20 PM
Phenanthrene	ND	20.4		µg/Kg-dry	1	8/21/2023 4:03:20 PM
Anthracene	ND	20.4		µg/Kg-dry	1	8/21/2023 4:03:20 PM
Fluoranthene	ND	20.4		µg/Kg-dry	1	8/21/2023 4:03:20 PM
Pyrene	ND	40.8		µg/Kg-dry	1	8/21/2023 4:03:20 PM
Benz(a)anthracene	ND	20.4		µg/Kg-dry	1	8/21/2023 4:03:20 PM
Chrysene	ND	20.4		µg/Kg-dry	1	8/21/2023 4:03:20 PM
Benzo(b)fluoranthene	ND	25.5		µg/Kg-dry	1	8/21/2023 4:03:20 PM
Benzo(k)fluoranthene	ND	25.5		µg/Kg-dry	1	8/21/2023 4:03:20 PM
Benzo(a)pyrene	ND	30.6		µg/Kg-dry	1	8/21/2023 4:03:20 PM
Indeno(1,2,3-cd)pyrene	ND	40.8		µg/Kg-dry	1	8/21/2023 4:03:20 PM
Dibenz(a,h)anthracene	ND	51.0		µg/Kg-dry	1	8/21/2023 4:03:20 PM
Benzo(g,h,i)perylene	ND	51.0		µg/Kg-dry	1	8/21/2023 4:03:20 PM
Surr: 2-Fluorobiphenyl	64.7	22.2 - 146		%Rec	1	8/21/2023 4:03:20 PM
Surr: Terphenyl-d14 (surr)	53.6	20.2 - 159		%Rec	1	8/21/2023 4:03:20 PM

Gasoline by NWTPH-Gx

Batch ID: 41166 Analyst: CC

Gasoline Range Organics	500	111	D	mg/Kg-dry	20	8/14/2023 3:54:32 PM
Surr: Toluene-d8	99.3	65 - 135	D	%Rec	20	8/14/2023 3:54:32 PM
Surr: 4-Bromofluorobenzene	98.3	65 - 135	D	%Rec	20	8/14/2023 3:54:32 PM



Analytical Report

Work Order: 2308151
Date Reported: 8/28/2023

Client: GeoEngineers
Project: S Jackson Street
Lab ID: 2308151-005
Client Sample ID: UST2-B-89

Collection Date: 8/8/2023 1:50:00 PM
Matrix: Soil

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 41166 Analyst: KJ

Benzene	ND	0.0195		mg/Kg-dry	1	8/12/2023 6:02:44 PM
Toluene	ND	0.0334		mg/Kg-dry	1	8/12/2023 6:02:44 PM
Ethylbenzene	0.0607	0.0279		mg/Kg-dry	1	8/12/2023 6:02:44 PM
m,p-Xylene	0.246	0.0557		mg/Kg-dry	1	8/12/2023 6:02:44 PM
o-Xylene	ND	0.0279		mg/Kg-dry	1	8/12/2023 6:02:44 PM
Surr: Dibromofluoromethane	102	79.5 - 124		%Rec	1	8/12/2023 6:02:44 PM
Surr: Toluene-d8	90.1	77.5 - 124		%Rec	1	8/12/2023 6:02:44 PM
Surr: 1-Bromo-4-fluorobenzene	100	60.5 - 139		%Rec	1	8/12/2023 6:02:44 PM

Total Metals by EPA Method 6020B

Batch ID: 41271 Analyst: SLL

Lead	10.9	0.875		mg/Kg-dry	1	8/23/2023 1:57:00 PM
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Sample Moisture (Percent Moisture)

Batch ID: R85861 Analyst: MP

Percent Moisture	11.4	0.500		wt%	1	8/11/2023 8:37:20 AM
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Analytical Report

Work Order: 2308151
Date Reported: 8/28/2023

Client: GeoEngineers
Project: S Jackson Street
Lab ID: 2308151-006
Client Sample ID: UST3-NSW-93

Collection Date: 8/8/2023 3:15:00 PM
Matrix: Soil

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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Polychlorinated Biphenyls (PCB) by EPA Method 8082

Batch ID: 41197 Analyst: SK

Aroclor 1016	ND	0.0252		mg/Kg-dry	1	8/15/2023 12:36:03 PM
Aroclor 1221	ND	0.0252		mg/Kg-dry	1	8/15/2023 12:36:03 PM
Aroclor 1232	ND	0.0252		mg/Kg-dry	1	8/15/2023 12:36:03 PM
Aroclor 1242	ND	0.0252		mg/Kg-dry	1	8/15/2023 12:36:03 PM
Aroclor 1248	ND	0.0252		mg/Kg-dry	1	8/15/2023 12:36:03 PM
Aroclor 1254	ND	0.0252		mg/Kg-dry	1	8/15/2023 12:36:03 PM
Aroclor 1260	ND	0.0252		mg/Kg-dry	1	8/15/2023 12:36:03 PM
Aroclor 1262	ND	0.0252		mg/Kg-dry	1	8/15/2023 12:36:03 PM
Aroclor 1268	ND	0.0252		mg/Kg-dry	1	8/15/2023 12:36:03 PM
Total PCBs	ND	0.0252		mg/Kg-dry	1	8/15/2023 12:36:03 PM
Surr: Decachlorobiphenyl	35.8	5 - 160		%Rec	1	8/15/2023 12:36:03 PM
Surr: Tetrachloro-m-xylene	68.1	57.3 - 159		%Rec	1	8/15/2023 12:36:03 PM

Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Batch ID: 41170 Analyst: AP

Diesel Range Organics	ND	63.6		mg/Kg-dry	1	8/10/2023 6:54:37 PM
Heavy Oil	ND	127		mg/Kg-dry	1	8/10/2023 6:54:37 PM
Total Petroleum Hydrocarbons	ND	191		mg/Kg-dry	1	8/10/2023 6:54:37 PM
Surr: 2-Fluorobiphenyl	106	50 - 150		%Rec	1	8/10/2023 6:54:37 PM
Surr: o-Terphenyl	108	50 - 150		%Rec	1	8/10/2023 6:54:37 PM

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Batch ID: 41191 Analyst: SH

Naphthalene	ND	24.3		µg/Kg-dry	1	8/14/2023 12:09:56 PM
2-Methylnaphthalene	ND	24.3		µg/Kg-dry	1	8/14/2023 12:09:56 PM
1-Methylnaphthalene	ND	24.3		µg/Kg-dry	1	8/14/2023 12:09:56 PM
Acenaphthylene	ND	24.3		µg/Kg-dry	1	8/14/2023 12:09:56 PM
Acenaphthene	ND	24.3		µg/Kg-dry	1	8/14/2023 12:09:56 PM
Fluorene	ND	24.3		µg/Kg-dry	1	8/14/2023 12:09:56 PM
Phenanthrene	ND	24.3		µg/Kg-dry	1	8/14/2023 12:09:56 PM
Anthracene	ND	24.3		µg/Kg-dry	1	8/14/2023 12:09:56 PM
Fluoranthene	ND	24.3		µg/Kg-dry	1	8/14/2023 12:09:56 PM
Pyrene	ND	48.7		µg/Kg-dry	1	8/14/2023 12:09:56 PM
Benz(a)anthracene	ND	24.3		µg/Kg-dry	1	8/14/2023 12:09:56 PM
Chrysene	ND	24.3		µg/Kg-dry	1	8/14/2023 12:09:56 PM
Benzo(b)fluoranthene	ND	30.4		µg/Kg-dry	1	8/14/2023 12:09:56 PM
Benzo(k)fluoranthene	ND	30.4		µg/Kg-dry	1	8/14/2023 12:09:56 PM
Benzo(a)pyrene	ND	36.5		µg/Kg-dry	1	8/14/2023 12:09:56 PM
Indeno(1,2,3-cd)pyrene	ND	48.7		µg/Kg-dry	1	8/14/2023 12:09:56 PM



Analytical Report

Work Order: 2308151
Date Reported: 8/28/2023

Client: GeoEngineers
Project: S Jackson Street
Lab ID: 2308151-006
Client Sample ID: UST3-NSW-93

Collection Date: 8/8/2023 3:15:00 PM
Matrix: Soil

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Batch ID: 41191 Analyst: SH

Dibenz(a,h)anthracene	ND	60.9		µg/Kg-dry	1	8/14/2023 12:09:56 PM
Benzo(g,h,i)perylene	ND	60.9		µg/Kg-dry	1	8/14/2023 12:09:56 PM
Surr: 2-Fluorobiphenyl	105	22.2 - 146		%Rec	1	8/14/2023 12:09:56 PM
Surr: Terphenyl-d14 (surr)	121	20.2 - 159		%Rec	1	8/14/2023 12:09:56 PM

Gasoline by NWTPH-Gx

Batch ID: 41166 Analyst: CC

Gasoline Range Organics	ND	5.98		mg/Kg-dry	1	8/14/2023 11:34:13 AM
Surr: Toluene-d8	98.8	65 - 135		%Rec	1	8/14/2023 11:34:13 AM
Surr: 4-Bromofluorobenzene	98.5	65 - 135		%Rec	1	8/14/2023 11:34:13 AM

Volatile Organic Compounds by EPA Method 8260D

Batch ID: 41166 Analyst: KJ

Dichlorodifluoromethane (CFC-12)	ND	0.0179		mg/Kg-dry	1	8/12/2023 6:34:29 PM
Chloromethane	ND	0.0598		mg/Kg-dry	1	8/12/2023 6:34:29 PM
Vinyl chloride	ND	0.0299		mg/Kg-dry	1	8/12/2023 6:34:29 PM
Bromomethane	ND	0.0299		mg/Kg-dry	1	8/12/2023 6:34:29 PM
Trichlorofluoromethane (CFC-11)	ND	0.0239		mg/Kg-dry	1	8/12/2023 6:34:29 PM
Chloroethane	ND	0.0897		mg/Kg-dry	1	8/12/2023 6:34:29 PM
1,1-Dichloroethene	ND	0.120		mg/Kg-dry	1	8/12/2023 6:34:29 PM
Acetone	ND	0.299		mg/Kg-dry	1	8/12/2023 6:34:29 PM
Methylene chloride	ND	0.0418		mg/Kg-dry	1	8/12/2023 6:34:29 PM
trans-1,2-Dichloroethene	ND	0.0120		mg/Kg-dry	1	8/12/2023 6:34:29 PM
Methyl tert-butyl ether (MTBE)	ND	0.0239		mg/Kg-dry	1	8/12/2023 6:34:29 PM
1,1-Dichloroethane	ND	0.0299		mg/Kg-dry	1	8/12/2023 6:34:29 PM
cis-1,2-Dichloroethene	ND	0.0179		mg/Kg-dry	1	8/12/2023 6:34:29 PM
(MEK) 2-Butanone	ND	0.359		mg/Kg-dry	1	8/12/2023 6:34:29 PM
Chloroform	ND	0.0209		mg/Kg-dry	1	8/12/2023 6:34:29 PM
1,1,1-Trichloroethane (TCA)	ND	0.0239		mg/Kg-dry	1	8/12/2023 6:34:29 PM
1,1-Dichloropropene	ND	0.0239		mg/Kg-dry	1	8/12/2023 6:34:29 PM
Carbon tetrachloride	ND	0.0299		mg/Kg-dry	1	8/12/2023 6:34:29 PM
1,2-Dichloroethane (EDC)	ND	0.0239		mg/Kg-dry	1	8/12/2023 6:34:29 PM
Benzene	ND	0.0209		mg/Kg-dry	1	8/12/2023 6:34:29 PM
Trichloroethene (TCE)	ND	0.0179		mg/Kg-dry	1	8/12/2023 6:34:29 PM
1,2-Dichloropropane	ND	0.0299		mg/Kg-dry	1	8/12/2023 6:34:29 PM
Bromodichloromethane	ND	0.0299		mg/Kg-dry	1	8/12/2023 6:34:29 PM
Dibromomethane	ND	0.0149		mg/Kg-dry	1	8/12/2023 6:34:29 PM
cis-1,3-Dichloropropene	ND	0.0179		mg/Kg-dry	1	8/12/2023 6:34:29 PM
Toluene	ND	0.0359		mg/Kg-dry	1	8/12/2023 6:34:29 PM



Analytical Report

Work Order: 2308151
Date Reported: 8/28/2023

Client: GeoEngineers
Project: S Jackson Street
Lab ID: 2308151-006
Client Sample ID: UST3-NSW-93

Collection Date: 8/8/2023 3:15:00 PM
Matrix: Soil

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 41166 Analyst: KJ

Trans-1,3-Dichloropropylene	ND	0.0239		mg/Kg-dry	1	8/12/2023 6:34:29 PM
Methyl Isobutyl Ketone (MIBK)	ND	0.0717		mg/Kg-dry	1	8/12/2023 6:34:29 PM
1,1,2-Trichloroethane	ND	0.0149		mg/Kg-dry	1	8/12/2023 6:34:29 PM
1,3-Dichloropropane	ND	0.0120		mg/Kg-dry	1	8/12/2023 6:34:29 PM
Tetrachloroethene (PCE)	ND	0.0179		mg/Kg-dry	1	8/12/2023 6:34:29 PM
Dibromochloromethane	ND	0.0179		mg/Kg-dry	1	8/12/2023 6:34:29 PM
1,2-Dibromoethane (EDB)	ND	0.0120		mg/Kg-dry	1	8/12/2023 6:34:29 PM
2-Hexanone (MBK)	ND	0.0747		mg/Kg-dry	1	8/12/2023 6:34:29 PM
Chlorobenzene	ND	0.0179		mg/Kg-dry	1	8/12/2023 6:34:29 PM
1,1,1,2-Tetrachloroethane	ND	0.0299		mg/Kg-dry	1	8/12/2023 6:34:29 PM
Ethylbenzene	0.0414	0.0299		mg/Kg-dry	1	8/12/2023 6:34:29 PM
m,p-Xylene	0.152	0.0598		mg/Kg-dry	1	8/12/2023 6:34:29 PM
o-Xylene	ND	0.0299		mg/Kg-dry	1	8/12/2023 6:34:29 PM
Styrene	ND	0.0120		mg/Kg-dry	1	8/12/2023 6:34:29 PM
Isopropylbenzene	ND	0.0179		mg/Kg-dry	1	8/12/2023 6:34:29 PM
Bromoform	ND	0.0179		mg/Kg-dry	1	8/12/2023 6:34:29 PM
1,1,2,2-Tetrachloroethane	ND	0.239	Q	mg/Kg-dry	1	8/12/2023 6:34:29 PM
n-Propylbenzene	0.0524	0.0179		mg/Kg-dry	1	8/12/2023 6:34:29 PM
Bromobenzene	ND	0.0149		mg/Kg-dry	1	8/12/2023 6:34:29 PM
1,3,5-Trimethylbenzene	0.0316	0.0179		mg/Kg-dry	1	8/12/2023 6:34:29 PM
2-Chlorotoluene	ND	0.0197		mg/Kg-dry	1	8/12/2023 6:34:29 PM
4-Chlorotoluene	ND	0.0197		mg/Kg-dry	1	8/12/2023 6:34:29 PM
tert-Butylbenzene	ND	0.0179		mg/Kg-dry	1	8/12/2023 6:34:29 PM
1,2,3-Trichloropropane	ND	0.0359		mg/Kg-dry	1	8/12/2023 6:34:29 PM
1,2,4-Trichlorobenzene	ND	0.0717		mg/Kg-dry	1	8/12/2023 6:34:29 PM
sec-Butylbenzene	ND	0.179		mg/Kg-dry	1	8/12/2023 6:34:29 PM
4-Isopropyltoluene	ND	0.239		mg/Kg-dry	1	8/12/2023 6:34:29 PM
1,3-Dichlorobenzene	ND	0.0239		mg/Kg-dry	1	8/12/2023 6:34:29 PM
1,4-Dichlorobenzene	ND	0.0179		mg/Kg-dry	1	8/12/2023 6:34:29 PM
n-Butylbenzene	0.0276	0.0239		mg/Kg-dry	1	8/12/2023 6:34:29 PM
1,2-Dichlorobenzene	ND	0.0239		mg/Kg-dry	1	8/12/2023 6:34:29 PM
1,2-Dibromo-3-chloropropane	ND	0.0359		mg/Kg-dry	1	8/12/2023 6:34:29 PM
1,2,4-Trimethylbenzene	0.122	0.0179		mg/Kg-dry	1	8/12/2023 6:34:29 PM
Hexachloro-1,3-butadiene	ND	0.0478		mg/Kg-dry	1	8/12/2023 6:34:29 PM
Naphthalene	ND	0.120		mg/Kg-dry	1	8/12/2023 6:34:29 PM
1,2,3-Trichlorobenzene	ND	0.0717		mg/Kg-dry	1	8/12/2023 6:34:29 PM
Surr: Dibromofluoromethane	99.0	79.5 - 124		%Rec	1	8/12/2023 6:34:29 PM
Surr: Toluene-d8	97.8	77.5 - 124		%Rec	1	8/12/2023 6:34:29 PM
Surr: 1-Bromo-4-fluorobenzene	97.7	60.5 - 139		%Rec	1	8/12/2023 6:34:29 PM



Analytical Report

Work Order: 2308151
 Date Reported: 8/28/2023

Client: GeoEngineers
Project: S Jackson Street
Lab ID: 2308151-006
Client Sample ID: UST3-NSW-93

Collection Date: 8/8/2023 3:15:00 PM
Matrix: Soil

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 41166 Analyst: KJ

NOTES:

Q - Associated calibration verification is below acceptance criteria. Result may be low-biased.

Total Metals by EPA Method 6020B

Batch ID: 41192 Analyst: JR

Lead	5.53	1.02		mg/Kg-dry	1	8/14/2023 2:23:00 PM
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Sample Moisture (Percent Moisture)

Batch ID: R85887 Analyst: MP

Percent Moisture	22.5	0.500		wt%	1	8/14/2023 8:21:46 AM
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Analytical Report

Work Order: 2308151
Date Reported: 8/28/2023

Client: GeoEngineers
Project: S Jackson Street
Lab ID: 2308151-008
Client Sample ID: UST3-WSW-93

Collection Date: 8/8/2023 3:30:00 PM
Matrix: Soil

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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Polychlorinated Biphenyls (PCB) by EPA Method 8082

Batch ID: 41176 Analyst: SK

Aroclor 1016	ND	0.0212		mg/Kg-dry	1	8/10/2023 8:18:48 PM
Aroclor 1221	ND	0.0212		mg/Kg-dry	1	8/10/2023 8:18:48 PM
Aroclor 1232	ND	0.0212		mg/Kg-dry	1	8/10/2023 8:18:48 PM
Aroclor 1242	ND	0.0212		mg/Kg-dry	1	8/10/2023 8:18:48 PM
Aroclor 1248	ND	0.0212		mg/Kg-dry	1	8/10/2023 8:18:48 PM
Aroclor 1254	ND	0.0212		mg/Kg-dry	1	8/10/2023 8:18:48 PM
Aroclor 1260	ND	0.0212		mg/Kg-dry	1	8/10/2023 8:18:48 PM
Aroclor 1262	ND	0.0212		mg/Kg-dry	1	8/10/2023 8:18:48 PM
Aroclor 1268	ND	0.0212		mg/Kg-dry	1	8/10/2023 8:18:48 PM
Total PCBs	ND	0.0212		mg/Kg-dry	1	8/10/2023 8:18:48 PM
Surr: Decachlorobiphenyl	40.1	5 - 160		%Rec	1	8/10/2023 8:18:48 PM
Surr: Tetrachloro-m-xylene	91.0	57.3 - 159		%Rec	1	8/10/2023 8:18:48 PM

Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Batch ID: 41170 Analyst: AP

Diesel Range Organics	ND	50.5		mg/Kg-dry	1	8/10/2023 7:05:33 PM
Heavy Oil	ND	101		mg/Kg-dry	1	8/10/2023 7:05:33 PM
Total Petroleum Hydrocarbons	ND	151		mg/Kg-dry	1	8/10/2023 7:05:33 PM
Surr: 2-Fluorobiphenyl	102	50 - 150		%Rec	1	8/10/2023 7:05:33 PM
Surr: o-Terphenyl	104	50 - 150		%Rec	1	8/10/2023 7:05:33 PM

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Batch ID: 41173 Analyst: SH

Naphthalene	ND	21.0		µg/Kg-dry	1	8/10/2023 11:19:30 PM
2-Methylnaphthalene	ND	21.0		µg/Kg-dry	1	8/10/2023 11:19:30 PM
1-Methylnaphthalene	ND	21.0		µg/Kg-dry	1	8/10/2023 11:19:30 PM
Acenaphthylene	ND	21.0		µg/Kg-dry	1	8/10/2023 11:19:30 PM
Acenaphthene	ND	21.0		µg/Kg-dry	1	8/10/2023 11:19:30 PM
Fluorene	ND	21.0		µg/Kg-dry	1	8/10/2023 11:19:30 PM
Phenanthrene	ND	21.0		µg/Kg-dry	1	8/10/2023 11:19:30 PM
Anthracene	ND	21.0		µg/Kg-dry	1	8/10/2023 11:19:30 PM
Fluoranthene	ND	21.0		µg/Kg-dry	1	8/10/2023 11:19:30 PM
Pyrene	ND	42.1		µg/Kg-dry	1	8/10/2023 11:19:30 PM
Benz(a)anthracene	ND	21.0		µg/Kg-dry	1	8/10/2023 11:19:30 PM
Chrysene	ND	21.0		µg/Kg-dry	1	8/10/2023 11:19:30 PM
Benzo(b)fluoranthene	ND	26.3		µg/Kg-dry	1	8/10/2023 11:19:30 PM
Benzo(k)fluoranthene	ND	26.3		µg/Kg-dry	1	8/10/2023 11:19:30 PM
Benzo(a)pyrene	ND	31.5		µg/Kg-dry	1	8/10/2023 11:19:30 PM
Indeno(1,2,3-cd)pyrene	ND	42.1		µg/Kg-dry	1	8/10/2023 11:19:30 PM



Analytical Report

Work Order: 2308151
Date Reported: 8/28/2023

Client: GeoEngineers
Project: S Jackson Street
Lab ID: 2308151-008
Client Sample ID: UST3-WSW-93

Collection Date: 8/8/2023 3:30:00 PM
Matrix: Soil

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Batch ID: 41173 Analyst: SH

Dibenz(a,h)anthracene	ND	52.6		µg/Kg-dry	1	8/10/2023 11:19:30 PM
Benzo(g,h,i)perylene	ND	52.6		µg/Kg-dry	1	8/10/2023 11:19:30 PM
Surr: 2-Fluorobiphenyl	103	22.2 - 146		%Rec	1	8/10/2023 11:19:30 PM
Surr: Terphenyl-d14 (surr)	123	20.2 - 159		%Rec	1	8/10/2023 11:19:30 PM

Gasoline by NWTPH-Gx

Batch ID: 41166 Analyst: CC

Gasoline Range Organics	ND	5.09		mg/Kg-dry	1	8/12/2023 7:06:14 PM
Surr: Toluene-d8	99.3	65 - 135		%Rec	1	8/12/2023 7:06:14 PM
Surr: 4-Bromofluorobenzene	97.8	65 - 135		%Rec	1	8/12/2023 7:06:14 PM

Volatile Organic Compounds by EPA Method 8260D

Batch ID: 41166 Analyst: KJ

Dichlorodifluoromethane (CFC-12)	ND	0.0153		mg/Kg-dry	1	8/12/2023 7:06:14 PM
Chloromethane	ND	0.0509		mg/Kg-dry	1	8/12/2023 7:06:14 PM
Vinyl chloride	ND	0.0255		mg/Kg-dry	1	8/12/2023 7:06:14 PM
Bromomethane	ND	0.0255		mg/Kg-dry	1	8/12/2023 7:06:14 PM
Trichlorofluoromethane (CFC-11)	ND	0.0204		mg/Kg-dry	1	8/12/2023 7:06:14 PM
Chloroethane	ND	0.0764		mg/Kg-dry	1	8/12/2023 7:06:14 PM
1,1-Dichloroethene	ND	0.102		mg/Kg-dry	1	8/12/2023 7:06:14 PM
Acetone	ND	0.255		mg/Kg-dry	1	8/12/2023 7:06:14 PM
Methylene chloride	ND	0.0357		mg/Kg-dry	1	8/12/2023 7:06:14 PM
trans-1,2-Dichloroethene	ND	0.0102		mg/Kg-dry	1	8/12/2023 7:06:14 PM
Methyl tert-butyl ether (MTBE)	ND	0.0204		mg/Kg-dry	1	8/12/2023 7:06:14 PM
1,1-Dichloroethane	ND	0.0255		mg/Kg-dry	1	8/12/2023 7:06:14 PM
cis-1,2-Dichloroethene	ND	0.0153		mg/Kg-dry	1	8/12/2023 7:06:14 PM
(MEK) 2-Butanone	ND	0.306		mg/Kg-dry	1	8/12/2023 7:06:14 PM
Chloroform	ND	0.0178		mg/Kg-dry	1	8/12/2023 7:06:14 PM
1,1,1-Trichloroethane (TCA)	ND	0.0204		mg/Kg-dry	1	8/12/2023 7:06:14 PM
1,1-Dichloropropene	ND	0.0204		mg/Kg-dry	1	8/12/2023 7:06:14 PM
Carbon tetrachloride	ND	0.0255		mg/Kg-dry	1	8/12/2023 7:06:14 PM
1,2-Dichloroethane (EDC)	ND	0.0204		mg/Kg-dry	1	8/12/2023 7:06:14 PM
Benzene	ND	0.0178		mg/Kg-dry	1	8/12/2023 7:06:14 PM
Trichloroethene (TCE)	ND	0.0153		mg/Kg-dry	1	8/12/2023 7:06:14 PM
1,2-Dichloropropane	ND	0.0255		mg/Kg-dry	1	8/12/2023 7:06:14 PM
Bromodichloromethane	ND	0.0255		mg/Kg-dry	1	8/12/2023 7:06:14 PM
Dibromomethane	ND	0.0127		mg/Kg-dry	1	8/12/2023 7:06:14 PM
cis-1,3-Dichloropropene	ND	0.0153		mg/Kg-dry	1	8/12/2023 7:06:14 PM
Toluene	ND	0.0306		mg/Kg-dry	1	8/12/2023 7:06:14 PM



Analytical Report

Work Order: 2308151
Date Reported: 8/28/2023

Client: GeoEngineers
Project: S Jackson Street
Lab ID: 2308151-008
Client Sample ID: UST3-WSW-93

Collection Date: 8/8/2023 3:30:00 PM
Matrix: Soil

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 41166 Analyst: KJ

Trans-1,3-Dichloropropylene	ND	0.0204		mg/Kg-dry	1	8/12/2023 7:06:14 PM
Methyl Isobutyl Ketone (MIBK)	ND	0.0611		mg/Kg-dry	1	8/12/2023 7:06:14 PM
1,1,2-Trichloroethane	ND	0.0127		mg/Kg-dry	1	8/12/2023 7:06:14 PM
1,3-Dichloropropane	ND	0.0102		mg/Kg-dry	1	8/12/2023 7:06:14 PM
Tetrachloroethene (PCE)	ND	0.0153		mg/Kg-dry	1	8/12/2023 7:06:14 PM
Dibromochloromethane	ND	0.0153		mg/Kg-dry	1	8/12/2023 7:06:14 PM
1,2-Dibromoethane (EDB)	ND	0.0102		mg/Kg-dry	1	8/12/2023 7:06:14 PM
2-Hexanone (MBK)	ND	0.0637		mg/Kg-dry	1	8/12/2023 7:06:14 PM
Chlorobenzene	ND	0.0153		mg/Kg-dry	1	8/12/2023 7:06:14 PM
1,1,1,2-Tetrachloroethane	ND	0.0255		mg/Kg-dry	1	8/12/2023 7:06:14 PM
Ethylbenzene	ND	0.0255		mg/Kg-dry	1	8/12/2023 7:06:14 PM
m,p-Xylene	ND	0.0509		mg/Kg-dry	1	8/12/2023 7:06:14 PM
o-Xylene	ND	0.0255		mg/Kg-dry	1	8/12/2023 7:06:14 PM
Styrene	ND	0.0102		mg/Kg-dry	1	8/12/2023 7:06:14 PM
Isopropylbenzene	ND	0.0153		mg/Kg-dry	1	8/12/2023 7:06:14 PM
Bromoform	ND	0.0153		mg/Kg-dry	1	8/12/2023 7:06:14 PM
1,1,2,2-Tetrachloroethane	ND	0.204	Q	mg/Kg-dry	1	8/12/2023 7:06:14 PM
n-Propylbenzene	ND	0.0153		mg/Kg-dry	1	8/12/2023 7:06:14 PM
Bromobenzene	ND	0.0127		mg/Kg-dry	1	8/12/2023 7:06:14 PM
1,3,5-Trimethylbenzene	ND	0.0153		mg/Kg-dry	1	8/12/2023 7:06:14 PM
2-Chlorotoluene	ND	0.0168		mg/Kg-dry	1	8/12/2023 7:06:14 PM
4-Chlorotoluene	ND	0.0168		mg/Kg-dry	1	8/12/2023 7:06:14 PM
tert-Butylbenzene	ND	0.0153		mg/Kg-dry	1	8/12/2023 7:06:14 PM
1,2,3-Trichloropropane	ND	0.0306		mg/Kg-dry	1	8/12/2023 7:06:14 PM
1,2,4-Trichlorobenzene	ND	0.0611		mg/Kg-dry	1	8/12/2023 7:06:14 PM
sec-Butylbenzene	ND	0.153		mg/Kg-dry	1	8/12/2023 7:06:14 PM
4-Isopropyltoluene	ND	0.204		mg/Kg-dry	1	8/12/2023 7:06:14 PM
1,3-Dichlorobenzene	ND	0.0204		mg/Kg-dry	1	8/12/2023 7:06:14 PM
1,4-Dichlorobenzene	ND	0.0153		mg/Kg-dry	1	8/12/2023 7:06:14 PM
n-Butylbenzene	ND	0.0204		mg/Kg-dry	1	8/12/2023 7:06:14 PM
1,2-Dichlorobenzene	ND	0.0204		mg/Kg-dry	1	8/12/2023 7:06:14 PM
1,2-Dibromo-3-chloropropane	ND	0.0306		mg/Kg-dry	1	8/12/2023 7:06:14 PM
1,2,4-Trimethylbenzene	ND	0.0153		mg/Kg-dry	1	8/12/2023 7:06:14 PM
Hexachloro-1,3-butadiene	ND	0.0407		mg/Kg-dry	1	8/12/2023 7:06:14 PM
Naphthalene	ND	0.102		mg/Kg-dry	1	8/12/2023 7:06:14 PM
1,2,3-Trichlorobenzene	ND	0.0611		mg/Kg-dry	1	8/12/2023 7:06:14 PM
Surr: Dibromofluoromethane	98.5	79.5 - 124		%Rec	1	8/12/2023 7:06:14 PM
Surr: Toluene-d8	97.5	77.5 - 124		%Rec	1	8/12/2023 7:06:14 PM
Surr: 1-Bromo-4-fluorobenzene	97.6	60.5 - 139		%Rec	1	8/12/2023 7:06:14 PM



Analytical Report

Work Order: 2308151
 Date Reported: 8/28/2023

Client: GeoEngineers
Project: S Jackson Street
Lab ID: 2308151-008
Client Sample ID: UST3-WSW-93

Collection Date: 8/8/2023 3:30:00 PM
Matrix: Soil

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 41166 Analyst: KJ

NOTES:

Q - Associated calibration verification is below acceptance criteria. Result may be low-biased.

Total Metals by EPA Method 6020B

Batch ID: 41172 Analyst: JR

Lead	1.78	0.852		mg/Kg-dry	1	8/11/2023 1:49:00 PM
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Sample Moisture (Percent Moisture)

Batch ID: R85861 Analyst: MP

Percent Moisture	7.76	0.500		wt%	1	8/11/2023 8:37:20 AM
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Analytical Report

Work Order: 2308151
Date Reported: 8/28/2023

Client: GeoEngineers
Project: S Jackson Street
Lab ID: 2308151-009
Client Sample ID: UST3-B-90

Collection Date: 8/8/2023 3:20:00 PM
Matrix: Soil

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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Polychlorinated Biphenyls (PCB) by EPA Method 8082

Batch ID: 41176 Analyst: SK

Aroclor 1016	ND	0.0221		mg/Kg-dry	1	8/10/2023 8:28:34 PM
Aroclor 1221	ND	0.0221		mg/Kg-dry	1	8/10/2023 8:28:34 PM
Aroclor 1232	ND	0.0221		mg/Kg-dry	1	8/10/2023 8:28:34 PM
Aroclor 1242	ND	0.0221		mg/Kg-dry	1	8/10/2023 8:28:34 PM
Aroclor 1248	ND	0.0221		mg/Kg-dry	1	8/10/2023 8:28:34 PM
Aroclor 1254	ND	0.0221		mg/Kg-dry	1	8/10/2023 8:28:34 PM
Aroclor 1260	ND	0.0221		mg/Kg-dry	1	8/10/2023 8:28:34 PM
Aroclor 1262	ND	0.0221		mg/Kg-dry	1	8/10/2023 8:28:34 PM
Aroclor 1268	ND	0.0221		mg/Kg-dry	1	8/10/2023 8:28:34 PM
Total PCBs	ND	0.0221		mg/Kg-dry	1	8/10/2023 8:28:34 PM
Surr: Decachlorobiphenyl	38.3	5 - 160		%Rec	1	8/10/2023 8:28:34 PM
Surr: Tetrachloro-m-xylene	76.2	57.3 - 159		%Rec	1	8/10/2023 8:28:34 PM

Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Batch ID: 41170 Analyst: AP

Diesel Range Organics	985	55.9		mg/Kg-dry	1	8/10/2023 7:16:28 PM
Heavy Oil	5,480	112		mg/Kg-dry	1	8/10/2023 7:16:28 PM
Total Petroleum Hydrocarbons	6,470	168		mg/Kg-dry	1	8/10/2023 7:16:28 PM
Surr: 2-Fluorobiphenyl	98.7	50 - 150		%Rec	1	8/10/2023 7:16:28 PM
Surr: o-Terphenyl	106	50 - 150		%Rec	1	8/10/2023 7:16:28 PM

NOTES:

Diesel range detection is due to overlap with gasoline-range material

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Batch ID: 41173 Analyst: SH

Naphthalene	ND	21.6		µg/Kg-dry	1	8/10/2023 11:47:35 PM
2-Methylnaphthalene	4,390	21.6		µg/Kg-dry	1	8/10/2023 11:47:35 PM
1-Methylnaphthalene	2,720	21.6		µg/Kg-dry	1	8/10/2023 11:47:35 PM
Acenaphthylene	ND	21.6		µg/Kg-dry	1	8/10/2023 11:47:35 PM
Acenaphthene	61.8	21.6		µg/Kg-dry	1	8/10/2023 11:47:35 PM
Fluorene	93.4	21.6		µg/Kg-dry	1	8/10/2023 11:47:35 PM
Phenanthrene	318	21.6		µg/Kg-dry	1	8/10/2023 11:47:35 PM
Anthracene	69.7	21.6		µg/Kg-dry	1	8/10/2023 11:47:35 PM
Fluoranthene	275	21.6		µg/Kg-dry	1	8/10/2023 11:47:35 PM
Pyrene	362	43.2		µg/Kg-dry	1	8/10/2023 11:47:35 PM
Benz(a)anthracene	260	21.6		µg/Kg-dry	1	8/10/2023 11:47:35 PM
Chrysene	132	21.6		µg/Kg-dry	1	8/10/2023 11:47:35 PM
Benzo(b)fluoranthene	ND	27.0		µg/Kg-dry	1	8/10/2023 11:47:35 PM
Benzo(k)fluoranthene	ND	27.0		µg/Kg-dry	1	8/10/2023 11:47:35 PM



Analytical Report

Work Order: 2308151
Date Reported: 8/28/2023

Client: GeoEngineers
Project: S Jackson Street
Lab ID: 2308151-009
Client Sample ID: UST3-B-90

Collection Date: 8/8/2023 3:20:00 PM
Matrix: Soil

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Batch ID: 41173 Analyst: SH

Benzo(a)pyrene	ND	32.4		µg/Kg-dry	1	8/10/2023 11:47:35 PM
Indeno(1,2,3-cd)pyrene	ND	43.2		µg/Kg-dry	1	8/10/2023 11:47:35 PM
Dibenz(a,h)anthracene	ND	54.0		µg/Kg-dry	1	8/10/2023 11:47:35 PM
Benzo(g,h,i)perylene	108	54.0		µg/Kg-dry	1	8/10/2023 11:47:35 PM
Surr: 2-Fluorobiphenyl	119	22.2 - 146		%Rec	1	8/10/2023 11:47:35 PM
Surr: Terphenyl-d14 (surr)	146	20.2 - 159		%Rec	1	8/10/2023 11:47:35 PM

Gasoline by NWTPH-Gx

Batch ID: 41178 Analyst: CC

Gasoline Range Organics	1,970	277	D	mg/Kg-dry	50	8/14/2023 2:15:59 PM
Surr: Toluene-d8	100	65 - 135	D	%Rec	50	8/14/2023 2:15:59 PM
Surr: 4-Bromofluorobenzene	98.4	65 - 135	D	%Rec	50	8/14/2023 2:15:59 PM

Volatile Organic Compounds by EPA Method 8260D

Batch ID: 41178 Analyst: MS

Dichlorodifluoromethane (CFC-12)	ND	0.0166		mg/Kg-dry	1	8/12/2023 7:38:03 PM
Chloromethane	ND	0.0554		mg/Kg-dry	1	8/12/2023 7:38:03 PM
Vinyl chloride	ND	0.0277		mg/Kg-dry	1	8/12/2023 7:38:03 PM
Bromomethane	ND	0.0277		mg/Kg-dry	1	8/12/2023 7:38:03 PM
Trichlorofluoromethane (CFC-11)	ND	0.0222		mg/Kg-dry	1	8/12/2023 7:38:03 PM
Chloroethane	ND	0.0832		mg/Kg-dry	1	8/12/2023 7:38:03 PM
1,1-Dichloroethene	ND	0.111		mg/Kg-dry	1	8/12/2023 7:38:03 PM
Acetone	ND	0.277		mg/Kg-dry	1	8/12/2023 7:38:03 PM
Methylene chloride	ND	0.0388		mg/Kg-dry	1	8/12/2023 7:38:03 PM
trans-1,2-Dichloroethene	ND	0.0111		mg/Kg-dry	1	8/12/2023 7:38:03 PM
Methyl tert-butyl ether (MTBE)	ND	0.0222		mg/Kg-dry	1	8/12/2023 7:38:03 PM
1,1-Dichloroethane	ND	0.0277		mg/Kg-dry	1	8/12/2023 7:38:03 PM
cis-1,2-Dichloroethene	ND	0.0166		mg/Kg-dry	1	8/12/2023 7:38:03 PM
(MEK) 2-Butanone	ND	0.333		mg/Kg-dry	1	8/12/2023 7:38:03 PM
Chloroform	ND	0.0194		mg/Kg-dry	1	8/12/2023 7:38:03 PM
1,1,1-Trichloroethane (TCA)	ND	0.0222		mg/Kg-dry	1	8/12/2023 7:38:03 PM
1,1-Dichloropropene	ND	0.0222		mg/Kg-dry	1	8/12/2023 7:38:03 PM
Carbon tetrachloride	ND	0.0277		mg/Kg-dry	1	8/12/2023 7:38:03 PM
1,2-Dichloroethane (EDC)	ND	0.0222		mg/Kg-dry	1	8/12/2023 7:38:03 PM
Benzene	ND	0.0194		mg/Kg-dry	1	8/12/2023 7:38:03 PM
Trichloroethene (TCE)	ND	0.0166		mg/Kg-dry	1	8/12/2023 7:38:03 PM
1,2-Dichloropropane	ND	0.0277		mg/Kg-dry	1	8/12/2023 7:38:03 PM
Bromodichloromethane	ND	0.0277		mg/Kg-dry	1	8/12/2023 7:38:03 PM
Dibromomethane	ND	0.0139		mg/Kg-dry	1	8/12/2023 7:38:03 PM



Analytical Report

Work Order: 2308151
Date Reported: 8/28/2023

Client: GeoEngineers
Project: S Jackson Street
Lab ID: 2308151-009
Client Sample ID: UST3-B-90

Collection Date: 8/8/2023 3:20:00 PM
Matrix: Soil

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 41178 Analyst: MS

cis-1,3-Dichloropropene	ND	0.0166		mg/Kg-dry	1	8/12/2023 7:38:03 PM
Toluene	ND	0.0333		mg/Kg-dry	1	8/12/2023 7:38:03 PM
Trans-1,3-Dichloropropylene	ND	0.0222		mg/Kg-dry	1	8/12/2023 7:38:03 PM
Methyl Isobutyl Ketone (MIBK)	ND	0.0665		mg/Kg-dry	1	8/12/2023 7:38:03 PM
1,1,2-Trichloroethane	ND	0.0139		mg/Kg-dry	1	8/12/2023 7:38:03 PM
1,3-Dichloropropane	ND	0.0111		mg/Kg-dry	1	8/12/2023 7:38:03 PM
Tetrachloroethene (PCE)	ND	0.0166		mg/Kg-dry	1	8/12/2023 7:38:03 PM
Dibromochloromethane	ND	0.0166		mg/Kg-dry	1	8/12/2023 7:38:03 PM
1,2-Dibromoethane (EDB)	ND	0.0111		mg/Kg-dry	1	8/12/2023 7:38:03 PM
2-Hexanone (MBK)	ND	0.0693		mg/Kg-dry	1	8/12/2023 7:38:03 PM
Chlorobenzene	ND	0.0166		mg/Kg-dry	1	8/12/2023 7:38:03 PM
1,1,1,2-Tetrachloroethane	ND	0.0277		mg/Kg-dry	1	8/12/2023 7:38:03 PM
Ethylbenzene	0.491	0.0277		mg/Kg-dry	1	8/12/2023 7:38:03 PM
m,p-Xylene	1.70	0.0554		mg/Kg-dry	1	8/12/2023 7:38:03 PM
o-Xylene	0.0678	0.0277		mg/Kg-dry	1	8/12/2023 7:38:03 PM
Styrene	ND	0.0111		mg/Kg-dry	1	8/12/2023 7:38:03 PM
Isopropylbenzene	1.10	0.0166		mg/Kg-dry	1	8/12/2023 7:38:03 PM
Bromoform	ND	0.0166		mg/Kg-dry	1	8/12/2023 7:38:03 PM
1,1,2,2-Tetrachloroethane	ND	0.222	Q	mg/Kg-dry	1	8/12/2023 7:38:03 PM
n-Propylbenzene	2.76	0.832	D	mg/Kg-dry	50	8/14/2023 2:15:59 PM
Bromobenzene	ND	0.0139		mg/Kg-dry	1	8/12/2023 7:38:03 PM
1,3,5-Trimethylbenzene	0.304	0.0166		mg/Kg-dry	1	8/12/2023 7:38:03 PM
2-Chlorotoluene	ND	0.0183		mg/Kg-dry	1	8/12/2023 7:38:03 PM
4-Chlorotoluene	ND	0.0183		mg/Kg-dry	1	8/12/2023 7:38:03 PM
tert-Butylbenzene	ND	0.0166		mg/Kg-dry	1	8/12/2023 7:38:03 PM
1,2,3-Trichloropropane	ND	0.0333		mg/Kg-dry	1	8/12/2023 7:38:03 PM
1,2,4-Trichlorobenzene	ND	0.0665		mg/Kg-dry	1	8/12/2023 7:38:03 PM
sec-Butylbenzene	1.40	0.166		mg/Kg-dry	1	8/12/2023 7:38:03 PM
4-Isopropyltoluene	1.32	0.222		mg/Kg-dry	1	8/12/2023 7:38:03 PM
1,3-Dichlorobenzene	ND	0.0222		mg/Kg-dry	1	8/12/2023 7:38:03 PM
1,4-Dichlorobenzene	ND	0.0166		mg/Kg-dry	1	8/12/2023 7:38:03 PM
n-Butylbenzene	2.25	1.11	D	mg/Kg-dry	50	8/14/2023 2:15:59 PM
1,2-Dichlorobenzene	ND	0.0222		mg/Kg-dry	1	8/12/2023 7:38:03 PM
1,2-Dibromo-3-chloropropane	ND	0.0333		mg/Kg-dry	1	8/12/2023 7:38:03 PM
1,2,4-Trimethylbenzene	0.760	0.0166		mg/Kg-dry	1	8/12/2023 7:38:03 PM
Hexachloro-1,3-butadiene	ND	0.0444		mg/Kg-dry	1	8/12/2023 7:38:03 PM
Naphthalene	ND	0.111		mg/Kg-dry	1	8/12/2023 7:38:03 PM
1,2,3-Trichlorobenzene	ND	0.0665		mg/Kg-dry	1	8/12/2023 7:38:03 PM
Surr: Dibromofluoromethane	103	79.5 - 124		%Rec	1	8/12/2023 7:38:03 PM



Analytical Report

Work Order: 2308151
Date Reported: 8/28/2023

Client: GeoEngineers

Collection Date: 8/8/2023 3:20:00 PM

Project: S Jackson Street

Lab ID: 2308151-009

Matrix: Soil

Client Sample ID: UST3-B-90

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 41178 Analyst: MS

Surr: Toluene-d8	86.5	77.5 - 124		%Rec	1	8/12/2023 7:38:03 PM
Surr: 1-Bromo-4-fluorobenzene	117	60.5 - 139		%Rec	1	8/12/2023 7:38:03 PM

NOTES:

Q - Associated calibration verification is below acceptance criteria. Result may be low-biased.

Total Metals by EPA Method 6020B

Batch ID: 41172 Analyst: JR

Lead	3.21	0.852		mg/Kg-dry	1	8/11/2023 1:57:00 PM
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Sample Moisture (Percent Moisture)

Batch ID: R85861 Analyst: MP

Percent Moisture	11.4	0.500		wt%	1	8/11/2023 8:37:20 AM
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Analytical Report

Work Order: 2308151
Date Reported: 8/28/2023

Client: GeoEngineers
Project: S Jackson Street
Lab ID: 2308151-010
Client Sample ID: UST4-NSW-93

Collection Date: 8/9/2023 7:45:00 AM
Matrix: Soil

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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Polychlorinated Biphenyls (PCB) by EPA Method 8082

Batch ID: 41176 Analyst: SK

Aroclor 1016	ND	0.0238		mg/Kg-dry	1	8/10/2023 8:57:59 PM
Aroclor 1221	ND	0.0238		mg/Kg-dry	1	8/10/2023 8:57:59 PM
Aroclor 1232	ND	0.0238		mg/Kg-dry	1	8/10/2023 8:57:59 PM
Aroclor 1242	ND	0.0238		mg/Kg-dry	1	8/10/2023 8:57:59 PM
Aroclor 1248	ND	0.0238		mg/Kg-dry	1	8/10/2023 8:57:59 PM
Aroclor 1254	ND	0.0238		mg/Kg-dry	1	8/10/2023 8:57:59 PM
Aroclor 1260	ND	0.0238		mg/Kg-dry	1	8/10/2023 8:57:59 PM
Aroclor 1262	ND	0.0238		mg/Kg-dry	1	8/10/2023 8:57:59 PM
Aroclor 1268	ND	0.0238		mg/Kg-dry	1	8/10/2023 8:57:59 PM
Total PCBs	ND	0.0238		mg/Kg-dry	1	8/10/2023 8:57:59 PM
Surr: Decachlorobiphenyl	23.7	5 - 160		%Rec	1	8/10/2023 8:57:59 PM
Surr: Tetrachloro-m-xylene	60.3	57.3 - 159		%Rec	1	8/10/2023 8:57:59 PM

Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Batch ID: 41170 Analyst: AP

Diesel Range Organics	ND	55.2		mg/Kg-dry	1	8/11/2023 9:12:22 AM
Heavy Oil	ND	110		mg/Kg-dry	1	8/11/2023 9:12:22 AM
Total Petroleum Hydrocarbons	ND	166		mg/Kg-dry	1	8/11/2023 9:12:22 AM
Surr: 2-Fluorobiphenyl	113	50 - 150		%Rec	1	8/11/2023 9:12:22 AM
Surr: o-Terphenyl	116	50 - 150		%Rec	1	8/11/2023 9:12:22 AM

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Batch ID: 41173 Analyst: SH

Naphthalene	ND	24.1		µg/Kg-dry	1	8/11/2023 12:15:42 AM
2-Methylnaphthalene	ND	24.1		µg/Kg-dry	1	8/11/2023 12:15:42 AM
1-Methylnaphthalene	ND	24.1		µg/Kg-dry	1	8/11/2023 12:15:42 AM
Acenaphthylene	ND	24.1		µg/Kg-dry	1	8/11/2023 12:15:42 AM
Acenaphthene	ND	24.1		µg/Kg-dry	1	8/11/2023 12:15:42 AM
Fluorene	ND	24.1		µg/Kg-dry	1	8/11/2023 12:15:42 AM
Phenanthrene	ND	24.1		µg/Kg-dry	1	8/11/2023 12:15:42 AM
Anthracene	ND	24.1		µg/Kg-dry	1	8/11/2023 12:15:42 AM
Fluoranthene	ND	24.1		µg/Kg-dry	1	8/11/2023 12:15:42 AM
Pyrene	ND	48.2		µg/Kg-dry	1	8/11/2023 12:15:42 AM
Benz(a)anthracene	ND	24.1		µg/Kg-dry	1	8/11/2023 12:15:42 AM
Chrysene	ND	24.1		µg/Kg-dry	1	8/11/2023 12:15:42 AM
Benzo(b)fluoranthene	ND	30.1		µg/Kg-dry	1	8/11/2023 12:15:42 AM
Benzo(k)fluoranthene	ND	30.1		µg/Kg-dry	1	8/11/2023 12:15:42 AM
Benzo(a)pyrene	ND	36.1		µg/Kg-dry	1	8/11/2023 12:15:42 AM
Indeno(1,2,3-cd)pyrene	ND	48.2		µg/Kg-dry	1	8/11/2023 12:15:42 AM



Analytical Report

Work Order: 2308151
Date Reported: 8/28/2023

Client: GeoEngineers
Project: S Jackson Street
Lab ID: 2308151-010
Client Sample ID: UST4-NSW-93

Collection Date: 8/9/2023 7:45:00 AM
Matrix: Soil

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Batch ID: 41173 Analyst: SH

Dibenz(a,h)anthracene	ND	60.2		µg/Kg-dry	1	8/11/2023 12:15:42 AM
Benzo(g,h,i)perylene	ND	60.2		µg/Kg-dry	1	8/11/2023 12:15:42 AM
Surr: 2-Fluorobiphenyl	115	22.2 - 146		%Rec	1	8/11/2023 12:15:42 AM
Surr: Terphenyl-d14 (surr)	136	20.2 - 159		%Rec	1	8/11/2023 12:15:42 AM

Gasoline by NWTPH-Gx

Batch ID: 41166 Analyst: CC

Gasoline Range Organics	ND	5.16		mg/Kg-dry	1	8/14/2023 12:06:25 PM
Surr: Toluene-d8	98.3	65 - 135		%Rec	1	8/14/2023 12:06:25 PM
Surr: 4-Bromofluorobenzene	98.1	65 - 135		%Rec	1	8/14/2023 12:06:25 PM

Volatile Organic Compounds by EPA Method 8260D

Batch ID: 41166 Analyst: KJ

Dichlorodifluoromethane (CFC-12)	ND	0.0155		mg/Kg-dry	1	8/12/2023 8:10:10 PM
Chloromethane	ND	0.0516		mg/Kg-dry	1	8/12/2023 8:10:10 PM
Vinyl chloride	ND	0.0258		mg/Kg-dry	1	8/12/2023 8:10:10 PM
Bromomethane	ND	0.0258		mg/Kg-dry	1	8/12/2023 8:10:10 PM
Trichlorofluoromethane (CFC-11)	ND	0.0206		mg/Kg-dry	1	8/12/2023 8:10:10 PM
Chloroethane	ND	0.0774		mg/Kg-dry	1	8/12/2023 8:10:10 PM
1,1-Dichloroethene	ND	0.103		mg/Kg-dry	1	8/12/2023 8:10:10 PM
Acetone	ND	0.258		mg/Kg-dry	1	8/12/2023 8:10:10 PM
Methylene chloride	ND	0.0361		mg/Kg-dry	1	8/12/2023 8:10:10 PM
trans-1,2-Dichloroethene	ND	0.0103		mg/Kg-dry	1	8/12/2023 8:10:10 PM
Methyl tert-butyl ether (MTBE)	ND	0.0206		mg/Kg-dry	1	8/12/2023 8:10:10 PM
1,1-Dichloroethane	ND	0.0258		mg/Kg-dry	1	8/12/2023 8:10:10 PM
cis-1,2-Dichloroethene	ND	0.0155		mg/Kg-dry	1	8/12/2023 8:10:10 PM
(MEK) 2-Butanone	ND	0.310		mg/Kg-dry	1	8/12/2023 8:10:10 PM
Chloroform	ND	0.0181		mg/Kg-dry	1	8/12/2023 8:10:10 PM
1,1,1-Trichloroethane (TCA)	ND	0.0206		mg/Kg-dry	1	8/12/2023 8:10:10 PM
1,1-Dichloropropene	ND	0.0206		mg/Kg-dry	1	8/12/2023 8:10:10 PM
Carbon tetrachloride	ND	0.0258		mg/Kg-dry	1	8/12/2023 8:10:10 PM
1,2-Dichloroethane (EDC)	ND	0.0206		mg/Kg-dry	1	8/12/2023 8:10:10 PM
Benzene	ND	0.0181		mg/Kg-dry	1	8/12/2023 8:10:10 PM
Trichloroethene (TCE)	ND	0.0155		mg/Kg-dry	1	8/12/2023 8:10:10 PM
1,2-Dichloropropane	ND	0.0258		mg/Kg-dry	1	8/12/2023 8:10:10 PM
Bromodichloromethane	ND	0.0258		mg/Kg-dry	1	8/12/2023 8:10:10 PM
Dibromomethane	ND	0.0129		mg/Kg-dry	1	8/12/2023 8:10:10 PM
cis-1,3-Dichloropropene	ND	0.0155		mg/Kg-dry	1	8/12/2023 8:10:10 PM
Toluene	ND	0.0310		mg/Kg-dry	1	8/12/2023 8:10:10 PM



Analytical Report

Work Order: 2308151
Date Reported: 8/28/2023

Client: GeoEngineers
Project: S Jackson Street
Lab ID: 2308151-010
Client Sample ID: UST4-NSW-93

Collection Date: 8/9/2023 7:45:00 AM
Matrix: Soil

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 41166 Analyst: KJ

Trans-1,3-Dichloropropylene	ND	0.0206		mg/Kg-dry	1	8/12/2023 8:10:10 PM
Methyl Isobutyl Ketone (MIBK)	ND	0.0619		mg/Kg-dry	1	8/12/2023 8:10:10 PM
1,1,2-Trichloroethane	ND	0.0129		mg/Kg-dry	1	8/12/2023 8:10:10 PM
1,3-Dichloropropane	ND	0.0103		mg/Kg-dry	1	8/12/2023 8:10:10 PM
Tetrachloroethene (PCE)	ND	0.0155		mg/Kg-dry	1	8/12/2023 8:10:10 PM
Dibromochloromethane	ND	0.0155		mg/Kg-dry	1	8/12/2023 8:10:10 PM
1,2-Dibromoethane (EDB)	ND	0.0103		mg/Kg-dry	1	8/12/2023 8:10:10 PM
2-Hexanone (MBK)	ND	0.0645		mg/Kg-dry	1	8/12/2023 8:10:10 PM
Chlorobenzene	ND	0.0155		mg/Kg-dry	1	8/12/2023 8:10:10 PM
1,1,1,2-Tetrachloroethane	ND	0.0258		mg/Kg-dry	1	8/12/2023 8:10:10 PM
Ethylbenzene	ND	0.0258		mg/Kg-dry	1	8/12/2023 8:10:10 PM
m,p-Xylene	ND	0.0516		mg/Kg-dry	1	8/12/2023 8:10:10 PM
o-Xylene	ND	0.0258		mg/Kg-dry	1	8/12/2023 8:10:10 PM
Styrene	ND	0.0103		mg/Kg-dry	1	8/12/2023 8:10:10 PM
Isopropylbenzene	ND	0.0155		mg/Kg-dry	1	8/12/2023 8:10:10 PM
Bromoform	ND	0.0155		mg/Kg-dry	1	8/12/2023 8:10:10 PM
1,1,2,2-Tetrachloroethane	ND	0.206	Q	mg/Kg-dry	1	8/12/2023 8:10:10 PM
n-Propylbenzene	0.0190	0.0155		mg/Kg-dry	1	8/14/2023 12:06:25 PM
Bromobenzene	ND	0.0129		mg/Kg-dry	1	8/12/2023 8:10:10 PM
1,3,5-Trimethylbenzene	ND	0.0155		mg/Kg-dry	1	8/12/2023 8:10:10 PM
2-Chlorotoluene	ND	0.0170		mg/Kg-dry	1	8/12/2023 8:10:10 PM
4-Chlorotoluene	ND	0.0170		mg/Kg-dry	1	8/12/2023 8:10:10 PM
tert-Butylbenzene	ND	0.0155		mg/Kg-dry	1	8/12/2023 8:10:10 PM
1,2,3-Trichloropropane	ND	0.0310		mg/Kg-dry	1	8/12/2023 8:10:10 PM
1,2,4-Trichlorobenzene	ND	0.0619		mg/Kg-dry	1	8/12/2023 8:10:10 PM
sec-Butylbenzene	ND	0.155		mg/Kg-dry	1	8/12/2023 8:10:10 PM
4-Isopropyltoluene	ND	0.206		mg/Kg-dry	1	8/12/2023 8:10:10 PM
1,3-Dichlorobenzene	ND	0.0206		mg/Kg-dry	1	8/12/2023 8:10:10 PM
1,4-Dichlorobenzene	ND	0.0155		mg/Kg-dry	1	8/12/2023 8:10:10 PM
n-Butylbenzene	ND	0.0206		mg/Kg-dry	1	8/14/2023 12:06:25 PM
1,2-Dichlorobenzene	ND	0.0206		mg/Kg-dry	1	8/12/2023 8:10:10 PM
1,2-Dibromo-3-chloropropane	ND	0.0310		mg/Kg-dry	1	8/12/2023 8:10:10 PM
1,2,4-Trimethylbenzene	0.0232	0.0155		mg/Kg-dry	1	8/12/2023 8:10:10 PM
Hexachloro-1,3-butadiene	ND	0.0413		mg/Kg-dry	1	8/12/2023 8:10:10 PM
Naphthalene	ND	0.103		mg/Kg-dry	1	8/12/2023 8:10:10 PM
1,2,3-Trichlorobenzene	ND	0.0619		mg/Kg-dry	1	8/12/2023 8:10:10 PM
Surr: Dibromofluoromethane	96.8	79.5 - 124		%Rec	1	8/12/2023 8:10:10 PM
Surr: Toluene-d8	96.6	77.5 - 124		%Rec	1	8/12/2023 8:10:10 PM
Surr: 1-Bromo-4-fluorobenzene	97.8	60.5 - 139		%Rec	1	8/12/2023 8:10:10 PM



Analytical Report

Work Order: 2308151
 Date Reported: 8/28/2023

Client: GeoEngineers
Project: S Jackson Street
Lab ID: 2308151-010
Client Sample ID: UST4-NSW-93

Collection Date: 8/9/2023 7:45:00 AM
Matrix: Soil

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 41166 Analyst: KJ

NOTES:

Q - Associated calibration verification is below acceptance criteria. Result may be low-biased.

Total Metals by EPA Method 6020B

Batch ID: 41172 Analyst: JR

Lead	7.96	0.943		mg/Kg-dry	1	8/11/2023 1:59:00 PM
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Sample Moisture (Percent Moisture)

Batch ID: R85861 Analyst: MP

Percent Moisture	17.0	0.500		wt%	1	8/11/2023 8:37:20 AM
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Analytical Report

Work Order: 2308151
Date Reported: 8/28/2023

Client: GeoEngineers
Project: S Jackson Street
Lab ID: 2308151-011
Client Sample ID: UST4-SSW-93

Collection Date: 8/9/2023 7:50:00 AM
Matrix: Soil

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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Polychlorinated Biphenyls (PCB) by EPA Method 8082

Batch ID: 41176 Analyst: SK

Aroclor 1016	ND	0.0221		mg/Kg-dry	1	8/10/2023 9:07:47 PM
Aroclor 1221	ND	0.0221		mg/Kg-dry	1	8/10/2023 9:07:47 PM
Aroclor 1232	ND	0.0221		mg/Kg-dry	1	8/10/2023 9:07:47 PM
Aroclor 1242	ND	0.0221		mg/Kg-dry	1	8/10/2023 9:07:47 PM
Aroclor 1248	ND	0.0221		mg/Kg-dry	1	8/10/2023 9:07:47 PM
Aroclor 1254	ND	0.0221		mg/Kg-dry	1	8/10/2023 9:07:47 PM
Aroclor 1260	ND	0.0221		mg/Kg-dry	1	8/10/2023 9:07:47 PM
Aroclor 1262	ND	0.0221		mg/Kg-dry	1	8/10/2023 9:07:47 PM
Aroclor 1268	ND	0.0221		mg/Kg-dry	1	8/10/2023 9:07:47 PM
Total PCBs	ND	0.0221		mg/Kg-dry	1	8/10/2023 9:07:47 PM
Surr: Decachlorobiphenyl	68.1	5 - 160		%Rec	1	8/10/2023 9:07:47 PM
Surr: Tetrachloro-m-xylene	105	57.3 - 159		%Rec	1	8/10/2023 9:07:47 PM

Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Batch ID: 41170 Analyst: AP

Diesel Range Organics	74.3	51.0		mg/Kg-dry	1	8/10/2023 8:22:17 PM
Heavy Oil	ND	102		mg/Kg-dry	1	8/10/2023 8:22:17 PM
Total Petroleum Hydrocarbons	ND	153		mg/Kg-dry	1	8/10/2023 8:22:17 PM
Surr: 2-Fluorobiphenyl	102	50 - 150		%Rec	1	8/10/2023 8:22:17 PM
Surr: o-Terphenyl	106	50 - 150		%Rec	1	8/10/2023 8:22:17 PM

NOTES:

Detection is due to overlap with gasoline-range material

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Batch ID: 41173 Analyst: SH

Naphthalene	ND	22.2		µg/Kg-dry	1	8/11/2023 12:43:39 AM
2-Methylnaphthalene	291	22.2		µg/Kg-dry	1	8/11/2023 12:43:39 AM
1-Methylnaphthalene	206	22.2		µg/Kg-dry	1	8/11/2023 12:43:39 AM
Acenaphthylene	ND	22.2		µg/Kg-dry	1	8/11/2023 12:43:39 AM
Acenaphthene	ND	22.2		µg/Kg-dry	1	8/11/2023 12:43:39 AM
Fluorene	ND	22.2		µg/Kg-dry	1	8/11/2023 12:43:39 AM
Phenanthrene	ND	22.2		µg/Kg-dry	1	8/11/2023 12:43:39 AM
Anthracene	ND	22.2		µg/Kg-dry	1	8/11/2023 12:43:39 AM
Fluoranthene	ND	22.2		µg/Kg-dry	1	8/11/2023 12:43:39 AM
Pyrene	ND	44.4		µg/Kg-dry	1	8/11/2023 12:43:39 AM
Benz(a)anthracene	ND	22.2		µg/Kg-dry	1	8/11/2023 12:43:39 AM
Chrysene	ND	22.2		µg/Kg-dry	1	8/11/2023 12:43:39 AM
Benzo(b)fluoranthene	ND	27.8		µg/Kg-dry	1	8/11/2023 12:43:39 AM
Benzo(k)fluoranthene	ND	27.8		µg/Kg-dry	1	8/11/2023 12:43:39 AM



Analytical Report

Work Order: 2308151
Date Reported: 8/28/2023

Client: GeoEngineers
Project: S Jackson Street
Lab ID: 2308151-011
Client Sample ID: UST4-SSW-93

Collection Date: 8/9/2023 7:50:00 AM
Matrix: Soil

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Batch ID: 41173 Analyst: SH

Benzo(a)pyrene	ND	33.3		µg/Kg-dry	1	8/11/2023 12:43:39 AM
Indeno(1,2,3-cd)pyrene	ND	44.4		µg/Kg-dry	1	8/11/2023 12:43:39 AM
Dibenz(a,h)anthracene	ND	55.5		µg/Kg-dry	1	8/11/2023 12:43:39 AM
Benzo(g,h,i)perylene	ND	55.5		µg/Kg-dry	1	8/11/2023 12:43:39 AM
Surr: 2-Fluorobiphenyl	108	22.2 - 146		%Rec	1	8/11/2023 12:43:39 AM
Surr: Terphenyl-d14 (surr)	122	20.2 - 159		%Rec	1	8/11/2023 12:43:39 AM

Gasoline by NWTPH-Gx

Batch ID: 41166 Analyst: CC

Gasoline Range Organics	96.9	54.2	D	mg/Kg-dry	10	8/14/2023 1:43:27 PM
Surr: Toluene-d8	98.8	65 - 135	D	%Rec	10	8/14/2023 1:43:27 PM
Surr: 4-Bromofluorobenzene	98.9	65 - 135	D	%Rec	10	8/14/2023 1:43:27 PM

Volatile Organic Compounds by EPA Method 8260D

Batch ID: 41166 Analyst: KJ

Dichlorodifluoromethane (CFC-12)	ND	0.0163		mg/Kg-dry	1	8/12/2023 8:42:17 PM
Chloromethane	ND	0.0542		mg/Kg-dry	1	8/12/2023 8:42:17 PM
Vinyl chloride	ND	0.0271		mg/Kg-dry	1	8/12/2023 8:42:17 PM
Bromomethane	ND	0.0271		mg/Kg-dry	1	8/12/2023 8:42:17 PM
Trichlorofluoromethane (CFC-11)	ND	0.0217		mg/Kg-dry	1	8/12/2023 8:42:17 PM
Chloroethane	ND	0.0813		mg/Kg-dry	1	8/12/2023 8:42:17 PM
1,1-Dichloroethene	ND	0.108		mg/Kg-dry	1	8/12/2023 8:42:17 PM
Acetone	ND	0.271		mg/Kg-dry	1	8/12/2023 8:42:17 PM
Methylene chloride	ND	0.0379		mg/Kg-dry	1	8/12/2023 8:42:17 PM
trans-1,2-Dichloroethene	ND	0.0108		mg/Kg-dry	1	8/12/2023 8:42:17 PM
Methyl tert-butyl ether (MTBE)	ND	0.0217		mg/Kg-dry	1	8/12/2023 8:42:17 PM
1,1-Dichloroethane	ND	0.0271		mg/Kg-dry	1	8/12/2023 8:42:17 PM
cis-1,2-Dichloroethene	ND	0.0163		mg/Kg-dry	1	8/12/2023 8:42:17 PM
(MEK) 2-Butanone	ND	0.325		mg/Kg-dry	1	8/12/2023 8:42:17 PM
Chloroform	ND	0.0190		mg/Kg-dry	1	8/12/2023 8:42:17 PM
1,1,1-Trichloroethane (TCA)	ND	0.0217		mg/Kg-dry	1	8/12/2023 8:42:17 PM
1,1-Dichloropropene	ND	0.0217		mg/Kg-dry	1	8/12/2023 8:42:17 PM
Carbon tetrachloride	ND	0.0271		mg/Kg-dry	1	8/12/2023 8:42:17 PM
1,2-Dichloroethane (EDC)	ND	0.0217		mg/Kg-dry	1	8/12/2023 8:42:17 PM
Benzene	ND	0.0190		mg/Kg-dry	1	8/12/2023 8:42:17 PM
Trichloroethene (TCE)	ND	0.0163		mg/Kg-dry	1	8/12/2023 8:42:17 PM
1,2-Dichloropropane	ND	0.0271		mg/Kg-dry	1	8/12/2023 8:42:17 PM
Bromodichloromethane	ND	0.0271		mg/Kg-dry	1	8/12/2023 8:42:17 PM
Dibromomethane	ND	0.0135		mg/Kg-dry	1	8/12/2023 8:42:17 PM



Analytical Report

Work Order: 2308151
Date Reported: 8/28/2023

Client: GeoEngineers
Project: S Jackson Street
Lab ID: 2308151-011
Client Sample ID: UST4-SSW-93

Collection Date: 8/9/2023 7:50:00 AM
Matrix: Soil

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 41166 Analyst: KJ

cis-1,3-Dichloropropene	ND	0.0163		mg/Kg-dry	1	8/12/2023 8:42:17 PM
Toluene	ND	0.0325		mg/Kg-dry	1	8/12/2023 8:42:17 PM
Trans-1,3-Dichloropropylene	ND	0.0217		mg/Kg-dry	1	8/12/2023 8:42:17 PM
Methyl Isobutyl Ketone (MIBK)	ND	0.0650		mg/Kg-dry	1	8/12/2023 8:42:17 PM
1,1,2-Trichloroethane	ND	0.0135		mg/Kg-dry	1	8/12/2023 8:42:17 PM
1,3-Dichloropropane	ND	0.0108		mg/Kg-dry	1	8/12/2023 8:42:17 PM
Tetrachloroethene (PCE)	ND	0.0163		mg/Kg-dry	1	8/12/2023 8:42:17 PM
Dibromochloromethane	ND	0.0163		mg/Kg-dry	1	8/12/2023 8:42:17 PM
1,2-Dibromoethane (EDB)	ND	0.0108		mg/Kg-dry	1	8/12/2023 8:42:17 PM
2-Hexanone (MBK)	ND	0.0677		mg/Kg-dry	1	8/12/2023 8:42:17 PM
Chlorobenzene	ND	0.0163		mg/Kg-dry	1	8/12/2023 8:42:17 PM
1,1,1,2-Tetrachloroethane	ND	0.0271		mg/Kg-dry	1	8/12/2023 8:42:17 PM
Ethylbenzene	ND	0.0271		mg/Kg-dry	1	8/12/2023 8:42:17 PM
m,p-Xylene	ND	0.0542		mg/Kg-dry	1	8/12/2023 8:42:17 PM
o-Xylene	ND	0.0271		mg/Kg-dry	1	8/12/2023 8:42:17 PM
Styrene	ND	0.0108		mg/Kg-dry	1	8/12/2023 8:42:17 PM
Isopropylbenzene	0.0167	0.0163		mg/Kg-dry	1	8/12/2023 8:42:17 PM
Bromoform	ND	0.0163		mg/Kg-dry	1	8/12/2023 8:42:17 PM
1,1,2,2-Tetrachloroethane	ND	0.217	Q	mg/Kg-dry	1	8/12/2023 8:42:17 PM
n-Propylbenzene	0.0684	0.0163		mg/Kg-dry	1	8/12/2023 8:42:17 PM
Bromobenzene	ND	0.0135		mg/Kg-dry	1	8/12/2023 8:42:17 PM
1,3,5-Trimethylbenzene	0.0267	0.0163		mg/Kg-dry	1	8/12/2023 8:42:17 PM
2-Chlorotoluene	ND	0.0179		mg/Kg-dry	1	8/12/2023 8:42:17 PM
4-Chlorotoluene	ND	0.0179		mg/Kg-dry	1	8/12/2023 8:42:17 PM
tert-Butylbenzene	ND	0.0163		mg/Kg-dry	1	8/12/2023 8:42:17 PM
1,2,3-Trichloropropane	ND	0.0325		mg/Kg-dry	1	8/12/2023 8:42:17 PM
1,2,4-Trichlorobenzene	ND	0.0650		mg/Kg-dry	1	8/12/2023 8:42:17 PM
sec-Butylbenzene	ND	0.163		mg/Kg-dry	1	8/12/2023 8:42:17 PM
4-Isopropyltoluene	ND	0.217		mg/Kg-dry	1	8/12/2023 8:42:17 PM
1,3-Dichlorobenzene	ND	0.0217		mg/Kg-dry	1	8/12/2023 8:42:17 PM
1,4-Dichlorobenzene	ND	0.0163		mg/Kg-dry	1	8/12/2023 8:42:17 PM
n-Butylbenzene	0.0996	0.0217		mg/Kg-dry	1	8/12/2023 8:42:17 PM
1,2-Dichlorobenzene	ND	0.0217		mg/Kg-dry	1	8/12/2023 8:42:17 PM
1,2-Dibromo-3-chloropropane	ND	0.0325		mg/Kg-dry	1	8/12/2023 8:42:17 PM
1,2,4-Trimethylbenzene	0.107	0.0163		mg/Kg-dry	1	8/12/2023 8:42:17 PM
Hexachloro-1,3-butadiene	ND	0.0434		mg/Kg-dry	1	8/12/2023 8:42:17 PM
Naphthalene	0.116	0.108		mg/Kg-dry	1	8/12/2023 8:42:17 PM
1,2,3-Trichlorobenzene	ND	0.0650		mg/Kg-dry	1	8/12/2023 8:42:17 PM
Surr: Dibromofluoromethane	97.8	79.5 - 124		%Rec	1	8/12/2023 8:42:17 PM



Analytical Report

Work Order: 2308151
Date Reported: 8/28/2023

Client: GeoEngineers
Project: S Jackson Street
Lab ID: 2308151-011
Client Sample ID: UST4-SSW-93

Collection Date: 8/9/2023 7:50:00 AM
Matrix: Soil

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 41166 Analyst: KJ

Surr: Toluene-d8	96.2	77.5 - 124		%Rec	1	8/12/2023 8:42:17 PM
Surr: 1-Bromo-4-fluorobenzene	97.4	60.5 - 139		%Rec	1	8/12/2023 8:42:17 PM

NOTES:

Q - Associated calibration verification is below acceptance criteria. Result may be low-biased.

Total Metals by EPA Method 6020B

Batch ID: 41172 Analyst: JR

Lead	2.85	0.890		mg/Kg-dry	1	8/11/2023 2:02:00 PM
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Sample Moisture (Percent Moisture)

Batch ID: R85861 Analyst: MP

Percent Moisture	9.96	0.500		wt%	1	8/11/2023 8:37:20 AM
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Analytical Report

Work Order: 2308151
Date Reported: 8/28/2023

Client: GeoEngineers
Project: S Jackson Street
Lab ID: 2308151-012
Client Sample ID: UST4-B-90

Collection Date: 8/9/2023 7:55:00 AM
Matrix: Soil

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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Polychlorinated Biphenyls (PCB) by EPA Method 8082

Batch ID: 41176 Analyst: SK

Aroclor 1016	ND	0.0215		mg/Kg-dry	1	8/10/2023 9:17:35 PM
Aroclor 1221	ND	0.0215		mg/Kg-dry	1	8/10/2023 9:17:35 PM
Aroclor 1232	ND	0.0215		mg/Kg-dry	1	8/10/2023 9:17:35 PM
Aroclor 1242	ND	0.0215		mg/Kg-dry	1	8/10/2023 9:17:35 PM
Aroclor 1248	ND	0.0215		mg/Kg-dry	1	8/10/2023 9:17:35 PM
Aroclor 1254	ND	0.0215		mg/Kg-dry	1	8/10/2023 9:17:35 PM
Aroclor 1260	ND	0.0215		mg/Kg-dry	1	8/10/2023 9:17:35 PM
Aroclor 1262	ND	0.0215		mg/Kg-dry	1	8/10/2023 9:17:35 PM
Aroclor 1268	ND	0.0215		mg/Kg-dry	1	8/10/2023 9:17:35 PM
Total PCBs	ND	0.0215		mg/Kg-dry	1	8/10/2023 9:17:35 PM
Surr: Decachlorobiphenyl	40.6	5 - 160		%Rec	1	8/10/2023 9:17:35 PM
Surr: Tetrachloro-m-xylene	88.5	57.3 - 159		%Rec	1	8/10/2023 9:17:35 PM

Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Batch ID: 41170 Analyst: AP

Diesel Range Organics	ND	51.7		mg/Kg-dry	1	8/10/2023 8:33:10 PM
Heavy Oil	ND	103		mg/Kg-dry	1	8/10/2023 8:33:10 PM
Total Petroleum Hydrocarbons	ND	155		mg/Kg-dry	1	8/10/2023 8:33:10 PM
Surr: 2-Fluorobiphenyl	101	50 - 150		%Rec	1	8/10/2023 8:33:10 PM
Surr: o-Terphenyl	103	50 - 150		%Rec	1	8/10/2023 8:33:10 PM

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Batch ID: 41173 Analyst: SH

Naphthalene	ND	20.5		µg/Kg-dry	1	8/11/2023 1:11:38 AM
2-Methylnaphthalene	ND	20.5		µg/Kg-dry	1	8/11/2023 1:11:38 AM
1-Methylnaphthalene	ND	20.5		µg/Kg-dry	1	8/11/2023 1:11:38 AM
Acenaphthylene	ND	20.5		µg/Kg-dry	1	8/11/2023 1:11:38 AM
Acenaphthene	ND	20.5		µg/Kg-dry	1	8/11/2023 1:11:38 AM
Fluorene	ND	20.5		µg/Kg-dry	1	8/11/2023 1:11:38 AM
Phenanthrene	ND	20.5		µg/Kg-dry	1	8/11/2023 1:11:38 AM
Anthracene	ND	20.5		µg/Kg-dry	1	8/11/2023 1:11:38 AM
Fluoranthene	ND	20.5		µg/Kg-dry	1	8/11/2023 1:11:38 AM
Pyrene	ND	41.1		µg/Kg-dry	1	8/11/2023 1:11:38 AM
Benz(a)anthracene	ND	20.5		µg/Kg-dry	1	8/11/2023 1:11:38 AM
Chrysene	ND	20.5		µg/Kg-dry	1	8/11/2023 1:11:38 AM
Benzo(b)fluoranthene	ND	25.7		µg/Kg-dry	1	8/11/2023 1:11:38 AM
Benzo(k)fluoranthene	ND	25.7		µg/Kg-dry	1	8/11/2023 1:11:38 AM
Benzo(a)pyrene	ND	30.8		µg/Kg-dry	1	8/11/2023 1:11:38 AM
Indeno(1,2,3-cd)pyrene	ND	41.1		µg/Kg-dry	1	8/11/2023 1:11:38 AM



Analytical Report

Work Order: 2308151
Date Reported: 8/28/2023

Client: GeoEngineers
Project: S Jackson Street
Lab ID: 2308151-012
Client Sample ID: UST4-B-90

Collection Date: 8/9/2023 7:55:00 AM
Matrix: Soil

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Batch ID: 41173 Analyst: SH

Dibenz(a,h)anthracene	ND	51.3		µg/Kg-dry	1	8/11/2023 1:11:38 AM
Benzo(g,h,i)perylene	ND	51.3		µg/Kg-dry	1	8/11/2023 1:11:38 AM
Surr: 2-Fluorobiphenyl	102	22.2 - 146		%Rec	1	8/11/2023 1:11:38 AM
Surr: Terphenyl-d14 (surr)	121	20.2 - 159		%Rec	1	8/11/2023 1:11:38 AM

Gasoline by NWTPH-Gx

Batch ID: 41166 Analyst: CC

Gasoline Range Organics	ND	5.72		mg/Kg-dry	1	8/14/2023 12:38:41 PM
Surr: Toluene-d8	98.4	65 - 135		%Rec	1	8/14/2023 12:38:41 PM
Surr: 4-Bromofluorobenzene	98.0	65 - 135		%Rec	1	8/14/2023 12:38:41 PM

Volatile Organic Compounds by EPA Method 8260D

Batch ID: 41166 Analyst: KJ

Dichlorodifluoromethane (CFC-12)	ND	0.0172		mg/Kg-dry	1	8/12/2023 9:14:13 PM
Chloromethane	ND	0.0572		mg/Kg-dry	1	8/12/2023 9:14:13 PM
Vinyl chloride	ND	0.0286		mg/Kg-dry	1	8/12/2023 9:14:13 PM
Bromomethane	ND	0.0286		mg/Kg-dry	1	8/12/2023 9:14:13 PM
Trichlorofluoromethane (CFC-11)	ND	0.0229		mg/Kg-dry	1	8/12/2023 9:14:13 PM
Chloroethane	ND	0.0858		mg/Kg-dry	1	8/12/2023 9:14:13 PM
1,1-Dichloroethene	ND	0.114		mg/Kg-dry	1	8/12/2023 9:14:13 PM
Acetone	ND	0.286		mg/Kg-dry	1	8/12/2023 9:14:13 PM
Methylene chloride	ND	0.0400		mg/Kg-dry	1	8/12/2023 9:14:13 PM
trans-1,2-Dichloroethene	ND	0.0114		mg/Kg-dry	1	8/12/2023 9:14:13 PM
Methyl tert-butyl ether (MTBE)	ND	0.0229		mg/Kg-dry	1	8/12/2023 9:14:13 PM
1,1-Dichloroethane	ND	0.0286		mg/Kg-dry	1	8/12/2023 9:14:13 PM
cis-1,2-Dichloroethene	ND	0.0172		mg/Kg-dry	1	8/12/2023 9:14:13 PM
(MEK) 2-Butanone	ND	0.343		mg/Kg-dry	1	8/12/2023 9:14:13 PM
Chloroform	ND	0.0200		mg/Kg-dry	1	8/12/2023 9:14:13 PM
1,1,1-Trichloroethane (TCA)	ND	0.0229		mg/Kg-dry	1	8/12/2023 9:14:13 PM
1,1-Dichloropropene	ND	0.0229		mg/Kg-dry	1	8/12/2023 9:14:13 PM
Carbon tetrachloride	ND	0.0286		mg/Kg-dry	1	8/12/2023 9:14:13 PM
1,2-Dichloroethane (EDC)	ND	0.0229		mg/Kg-dry	1	8/12/2023 9:14:13 PM
Benzene	ND	0.0200		mg/Kg-dry	1	8/12/2023 9:14:13 PM
Trichloroethene (TCE)	ND	0.0172		mg/Kg-dry	1	8/12/2023 9:14:13 PM
1,2-Dichloropropane	ND	0.0286		mg/Kg-dry	1	8/12/2023 9:14:13 PM
Bromodichloromethane	ND	0.0286		mg/Kg-dry	1	8/12/2023 9:14:13 PM
Dibromomethane	ND	0.0143		mg/Kg-dry	1	8/12/2023 9:14:13 PM
cis-1,3-Dichloropropene	ND	0.0172		mg/Kg-dry	1	8/12/2023 9:14:13 PM
Toluene	ND	0.0343		mg/Kg-dry	1	8/12/2023 9:14:13 PM



Analytical Report

Work Order: 2308151
Date Reported: 8/28/2023

Client: GeoEngineers
Project: S Jackson Street
Lab ID: 2308151-012
Client Sample ID: UST4-B-90

Collection Date: 8/9/2023 7:55:00 AM
Matrix: Soil

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 41166 Analyst: KJ

Trans-1,3-Dichloropropylene	ND	0.0229		mg/Kg-dry	1	8/12/2023 9:14:13 PM
Methyl Isobutyl Ketone (MIBK)	ND	0.0687		mg/Kg-dry	1	8/12/2023 9:14:13 PM
1,1,2-Trichloroethane	ND	0.0143		mg/Kg-dry	1	8/12/2023 9:14:13 PM
1,3-Dichloropropane	ND	0.0114		mg/Kg-dry	1	8/12/2023 9:14:13 PM
Tetrachloroethene (PCE)	ND	0.0172		mg/Kg-dry	1	8/12/2023 9:14:13 PM
Dibromochloromethane	ND	0.0172		mg/Kg-dry	1	8/12/2023 9:14:13 PM
1,2-Dibromoethane (EDB)	ND	0.0114		mg/Kg-dry	1	8/12/2023 9:14:13 PM
2-Hexanone (MBK)	ND	0.0715		mg/Kg-dry	1	8/12/2023 9:14:13 PM
Chlorobenzene	ND	0.0172		mg/Kg-dry	1	8/12/2023 9:14:13 PM
1,1,1,2-Tetrachloroethane	ND	0.0286		mg/Kg-dry	1	8/12/2023 9:14:13 PM
Ethylbenzene	ND	0.0286		mg/Kg-dry	1	8/12/2023 9:14:13 PM
m,p-Xylene	ND	0.0572		mg/Kg-dry	1	8/12/2023 9:14:13 PM
o-Xylene	ND	0.0286		mg/Kg-dry	1	8/12/2023 9:14:13 PM
Styrene	ND	0.0114		mg/Kg-dry	1	8/12/2023 9:14:13 PM
Isopropylbenzene	ND	0.0172		mg/Kg-dry	1	8/12/2023 9:14:13 PM
Bromoform	ND	0.0172		mg/Kg-dry	1	8/12/2023 9:14:13 PM
1,1,2,2-Tetrachloroethane	ND	0.229	Q	mg/Kg-dry	1	8/12/2023 9:14:13 PM
n-Propylbenzene	ND	0.0172		mg/Kg-dry	1	8/12/2023 9:14:13 PM
Bromobenzene	ND	0.0143		mg/Kg-dry	1	8/12/2023 9:14:13 PM
1,3,5-Trimethylbenzene	ND	0.0172		mg/Kg-dry	1	8/12/2023 9:14:13 PM
2-Chlorotoluene	ND	0.0189		mg/Kg-dry	1	8/12/2023 9:14:13 PM
4-Chlorotoluene	ND	0.0189		mg/Kg-dry	1	8/12/2023 9:14:13 PM
tert-Butylbenzene	ND	0.0172		mg/Kg-dry	1	8/12/2023 9:14:13 PM
1,2,3-Trichloropropane	ND	0.0343		mg/Kg-dry	1	8/12/2023 9:14:13 PM
1,2,4-Trichlorobenzene	ND	0.0687		mg/Kg-dry	1	8/12/2023 9:14:13 PM
sec-Butylbenzene	ND	0.172		mg/Kg-dry	1	8/12/2023 9:14:13 PM
4-Isopropyltoluene	ND	0.229		mg/Kg-dry	1	8/12/2023 9:14:13 PM
1,3-Dichlorobenzene	ND	0.0229		mg/Kg-dry	1	8/12/2023 9:14:13 PM
1,4-Dichlorobenzene	ND	0.0172		mg/Kg-dry	1	8/12/2023 9:14:13 PM
n-Butylbenzene	ND	0.0229		mg/Kg-dry	1	8/12/2023 9:14:13 PM
1,2-Dichlorobenzene	ND	0.0229		mg/Kg-dry	1	8/12/2023 9:14:13 PM
1,2-Dibromo-3-chloropropane	ND	0.0343		mg/Kg-dry	1	8/12/2023 9:14:13 PM
1,2,4-Trimethylbenzene	ND	0.0172		mg/Kg-dry	1	8/12/2023 9:14:13 PM
Hexachloro-1,3-butadiene	ND	0.0458		mg/Kg-dry	1	8/12/2023 9:14:13 PM
Naphthalene	ND	0.114		mg/Kg-dry	1	8/12/2023 9:14:13 PM
1,2,3-Trichlorobenzene	ND	0.0687		mg/Kg-dry	1	8/12/2023 9:14:13 PM
Surr: Dibromofluoromethane	97.8	79.5 - 124		%Rec	1	8/12/2023 9:14:13 PM
Surr: Toluene-d8	97.3	77.5 - 124		%Rec	1	8/12/2023 9:14:13 PM
Surr: 1-Bromo-4-fluorobenzene	98.6	60.5 - 139		%Rec	1	8/12/2023 9:14:13 PM



Analytical Report

Work Order: 2308151
 Date Reported: 8/28/2023

Client: GeoEngineers

Collection Date: 8/9/2023 7:55:00 AM

Project: S Jackson Street

Lab ID: 2308151-012

Matrix: Soil

Client Sample ID: UST4-B-90

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 41166

Analyst: KJ

NOTES:

Q - Associated calibration verification is below acceptance criteria. Result may be low-biased.

Total Metals by EPA Method 6020B

Batch ID: 41172

Analyst: JR

Lead	2.70	0.865		mg/Kg-dry	1	8/11/2023 2:04:00 PM
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Sample Moisture (Percent Moisture)

Batch ID: R85862

Analyst: MP

Percent Moisture	7.83	0.500		wt%	1	8/11/2023 8:39:11 AM
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Work Order: 2308151
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT
Total Metals by EPA Method 6020B

Sample ID: MB-41172	SampType: MBLK	Units: mg/Kg	Prep Date: 8/10/2023	RunNo: 85882							
Client ID: MBLKS	Batch ID: 41172		Analysis Date: 8/11/2023	SeqNo: 1792210							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	1.00									

Sample ID: 2308095-013AMS	SampType: MS	Units: mg/Kg-dry	Prep Date: 8/10/2023	RunNo: 85882							
Client ID: BATCH	Batch ID: 41172		Analysis Date: 8/11/2023	SeqNo: 1792214							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	148	0.820	20.51	172.8	-123	75	125				ES

NOTES:

S - Spiked amount was low relative to sample concentration. Outlying spike recoveries may be expected.

Sample ID: 2308095-013AMSD	SampType: MSD	Units: mg/Kg-dry	Prep Date: 8/10/2023	RunNo: 85882							
Client ID: BATCH	Batch ID: 41172		Analysis Date: 8/11/2023	SeqNo: 1792215							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	164	0.845	21.13	172.8	-39.8	75	125	147.6	10.8	20	ES

NOTES:

S/R - Spiked amount was low relative to sample concentration. Outlying spike recoveries may be expected. High RPD observed.

Sample ID: LCS-41172	SampType: LCS	Units: mg/Kg	Prep Date: 8/10/2023	RunNo: 85882							
Client ID: LCSS	Batch ID: 41172		Analysis Date: 8/14/2023	SeqNo: 1792813							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	26.6	1.00	25.00	0	106	80	120				

Sample ID: MB-41192	SampType: MBLK	Units: mg/Kg	Prep Date: 8/14/2023	RunNo: 85906							
Client ID: MBLKS	Batch ID: 41192		Analysis Date: 8/14/2023	SeqNo: 1792845							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	1.00									

Work Order: 2308151
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT
Total Metals by EPA Method 6020B

Sample ID: LCS-41192		SampType: LCS		Units: mg/Kg		Prep Date: 8/14/2023		RunNo: 85906			
Client ID: LCSS		Batch ID: 41192				Analysis Date: 8/14/2023		SeqNo: 1792846			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	2.18	0.794	1.984	0	110	80	120				

Sample ID: 2308151-006AMS		SampType: MS		Units: mg/Kg-dry		Prep Date: 8/14/2023		RunNo: 85906			
Client ID: UST3-NSW-93		Batch ID: 41192				Analysis Date: 8/14/2023		SeqNo: 1792849			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	9.76	1.03	2.583	5.529	164	75	125				S

NOTES:

S - Spiked amount was low relative to sample concentration. Outlying spike recoveries may be expected.

Sample ID: 2308151-006AMSD		SampType: MSD		Units: mg/Kg-dry		Prep Date: 8/14/2023		RunNo: 85906			
Client ID: UST3-NSW-93		Batch ID: 41192				Analysis Date: 8/14/2023		SeqNo: 1792850			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	9.12	1.03	2.583	5.529	139	75	125	9.756	6.74	20	S

NOTES:

S - Spiked amount was low relative to sample concentration. Outlying spike recoveries may be expected.

Sample ID: MB-41271		SampType: MBLK		Units: mg/Kg		Prep Date: 8/22/2023		RunNo: 86088			
Client ID: MBLKS		Batch ID: 41271				Analysis Date: 8/23/2023		SeqNo: 1796352			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	1.00									

Sample ID: LCS-41271		SampType: LCS		Units: mg/Kg		Prep Date: 8/22/2023		RunNo: 86088			
Client ID: LCSS		Batch ID: 41271				Analysis Date: 8/23/2023		SeqNo: 1796353			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	23.3	0.800	20.00	0	116	80	120				

Work Order: 2308151
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT
Total Metals by EPA Method 6020B

Sample ID: CCV-41271A	SampType: CCV	Units: µg/L	Prep Date: 8/23/2023	RunNo: 86088							
Client ID: CCV	Batch ID: 41271	Analysis Date: 8/23/2023	SeqNo: 1796356								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	55.0	1.00	50.00	0	110	90	110				

Sample ID: CCB-41271A	SampType: CCB	Units: µg/L	Prep Date: 8/23/2023	RunNo: 86088							
Client ID: CCB	Batch ID: 41271	Analysis Date: 8/23/2023	SeqNo: 1796357								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	1.00									

Sample ID: 2308276-002AMS	SampType: MS	Units: mg/Kg-dry	Prep Date: 8/22/2023	RunNo: 86088							
Client ID: BATCH	Batch ID: 41271	Analysis Date: 8/23/2023	SeqNo: 1796358								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	25.4	0.923	23.07	1.666	103	75	125				

Sample ID: 2308276-002AMSD	SampType: MSD	Units: mg/Kg-dry	Prep Date: 8/22/2023	RunNo: 86088							
Client ID: BATCH	Batch ID: 41271	Analysis Date: 8/23/2023	SeqNo: 1796359								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	23.3	0.878	21.96	1.666	98.5	75	125	25.36	8.52	20	

Sample ID: CCV-41271B	SampType: CCV	Units: µg/L	Prep Date: 8/23/2023	RunNo: 86088							
Client ID: CCV	Batch ID: 41271	Analysis Date: 8/23/2023	SeqNo: 1796368								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	54.9	1.00	50.00	0	110	90	110				

Work Order: 2308151
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT
Total Metals by EPA Method 6020B

Sample ID: CCB-41271B	SampType: CCB	Units: µg/L	Prep Date: 8/23/2023	RunNo: 86088							
Client ID: CCB	Batch ID: 41271	Analysis Date: 8/23/2023	SeqNo: 1796369								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	1.00									

Work Order: 2308151
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT

Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Sample ID: DX-CCV-41170A		SampType: CCV		Units: mg/Kg		Prep Date: 8/10/2023		RunNo: 85867			
Client ID: CCV		Batch ID: 41170				Analysis Date: 8/10/2023		SeqNo: 1791935			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics	484	50.0	500.0	0	96.7	85	115				
Surr: 2-Fluorobiphenyl	10.6		10.00		106	50	150				
Surr: o-Terphenyl	13.1		10.00		131	50	150				

Sample ID: MB-41170		SampType: MBLK		Units: mg/Kg		Prep Date: 8/10/2023		RunNo: 85867			
Client ID: MBLKS		Batch ID: 41170				Analysis Date: 8/10/2023		SeqNo: 1791936			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics	ND	50.0									
Heavy Oil	ND	100									
Total Petroleum Hydrocarbons	ND	150									
Surr: 2-Fluorobiphenyl	10.4		10.00		104	50	150				
Surr: o-Terphenyl	10.6		10.00		106	50	150				

Sample ID: LCS-41170		SampType: LCS		Units: mg/Kg		Prep Date: 8/10/2023		RunNo: 85867			
Client ID: LCSS		Batch ID: 41170				Analysis Date: 8/10/2023		SeqNo: 1791937			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Petroleum Hydrocarbons	520	150	500.0	0	104	76.8	124				
Surr: 2-Fluorobiphenyl	9.23		10.00		92.3	50	150				
Surr: o-Terphenyl	12.0		10.00		120	50	150				

Sample ID: 2308151-002ADUP		SampType: DUP		Units: mg/Kg-dry		Prep Date: 8/10/2023		RunNo: 85867			
Client ID: UST2-NSW-93		Batch ID: 41170				Analysis Date: 8/10/2023		SeqNo: 1791941			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics	ND	57.0						0		30	
Heavy Oil	ND	114						0		30	
Total Petroleum Hydrocarbons	ND	171						0		30	
Surr: 2-Fluorobiphenyl	11.8		11.39		104	50	150		0		

Work Order: 2308151
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT

Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Sample ID: 2308151-002ADUP	SampType: DUP	Units: mg/Kg-dry				Prep Date: 8/10/2023	RunNo: 85867				
Client ID: UST2-NSW-93	Batch ID: 41170					Analysis Date: 8/10/2023	SeqNo: 1791941				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: o-Terphenyl	11.9		11.39		105	50	150		0		

Sample ID: DX-CCV-41170B	SampType: CCV	Units: mg/Kg				Prep Date: 8/10/2023	RunNo: 85867				
Client ID: CCV	Batch ID: 41170					Analysis Date: 8/10/2023	SeqNo: 1791948				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics	488	50.0	500.0	0	97.6	85	115				
Surr: 2-Fluorobiphenyl	11.1		10.00		111	50	150				
Surr: o-Terphenyl	13.1		10.00		131	50	150				

Sample ID: 2308139-001AMS	SampType: MS	Units: mg/Kg-dry				Prep Date: 8/10/2023	RunNo: 85867				
Client ID: BATCH	Batch ID: 41170					Analysis Date: 8/10/2023	SeqNo: 1791957				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Petroleum Hydrocarbons	561	157	524.1	54.61	96.6	21.8	165				
Surr: 2-Fluorobiphenyl	9.11		10.48		86.9	50	150				
Surr: o-Terphenyl	12.5		10.48		119	50	150				

Sample ID: 2308139-001AMSD	SampType: MSD	Units: mg/Kg-dry				Prep Date: 8/10/2023	RunNo: 85867				
Client ID: BATCH	Batch ID: 41170					Analysis Date: 8/10/2023	SeqNo: 1791958				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Petroleum Hydrocarbons	578	157	524.1	54.61	99.9	21.8	165	561.0	2.99	30	
Surr: 2-Fluorobiphenyl	9.46		10.48		90.2	50	150		0		
Surr: o-Terphenyl	12.5		10.48		120	50	150		0		

Work Order: 2308151
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT
Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Sample ID: DX-CCV-41170D	SampType: CCV	Units: mg/Kg	Prep Date: 8/11/2023	RunNo: 85867							
Client ID: CCV	Batch ID: 41170		Analysis Date: 8/11/2023	SeqNo: 1791971							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel Range Organics	551	50.0	500.0	0	110	85	115				
Surr: 2-Fluorobiphenyl	10.4		10.00		104	50	150				
Surr: o-Terphenyl	14.1		10.00		141	50	150				

Work Order: 2308151
 CLIENT: GeoEngineers
 Project: S Jackson Street

QC SUMMARY REPORT

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Sample ID: CCV-41173A	SampType: CCV	Units: µg/L				Prep Date: 8/10/2023	RunNo: 85910				
Client ID: CCV	Batch ID: 41173					Analysis Date: 8/10/2023	SeqNo: 1793000				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	1,010	20.0	1,000	0	101	80	120				
2-Methylnaphthalene	936	20.0	1,000	0	93.6	80	120				
1-Methylnaphthalene	971	20.0	1,000	0	97.1	80	120				
Acenaphthylene	922	20.0	1,000	0	92.2	80	120				
Acenaphthene	1,020	20.0	1,000	0	102	80	120				
Fluorene	961	20.0	1,000	0	96.1	80	120				
Phenanthrene	961	20.0	1,000	0	96.1	80	120				
Anthracene	968	20.0	1,000	0	96.8	80	120				
Fluoranthene	1,030	20.0	1,000	0	103	80	120				
Pyrene	996	40.0	1,000	0	99.6	80	120				
Benz(a)anthracene	981	20.0	1,000	0	98.1	80	120				
Chrysene	983	20.0	1,000	0	98.3	80	120				
Benzo(b)fluoranthene	967	25.0	1,000	0	96.7	80	120				
Benzo(k)fluoranthene	978	25.0	1,000	0	97.8	80	120				
Benzo(a)pyrene	1,020	30.0	1,000	0	102	80	120				
Indeno(1,2,3-cd)pyrene	943	40.0	1,000	0	94.3	80	120				
Dibenz(a,h)anthracene	941	50.0	1,000	0	94.1	80	120				
Benzo(g,h,i)perylene	937	50.0	1,000	0	93.7	80	120				
Surr: 2-Fluorobiphenyl	487		500.0		97.4	69.5	150				
Surr: Terphenyl-d14 (surr)	535		500.0		107	71.6	145				

Sample ID: MB-41173	SampType: MBLK	Units: µg/Kg				Prep Date: 8/10/2023	RunNo: 85910				
Client ID: MBLKS	Batch ID: 41173					Analysis Date: 8/10/2023	SeqNo: 1793001				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	ND	20.0									
2-Methylnaphthalene	ND	20.0									
1-Methylnaphthalene	ND	20.0									
Acenaphthylene	ND	20.0									
Acenaphthene	ND	20.0									
Fluorene	ND	20.0									

Work Order: 2308151
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Sample ID: MB-41173	SampType: MBLK	Units: µg/Kg	Prep Date: 8/10/2023	RunNo: 85910							
Client ID: MBLKS	Batch ID: 41173		Analysis Date: 8/10/2023	SeqNo: 1793001							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenanthrene	ND	20.0									
Anthracene	ND	20.0									
Fluoranthene	ND	20.0									
Pyrene	ND	40.0									
Benz(a)anthracene	ND	20.0									
Chrysene	ND	20.0									
Benzo(b)fluoranthene	ND	25.0									
Benzo(k)fluoranthene	ND	25.0									
Benzo(a)pyrene	ND	30.0									
Indeno(1,2,3-cd)pyrene	ND	40.0									
Dibenz(a,h)anthracene	ND	50.0									
Benzo(g,h,i)perylene	ND	50.0									
Surr: 2-Fluorobiphenyl	1,020		1,000		102	22.2	146				
Surr: Terphenyl-d14 (surr)	1,220		1,000		122	20.2	159				

Sample ID: LCS-41173	SampType: LCS	Units: µg/Kg	Prep Date: 8/10/2023	RunNo: 85910							
Client ID: LCSS	Batch ID: 41173		Analysis Date: 8/10/2023	SeqNo: 1793002							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	2,090	20.0	2,000	0	104	59.3	114				
2-Methylnaphthalene	1,980	20.0	2,000	0	99.2	55.5	115				
1-Methylnaphthalene	2,020	20.0	2,000	0	101	57.2	116				
Acenaphthylene	2,040	20.0	2,000	0	102	58.2	120				
Acenaphthene	2,140	20.0	2,000	0	107	56.6	114				
Fluorene	2,080	20.0	2,000	0	104	57.7	117				
Phenanthrene	2,090	20.0	2,000	0	104	53.2	118				
Anthracene	2,170	20.0	2,000	0	109	54.7	118				
Fluoranthene	2,330	20.0	2,000	0	117	56	120				
Pyrene	2,280	40.0	2,000	0	114	56.9	120				
Benz(a)anthracene	2,240	20.0	2,000	0	112	59.5	123				
Chrysene	2,290	20.0	2,000	0	115	51.5	115				

Work Order: 2308151
 CLIENT: GeoEngineers
 Project: S Jackson Street

QC SUMMARY REPORT

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Sample ID: LCS-41173	SampType: LCS	Units: µg/Kg				Prep Date: 8/10/2023	RunNo: 85910				
Client ID: LCSS	Batch ID: 41173					Analysis Date: 8/10/2023	SeqNo: 1793002				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(b)fluoranthene	2,200	25.0	2,000	0	110	50	122				
Benzo(k)fluoranthene	2,270	25.0	2,000	0	113	51	117				
Benzo(a)pyrene	2,470	30.0	2,000	0	124	53.2	123				S
Indeno(1,2,3-cd)pyrene	2,110	40.0	2,000	0	105	49.5	122				
Dibenz(a,h)anthracene	2,130	50.0	2,000	0	106	51	120				
Benzo(g,h,i)perylene	2,080	50.0	2,000	0	104	46.8	122				
Surr: 2-Fluorobiphenyl	1,180		1,000		118	22.2	146				
Surr: Terphenyl-d14 (surr)	1,370		1,000		137	20.2	159				

NOTES:

S - Outlying spike recovery observed (high bias). Samples are non-detect; result meets QC requirements.

Sample ID: 2308151-012AMS	SampType: MS	Units: µg/Kg-dry				Prep Date: 8/10/2023	RunNo: 85910				
Client ID: UST4-B-90	Batch ID: 41173					Analysis Date: 8/11/2023	SeqNo: 1793008				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	2,250	20.5	2,049	0	110	48.9	121				
2-Methylnaphthalene	2,120	20.5	2,049	0	103	45.9	118				
1-Methylnaphthalene	2,160	20.5	2,049	0	106	48.5	121				
Acenaphthylene	2,210	20.5	2,049	0	108	49.2	126				
Acenaphthene	2,290	20.5	2,049	0	112	46	122				
Fluorene	2,250	20.5	2,049	0	110	49	123				
Phenanthrene	2,250	20.5	2,049	0	110	40.5	126				
Anthracene	2,350	20.5	2,049	0	115	46.3	124				
Fluoranthene	2,510	20.5	2,049	0	123	49.1	129				
Pyrene	2,450	41.0	2,049	0	119	48.8	130				
Benz(a)anthracene	2,390	20.5	2,049	0	117	53.9	130				
Chrysene	2,430	20.5	2,049	0	118	41.2	126				
Benzo(b)fluoranthene	2,370	25.6	2,049	0	116	37.2	132				
Benzo(k)fluoranthene	2,420	25.6	2,049	0	118	32.8	131				
Benzo(a)pyrene	2,660	30.7	2,049	0	130	28.8	145				
Indeno(1,2,3-cd)pyrene	2,250	41.0	2,049	0	110	3.36	151				
Dibenz(a,h)anthracene	2,270	51.2	2,049	0	111	6.99	152				

Work Order: 2308151
CLIENT: GeoEngineers
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QC SUMMARY REPORT

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Sample ID: 2308151-012AMS	SampType: MS	Units: µg/Kg-dry	Prep Date: 8/10/2023	RunNo: 85910							
Client ID: UST4-B-90	Batch ID: 41173		Analysis Date: 8/11/2023	SeqNo: 1793008							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(g,h,i)perylene	2,220	51.2	2,049	0	108	5.86	143				
Surr: 2-Fluorobiphenyl	1,210		1,025		119	22.2	146				
Surr: Terphenyl-d14 (surr)	1,420		1,025		138	20.2	159				

Sample ID: 2308151-012AMSD	SampType: MSD	Units: µg/Kg-dry	Prep Date: 8/10/2023	RunNo: 85910							
Client ID: UST4-B-90	Batch ID: 41173		Analysis Date: 8/11/2023	SeqNo: 1793009							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	2,210	20.5	2,049	0	108	48.9	121	2,249	1.58	30	
2-Methylnaphthalene	2,090	20.5	2,049	0	102	45.9	118	2,120	1.27	30	
1-Methylnaphthalene	2,130	20.5	2,049	0	104	48.5	121	2,162	1.26	30	
Acenaphthylene	2,170	20.5	2,049	0	106	49.2	126	2,212	2.06	30	
Acenaphthene	2,270	20.5	2,049	0	111	46	122	2,288	0.908	30	
Fluorene	2,230	20.5	2,049	0	109	49	123	2,252	0.893	30	
Phenanthrene	2,240	20.5	2,049	0	109	40.5	126	2,246	0.257	30	
Anthracene	2,310	20.5	2,049	0	113	46.3	124	2,353	1.74	30	
Fluoranthene	2,470	20.5	2,049	0	121	49.1	129	2,511	1.47	30	
Pyrene	2,410	41.0	2,049	0	118	48.8	130	2,445	1.33	30	
Benz(a)anthracene	2,360	20.5	2,049	0	115	53.9	130	2,390	1.09	30	
Chrysene	2,410	20.5	2,049	0	117	41.2	126	2,425	0.746	30	
Benzo(b)fluoranthene	2,370	25.6	2,049	0	116	37.2	132	2,369	0.137	30	
Benzo(k)fluoranthene	2,370	25.6	2,049	0	116	32.8	131	2,424	2.04	30	
Benzo(a)pyrene	2,640	30.7	2,049	0	129	28.8	145	2,661	0.683	30	
Indeno(1,2,3-cd)pyrene	2,230	41.0	2,049	0	109	3.36	151	2,255	1.04	30	
Dibenz(a,h)anthracene	2,240	51.2	2,049	0	109	6.99	152	2,269	1.50	30	
Benzo(g,h,i)perylene	2,200	51.2	2,049	0	107	5.86	143	2,220	1.06	30	
Surr: 2-Fluorobiphenyl	1,210		1,025		118	22.2	146		0		
Surr: Terphenyl-d14 (surr)	1,400		1,025		137	20.2	159		0		

Work Order: 2308151
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Sample ID: CCV-41191A		SampType: CCV		Units: µg/L		Prep Date: 8/14/2023		RunNo: 85903			
Client ID: CCV		Batch ID: 41191				Analysis Date: 8/14/2023		SeqNo: 1792816			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	1,110	20.0	1,000	0	111	80	120				
2-Methylnaphthalene	964	20.0	1,000	0	96.4	80	120				
1-Methylnaphthalene	965	20.0	1,000	0	96.5	80	120				
Acenaphthene	1,120	20.0	1,000	0	112	80	120				
Acenaphthylene	923	20.0	1,000	0	92.3	80	120				
Phenanthrene	1,080	20.0	1,000	0	108	80	120				
Fluorene	1,060	20.0	1,000	0	106	80	120				
Anthracene	1,060	20.0	1,000	0	106	80	120				
Fluoranthene	1,150	20.0	1,000	0	115	80	120				
Pyrene	1,110	40.0	1,000	0	111	80	120				
Benz(a)anthracene	1,100	20.0	1,000	0	110	80	120				
Chrysene	1,150	20.0	1,000	0	115	80	120				
Benzo(b)fluoranthene	1,140	25.0	1,000	0	114	80	120				
Benzo(k)fluoranthene	1,130	25.0	1,000	0	113	80	120				
Benzo(a)pyrene	1,180	30.0	1,000	0	118	80	120				
Indeno(1,2,3-cd)pyrene	1,100	40.0	1,000	0	110	80	120				
Dibenz(a,h)anthracene	1,090	50.0	1,000	0	109	80	120				
Benzo(g,h,i)perylene	1,110	50.0	1,000	0	111	80	120				
Surr: 2,4,6-Tribromophenol	1,270		1,000		127	14	136				
Surr: 2-Fluorobiphenyl	496		500.0		99.2	69.5	150				
Surr: Terphenyl-d14 (surr)	595		500.0		119	71.6	145				

Sample ID: MB-41191		SampType: MBLK		Units: µg/Kg		Prep Date: 8/14/2023		RunNo: 85903			
Client ID: MBLKS		Batch ID: 41191				Analysis Date: 8/14/2023		SeqNo: 1792817			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	ND	20.0									
2-Methylnaphthalene	ND	20.0									
1-Methylnaphthalene	ND	20.0									
Acenaphthene	ND	20.0									
Acenaphthylene	ND	20.0									

Work Order: 2308151
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Sample ID: MB-41191	SampType: MBLK	Units: µg/Kg	Prep Date: 8/14/2023	RunNo: 85903							
Client ID: MBLKS	Batch ID: 41191		Analysis Date: 8/14/2023	SeqNo: 1792817							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenanthrene	ND	20.0									
Fluorene	ND	20.0									
Anthracene	ND	20.0									
Fluoranthene	ND	20.0									
Pyrene	ND	40.0									
Benz(a)anthracene	ND	20.0									
Chrysene	ND	20.0									
Benzo(b)fluoranthene	ND	25.0									
Benzo(k)fluoranthene	ND	25.0									
Benzo(a)pyrene	ND	30.0									
Indeno(1,2,3-cd)pyrene	ND	40.0									
Dibenz(a,h)anthracene	ND	50.0									
Benzo(g,h,i)perylene	ND	50.0									
Surr: 2-Fluorobiphenyl	1,010		1,000		101	22.2	146				
Surr: Terphenyl-d14 (surr)	1,270		1,000		127	20.2	159				

Sample ID: LCS-41191	SampType: LCS	Units: µg/Kg	Prep Date: 8/14/2023	RunNo: 85903							
Client ID: LCSS	Batch ID: 41191		Analysis Date: 8/14/2023	SeqNo: 1792818							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	1,960	20.0	2,000	0	98.2	59.3	114				
2-Methylnaphthalene	1,870	20.0	2,000	0	93.5	55.5	115				
1-Methylnaphthalene	1,890	20.0	2,000	0	94.3	57.2	116				
Acenaphthene	2,020	20.0	2,000	0	101	56.6	114				
Acenaphthylene	1,920	20.0	2,000	0	95.8	58.2	120				
Phenanthrene	1,970	20.0	2,000	0	98.5	53.2	118				
Fluorene	1,950	20.0	2,000	0	97.5	57.7	117				
Anthracene	1,990	20.0	2,000	0	99.4	54.7	118				
Fluoranthene	2,140	20.0	2,000	0	107	56	120				
Pyrene	2,100	40.0	2,000	0	105	56.9	120				
Benz(a)anthracene	2,070	20.0	2,000	0	103	59.5	123				

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CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Sample ID: LCS-41191	SampType: LCS	Units: µg/Kg				Prep Date: 8/14/2023	RunNo: 85903					
Client ID: LCSS	Batch ID: 41191					Analysis Date: 8/14/2023	SeqNo: 1792818					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Chrysene	2,110	20.0	2,000	0	106	51.5	115					
Benzo(b)fluoranthene	2,020	25.0	2,000	0	101	50	122					
Benzo(k)fluoranthene	2,100	25.0	2,000	0	105	51	117					
Benzo(a)pyrene	2,250	30.0	2,000	0	112	53.2	123					
Indeno(1,2,3-cd)pyrene	1,990	40.0	2,000	0	99.5	49.5	122					
Dibenz(a,h)anthracene	2,000	50.0	2,000	0	99.9	51	120					
Benzo(g,h,i)perylene	2,000	50.0	2,000	0	100	46.8	122					
Surr: 2-Fluorobiphenyl	1,140		1,000		114	22.2	146					
Surr: Terphenyl-d14 (surr)	1,290		1,000		129	20.2	159					

Sample ID: 2308174-001AMS	SampType: MS	Units: µg/Kg-dry				Prep Date: 8/14/2023	RunNo: 85903					
Client ID: BATCH	Batch ID: 41191					Analysis Date: 8/14/2023	SeqNo: 1792821					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Naphthalene	2,070	20.2	2,017	62.03	99.6	48.9	121					
2-Methylnaphthalene	2,210	20.2	2,017	187.6	100	45.9	118					
1-Methylnaphthalene	2,160	20.2	2,017	160.3	99.1	48.5	121					
Acenaphthene	2,080	20.2	2,017	0	103	46	122					
Acenaphthylene	1,980	20.2	2,017	0	98.4	49.2	126					
Phenanthrene	2,180	20.2	2,017	174.7	99.3	40.5	126					
Fluorene	2,010	20.2	2,017	54.18	97.0	49	123					
Anthracene	2,010	20.2	2,017	14.12	99.0	46.3	124					
Fluoranthene	2,370	20.2	2,017	117.3	112	49.1	129					
Pyrene	2,270	40.3	2,017	131.1	106	48.8	130					
Benz(a)anthracene	2,320	20.2	2,017	67.67	112	53.9	130					
Chrysene	2,100	20.2	2,017	87.63	99.7	41.2	126					
Benzo(b)fluoranthene	2,210	25.2	2,017	0	109	37.2	132					
Benzo(k)fluoranthene	2,130	25.2	2,017	0	106	32.8	131					
Benzo(a)pyrene	2,370	30.2	2,017	85.49	113	28.8	145					
Indeno(1,2,3-cd)pyrene	1,830	40.3	2,017	29.21	89.3	3.36	151					
Dibenz(a,h)anthracene	1,830	50.4	2,017	0	90.6	6.99	152					

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Project: S Jackson Street

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Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Sample ID: 2308174-001AMS	SampType: MS	Units: µg/Kg-dry	Prep Date: 8/14/2023	RunNo: 85903							
Client ID: BATCH	Batch ID: 41191	Analysis Date: 8/14/2023	SeqNo: 1792821								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(g,h,i)perylene	1,640	50.4	2,017	48.98	79.1	5.86	143				
Surr: 2-Fluorobiphenyl	1,180		1,008		117	22.2	146				
Surr: Terphenyl-d14 (surr)	1,330		1,008		131	20.2	159				

Sample ID: 2308174-001AMSD	SampType: MSD	Units: µg/Kg-dry	Prep Date: 8/14/2023	RunNo: 85903							
Client ID: BATCH	Batch ID: 41191	Analysis Date: 8/14/2023	SeqNo: 1792822								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	2,150	20.2	2,017	62.03	104	48.9	121	2,071	3.97	30	
2-Methylnaphthalene	2,310	20.2	2,017	187.6	105	45.9	118	2,210	4.27	30	
1-Methylnaphthalene	2,260	20.2	2,017	160.3	104	48.5	121	2,159	4.59	30	
Acenaphthene	2,180	20.2	2,017	0	108	46	122	2,078	4.66	30	
Acenaphthylene	2,060	20.2	2,017	0	102	49.2	126	1,984	3.96	30	
Phenanthrene	2,290	20.2	2,017	174.7	105	40.5	126	2,176	5.23	30	
Fluorene	2,140	20.2	2,017	54.18	103	49	123	2,011	6.10	30	
Anthracene	2,110	20.2	2,017	14.12	104	46.3	124	2,011	4.58	30	
Fluoranthene	2,480	20.2	2,017	117.3	117	49.1	129	2,366	4.76	30	
Pyrene	2,380	40.3	2,017	131.1	111	48.8	130	2,273	4.50	30	
Benz(a)anthracene	2,440	20.2	2,017	67.67	118	53.9	130	2,319	5.14	30	
Chrysene	2,200	20.2	2,017	87.63	105	41.2	126	2,098	4.52	30	
Benzo(b)fluoranthene	2,320	25.2	2,017	0	115	37.2	132	2,205	4.87	30	
Benzo(k)fluoranthene	2,180	25.2	2,017	0	108	32.8	131	2,129	2.20	30	
Benzo(a)pyrene	2,420	30.2	2,017	85.49	116	28.8	145	2,370	2.12	30	
Indeno(1,2,3-cd)pyrene	1,710	40.3	2,017	29.21	83.6	3.36	151	1,831	6.59	30	
Dibenz(a,h)anthracene	1,740	50.4	2,017	0	86.3	6.99	152	1,827	4.86	30	
Benzo(g,h,i)perylene	1,480	50.4	2,017	48.98	71.2	5.86	143	1,644	10.2	30	
Surr: 2-Fluorobiphenyl	1,210		1,008		120	22.2	146		0		
Surr: Terphenyl-d14 (surr)	1,360		1,008		135	20.2	159		0		

Work Order: 2308151
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Sample ID: CCV-41251A	SampType: CCV	Units: %Rec	Prep Date: 8/21/2023	RunNo: 86059							
Client ID: CCV	Batch ID: R86059		Analysis Date: 8/21/2023	SeqNo: 1795760							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 2,4,6-Tribromophenol	1,220		1,000		122	14	136				
Surr: 2-Fluorobiphenyl	434		500.0		86.8	69.5	150				
Surr: Terphenyl-d14 (surr)	469		500.0		93.9	71.6	145				

Sample ID: MB-41251	SampType: MBLK	Units: µg/Kg	Prep Date: 8/21/2023	RunNo: 86059							
Client ID: MBLKS	Batch ID: 41251		Analysis Date: 8/21/2023	SeqNo: 1795761							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	ND	20.0									
2-Methylnaphthalene	ND	20.0									
1-Methylnaphthalene	ND	20.0									
Acenaphthene	ND	20.0									
Acenaphthylene	ND	20.0									
Phenanthrene	ND	20.0									
Fluorene	ND	20.0									
Anthracene	ND	20.0									
Fluoranthene	ND	20.0									
Pyrene	ND	40.0									
Benz(a)anthracene	ND	20.0									
Chrysene	ND	20.0									
Benzo(b)fluoranthene	ND	25.0									
Benzo(k)fluoranthene	ND	25.0									
Benzo(a)pyrene	ND	30.0									
Indeno(1,2,3-cd)pyrene	ND	40.0									
Dibenz(a,h)anthracene	ND	50.0									
Benzo(g,h,i)perylene	ND	50.0									
Surr: 2-Fluorobiphenyl	912		1,000		91.2	22.2	146				
Surr: Terphenyl-d14 (surr)	865		1,000		86.5	20.2	159				

Work Order: 2308151
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Sample ID: LCS-41251	SampType: LCS	Units: µg/Kg				Prep Date: 8/21/2023	RunNo: 86059				
Client ID: LCSS	Batch ID: 41251					Analysis Date: 8/21/2023	SeqNo: 1795762				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	1,750	20.0	2,000	0	87.7	59.3	114				
2-Methylnaphthalene	1,690	20.0	2,000	0	84.7	55.5	115				
1-Methylnaphthalene	1,700	20.0	2,000	0	84.8	57.2	116				
Acenaphthene	1,720	20.0	2,000	0	86.0	56.6	114				
Acenaphthylene	1,830	20.0	2,000	0	91.6	58.2	120				
Phenanthrene	1,660	20.0	2,000	0	83.0	53.2	118				
Fluorene	1,700	20.0	2,000	0	85.0	57.7	117				
Anthracene	1,670	20.0	2,000	0	83.3	54.7	118				
Fluoranthene	1,650	20.0	2,000	0	82.3	56	120				
Pyrene	1,680	40.0	2,000	0	84.1	56.9	120				
Benz(a)anthracene	1,610	20.0	2,000	0	80.5	59.5	123				
Chrysene	1,710	20.0	2,000	0	85.6	51.5	115				
Benzo(b)fluoranthene	1,640	25.0	2,000	0	81.9	50	122				
Benzo(k)fluoranthene	1,730	25.0	2,000	0	86.6	51	117				
Benzo(a)pyrene	1,850	30.0	2,000	0	92.4	53.2	123				
Indeno(1,2,3-cd)pyrene	1,610	40.0	2,000	0	80.7	49.5	122				
Dibenz(a,h)anthracene	1,620	50.0	2,000	0	81.0	51	120				
Benzo(g,h,i)perylene	1,630	50.0	2,000	0	81.5	46.8	122				
Surr: 2-Fluorobiphenyl	973		1,000		97.3	22.2	146				
Surr: Terphenyl-d14 (surr)	927		1,000		92.7	20.2	159				

Sample ID: 2308151-002AMS	SampType: MS	Units: µg/Kg-dry				Prep Date: 8/21/2023	RunNo: 86059				
Client ID: UST2-NSW-93	Batch ID: 41251					Analysis Date: 8/21/2023	SeqNo: 1795764				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	1,300	21.9	2,185	34.87	57.7	48.9	121				
2-Methylnaphthalene	1,220	21.9	2,185	48.24	53.4	45.9	118				
1-Methylnaphthalene	1,230	21.9	2,185	25.59	55.0	48.5	121				
Acenaphthene	1,240	21.9	2,185	0	56.7	46	122				
Acenaphthylene	1,260	21.9	2,185	0	57.8	49.2	126				
Phenanthrene	1,180	21.9	2,185	0	54.2	40.5	126				

Work Order: 2308151
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluorene	1,220	21.9	2,185	0	55.9	49	123				
Anthracene	1,170	21.9	2,185	0	53.5	46.3	124				
Fluoranthene	1,150	21.9	2,185	0	52.9	49.1	129				
Pyrene	1,190	43.7	2,185	0	54.4	48.8	130				
Benz(a)anthracene	1,130	21.9	2,185	0	51.6	53.9	130				S
Chrysene	1,220	21.9	2,185	0	55.6	41.2	126				
Benzo(b)fluoranthene	1,180	27.3	2,185	0	53.9	37.2	132				
Benzo(k)fluoranthene	1,180	27.3	2,185	0	54.1	32.8	131				
Benzo(a)pyrene	1,300	32.8	2,185	0	59.6	28.8	145				
Indeno(1,2,3-cd)pyrene	1,150	43.7	2,185	0	52.8	3.36	151				
Dibenz(a,h)anthracene	1,140	54.6	2,185	0	52.2	6.99	152				
Benzo(g,h,i)perylene	1,140	54.6	2,185	0	52.1	5.86	143				
Surr: 2-Fluorobiphenyl	563		1,093		51.5	22.2	146				
Surr: Terphenyl-d14 (surr)	543		1,093		49.7	20.2	159				

NOTES:

S - Outlying spike recovery(ies) observed. A duplicate analysis was performed with similar results indicating a possible matrix effect.

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	1,050	21.9	2,193	34.87	46.1	48.9	121	1,296	21.3	30	S
2-Methylnaphthalene	963	21.9	2,193	48.24	41.7	45.9	118	1,216	23.2	30	S
1-Methylnaphthalene	979	21.9	2,193	25.59	43.5	48.5	121	1,228	22.5	30	S
Acenaphthene	1,010	21.9	2,193	0	45.9	46	122	1,238	20.6	30	S
Acenaphthylene	1,010	21.9	2,193	0	45.9	49.2	126	1,262	22.5	30	S
Phenanthrene	965	21.9	2,193	0	44.0	40.5	126	1,185	20.5	30	
Fluorene	990	21.9	2,193	0	45.1	49	123	1,222	21.0	30	S
Anthracene	937	21.9	2,193	0	42.7	46.3	124	1,170	22.1	30	S
Fluoranthene	919	21.9	2,193	0	41.9	49.1	129	1,155	22.7	30	S
Pyrene	815	43.9	2,193	0	37.2	48.8	130	1,190	37.4	30	RS
Benz(a)anthracene	907	21.9	2,193	0	41.4	53.9	130	1,126	21.6	30	S

Work Order: 2308151
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Sample ID: 2308151-002AMSD	SampType: MSD	Units: µg/Kg-dry	Prep Date: 8/21/2023	RunNo: 86059							
Client ID: UST2-NSW-93	Batch ID: 41251	Analysis Date: 8/21/2023	SeqNo: 1795765								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chrysene	981	21.9	2,193	0	44.7	41.2	126	1,215	21.3	30	
Benzo(b)fluoranthene	850	27.4	2,193	0	38.7	37.2	132	1,177	32.3	30	R
Benzo(k)fluoranthene	894	27.4	2,193	0	40.8	32.8	131	1,182	27.7	30	
Benzo(a)pyrene	944	32.9	2,193	0	43.0	28.8	145	1,302	31.9	30	R
Indeno(1,2,3-cd)pyrene	1,020	43.9	2,193	0	46.3	3.36	151	1,153	12.7	30	
Dibenz(a,h)anthracene	1,000	54.8	2,193	0	45.7	6.99	152	1,142	13.0	30	
Benzo(g,h,i)perylene	996	54.8	2,193	0	45.4	5.86	143	1,138	13.3	30	
Surr: 2-Fluorobiphenyl	462		1,097		42.1	22.2	146		0		
Surr: Terphenyl-d14 (surr)	407		1,097		37.1	20.2	159		0		

NOTES:

S - Outlying spike recovery(ies) observed. A duplicate analysis was performed with similar results indicating a possible matrix effect.

R - High RPD observed.

Work Order: 2308151
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT

Polychlorinated Biphenyls (PCB) by EPA Method 8082

Sample ID: 1660-CCV-41176A		SampType: CCV		Units: mg/Kg		Prep Date: 8/10/2023		RunNo: 85892			
Client ID: CCV		Batch ID: 41176				Analysis Date: 8/10/2023		SeqNo: 1792486			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	0.967	0.0200	1.000	0	96.7	80	120				
Aroclor 1260	0.942	0.0200	1.000	0	94.2	80	120				
Surr: Decachlorobiphenyl	207		200.0		103	30.2	155				
Surr: Tetrachloro-m-xylene	191		200.0		95.3	58.8	143				

Sample ID: MB-41176		SampType: MBLK		Units: mg/Kg		Prep Date: 8/10/2023		RunNo: 85892			
Client ID: MBLKS		Batch ID: 41176				Analysis Date: 8/10/2023		SeqNo: 1792487			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	ND	0.0200									
Aroclor 1221	ND	0.0200									
Aroclor 1232	ND	0.0200									
Aroclor 1242	ND	0.0200									
Aroclor 1248	ND	0.0200									
Aroclor 1254	ND	0.0200									
Aroclor 1260	ND	0.0200									
Aroclor 1262	ND	0.0200									
Aroclor 1268	ND	0.0200									
Total PCBs	ND	0.0200									
Surr: Decachlorobiphenyl	141		200.0		70.4	5	160				
Surr: Tetrachloro-m-xylene	231		200.0		115	57.3	159				

Sample ID: LCS-41176		SampType: LCS		Units: mg/Kg		Prep Date: 8/10/2023		RunNo: 85892			
Client ID: LCSS		Batch ID: 41176				Analysis Date: 8/10/2023		SeqNo: 1792488			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	0.956	0.0200	1.000	0	95.6	67.1	142				
Aroclor 1260	0.883	0.0200	1.000	0	88.3	71	140				
Surr: Decachlorobiphenyl	108		200.0		54.0	5	160				
Surr: Tetrachloro-m-xylene	185		200.0		92.7	57.3	159				

Work Order: 2308151
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT

Polychlorinated Biphenyls (PCB) by EPA Method 8082

Sample ID: 2308151-009AMS	SampType: MS	Units: mg/Kg-dry	Prep Date: 8/10/2023	RunNo: 85892							
Client ID: UST3-B-90	Batch ID: 41176	Analysis Date: 8/10/2023	SeqNo: 1792504								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	0.908	0.0221	1.105	0	82.2	64.1	141				
Aroclor 1260	0.757	0.0221	1.105	0	68.5	51.1	146				
Surr: Decachlorobiphenyl	85.2		221.0		38.6	5	160				
Surr: Tetrachloro-m-xylene	177		221.0		80.0	57.3	159				

Sample ID: 2308151-009AMSD	SampType: MSD	Units: mg/Kg-dry	Prep Date: 8/10/2023	RunNo: 85892							
Client ID: UST3-B-90	Batch ID: 41176	Analysis Date: 8/10/2023	SeqNo: 1792505								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	0.870	0.0221	1.103	0	78.9	64.1	141	0.9085	4.27	30	
Aroclor 1260	0.712	0.0221	1.103	0	64.6	51.1	146	0.7572	6.14	30	
Surr: Decachlorobiphenyl	84.9		220.6		38.5	5	160		0		
Surr: Tetrachloro-m-xylene	161		220.6		72.8	57.3	159		0		

Sample ID: 1660-CCV-41197A	SampType: CCV	Units: mg/Kg	Prep Date: 8/14/2023	RunNo: 85931							
Client ID: CCV	Batch ID: 41197	Analysis Date: 8/14/2023	SeqNo: 1793366								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	0.992	0.0200	1.000	0	99.2	80	120				
Aroclor 1260	0.928	0.0200	1.000	0	92.8	80	120				
Surr: Decachlorobiphenyl	97.9		200.0		48.9	30.2	155				
Surr: Tetrachloro-m-xylene	193		200.0		96.4	58.8	143				

Sample ID: MB-41197	SampType: MBLK	Units: mg/Kg	Prep Date: 8/14/2023	RunNo: 85931							
Client ID: MBLKS	Batch ID: 41197	Analysis Date: 8/14/2023	SeqNo: 1793367								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	ND	0.0200									
Aroclor 1221	ND	0.0200									
Aroclor 1232	ND	0.0200									

Work Order: 2308151
 CLIENT: GeoEngineers
 Project: S Jackson Street

QC SUMMARY REPORT
Polychlorinated Biphenyls (PCB) by EPA Method 8082

Sample ID: MB-41197		SampType: MBLK		Units: mg/Kg		Prep Date: 8/14/2023		RunNo: 85931			
Client ID: MBLKS		Batch ID: 41197				Analysis Date: 8/14/2023		SeqNo: 1793367			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1242	ND	0.0200									
Aroclor 1248	ND	0.0200									
Aroclor 1254	ND	0.0200									
Aroclor 1260	ND	0.0200									
Aroclor 1262	ND	0.0200									
Aroclor 1268	ND	0.0200									
Total PCBs	ND	0.0200									
Surr: Decachlorobiphenyl	103		200.0		51.4	5	160				
Surr: Tetrachloro-m-xylene	204		200.0		102	57.3	159				

Sample ID: LCS-41197		SampType: LCS		Units: mg/Kg		Prep Date: 8/14/2023		RunNo: 85931			
Client ID: LCSS		Batch ID: 41197				Analysis Date: 8/14/2023		SeqNo: 1793368			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	1.08	0.0200	1.000	0	108	67.1	142				
Aroclor 1260	0.998	0.0200	1.000	0	99.8	71	140				
Surr: Decachlorobiphenyl	106		200.0		52.8	5	160				
Surr: Tetrachloro-m-xylene	205		200.0		103	57.3	159				

Sample ID: 2308151-006AMS		SampType: MS		Units: mg/Kg-dry		Prep Date: 8/14/2023		RunNo: 85931			
Client ID: UST3-NSW-93		Batch ID: 41197				Analysis Date: 8/14/2023		SeqNo: 1793370			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	1.36	0.0253	1.265	0	107	64.1	141				
Aroclor 1260	1.29	0.0253	1.265	0	102	51.1	146				
Surr: Decachlorobiphenyl	73.4		253.0		29.0	5	160				
Surr: Tetrachloro-m-xylene	156		253.0		61.7	57.3	159				

Work Order: 2308151
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT

Polychlorinated Biphenyls (PCB) by EPA Method 8082

Sample ID: 2308151-006AMSD	SampType: MSD	Units: mg/Kg-dry				Prep Date: 8/14/2023	RunNo: 85931				
Client ID: UST3-NSW-93	Batch ID: 41197					Analysis Date: 8/14/2023	SeqNo: 1793371				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	1.38	0.0253	1.264	0	109	64.1	141	1.357	1.69	30	
Aroclor 1260	1.31	0.0253	1.264	0	104	51.1	146	1.288	1.69	30	
Surr: Decachlorobiphenyl	77.3		252.7		30.6	5	160		0		
Surr: Tetrachloro-m-xylene	167		252.7		66.0	57.3	159		0		

Sample ID: 1660-CCV-41197C	SampType: CCV	Units: mg/Kg				Prep Date: 8/15/2023	RunNo: 85931				
Client ID: CCV	Batch ID: 41197					Analysis Date: 8/15/2023	SeqNo: 1793444				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	1.19	0.0200	1.000	0	119	80	120				
Aroclor 1260	1.17	0.0200	1.000	0	117	80	120				
Surr: Decachlorobiphenyl	127		200.0		63.3	30.2	155				
Surr: Tetrachloro-m-xylene	228		200.0		114	58.8	143				

Work Order: 2308151
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT

Gasoline by NWTPH-Gx

Sample ID: CCV-41166A		SampType: CCV		Units: mg/Kg		Prep Date: 8/10/2023		RunNo: 85905			
Client ID: CCV		Batch ID: 41166				Analysis Date: 8/10/2023		SeqNo: 1792909			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	442	5.00	500.0	0	88.4	80	120				
Surr: Toluene-d8	25.1		25.00		101	65	135				
Surr: 4-Bromofluorobenzene	24.8		25.00		99.2	65	135				

Sample ID: MB-41166		SampType: MBLK		Units: mg/Kg		Prep Date: 8/10/2023		RunNo: 85905			
Client ID: MBLKS		Batch ID: 41166				Analysis Date: 8/10/2023		SeqNo: 1792914			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	ND	5.00									
Surr: Toluene-d8	1.26		1.250		101	65	135				
Surr: 4-Bromofluorobenzene	1.25		1.250		99.8	65	135				

Sample ID: LCS-41178		SampType: LCS		Units: mg/Kg		Prep Date: 8/10/2023		RunNo: 85880			
Client ID: LCSS		Batch ID: 41178				Analysis Date: 8/10/2023		SeqNo: 1792151			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	22.0	5.00	25.00	0	87.9	65	135				
Surr: Toluene-d8	1.25		1.250		99.7	65	135				
Surr: 4-Bromofluorobenzene	1.24		1.250		99.1	65	135				

Sample ID: CCV-41178A		SampType: CCV		Units: %Rec		Prep Date: 8/10/2023		RunNo: 85880			
Client ID: CCV		Batch ID: R85880				Analysis Date: 8/10/2023		SeqNo: 1792148			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Toluene-d8	24.9		25.00		99.7	65	135				
Surr: 4-Bromofluorobenzene	24.8		25.00		99.1	65	135				

Work Order: 2308151
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT
Gasoline by NWTPH-Gx

Sample ID: MB-41178	SampType: MBLK	Units: mg/Kg	Prep Date: 8/10/2023	RunNo: 85880							
Client ID: MBLKS	Batch ID: 41178		Analysis Date: 8/11/2023	SeqNo: 1792150							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	ND	5.00									
Surr: Toluene-d8	1.25		1.250		99.9	65	135				
Surr: 4-Bromofluorobenzene	1.24		1.250		99.0	65	135				

Sample ID: 2308159-001BDUP	SampType: DUP	Units: mg/Kg-dry	Prep Date: 8/10/2023	RunNo: 85880							
Client ID: BATCH	Batch ID: 41178		Analysis Date: 8/11/2023	SeqNo: 1792138							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	ND	71.5						0		30	D
Surr: Toluene-d8	17.9		17.87		100	65	135		0		D
Surr: 4-Bromofluorobenzene	17.7		17.87		99.3	65	135		0		D

Sample ID: 2308159-002BMS	SampType: MS	Units: mg/Kg-dry	Prep Date: 8/10/2023	RunNo: 85880							
Client ID: BATCH	Batch ID: 41178		Analysis Date: 8/11/2023	SeqNo: 1792141							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	555	66.1	330.5	149.1	123	65	135				D
Surr: Toluene-d8	16.4		16.52		99.3	65	135				D
Surr: 4-Bromofluorobenzene	16.2		16.52		97.8	65	135				D

Sample ID: CCV-41166C	SampType: CCV	Units: mg/Kg	Prep Date: 8/12/2023	RunNo: 85905							
Client ID: CCV	Batch ID: 41166		Analysis Date: 8/12/2023	SeqNo: 1792905							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	515	5.00	500.0	0	103	80	120				
Surr: Toluene-d8	24.9		25.00		99.6	65	135				
Surr: 4-Bromofluorobenzene	24.2		25.00		96.9	65	135				

Work Order: 2308151
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT
Gasoline by NWTPH-Gx

Sample ID: LCS-41166	SampType: LCS	Units: mg/Kg	Prep Date: 8/10/2023	RunNo: 85905							
Client ID: LCSS	Batch ID: 41166		Analysis Date: 8/12/2023	SeqNo: 1792933							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline Range Organics	25.8	5.00	25.00	0	103	65	135				
Surr: Toluene-d8	1.25		1.250		99.6	65	135				
Surr: 4-Bromofluorobenzene	1.21		1.250		96.9	65	135				

Sample ID: 2308044-014BDUP	SampType: DUP	Units: mg/Kg-dry	Prep Date: 8/10/2023	RunNo: 85905							
Client ID: BATCH	Batch ID: 41166		Analysis Date: 8/12/2023	SeqNo: 1792891							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline Range Organics	ND	5.57						0		30	
Surr: Toluene-d8	1.38		1.393		99.0	65	135		0		
Surr: 4-Bromofluorobenzene	1.36		1.393		98.0	65	135		0		

Sample ID: 2308044-023BDUP	SampType: DUP	Units: mg/Kg-dry	Prep Date: 8/10/2023	RunNo: 85905							
Client ID: BATCH	Batch ID: 41166		Analysis Date: 8/12/2023	SeqNo: 1792893							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline Range Organics	ND	6.60						0		30	
Surr: Toluene-d8	1.65		1.651		100	65	135		0		
Surr: 4-Bromofluorobenzene	1.62		1.651		98.2	65	135		0		

Sample ID: 2308111-001BMS	SampType: MS	Units: mg/Kg-dry	Prep Date: 8/10/2023	RunNo: 85905							
Client ID: BATCH	Batch ID: 41166		Analysis Date: 8/12/2023	SeqNo: 1792895							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline Range Organics	32.5	5.30	26.50	5.741	101	65	135				
Surr: Toluene-d8	1.32		1.325		99.5	65	135				
Surr: 4-Bromofluorobenzene	1.28		1.325		96.6	65	135				

Work Order: 2308151
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT
Gasoline by NWTPH-Gx

Sample ID: CCV-41166E	SampType: CCV	Units: mg/Kg	Prep Date: 8/14/2023	RunNo: 85905							
Client ID: CCV	Batch ID: 41166	Analysis Date: 8/14/2023	SeqNo: 1793078								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline Range Organics	459	5.00	500.0	0	91.9	80	120				
Surr: Toluene-d8	24.6		25.00		98.5	65	135				
Surr: 4-Bromofluorobenzene	24.2		25.00		96.7	65	135				

Work Order: 2308151
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: CCV-41178A	SampType: CCV	Units: µg/L				Prep Date: 8/10/2023	RunNo: 85876				
Client ID: CCV	Batch ID: 41178					Analysis Date: 8/10/2023	SeqNo: 1792084				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane (CFC-12)	20.6	0.0150	20.00	0	103	80	120				
Chloromethane	18.3	0.0500	20.00	0	91.4	80	120				
Vinyl chloride	19.0	0.0250	20.00	0	95.1	80	120				
Bromomethane	18.8	0.0250	20.00	0	93.9	80	120				
Trichlorofluoromethane (CFC-11)	20.5	0.0200	20.00	0	103	80	120				
Chloroethane	21.4	0.0750	20.00	0	107	80	120				
1,1-Dichloroethene	18.9	0.100	20.00	0	94.7	80	120				
Acetone	47.2	0.250	50.00	0	94.4	80	120				
Methylene chloride	19.0	0.0350	20.00	0	95.0	80	120				
trans-1,2-Dichloroethene	19.5	0.0100	20.00	0	97.5	80	120				
Methyl tert-butyl ether (MTBE)	19.9	0.0200	20.00	0	99.3	80	120				
1,1-Dichloroethane	19.3	0.0250	20.00	0	96.3	80	120				
cis-1,2-Dichloroethene	19.3	0.0150	20.00	0	96.6	80	120				
(MEK) 2-Butanone	48.0	0.300	50.00	0	96.0	80	120				
Chloroform	20.3	0.0175	20.00	0	101	80	120				
1,1,1-Trichloroethane (TCA)	20.1	0.0200	20.00	0	101	80	120				
1,1-Dichloropropene	19.7	0.0200	20.00	0	98.6	80	120				
Carbon tetrachloride	20.7	0.0250	20.00	0	104	80	120				
1,2-Dichloroethane (EDC)	20.0	0.0200	20.00	0	99.9	80	120				
Benzene	19.4	0.0175	20.00	0	97.1	80	120				
Trichloroethene (TCE)	19.0	0.0150	20.00	0	95.0	80	120				
1,2-Dichloropropane	19.8	0.0250	20.00	0	99.1	80	120				
Bromodichloromethane	19.9	0.0250	20.00	0	99.4	80	120				
Dibromomethane	20.0	0.0125	20.00	0	100	80	120				
cis-1,3-Dichloropropene	19.7	0.0150	20.00	0	98.6	80	120				
Toluene	20.7	0.0300	20.00	0	103	80	120				
Trans-1,3-Dichloropropylene	19.7	0.0200	20.00	0	98.6	80	120				
Methyl Isobutyl Ketone (MIBK)	51.8	0.0600	50.00	0	104	80	120				
1,1,2-Trichloroethane	19.8	0.0125	20.00	0	98.8	80	120				
1,3-Dichloropropane	19.7	0.0100	20.00	0	98.4	80	120				
Tetrachloroethene (PCE)	20.3	0.0150	20.00	0	101	80	120				
Dibromochloromethane	19.8	0.0150	20.00	0	98.8	80	120				

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CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: CCV-41178A	SampType: CCV	Units: µg/L				Prep Date: 8/10/2023	RunNo: 85876				
Client ID: CCV	Batch ID: 41178					Analysis Date: 8/10/2023	SeqNo: 1792084				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromoethane (EDB)	21.0	0.0100	20.00	0	105	80	120				
2-Hexanone (MBK)	46.4	0.0625	50.00	0	92.7	80	120				
Chlorobenzene	19.7	0.0150	20.00	0	98.4	80	120				
1,1,1,2-Tetrachloroethane	20.9	0.0250	20.00	0	104	80	120				
Ethylbenzene	19.6	0.0250	20.00	0	97.8	80	120				
m,p-Xylene	41.7	0.0500	40.00	0	104	80	120				
o-Xylene	20.4	0.0250	20.00	0	102	80	120				
Styrene	19.8	0.0100	20.00	0	99.0	80	120				
Isopropylbenzene	21.2	0.0150	20.00	0	106	80	120				
Bromoform	20.9	0.0150	20.00	0	104	80	120				
1,1,2,2-Tetrachloroethane	20.7	0.200	20.00	0	104	80	120				
n-Propylbenzene	21.0	0.0150	20.00	0	105	80	120				
Bromobenzene	19.8	0.0125	20.00	0	99.2	80	120				
1,3,5-Trimethylbenzene	19.4	0.0150	20.00	0	96.8	80	120				
2-Chlorotoluene	19.0	0.0165	20.00	0	95.1	80	120				
4-Chlorotoluene	20.6	0.0165	20.00	0	103	80	120				
tert-Butylbenzene	19.8	0.0150	20.00	0	99.0	80	120				
1,2,3-Trichloropropane	20.1	0.0300	20.00	0	100	80	120				
1,2,4-Trichlorobenzene	20.5	0.0600	20.00	0	102	80	120				
sec-Butylbenzene	21.0	0.150	20.00	0	105	80	120				
4-Isopropyltoluene	20.7	0.200	20.00	0	104	80	120				
1,3-Dichlorobenzene	19.2	0.0200	20.00	0	95.9	80	120				
1,4-Dichlorobenzene	20.9	0.0150	20.00	0	104	80	120				
n-Butylbenzene	20.8	0.0200	20.00	0	104	80	120				
1,2-Dichlorobenzene	19.7	0.0200	20.00	0	98.3	80	120				
1,2-Dibromo-3-chloropropane	19.9	0.0300	20.00	0	99.5	80	120				
1,2,4-Trimethylbenzene	20.6	0.0150	20.00	0	103	80	120				
Hexachloro-1,3-butadiene	19.6	0.0400	20.00	0	98.0	80	120				
Naphthalene	19.7	0.100	20.00	0	98.6	80	120				
1,2,3-Trichlorobenzene	19.8	0.0600	20.00	0	99.1	80	120				
Surr: Dibromofluoromethane	25.0		25.00		99.8	80	120				
Surr: Toluene-d8	25.0		25.00		100	80	120				

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CLIENT: GeoEngineers
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QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: CCV-41178A	SampType: CCV	Units: µg/L	Prep Date: 8/10/2023	RunNo: 85876							
Client ID: CCV	Batch ID: 41178		Analysis Date: 8/10/2023	SeqNo: 1792084							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 1-Bromo-4-fluorobenzene	24.4		25.00		97.5	80	120				

Sample ID: LCS-41178	SampType: LCS	Units: µg/L	Prep Date: 8/10/2023	RunNo: 85876							
Client ID: LCSS	Batch ID: 41178		Analysis Date: 8/10/2023	SeqNo: 1792085							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane (CFC-12)	1.03	0.0150	1.000	0	103	80	120				
Chloromethane	0.914	0.0500	1.000	0	91.4	80	120				
Vinyl chloride	0.951	0.0250	1.000	0	95.1	80	120				
Bromomethane	0.939	0.0250	1.000	0	93.9	80	120				
Trichlorofluoromethane (CFC-11)	1.03	0.0200	1.000	0	103	80	120				
Chloroethane	1.07	0.0750	1.000	0	107	80	120				
1,1-Dichloroethene	0.947	0.100	1.000	0	94.7	80	120				
Acetone	2.36	0.250	2.500	0	94.4	80	120				
Methylene chloride	0.950	0.0350	1.000	0	95.0	80	120				
trans-1,2-Dichloroethene	0.975	0.0100	1.000	0	97.5	80	120				
Methyl tert-butyl ether (MTBE)	0.993	0.0200	1.000	0	99.3	80	120				
1,1-Dichloroethane	0.963	0.0250	1.000	0	96.3	80	120				
cis-1,2-Dichloroethene	0.966	0.0150	1.000	0	96.6	80	120				
(MEK) 2-Butanone	2.40	0.300	2.500	0	96.0	80	120				
Chloroform	1.01	0.0175	1.000	0	101	80	120				
1,1,1-Trichloroethane (TCA)	1.01	0.0200	1.000	0	101	80	120				
1,1-Dichloropropene	0.986	0.0200	1.000	0	98.6	80	120				
Carbon tetrachloride	1.04	0.0250	1.000	0	104	80	120				
1,2-Dichloroethane (EDC)	0.999	0.0200	1.000	0	99.9	80	120				
Benzene	0.971	0.0175	1.000	0	97.1	80	120				
Trichloroethene (TCE)	0.950	0.0150	1.000	0	95.0	80	120				
1,2-Dichloropropane	0.991	0.0250	1.000	0	99.1	80	120				
Bromodichloromethane	0.994	0.0250	1.000	0	99.4	80	120				
Dibromomethane	1.00	0.0125	1.000	0	100	80	120				
cis-1,3-Dichloropropene	0.986	0.0150	1.000	0	98.6	80	120				

Work Order: 2308151
CLIENT: GeoEngineers
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QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: LCS-41178	SampType: LCS	Units: µg/L	Prep Date: 8/10/2023	RunNo: 85876							
Client ID: LCSS	Batch ID: 41178		Analysis Date: 8/10/2023	SeqNo: 1792085							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Toluene	1.03	0.0300	1.000	0	103	80	120				
Trans-1,3-Dichloropropylene	0.986	0.0200	1.000	0	98.6	80	120				
Methyl Isobutyl Ketone (MIBK)	2.59	0.0600	2.500	0	104	80	120				
1,1,2-Trichloroethane	0.988	0.0125	1.000	0	98.8	80	120				
1,3-Dichloropropane	0.984	0.0100	1.000	0	98.4	80	120				
Tetrachloroethene (PCE)	1.01	0.0150	1.000	0	101	80	120				
Dibromochloromethane	0.988	0.0150	1.000	0	98.8	80	120				
1,2-Dibromoethane (EDB)	1.05	0.0100	1.000	0	105	80	120				
2-Hexanone (MBK)	2.32	0.0625	2.500	0	92.7	80	120				
Chlorobenzene	0.984	0.0150	1.000	0	98.4	80	120				
1,1,1,2-Tetrachloroethane	1.04	0.0250	1.000	0	104	80	120				
Ethylbenzene	0.978	0.0250	1.000	0	97.8	80	120				
m,p-Xylene	2.09	0.0500	2.000	0	104	80	120				
o-Xylene	1.02	0.0250	1.000	0	102	80	120				
Styrene	0.990	0.0100	1.000	0	99.0	80	120				
Isopropylbenzene	1.06	0.0150	1.000	0	106	80	120				
Bromoform	1.04	0.0150	1.000	0	104	80	120				
1,1,2,2-Tetrachloroethane	1.04	0.200	1.000	0	104	80	120				
n-Propylbenzene	1.05	0.0150	1.000	0	105	80	120				
Bromobenzene	0.992	0.0125	1.000	0	99.2	80	120				
1,3,5-Trimethylbenzene	0.968	0.0150	1.000	0	96.8	80	120				
2-Chlorotoluene	0.951	0.0165	1.000	0	95.1	80	120				
4-Chlorotoluene	1.03	0.0165	1.000	0	103	80	120				
tert-Butylbenzene	0.990	0.0150	1.000	0	99.0	80	120				
1,2,3-Trichloropropane	1.00	0.0300	1.000	0	100	80	120				
1,2,4-Trichlorobenzene	1.02	0.0600	1.000	0	102	80	120				
sec-Butylbenzene	1.05	0.150	1.000	0	105	80	120				
4-Isopropyltoluene	1.04	0.200	1.000	0	104	80	120				
1,3-Dichlorobenzene	0.959	0.0200	1.000	0	95.9	80	120				
1,4-Dichlorobenzene	1.04	0.0150	1.000	0	104	80	120				
n-Butylbenzene	1.04	0.0200	1.000	0	104	80	120				
1,2-Dichlorobenzene	0.983	0.0200	1.000	0	98.3	80	120				

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QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: LCS-41178	SampType: LCS	Units: µg/L	Prep Date: 8/10/2023	RunNo: 85876							
Client ID: LCSS	Batch ID: 41178		Analysis Date: 8/10/2023	SeqNo: 1792085							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromo-3-chloropropane	0.995	0.0300	1.000	0	99.5	80	120				
1,2,4-Trimethylbenzene	1.03	0.0150	1.000	0	103	80	120				
Hexachloro-1,3-butadiene	0.980	0.0400	1.000	0	98.0	80	120				
Naphthalene	0.986	0.100	1.000	0	98.6	80	120				
1,2,3-Trichlorobenzene	0.991	0.0600	1.000	0	99.1	80	120				
Surr: Dibromofluoromethane	1.25		1.250		99.8	79.5	124				
Surr: Toluene-d8	1.25		1.250		100	77.5	124				
Surr: 1-Bromo-4-fluorobenzene	1.22		1.250		97.5	60.5	139				

Sample ID: MB-41178	SampType: MBLK	Units: mg/Kg	Prep Date: 8/10/2023	RunNo: 85876							
Client ID: MBLKS	Batch ID: 41178		Analysis Date: 8/11/2023	SeqNo: 1792083							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane (CFC-12)	ND	0.0150									
Chloromethane	ND	0.0500									
Vinyl chloride	ND	0.0250									
Bromomethane	ND	0.0250									
Trichlorofluoromethane (CFC-11)	ND	0.0200									
Chloroethane	ND	0.0750									
1,1-Dichloroethene	ND	0.100									
Acetone	ND	0.250									
Methylene chloride	ND	0.0350									
trans-1,2-Dichloroethene	ND	0.0100									
Methyl tert-butyl ether (MTBE)	ND	0.0200									
1,1-Dichloroethane	ND	0.0250									
cis-1,2-Dichloroethene	ND	0.0150									
(MEK) 2-Butanone	ND	0.300									
Chloroform	ND	0.0175									
1,1,1-Trichloroethane (TCA)	ND	0.0200									
1,1-Dichloropropene	ND	0.0200									
Carbon tetrachloride	ND	0.0250									

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Project: S Jackson Street

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: MB-41178	SampType: MBLK	Units: mg/Kg	Prep Date: 8/10/2023	RunNo: 85876							
Client ID: MBLKS	Batch ID: 41178		Analysis Date: 8/11/2023	SeqNo: 1792083							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,2-Dichloroethane (EDC)	ND	0.0200									
Benzene	ND	0.0175									
Trichloroethene (TCE)	ND	0.0150									
1,2-Dichloropropane	ND	0.0250									
Bromodichloromethane	ND	0.0250									
Dibromomethane	ND	0.0125									
cis-1,3-Dichloropropene	ND	0.0150									
Toluene	ND	0.0300									
Trans-1,3-Dichloropropylene	ND	0.0200									
Methyl Isobutyl Ketone (MIBK)	ND	0.0600									
1,1,2-Trichloroethane	ND	0.0125									
1,3-Dichloropropane	ND	0.0100									
Tetrachloroethene (PCE)	ND	0.0150									
Dibromochloromethane	ND	0.0150									
1,2-Dibromoethane (EDB)	ND	0.0100									
2-Hexanone (MBK)	ND	0.0625									
Chlorobenzene	ND	0.0150									
1,1,1,2-Tetrachloroethane	ND	0.0250									
Ethylbenzene	ND	0.0250									
m,p-Xylene	ND	0.0500									
o-Xylene	ND	0.0250									
Styrene	ND	0.0100									
Isopropylbenzene	ND	0.0150									
Bromoform	ND	0.0150									
1,1,2,2-Tetrachloroethane	ND	0.200									
n-Propylbenzene	ND	0.0150									
Bromobenzene	ND	0.0125									
1,3,5-Trimethylbenzene	ND	0.0150									
2-Chlorotoluene	ND	0.0165									
4-Chlorotoluene	ND	0.0165									
tert-Butylbenzene	ND	0.0150									
1,2,3-Trichloropropane	ND	0.0300									

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QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: MB-41178	SampType: MBLK	Units: mg/Kg	Prep Date: 8/10/2023	RunNo: 85876							
Client ID: MBLKS	Batch ID: 41178		Analysis Date: 8/11/2023	SeqNo: 1792083							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	ND	0.0600									
sec-Butylbenzene	ND	0.150									
4-Isopropyltoluene	ND	0.200									
1,3-Dichlorobenzene	ND	0.0200									
1,4-Dichlorobenzene	ND	0.0150									
n-Butylbenzene	ND	0.0200									
1,2-Dichlorobenzene	ND	0.0200									
1,2-Dibromo-3-chloropropane	ND	0.0300									
1,2,4-Trimethylbenzene	ND	0.0150									
Hexachloro-1,3-butadiene	ND	0.0400									
Naphthalene	ND	0.100									
1,2,3-Trichlorobenzene	ND	0.0600									
Surr: Dibromofluoromethane	1.20		1.250		96.2	79.5	124				
Surr: Toluene-d8	1.23		1.250		98.1	77.5	124				
Surr: 1-Bromo-4-fluorobenzene	1.23		1.250		98.8	60.5	139				

Sample ID: 2308159-001BDUP	SampType: DUP	Units: mg/Kg-dry	Prep Date: 8/10/2023	RunNo: 85876							
Client ID: BATCH	Batch ID: 41178		Analysis Date: 8/11/2023	SeqNo: 1792082							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane (CFC-12)	ND	0.214						0		30	D
Chloromethane	ND	0.715						0		30	D
Vinyl chloride	ND	0.357						0		30	D
Bromomethane	ND	0.357						0		30	D
Trichlorofluoromethane (CFC-11)	ND	0.286						0		30	D
Chloroethane	ND	1.07						0		30	D
1,1-Dichloroethene	ND	1.43						0		30	D
Acetone	ND	3.57						0		30	D
Methylene chloride	ND	0.500						0		30	D
trans-1,2-Dichloroethene	ND	0.143						0		30	D
Methyl tert-butyl ether (MTBE)	ND	0.286						0		30	D

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QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: 2308159-001BDUP	SampType: DUP	Units: mg/Kg-dry	Prep Date: 8/10/2023	RunNo: 85876
Client ID: BATCH	Batch ID: 41178		Analysis Date: 8/11/2023	SeqNo: 1792082

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethane	ND	0.357						0		30	D
cis-1,2-Dichloroethene	ND	0.214						0		30	D
(MEK) 2-Butanone	ND	4.29						0		30	D
Chloroform	ND	0.250						0		30	D
1,1,1-Trichloroethane (TCA)	ND	0.286						0		30	D
1,1-Dichloropropene	ND	0.286						0		30	D
Carbon tetrachloride	ND	0.357						0		30	D
1,2-Dichloroethane (EDC)	ND	0.286						0		30	D
Benzene	ND	0.250						0		30	D
Trichloroethene (TCE)	ND	0.214						0		30	D
1,2-Dichloropropane	ND	0.357						0		30	D
Bromodichloromethane	ND	0.357						0		30	D
Dibromomethane	ND	0.179						0		30	D
cis-1,3-Dichloropropene	ND	0.214						0		30	D
Toluene	ND	0.429						0		30	D
Trans-1,3-Dichloropropylene	ND	0.286						0		30	D
Methyl Isobutyl Ketone (MIBK)	ND	0.858						0		30	D
1,1,2-Trichloroethane	ND	0.179						0		30	D
1,3-Dichloropropane	ND	0.143						0		30	D
Tetrachloroethene (PCE)	ND	0.214						0		30	D
Dibromochloromethane	ND	0.214						0		30	D
1,2-Dibromoethane (EDB)	ND	0.143						0		30	D
2-Hexanone (MBK)	ND	0.893						0		30	D
Chlorobenzene	ND	0.214						0		30	D
1,1,1,2-Tetrachloroethane	ND	0.357						0		30	D
Ethylbenzene	ND	0.357						0		30	D
m,p-Xylene	ND	0.715						0		30	D
o-Xylene	ND	0.357						0		30	D
Styrene	ND	0.143						0		30	D
Isopropylbenzene	ND	0.214						0		30	D
Bromoform	ND	0.214						0		30	D
1,1,2,2-Tetrachloroethane	ND	2.86						0		30	D

Work Order: 2308151
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: 2308159-001BDUP		SampType: DUP		Units: mg/Kg-dry		Prep Date: 8/10/2023		RunNo: 85876			
Client ID: BATCH		Batch ID: 41178				Analysis Date: 8/11/2023		SeqNo: 1792082			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
n-Propylbenzene	ND	0.214						0		30	D
Bromobenzene	ND	0.179						0		30	D
1,3,5-Trimethylbenzene	ND	0.214						0		30	D
2-Chlorotoluene	ND	0.236						0		30	D
4-Chlorotoluene	ND	0.236						0		30	D
tert-Butylbenzene	ND	0.214						0		30	D
1,2,3-Trichloropropane	ND	0.429						0		30	D
1,2,4-Trichlorobenzene	ND	0.858						0		30	D
sec-Butylbenzene	ND	2.14						0		30	D
4-Isopropyltoluene	ND	2.86						0		30	D
1,3-Dichlorobenzene	ND	0.286						0		30	D
1,4-Dichlorobenzene	ND	0.214						0		30	D
n-Butylbenzene	ND	0.286						0		30	D
1,2-Dichlorobenzene	ND	0.286						0		30	D
1,2-Dibromo-3-chloropropane	ND	0.429						0		30	D
1,2,4-Trimethylbenzene	ND	0.214						0		30	D
Hexachloro-1,3-butadiene	ND	0.572						0		30	D
Naphthalene	ND	1.43						0		30	D
1,2,3-Trichlorobenzene	ND	0.858						0		30	D
Surr: Dibromofluoromethane	18.4		17.87		103	79.5	124		0		D
Surr: Toluene-d8	17.6		17.87		98.3	77.5	124		0		D
Surr: 1-Bromo-4-fluorobenzene	17.7		17.87		99.1	60.5	139		0		D

Sample ID: 2308139-002BMS		SampType: MS		Units: mg/Kg-dry		Prep Date: 8/10/2023		RunNo: 85876			
Client ID: BATCH		Batch ID: 41178				Analysis Date: 8/11/2023		SeqNo: 1792079			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane (CFC-12)	1.35	0.0140	0.9358	0	144	5	160				
Chloromethane	1.06	0.0468	0.9358	0	113	17.7	160				
Vinyl chloride	1.20	0.0234	0.9358	0	128	21.7	160				
Bromomethane	1.19	0.0234	0.9358	0	128	20	160				

Work Order: 2308151
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: 2308139-002BMS	SampType: MS	Units: mg/Kg-dry				Prep Date: 8/10/2023	RunNo: 85876				
Client ID: BATCH	Batch ID: 41178					Analysis Date: 8/11/2023	SeqNo: 1792079				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Trichlorofluoromethane (CFC-11)	1.12	0.0187	0.9358	0	120	5	160				
Chloroethane	1.59	0.0702	0.9358	0	170	5	160				S
1,1-Dichloroethene	0.952	0.0936	0.9358	0	102	21.7	160				
Acetone	3.44	0.234	2.339	0	147	20.7	160				
Methylene chloride	1.02	0.0328	0.9358	0.02662	106	46.7	154				
trans-1,2-Dichloroethene	0.954	0.00936	0.9358	0	102	41.9	160				
Methyl tert-butyl ether (MTBE)	0.941	0.0187	0.9358	0	101	70.3	138				
1,1-Dichloroethane	0.927	0.0234	0.9358	0	99.0	45.4	160				
cis-1,2-Dichloroethene	0.917	0.0140	0.9358	0	98.0	52.6	151				
(MEK) 2-Butanone	2.99	0.281	2.339	0	128	44.3	160				
Chloroform	0.969	0.0164	0.9358	0	104	52.7	148				
1,1,1-Trichloroethane (TCA)	0.947	0.0187	0.9358	0	101	39.7	160				
1,1-Dichloropropene	0.950	0.0187	0.9358	0	102	40.1	160				
Carbon tetrachloride	1.01	0.0234	0.9358	0	108	34.2	160				
1,2-Dichloroethane (EDC)	0.936	0.0187	0.9358	0	100	64.6	137				
Benzene	0.913	0.0164	0.9358	0	97.6	52.3	147				
Trichloroethene (TCE)	0.916	0.0140	0.9358	0	97.9	43.1	160				
1,2-Dichloropropane	0.933	0.0234	0.9358	0	99.7	59.5	142				
Bromodichloromethane	0.935	0.0234	0.9358	0	99.9	61.4	146				
Dibromomethane	0.919	0.0117	0.9358	0	98.2	72.4	140				
cis-1,3-Dichloropropene	0.917	0.0140	0.9358	0	98.0	59.6	136				
Toluene	0.964	0.0281	0.9358	0	103	50.1	147				
Trans-1,3-Dichloropropylene	0.916	0.0187	0.9358	0	97.9	59.3	139				
Methyl Isobutyl Ketone (MIBK)	2.44	0.0561	2.339	0	104	48	160				
1,1,2-Trichloroethane	0.916	0.0117	0.9358	0	97.9	70.4	140				
1,3-Dichloropropane	0.899	0.00936	0.9358	0	96.0	69.2	140				
Tetrachloroethene (PCE)	0.982	0.0140	0.9358	0	105	44.6	160				
Dibromochloromethane	0.912	0.0140	0.9358	0	97.5	64.7	141				
1,2-Dibromoethane (EDB)	0.958	0.00936	0.9358	0	102	70.4	143				
2-Hexanone (MBK)	3.01	0.0585	2.339	0	129	33	160				
Chlorobenzene	0.931	0.0140	0.9358	0	99.4	59.6	134				
1,1,1,2-Tetrachloroethane	0.966	0.0234	0.9358	0	103	58	141				

Work Order: 2308151
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: 2308139-002BMS	SampType: MS	Units: mg/Kg-dry	Prep Date: 8/10/2023	RunNo: 85876							
Client ID: BATCH	Batch ID: 41178		Analysis Date: 8/11/2023	SeqNo: 1792079							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Ethylbenzene	0.947	0.0234	0.9358	0.02173	98.9	51.7	143				
m,p-Xylene	2.10	0.0468	1.872	0.1113	106	54.5	144				
o-Xylene	0.955	0.0234	0.9358	0	102	57.1	141				
Styrene	0.928	0.00936	0.9358	0	99.2	63.4	135				
Isopropylbenzene	1.00	0.0140	0.9358	0	107	47.8	152				
Bromoform	0.988	0.0140	0.9358	0	106	70.1	134				
1,1,2,2-Tetrachloroethane	0.919	0.187	0.9358	0	98.2	43.2	157				
n-Propylbenzene	1.02	0.0140	0.9358	0.01500	108	47.5	152				
Bromobenzene	0.916	0.0117	0.9358	0	97.8	66.9	133				
1,3,5-Trimethylbenzene	0.957	0.0140	0.9358	0.03813	98.2	51.5	146				
2-Chlorotoluene	0.912	0.0154	0.9358	0	97.5	54.5	137				
4-Chlorotoluene	0.975	0.0154	0.9358	0	104	56.5	138				
tert-Butylbenzene	0.926	0.0140	0.9358	0	99.0	41.8	152				
1,2,3-Trichloropropane	0.887	0.0281	0.9358	0	94.8	64.3	132				
1,2,4-Trichlorobenzene	0.940	0.0561	0.9358	0	100	58.1	135				
sec-Butylbenzene	1.00	0.140	0.9358	0	107	44.2	155				
4-Isopropyltoluene	0.999	0.187	0.9358	0	107	46	156				
1,3-Dichlorobenzene	0.924	0.0187	0.9358	0	98.8	62.6	132				
1,4-Dichlorobenzene	0.984	0.0140	0.9358	0	105	62.7	125				
n-Butylbenzene	1.04	0.0187	0.9358	0	111	43.4	155				
1,2-Dichlorobenzene	0.934	0.0187	0.9358	0	99.8	67.9	128				
1,2-Dibromo-3-chloropropane	0.874	0.0281	0.9358	0	93.4	61.9	135				
1,2,4-Trimethylbenzene	1.13	0.0140	0.9358	0.1440	105	55.5	144				
Hexachloro-1,3-butadiene	0.991	0.0374	0.9358	0	106	38.7	158				
Naphthalene	0.883	0.0936	0.9358	0	94.4	56.6	148				
1,2,3-Trichlorobenzene	0.899	0.0561	0.9358	0	96.1	58.1	142				
Surr: Dibromofluoromethane	1.19		1.170		101	79.5	124				
Surr: Toluene-d8	1.17		1.170		100	77.5	124				
Surr: 1-Bromo-4-fluorobenzene	1.13		1.170		96.3	60.5	139				

NOTES:

S - Outlying spike recoveries were associated with this sample.

Work Order: 2308151
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: CCV-41166A	SampType: CCV	Units: µg/L				Prep Date: 8/12/2023	RunNo: 85899				
Client ID: CCV	Batch ID: 41166					Analysis Date: 8/12/2023	SeqNo: 1792692				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane (CFC-12)	18.4	0.0150	20.00	0	91.8	80	120				
Chloromethane	18.1	0.0500	20.00	0	90.5	80	120				
Vinyl chloride	18.1	0.0250	20.00	0	90.7	80	120				
Bromomethane	19.4	0.0250	20.00	0	97.0	80	120				
Trichlorofluoromethane (CFC-11)	21.2	0.0200	20.00	0	106	80	120				
Chloroethane	19.6	0.0750	20.00	0	97.8	80	120				
1,1-Dichloroethene	18.5	0.100	20.00	0	92.5	80	120				
Acetone	55.1	0.250	50.00	0	110	80	120				
Methylene chloride	18.7	0.0350	20.00	0	93.4	80	120				
trans-1,2-Dichloroethene	19.2	0.0100	20.00	0	96.0	80	120				
Methyl tert-butyl ether (MTBE)	19.0	0.0200	20.00	0	95.0	80	120				
1,1-Dichloroethane	19.3	0.0250	20.00	0	96.3	80	120				
cis-1,2-Dichloroethene	19.1	0.0150	20.00	0	95.3	80	120				
(MEK) 2-Butanone	51.0	0.300	50.00	0	102	80	120				
Chloroform	20.0	0.0175	20.00	0	100	80	120				
1,1,1-Trichloroethane (TCA)	19.1	0.0200	20.00	0	95.7	80	120				
1,1-Dichloropropene	19.4	0.0200	20.00	0	97.2	80	120				
Carbon tetrachloride	19.4	0.0250	20.00	0	97.1	80	120				
1,2-Dichloroethane (EDC)	19.9	0.0200	20.00	0	99.5	80	120				
Benzene	19.2	0.0175	20.00	0	96.0	80	120				
Trichloroethene (TCE)	19.9	0.0150	20.00	0	99.6	80	120				
1,2-Dichloropropane	19.6	0.0250	20.00	0	97.9	80	120				
Bromodichloromethane	19.2	0.0250	20.00	0	95.9	80	120				
Dibromomethane	19.9	0.0125	20.00	0	99.5	80	120				
cis-1,3-Dichloropropene	18.7	0.0150	20.00	0	93.3	80	120				
Toluene	20.1	0.0300	20.00	0	100	80	120				
Trans-1,3-Dichloropropylene	18.7	0.0200	20.00	0	93.3	80	120				
Methyl Isobutyl Ketone (MIBK)	51.7	0.0600	50.00	0	103	80	120				
1,1,2-Trichloroethane	19.7	0.0125	20.00	0	98.3	80	120				
1,3-Dichloropropane	19.6	0.0100	20.00	0	98.1	80	120				
Tetrachloroethene (PCE)	19.6	0.0150	20.00	0	98.0	80	120				
Dibromochloromethane	18.9	0.0150	20.00	0	94.4	80	120				

Work Order: 2308151
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromoethane (EDB)	20.7	0.0100	20.00	0	103	80	120				
2-Hexanone (MBK)	49.5	0.0625	50.00	0	99.0	80	120				
Chlorobenzene	19.1	0.0150	20.00	0	95.3	80	120				
1,1,1,2-Tetrachloroethane	20.1	0.0250	20.00	0	101	80	120				
Ethylbenzene	19.0	0.0250	20.00	0	94.9	80	120				
m,p-Xylene	40.2	0.0500	40.00	0	101	80	120				
o-Xylene	19.7	0.0250	20.00	0	98.6	80	120				
Styrene	19.2	0.0100	20.00	0	96.0	80	120				
Isopropylbenzene	20.3	0.0150	20.00	0	102	80	120				
Bromoform	19.4	0.0150	20.00	0	96.9	80	120				
1,1,2,2-Tetrachloroethane	18.7	0.200	20.00	0	93.4	80	120				
n-Propylbenzene	20.1	0.0150	20.00	0	101	80	120				
Bromobenzene	19.3	0.0125	20.00	0	96.3	80	120				
1,3,5-Trimethylbenzene	18.5	0.0150	20.00	0	92.5	80	120				
2-Chlorotoluene	18.4	0.0165	20.00	0	91.9	80	120				
4-Chlorotoluene	19.8	0.0165	20.00	0	98.9	80	120				
tert-Butylbenzene	19.0	0.0150	20.00	0	94.9	80	120				
1,2,3-Trichloropropane	19.2	0.0300	20.00	0	95.8	80	120				
1,2,4-Trichlorobenzene	20.5	0.0600	20.00	0	103	80	120				
sec-Butylbenzene	20.1	0.150	20.00	0	101	80	120				
4-Isopropyltoluene	19.9	0.200	20.00	0	99.4	80	120				
1,3-Dichlorobenzene	18.7	0.0200	20.00	0	93.6	80	120				
1,4-Dichlorobenzene	20.6	0.0150	20.00	0	103	80	120				
n-Butylbenzene	20.0	0.0200	20.00	0	100	80	120				
1,2-Dichlorobenzene	19.2	0.0200	20.00	0	95.9	80	120				
1,2-Dibromo-3-chloropropane	18.5	0.0300	20.00	0	92.3	80	120				
1,2,4-Trimethylbenzene	19.9	0.0150	20.00	0	99.4	80	120				
Hexachloro-1,3-butadiene	18.9	0.0400	20.00	0	94.5	80	120				
Naphthalene	20.4	0.100	20.00	0	102	80	120				
1,2,3-Trichlorobenzene	20.0	0.0600	20.00	0	99.9	80	120				
Surr: Dibromofluoromethane	25.1		25.00		100	80	120				
Surr: Toluene-d8	25.3		25.00		101	80	120				

Work Order: 2308151
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260D

Sample ID: CCV-41166A	SampType: CCV	Units: µg/L	Prep Date: 8/12/2023	RunNo: 85899							
Client ID: CCV	Batch ID: 41166		Analysis Date: 8/12/2023	SeqNo: 1792692							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 1-Bromo-4-fluorobenzene	24.0		25.00		96.1	80	120				

Sample ID: LCS-41166	SampType: LCS	Units: µg/L	Prep Date: 8/10/2023	RunNo: 85899							
Client ID: LCSS	Batch ID: 41166		Analysis Date: 8/12/2023	SeqNo: 1792720							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane (CFC-12)	0.918	0.0150	1.000	0	91.8	80	120				
Chloromethane	0.905	0.0500	1.000	0	90.5	80	120				
Vinyl chloride	0.907	0.0250	1.000	0	90.7	80	120				
Bromomethane	0.970	0.0250	1.000	0	97.0	80	120				
Trichlorofluoromethane (CFC-11)	1.06	0.0200	1.000	0	106	80	120				
Chloroethane	0.978	0.0750	1.000	0	97.8	80	120				
1,1-Dichloroethene	0.925	0.100	1.000	0	92.5	80	120				
Acetone	2.75	0.250	2.500	0	110	80	120				
Methylene chloride	0.934	0.0350	1.000	0	93.4	80	120				
trans-1,2-Dichloroethene	0.960	0.0100	1.000	0	96.0	80	120				
Methyl tert-butyl ether (MTBE)	0.950	0.0200	1.000	0	95.0	80	120				
1,1-Dichloroethane	0.963	0.0250	1.000	0	96.3	80	120				
cis-1,2-Dichloroethene	0.953	0.0150	1.000	0	95.3	80	120				
(MEK) 2-Butanone	2.55	0.300	2.500	0	102	80	120				
Chloroform	1.00	0.0175	1.000	0	100	80	120				
1,1,1-Trichloroethane (TCA)	0.957	0.0200	1.000	0	95.7	80	120				
1,1-Dichloropropene	0.972	0.0200	1.000	0	97.2	80	120				
Carbon tetrachloride	0.971	0.0250	1.000	0	97.1	80	120				
1,2-Dichloroethane (EDC)	0.995	0.0200	1.000	0	99.5	80	120				
Benzene	0.960	0.0175	1.000	0	96.0	80	120				
Trichloroethene (TCE)	0.996	0.0150	1.000	0	99.6	80	120				
1,2-Dichloropropane	0.979	0.0250	1.000	0	97.9	80	120				
Bromodichloromethane	0.959	0.0250	1.000	0	95.9	80	120				
Dibromomethane	0.995	0.0125	1.000	0	99.5	80	120				
cis-1,3-Dichloropropene	0.933	0.0150	1.000	0	93.3	80	120				

Work Order: 2308151
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: LCS-41166	SampType: LCS	Units: µg/L				Prep Date: 8/10/2023	RunNo: 85899				
Client ID: LCSS	Batch ID: 41166					Analysis Date: 8/12/2023	SeqNo: 1792720				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	1.00	0.0300	1.000	0	100	80	120				
Trans-1,3-Dichloropropylene	0.933	0.0200	1.000	0	93.3	80	120				
Methyl Isobutyl Ketone (MIBK)	2.58	0.0600	2.500	0	103	80	120				
1,1,2-Trichloroethane	0.983	0.0125	1.000	0	98.3	80	120				
1,3-Dichloropropane	0.981	0.0100	1.000	0	98.1	80	120				
Tetrachloroethene (PCE)	0.980	0.0150	1.000	0	98.0	80	120				
Dibromochloromethane	0.944	0.0150	1.000	0	94.4	80	120				
1,2-Dibromoethane (EDB)	1.03	0.0100	1.000	0	103	80	120				
2-Hexanone (MBK)	2.47	0.0625	2.500	0	99.0	80	120				
Chlorobenzene	0.953	0.0150	1.000	0	95.3	80	120				
1,1,1,2-Tetrachloroethane	1.01	0.0250	1.000	0	101	80	120				
Ethylbenzene	0.949	0.0250	1.000	0	94.9	80	120				
m,p-Xylene	2.01	0.0500	2.000	0	101	80	120				
o-Xylene	0.986	0.0250	1.000	0	98.6	80	120				
Styrene	0.960	0.0100	1.000	0	96.0	80	120				
Isopropylbenzene	1.02	0.0150	1.000	0	102	80	120				
Bromoform	0.969	0.0150	1.000	0	96.9	80	120				
1,1,2,2-Tetrachloroethane	0.934	0.200	1.000	0	93.4	80	120				
n-Propylbenzene	1.01	0.0150	1.000	0	101	80	120				
Bromobenzene	0.963	0.0125	1.000	0	96.3	80	120				
1,3,5-Trimethylbenzene	0.925	0.0150	1.000	0	92.5	80	120				
2-Chlorotoluene	0.919	0.0165	1.000	0	91.9	80	120				
4-Chlorotoluene	0.989	0.0165	1.000	0	98.9	80	120				
tert-Butylbenzene	0.949	0.0150	1.000	0	94.9	80	120				
1,2,3-Trichloropropane	0.958	0.0300	1.000	0	95.8	80	120				
1,2,4-Trichlorobenzene	1.03	0.0600	1.000	0	103	80	120				
sec-Butylbenzene	1.01	0.150	1.000	0	101	80	120				
4-Isopropyltoluene	0.994	0.200	1.000	0	99.4	80	120				
1,3-Dichlorobenzene	0.936	0.0200	1.000	0	93.6	80	120				
1,4-Dichlorobenzene	1.03	0.0150	1.000	0	103	80	120				
n-Butylbenzene	1.00	0.0200	1.000	0	100	80	120				
1,2-Dichlorobenzene	0.959	0.0200	1.000	0	95.9	80	120				

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QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: LCS-41166	SampType: LCS	Units: µg/L	Prep Date: 8/10/2023	RunNo: 85899							
Client ID: LCSS	Batch ID: 41166		Analysis Date: 8/12/2023	SeqNo: 1792720							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromo-3-chloropropane	0.923	0.0300	1.000	0	92.3	80	120				
1,2,4-Trimethylbenzene	0.994	0.0150	1.000	0	99.4	80	120				
Hexachloro-1,3-butadiene	0.945	0.0400	1.000	0	94.5	80	120				
Naphthalene	1.02	0.100	1.000	0	102	80	120				
1,2,3-Trichlorobenzene	0.999	0.0600	1.000	0	99.9	80	120				
Surr: Dibromofluoromethane	1.25		1.250		100	79.5	124				
Surr: Toluene-d8	1.27		1.250		101	77.5	124				
Surr: 1-Bromo-4-fluorobenzene	1.20		1.250		96.1	60.5	139				

Sample ID: MB-41166	SampType: MBLK	Units: mg/Kg	Prep Date: 8/10/2023	RunNo: 85899							
Client ID: MBLKS	Batch ID: 41166		Analysis Date: 8/12/2023	SeqNo: 1792693							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane (CFC-12)	ND	0.0150									
Chloromethane	ND	0.0500									
Vinyl chloride	ND	0.0250									
Bromomethane	ND	0.0250									
Trichlorofluoromethane (CFC-11)	ND	0.0200									
Chloroethane	ND	0.0750									
1,1-Dichloroethene	ND	0.100									
Acetone	ND	0.250									
Methylene chloride	ND	0.0350									
trans-1,2-Dichloroethene	ND	0.0100									
Methyl tert-butyl ether (MTBE)	ND	0.0200									
1,1-Dichloroethane	ND	0.0250									
cis-1,2-Dichloroethene	ND	0.0150									
(MEK) 2-Butanone	ND	0.300									
Chloroform	ND	0.0175									
1,1,1-Trichloroethane (TCA)	ND	0.0200									
1,1-Dichloropropene	ND	0.0200									
Carbon tetrachloride	ND	0.0250									

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QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: MB-41166	SampType: MBLK	Units: mg/Kg	Prep Date: 8/10/2023	RunNo: 85899							
Client ID: MBLKS	Batch ID: 41166		Analysis Date: 8/12/2023	SeqNo: 1792693							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,2-Dichloroethane (EDC)	ND	0.0200									
Benzene	ND	0.0175									
Trichloroethene (TCE)	ND	0.0150									
1,2-Dichloropropane	ND	0.0250									
Bromodichloromethane	ND	0.0250									
Dibromomethane	ND	0.0125									
cis-1,3-Dichloropropene	ND	0.0150									
Toluene	ND	0.0300									
Trans-1,3-Dichloropropylene	ND	0.0200									
Methyl Isobutyl Ketone (MIBK)	ND	0.0600									
1,1,2-Trichloroethane	ND	0.0125									
1,3-Dichloropropane	ND	0.0100									
Tetrachloroethene (PCE)	ND	0.0150									
Dibromochloromethane	ND	0.0150									
1,2-Dibromoethane (EDB)	ND	0.0100									
2-Hexanone (MBK)	ND	0.0625									
Chlorobenzene	ND	0.0150									
1,1,1,2-Tetrachloroethane	ND	0.0250									
Ethylbenzene	ND	0.0250									
m,p-Xylene	ND	0.0500									
o-Xylene	ND	0.0250									
Styrene	ND	0.0100									
Isopropylbenzene	ND	0.0150									
Bromoform	ND	0.0150									
1,1,2,2-Tetrachloroethane	ND	0.200									
n-Propylbenzene	ND	0.0150									
Bromobenzene	ND	0.0125									
1,3,5-Trimethylbenzene	ND	0.0150									
2-Chlorotoluene	ND	0.0165									
4-Chlorotoluene	ND	0.0165									
tert-Butylbenzene	ND	0.0150									
1,2,3-Trichloropropane	ND	0.0300									

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QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: MB-41166	SampType: MBLK	Units: mg/Kg	Prep Date: 8/10/2023	RunNo: 85899							
Client ID: MBLKS	Batch ID: 41166		Analysis Date: 8/12/2023	SeqNo: 1792693							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,2,4-Trichlorobenzene	ND	0.0600									
sec-Butylbenzene	ND	0.150									
4-Isopropyltoluene	ND	0.200									
1,3-Dichlorobenzene	ND	0.0200									
1,4-Dichlorobenzene	ND	0.0150									
n-Butylbenzene	ND	0.0200									
1,2-Dichlorobenzene	ND	0.0200									
1,2-Dibromo-3-chloropropane	ND	0.0300									
1,2,4-Trimethylbenzene	ND	0.0150									
Hexachloro-1,3-butadiene	ND	0.0400									
Naphthalene	ND	0.100									
1,2,3-Trichlorobenzene	ND	0.0600									
Surr: Dibromofluoromethane	1.21		1.250		97.1	79.5	124				
Surr: Toluene-d8	1.24		1.250		98.8	77.5	124				
Surr: 1-Bromo-4-fluorobenzene	1.23		1.250		98.1	60.5	139				

Sample ID: CCV-41166B	SampType: CCV	Units: µg/L	Prep Date: 8/12/2023	RunNo: 85899							
Client ID: CCV	Batch ID: 41166		Analysis Date: 8/12/2023	SeqNo: 1792701							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dichlorodifluoromethane (CFC-12)	20.6	0.0150	20.00	0	103	80	120				
Chloromethane	17.5	0.0500	20.00	0	87.5	80	120				
Vinyl chloride	17.9	0.0250	20.00	0	89.7	80	120				
Bromomethane	21.9	0.0250	20.00	0	109	80	120				
Trichlorofluoromethane (CFC-11)	21.0	0.0200	20.00	0	105	80	120				
Chloroethane	20.2	0.0750	20.00	0	101	80	120				
1,1-Dichloroethene	17.7	0.100	20.00	0	88.4	80	120				
Acetone	50.0	0.250	50.00	0	100	80	120				
Methylene chloride	19.5	0.0350	20.00	0	97.3	80	120				
trans-1,2-Dichloroethene	18.7	0.0100	20.00	0	93.4	80	120				
Methyl tert-butyl ether (MTBE)	17.8	0.0200	20.00	0	89.2	80	120				

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QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethane	18.9	0.0250	20.00	0	94.4	80	120				
cis-1,2-Dichloroethene	19.0	0.0150	20.00	0	94.9	80	120				
(MEK) 2-Butanone	46.2	0.300	50.00	0	92.4	80	120				
Chloroform	20.0	0.0175	20.00	0	100	80	120				
1,1,1-Trichloroethane (TCA)	18.9	0.0200	20.00	0	94.3	80	120				
1,1-Dichloropropene	18.5	0.0200	20.00	0	92.6	80	120				
Carbon tetrachloride	19.4	0.0250	20.00	0	97.1	80	120				
1,2-Dichloroethane (EDC)	19.8	0.0200	20.00	0	98.9	80	120				
Benzene	19.1	0.0175	20.00	0	95.6	80	120				
Trichloroethene (TCE)	21.2	0.0150	20.00	0	106	80	120				
1,2-Dichloropropane	19.5	0.0250	20.00	0	97.3	80	120				
Bromodichloromethane	19.2	0.0250	20.00	0	95.8	80	120				
Dibromomethane	19.4	0.0125	20.00	0	97.1	80	120				
cis-1,3-Dichloropropene	17.1	0.0150	20.00	0	85.7	80	120				
Toluene	19.9	0.0300	20.00	0	99.3	80	120				
Trans-1,3-Dichloropropylene	17.1	0.0200	20.00	0	85.7	80	120				
Methyl Isobutyl Ketone (MIBK)	47.5	0.0600	50.00	0	95.1	80	120				
1,1,2-Trichloroethane	19.2	0.0125	20.00	0	95.8	80	120				
1,3-Dichloropropane	19.2	0.0100	20.00	0	96.2	80	120				
Tetrachloroethene (PCE)	18.9	0.0150	20.00	0	94.4	80	120				
Dibromochloromethane	18.6	0.0150	20.00	0	92.8	80	120				
1,2-Dibromoethane (EDB)	20.0	0.0100	20.00	0	100	80	120				
2-Hexanone (MBK)	44.3	0.0625	50.00	0	88.7	80	120				
Chlorobenzene	19.0	0.0150	20.00	0	95.0	80	120				
1,1,1,2-Tetrachloroethane	19.9	0.0250	20.00	0	99.7	80	120				
Ethylbenzene	18.7	0.0250	20.00	0	93.6	80	120				
m,p-Xylene	39.8	0.0500	40.00	0	99.4	80	120				
o-Xylene	19.6	0.0250	20.00	0	98.2	80	120				
Styrene	19.1	0.0100	20.00	0	95.6	80	120				
Isopropylbenzene	19.9	0.0150	20.00	0	99.5	80	120				
Bromoform	18.4	0.0150	20.00	0	92.0	80	120				
1,1,2,2-Tetrachloroethane	15.1	0.200	20.00	0	75.5	80	120				S

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QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: CCV-41166B		SampType: CCV		Units: µg/L		Prep Date: 8/12/2023		RunNo: 85899			
Client ID: CCV		Batch ID: 41166				Analysis Date: 8/12/2023		SeqNo: 1792701			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
n-Propylbenzene	19.6	0.0150	20.00	0	97.9	80	120				
Bromobenzene	18.8	0.0125	20.00	0	93.8	80	120				
1,3,5-Trimethylbenzene	18.3	0.0150	20.00	0	91.6	80	120				
2-Chlorotoluene	18.3	0.0165	20.00	0	91.4	80	120				
4-Chlorotoluene	19.7	0.0165	20.00	0	98.3	80	120				
tert-Butylbenzene	18.4	0.0150	20.00	0	91.8	80	120				
1,2,3-Trichloropropane	17.3	0.0300	20.00	0	86.5	80	120				
1,2,4-Trichlorobenzene	19.3	0.0600	20.00	0	96.5	80	120				
sec-Butylbenzene	19.4	0.150	20.00	0	97.2	80	120				
4-Isopropyltoluene	19.1	0.200	20.00	0	95.4	80	120				
1,3-Dichlorobenzene	18.6	0.0200	20.00	0	93.1	80	120				
1,4-Dichlorobenzene	20.4	0.0150	20.00	0	102	80	120				
n-Butylbenzene	19.1	0.0200	20.00	0	95.7	80	120				
1,2-Dichlorobenzene	19.0	0.0200	20.00	0	94.9	80	120				
1,2-Dibromo-3-chloropropane	17.4	0.0300	20.00	0	86.8	80	120				
1,2,4-Trimethylbenzene	19.7	0.0150	20.00	0	98.5	80	120				
Hexachloro-1,3-butadiene	17.9	0.0400	20.00	0	89.6	80	120				
Naphthalene	18.5	0.100	20.00	0	92.5	80	120				
1,2,3-Trichlorobenzene	18.7	0.0600	20.00	0	93.6	80	120				
Surr: Dibromofluoromethane	25.3		25.00		101	80	120				
Surr: Toluene-d8	25.5		25.00		102	80	120				
Surr: 1-Bromo-4-fluorobenzene	24.0		25.00		96.1	80	120				

NOTES:

S - Outlying spike recovery observed (low bias). Samples will be qualified with a Q.

Sample ID: CCV-41178B		SampType: CCV		Units: µg/L		Prep Date: 8/12/2023		RunNo: 85876			
Client ID: CCV		Batch ID: 41178				Analysis Date: 8/12/2023		SeqNo: 1792953			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane (CFC-12)	20.6	0.0150	20.00	0	103	80	120				
Chloromethane	17.5	0.0500	20.00	0	87.5	80	120				
Vinyl chloride	17.9	0.0250	20.00	0	89.7	80	120				

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QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: CCV-41178B	SampType: CCV	Units: µg/L	Prep Date: 8/12/2023	RunNo: 85876							
Client ID: CCV	Batch ID: 41178		Analysis Date: 8/12/2023	SeqNo: 1792953							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Bromomethane	21.9	0.0250	20.00	0	109	80	120				
Trichlorofluoromethane (CFC-11)	21.0	0.0200	20.00	0	105	80	120				
Chloroethane	20.2	0.0750	20.00	0	101	80	120				
1,1-Dichloroethene	17.7	0.100	20.00	0	88.4	80	120				
Acetone	50.0	0.250	50.00	0	100	80	120				
Methylene chloride	19.5	0.0350	20.00	0	97.3	80	120				
trans-1,2-Dichloroethene	18.7	0.0100	20.00	0	93.4	80	120				
Methyl tert-butyl ether (MTBE)	17.8	0.0200	20.00	0	89.2	80	120				
1,1-Dichloroethane	18.9	0.0250	20.00	0	94.4	80	120				
cis-1,2-Dichloroethene	19.0	0.0150	20.00	0	94.9	80	120				
(MEK) 2-Butanone	46.2	0.300	50.00	0	92.4	80	120				
Chloroform	20.0	0.0175	20.00	0	100	80	120				
1,1,1-Trichloroethane (TCA)	18.9	0.0200	20.00	0	94.3	80	120				
1,1-Dichloropropene	18.5	0.0200	20.00	0	92.6	80	120				
Carbon tetrachloride	19.4	0.0250	20.00	0	97.1	80	120				
1,2-Dichloroethane (EDC)	19.8	0.0200	20.00	0	98.9	80	120				
Benzene	19.1	0.0175	20.00	0	95.6	80	120				
Trichloroethene (TCE)	21.2	0.0150	20.00	0	106	80	120				
1,2-Dichloropropane	19.5	0.0250	20.00	0	97.3	80	120				
Bromodichloromethane	19.2	0.0250	20.00	0	95.8	80	120				
Dibromomethane	19.4	0.0125	20.00	0	97.1	80	120				
cis-1,3-Dichloropropene	17.1	0.0150	20.00	0	85.7	80	120				
Toluene	19.9	0.0300	20.00	0	99.3	80	120				
Trans-1,3-Dichloropropylene	17.1	0.0200	20.00	0	85.7	80	120				
Methyl Isobutyl Ketone (MIBK)	47.5	0.0600	50.00	0	95.1	80	120				
1,1,2-Trichloroethane	19.2	0.0125	20.00	0	95.8	80	120				
1,3-Dichloropropane	19.2	0.0100	20.00	0	96.2	80	120				
Tetrachloroethene (PCE)	18.9	0.0150	20.00	0	94.4	80	120				
Dibromochloromethane	18.6	0.0150	20.00	0	92.8	80	120				
1,2-Dibromoethane (EDB)	20.0	0.0100	20.00	0	100	80	120				
2-Hexanone (MBK)	44.3	0.0625	50.00	0	88.7	80	120				
Chlorobenzene	19.0	0.0150	20.00	0	95.0	80	120				

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QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: CCV-41178B	SampType: CCV	Units: µg/L	Prep Date: 8/12/2023	RunNo: 85876							
Client ID: CCV	Batch ID: 41178		Analysis Date: 8/12/2023	SeqNo: 1792953							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	19.9	0.0250	20.00	0	99.7	80	120				
Ethylbenzene	18.7	0.0250	20.00	0	93.6	80	120				
m,p-Xylene	39.8	0.0500	40.00	0	99.4	80	120				
o-Xylene	19.6	0.0250	20.00	0	98.2	80	120				
Styrene	19.1	0.0100	20.00	0	95.6	80	120				
Isopropylbenzene	19.9	0.0150	20.00	0	99.5	80	120				
Bromoform	18.4	0.0150	20.00	0	92.0	80	120				
1,1,2,2-Tetrachloroethane	15.1	0.200	20.00	0	75.5	80	120				S
n-Propylbenzene	19.6	0.0150	20.00	0	97.9	80	120				
Bromobenzene	18.8	0.0125	20.00	0	93.8	80	120				
1,3,5-Trimethylbenzene	18.3	0.0150	20.00	0	91.6	80	120				
2-Chlorotoluene	18.3	0.0165	20.00	0	91.4	80	120				
4-Chlorotoluene	19.7	0.0165	20.00	0	98.3	80	120				
tert-Butylbenzene	18.4	0.0150	20.00	0	91.8	80	120				
1,2,3-Trichloropropane	17.3	0.0300	20.00	0	86.5	80	120				
1,2,4-Trichlorobenzene	19.3	0.0600	20.00	0	96.5	80	120				
sec-Butylbenzene	19.4	0.150	20.00	0	97.2	80	120				
4-Isopropyltoluene	19.1	0.200	20.00	0	95.4	80	120				
1,3-Dichlorobenzene	18.6	0.0200	20.00	0	93.1	80	120				
1,4-Dichlorobenzene	20.4	0.0150	20.00	0	102	80	120				
n-Butylbenzene	19.1	0.0200	20.00	0	95.7	80	120				
1,2-Dichlorobenzene	19.0	0.0200	20.00	0	94.9	80	120				
1,2-Dibromo-3-chloropropane	17.4	0.0300	20.00	0	86.8	80	120				
1,2,4-Trimethylbenzene	19.7	0.0150	20.00	0	98.5	80	120				
Hexachloro-1,3-butadiene	17.9	0.0400	20.00	0	89.6	80	120				
Naphthalene	18.5	0.100	20.00	0	92.5	80	120				
1,2,3-Trichlorobenzene	18.7	0.0600	20.00	0	93.6	80	120				
Surr: Dibromofluoromethane	25.3		25.00		101	80	120				
Surr: Toluene-d8	25.5		25.00		102	80	120				
Surr: 1-Bromo-4-fluorobenzene	24.0		25.00		96.1	80	120				

Work Order: 2308151
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: 2308044-014BDUP	SampType: DUP	Units: mg/Kg-dry	Prep Date: 8/10/2023	RunNo: 85899							
Client ID: BATCH	Batch ID: 41166		Analysis Date: 8/12/2023	SeqNo: 1792703							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dichlorodifluoromethane (CFC-12)	ND	0.0167						0		30	
Chloromethane	ND	0.0557						0		30	
Vinyl chloride	ND	0.0279						0		30	
Bromomethane	ND	0.0279						0		30	
Trichlorofluoromethane (CFC-11)	ND	0.0223						0		30	
Chloroethane	ND	0.0836						0		30	
1,1-Dichloroethene	ND	0.111						0		30	
Acetone	ND	0.279						0		30	
Methylene chloride	ND	0.0390						0		30	
trans-1,2-Dichloroethene	ND	0.0111						0		30	
Methyl tert-butyl ether (MTBE)	ND	0.0223						0		30	
1,1-Dichloroethane	ND	0.0279						0		30	
cis-1,2-Dichloroethene	ND	0.0167						0		30	
(MEK) 2-Butanone	ND	0.334						0		30	
Chloroform	ND	0.0195						0		30	
1,1,1-Trichloroethane (TCA)	ND	0.0223						0		30	
1,1-Dichloropropene	ND	0.0223						0		30	
Carbon tetrachloride	ND	0.0279						0		30	
1,2-Dichloroethane (EDC)	ND	0.0223						0		30	
Benzene	ND	0.0195						0		30	
Trichloroethene (TCE)	ND	0.0167						0		30	
1,2-Dichloropropane	ND	0.0279						0		30	
Bromodichloromethane	ND	0.0279						0		30	
Dibromomethane	ND	0.0139						0		30	
cis-1,3-Dichloropropene	ND	0.0167						0		30	
Toluene	ND	0.0334						0		30	
Trans-1,3-Dichloropropylene	ND	0.0223						0		30	
Methyl Isobutyl Ketone (MIBK)	ND	0.0669						0		30	
1,1,2-Trichloroethane	ND	0.0139						0		30	
1,3-Dichloropropane	ND	0.0111						0		30	
Tetrachloroethene (PCE)	ND	0.0167						0		30	
Dibromochloromethane	ND	0.0167						0		30	

Work Order: 2308151
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromoethane (EDB)	ND	0.0111						0		30	
2-Hexanone (MBK)	ND	0.0697						0		30	
Chlorobenzene	ND	0.0167						0		30	
1,1,1,2-Tetrachloroethane	ND	0.0279						0		30	
Ethylbenzene	ND	0.0279						0		30	
m,p-Xylene	ND	0.0557						0		30	
o-Xylene	ND	0.0279						0		30	
Styrene	ND	0.0111						0		30	
Isopropylbenzene	ND	0.0167						0		30	
Bromoform	ND	0.0167						0		30	
1,1,2,2-Tetrachloroethane	ND	0.223						0		30	Q
n-Propylbenzene	ND	0.0167						0		30	
Bromobenzene	ND	0.0139						0		30	
1,3,5-Trimethylbenzene	ND	0.0167						0		30	
2-Chlorotoluene	ND	0.0184						0		30	
4-Chlorotoluene	ND	0.0184						0		30	
tert-Butylbenzene	ND	0.0167						0		30	
1,2,3-Trichloropropane	ND	0.0334						0		30	
1,2,4-Trichlorobenzene	ND	0.0669						0		30	
sec-Butylbenzene	ND	0.167						0		30	
4-Isopropyltoluene	ND	0.223						0		30	
1,3-Dichlorobenzene	ND	0.0223						0		30	
1,4-Dichlorobenzene	ND	0.0167						0		30	
n-Butylbenzene	ND	0.0223						0		30	
1,2-Dichlorobenzene	ND	0.0223						0		30	
1,2-Dibromo-3-chloropropane	ND	0.0334						0		30	
1,2,4-Trimethylbenzene	ND	0.0167						0		30	
Hexachloro-1,3-butadiene	ND	0.0446						0		30	
Naphthalene	ND	0.111						0		30	
1,2,3-Trichlorobenzene	ND	0.0669						0		30	
Surr: Dibromofluoromethane	1.40		1.393		100	79.5	124		0		
Surr: Toluene-d8	1.37		1.393		98.3	77.5	124		0		

Work Order: 2308151
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: 2308044-014BDUP	SampType: DUP	Units: mg/Kg-dry	Prep Date: 8/10/2023	RunNo: 85899							
Client ID: BATCH	Batch ID: 41166	Analysis Date: 8/12/2023	SeqNo: 1792703								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 1-Bromo-4-fluorobenzene	1.36		1.393		97.8	60.5	139		0		

NOTES:

Q - Associated calibration verification is below acceptance criteria. Result may be low-biased.

Sample ID: 2308044-023BDUP	SampType: DUP	Units: mg/Kg-dry	Prep Date: 8/10/2023	RunNo: 85899							
Client ID: BATCH	Batch ID: 41166	Analysis Date: 8/12/2023	SeqNo: 1792707								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane (CFC-12)	ND	0.0198						0		30	
Chloromethane	ND	0.0660						0		30	
Vinyl chloride	ND	0.0330						0		30	
Bromomethane	ND	0.0330						0		30	
Trichlorofluoromethane (CFC-11)	ND	0.0264						0		30	
Chloroethane	ND	0.0990						0		30	
1,1-Dichloroethene	ND	0.132						0		30	
Acetone	ND	0.330						0		30	
Methylene chloride	ND	0.0462						0		30	
trans-1,2-Dichloroethene	ND	0.0132						0		30	
Methyl tert-butyl ether (MTBE)	ND	0.0264						0		30	
1,1-Dichloroethane	ND	0.0330						0		30	
cis-1,2-Dichloroethene	ND	0.0198						0		30	
(MEK) 2-Butanone	ND	0.396						0		30	
Chloroform	ND	0.0231						0		30	
1,1,1-Trichloroethane (TCA)	ND	0.0264						0		30	
1,1-Dichloropropene	ND	0.0264						0		30	
Carbon tetrachloride	ND	0.0330						0		30	
1,2-Dichloroethane (EDC)	ND	0.0264						0		30	
Benzene	ND	0.0231						0		30	
Trichloroethene (TCE)	ND	0.0198						0		30	
1,2-Dichloropropane	ND	0.0330						0		30	
Bromodichloromethane	ND	0.0330						0		30	
Dibromomethane	ND	0.0165						0		30	

Work Order: 2308151
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: 2308044-023BDUP	SampType: DUP	Units: mg/Kg-dry	Prep Date: 8/10/2023	RunNo: 85899							
Client ID: BATCH	Batch ID: 41166		Analysis Date: 8/12/2023	SeqNo: 1792707							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

cis-1,3-Dichloropropene	ND	0.0198						0		30	
Toluene	ND	0.0396						0		30	
Trans-1,3-Dichloropropylene	ND	0.0264						0		30	
Methyl Isobutyl Ketone (MIBK)	ND	0.0792						0		30	
1,1,2-Trichloroethane	ND	0.0165						0		30	
1,3-Dichloropropane	ND	0.0132						0		30	
Tetrachloroethene (PCE)	ND	0.0198						0		30	
Dibromochloromethane	ND	0.0198						0		30	
1,2-Dibromoethane (EDB)	ND	0.0132						0		30	
2-Hexanone (MBK)	ND	0.0825						0		30	
Chlorobenzene	ND	0.0198						0		30	
1,1,1,2-Tetrachloroethane	ND	0.0330						0		30	
Ethylbenzene	ND	0.0330						0		30	
m,p-Xylene	ND	0.0660						0		30	
o-Xylene	ND	0.0330						0		30	
Styrene	ND	0.0132						0		30	
Isopropylbenzene	ND	0.0198						0		30	
Bromoform	ND	0.0198						0		30	
1,1,2,2-Tetrachloroethane	ND	0.264						0		30	Q
n-Propylbenzene	ND	0.0198						0		30	
Bromobenzene	ND	0.0165						0		30	
1,3,5-Trimethylbenzene	ND	0.0198						0		30	
2-Chlorotoluene	ND	0.0218						0		30	
4-Chlorotoluene	ND	0.0218						0		30	
tert-Butylbenzene	ND	0.0198						0		30	
1,2,3-Trichloropropane	ND	0.0396						0		30	
1,2,4-Trichlorobenzene	ND	0.0792						0		30	
sec-Butylbenzene	ND	0.198						0		30	
4-Isopropyltoluene	ND	0.264						0		30	
1,3-Dichlorobenzene	ND	0.0264						0		30	
1,4-Dichlorobenzene	ND	0.0198						0		30	
n-Butylbenzene	ND	0.0264						0		30	

Work Order: 2308151
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: 2308044-023BDUP	SampType: DUP	Units: mg/Kg-dry	Prep Date: 8/10/2023	RunNo: 85899							
Client ID: BATCH	Batch ID: 41166	Analysis Date: 8/12/2023	SeqNo: 1792707								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichlorobenzene	ND	0.0264						0		30	
1,2-Dibromo-3-chloropropane	ND	0.0396						0		30	
1,2,4-Trimethylbenzene	ND	0.0198						0		30	
Hexachloro-1,3-butadiene	ND	0.0528						0		30	
Naphthalene	ND	0.132						0		30	
1,2,3-Trichlorobenzene	ND	0.0792						0		30	
Surr: Dibromofluoromethane	1.64		1.651		99.4	79.5	124		0		
Surr: Toluene-d8	1.63		1.651		98.9	77.5	124		0		
Surr: 1-Bromo-4-fluorobenzene	1.62		1.651		98.0	60.5	139		0		

NOTES:

Q - Associated calibration verification is below acceptance criteria. Result may be low-biased.

Sample ID: 2308044-017BMS	SampType: MS	Units: mg/Kg-dry	Prep Date: 8/10/2023	RunNo: 85899							
Client ID: BATCH	Batch ID: 41166	Analysis Date: 8/12/2023	SeqNo: 1792718								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane (CFC-12)	1.35	0.0163	1.087	0	124	5	160				
Chloromethane	1.23	0.0544	1.087	0	113	17.7	160				
Vinyl chloride	1.07	0.0272	1.087	0	98.0	21.7	160				
Bromomethane	1.28	0.0272	1.087	0	118	20	160				
Trichlorofluoromethane (CFC-11)	1.35	0.0217	1.087	0	125	5	160				
Chloroethane	1.58	0.0815	1.087	0	146	5	160				
1,1-Dichloroethene	1.17	0.109	1.087	0	107	21.7	160				
Acetone	2.07	0.272	2.718	0	76.1	20.7	160				
Methylene chloride	1.17	0.0381	1.087	0.03080	105	46.7	154				
trans-1,2-Dichloroethene	1.17	0.0109	1.087	0	107	41.9	160				
Methyl tert-butyl ether (MTBE)	0.968	0.0217	1.087	0	89.1	70.3	138				
1,1-Dichloroethane	1.16	0.0272	1.087	0	106	45.4	160				
cis-1,2-Dichloroethene	1.06	0.0163	1.087	0	97.1	52.6	151				
(MEK) 2-Butanone	2.01	0.326	2.718	0	73.8	44.3	160				
Chloroform	1.13	0.0190	1.087	0	104	52.7	148				
1,1,1-Trichloroethane (TCA)	1.11	0.0217	1.087	0	102	39.7	160				

Work Order: 2308151
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: 2308044-017BMS	SampType: MS	Units: mg/Kg-dry	Prep Date: 8/10/2023	RunNo: 85899							
Client ID: BATCH	Batch ID: 41166		Analysis Date: 8/12/2023	SeqNo: 1792718							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,1-Dichloropropene	1.08	0.0217	1.087	0	99.8	40.1	160				
Carbon tetrachloride	1.17	0.0272	1.087	0	107	34.2	160				
1,2-Dichloroethane (EDC)	1.10	0.0217	1.087	0	101	64.6	137				
Benzene	1.05	0.0190	1.087	0	96.3	52.3	147				
Trichloroethene (TCE)	1.07	0.0163	1.087	0	98.8	43.1	160				
1,2-Dichloropropane	1.06	0.0272	1.087	0	97.7	59.5	142				
Bromodichloromethane	1.05	0.0272	1.087	0	96.5	61.4	146				
Dibromomethane	1.07	0.0136	1.087	0	98.2	72.4	140				
cis-1,3-Dichloropropene	0.892	0.0163	1.087	0	82.1	59.6	136				
Toluene	1.12	0.0326	1.087	0	103	50.1	147				
Trans-1,3-Dichloropropylene	0.892	0.0217	1.087	0	82.1	59.3	139				
Methyl Isobutyl Ketone (MIBK)	2.76	0.0652	2.718	0	102	48	160				
1,1,2-Trichloroethane	1.06	0.0136	1.087	0	97.9	70.4	140				
1,3-Dichloropropane	1.04	0.0109	1.087	0	95.5	69.2	140				
Tetrachloroethene (PCE)	1.14	0.0163	1.087	0	105	44.6	160				
Dibromochloromethane	1.02	0.0163	1.087	0	94.0	64.7	141				
1,2-Dibromoethane (EDB)	1.12	0.0109	1.087	0	103	70.4	143				
2-Hexanone (MBK)	2.24	0.0679	2.718	0	82.3	33	160				
Chlorobenzene	1.07	0.0163	1.087	0	98.6	59.6	134				
1,1,1,2-Tetrachloroethane	1.09	0.0272	1.087	0	101	58	141				
Ethylbenzene	1.07	0.0272	1.087	0	98.2	51.7	143				
m,p-Xylene	2.26	0.0544	2.174	0	104	54.5	144				
o-Xylene	1.09	0.0272	1.087	0	99.8	57.1	141				
Styrene	1.07	0.0109	1.087	0	98.0	63.4	135				
Isopropylbenzene	1.15	0.0163	1.087	0	106	47.8	152				
Bromoform	1.06	0.0163	1.087	0	97.8	70.1	134				
1,1,2,2-Tetrachloroethane	1.05	0.217	1.087	0	96.7	43.2	157				
n-Propylbenzene	1.14	0.0163	1.087	0	105	47.5	152				
Bromobenzene	1.06	0.0136	1.087	0	97.9	66.9	133				
1,3,5-Trimethylbenzene	1.05	0.0163	1.087	0	96.7	51.5	146				
2-Chlorotoluene	1.03	0.0179	1.087	0	94.3	54.5	137				
4-Chlorotoluene	1.09	0.0179	1.087	0	101	56.5	138				

Work Order: 2308151
 CLIENT: GeoEngineers
 Project: S Jackson Street

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: 2308044-017BMS	SampType: MS	Units: mg/Kg-dry	Prep Date: 8/10/2023	RunNo: 85899							
Client ID: BATCH	Batch ID: 41166	Analysis Date: 8/12/2023	SeqNo: 1792718								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
tert-Butylbenzene	1.07	0.0163	1.087	0	98.7	41.8	152				
1,2,3-Trichloropropane	0.941	0.0326	1.087	0	86.6	64.3	132				
1,2,4-Trichlorobenzene	1.10	0.0652	1.087	0	102	58.1	135				
sec-Butylbenzene	1.15	0.163	1.087	0	106	44.2	155				
4-Isopropyltoluene	1.12	0.217	1.087	0	103	46	156				
1,3-Dichlorobenzene	1.06	0.0217	1.087	0	97.1	62.6	132				
1,4-Dichlorobenzene	1.12	0.0163	1.087	0	103	62.7	125				
n-Butylbenzene	1.11	0.0217	1.087	0	102	43.4	155				
1,2-Dichlorobenzene	1.07	0.0217	1.087	0	98.6	67.9	128				
1,2-Dibromo-3-chloropropane	0.990	0.0326	1.087	0	91.1	61.9	135				
1,2,4-Trimethylbenzene	1.12	0.0163	1.087	0	103	55.5	144				
Hexachloro-1,3-butadiene	1.03	0.0435	1.087	0	94.7	38.7	158				
Naphthalene	1.14	0.109	1.087	0	105	56.6	148				
1,2,3-Trichlorobenzene	1.11	0.0652	1.087	0	102	58.1	142				
Surr: Dibromofluoromethane	1.37		1.359		101	79.5	124				
Surr: Toluene-d8	1.37		1.359		100	77.5	124				
Surr: 1-Bromo-4-fluorobenzene	1.30		1.359		95.8	60.5	139				

Sample ID: CCV-41166C	SampType: CCV	Units: µg/L	Prep Date: 8/14/2023	RunNo: 85899							
Client ID: CCV	Batch ID: 41166	Analysis Date: 8/14/2023	SeqNo: 1792722								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
n-Propylbenzene	21.5	0.0150	20.00	0	107	80	120				
Surr: Dibromofluoromethane	25.3		25.00		101	80	120				
Surr: Toluene-d8	25.2		25.00		101	80	120				
Surr: 1-Bromo-4-fluorobenzene	23.9		25.00		95.7	80	120				

Work Order: 2308151
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: CCV-41178C	SampType: CCV	Units: µg/L	Prep Date: 8/14/2023	RunNo: 85876							
Client ID: CCV	Batch ID: 41178		Analysis Date: 8/14/2023	SeqNo: 1792970							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

n-Propylbenzene	21.5	0.0150	20.00	0	107	80	120				
n-Butylbenzene	22.0	0.0200	20.00	0	110	80	120				
Surr: Dibromofluoromethane	25.3		25.00		101	80	120				
Surr: Toluene-d8	25.2		25.00		101	80	120				
Surr: 1-Bromo-4-fluorobenzene	23.9		25.00		95.7	80	120				

Client Name: GEI	Work Order Number: 2308151
Logged by: Morgan Wilson	Date Received: 8/10/2023 11:11:00 AM

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
2. How was the sample delivered? Courier

Log In

3. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes No Not Present
4. Was an attempt made to cool the samples? Yes No NA
5. Were all items received at a temperature of >2°C to 6°C * Yes No NA
6. Sample(s) in proper container(s)? Yes No
7. Sufficient sample volume for indicated test(s)? Yes No
8. Are samples properly preserved? Yes No
9. Was preservative added to bottles? Yes No NA
10. Is there headspace in the VOA vials? Yes No NA
11. Did all samples containers arrive in good condition(unbroken)? Yes No
12. Does paperwork match bottle labels? Yes No
13. Are matrices correctly identified on Chain of Custody? Yes No
14. Is it clear what analyses were requested? Yes No
15. Were all holding times able to be met? Yes No

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes No NA

Person Notified: <input style="width: 90%;" type="text"/>	Date: <input style="width: 90%;" type="text"/>
By Whom: <input style="width: 90%;" type="text"/>	Via: <input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding: <input style="width: 90%;" type="text"/>	
Client Instructions: <input style="width: 90%;" type="text"/>	

17. Additional remarks:

Item Information

Item #	Temp °C
Sample	3.2

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C



Fremont
Analytical
An Alliance Technical Group Company

3600 Fremont Ave. N.
Seattle, WA 98103
Tel: 206-352-3790

Chain of Custody Record & Laboratory Services Agreement

Date: 8/8/23 Page: 1 of 2

Project Name: South Jackson Street

Project No.: 24504-001-01

Collected by: Paul Robinette

Location: Seattle, WA

Report To (PM): Robert Trahan

Laboratory Project No (Internal):
Special Remarks:
Level 2B QA

2308151

Disposal: Samples will be disposed in 30 days unless otherwise requested.
 Retain volume (specify above) Return to client

Client: GeoEngineers
Address: 2101 4th Ave Ste 950
City, State, Zip: Seattle, WA 98121
Telephone: 425.861.2674
Emails: rtrahan@geoengineers.com, probinette@geoengineers.com

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	# of Cont.	VOCs (EPA 8260 / 624)	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HX)	Diesel/Heavy Oil range Organics (DW)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T) Dissolved (D)	Anions (C)***	EDB (8011)	Lead - STD TAT	Comments
1 R1-NSW-98	8/8/23	0900	S	1													Lead - STD TAT	
2 UST2-NSW-93	8/8/23	1400	S	3	X	X	X	X	X	X	X	X	X	X	X	X	2-day TAT	
3 UST2-WSW-93	8/8/23	1355	S	3	X	X	X	X	X	X	X	X	X	X	X	X	Hold	
4 UST2-SSW-93	8/8/23	1405	S	3	X	X	X	X	X	X	X	X	X	X	X	X	Hold	
5 UST2-B-89	8/8/23	1350	S	3	X	X	X	X	X	X	X	X	X	X	X	X		
6 UST3-NSW-93	8/8/23	1515	S	3	X	X	X	X	X	X	X	X	X	X	X	X		
7 UST3-SSW-93	8/8/23	1525	S	3	X	X	X	X	X	X	X	X	X	X	X	X	Hold	
8 UST3-WSW-93	8/8/23	1530	S	3	X	X	X	X	X	X	X	X	X	X	X	X		
9 UST3-B-90	8/8/23	1520	S	3	X	X	X	X	X	X	X	X	X	X	X	X		
10																		

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water
 **Metals (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Tl V Zn
 ***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate-Nitrite
 I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Turn-around Time:
 Standard Next Day
 3 Day Same Day
 2 Day _____ (specify)

Reinquished (Signature) _____ Print Name _____ Date/Time _____
 Received (Signature) _____ Print Name _____ Date/Time _____



Fremont Analytical
An Alliance Technical Group Company

3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790

Chain of Custody Record & Laboratory Services Agreement

Date: 8/8/23 Page: 2 of 2

Project Name: South Jackson Street

Project No: 24504-001-01

Collected by: Paul Robinette

Location: Seattle, WA

Report To (pm): Robert Trahan

Laboratory Project No (internal): **2308151**
Special Remarks:
Level 2B QA

Disposal: Samples will be disposed in 30 days unless otherwise requested.
 Retain volume (Specify above) Return to client

Client: GeoEngineers
Address: 2101 4th Ave Ste 950
City, State, Zip: Seattle, WA 98121
Telephone: 425.861.2674

Emails: rtrahan@geoengineers.com, probinette@geoengineers.com

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	# of Cont.	VOCs (EPA 8260 / 624)	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HX)	Diesel/Heavy Oil Range Organics (DX)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T) Dissolved (D)	Anions (IC)***	EDB (8011)	Comments
1 UST4-NSW-93	8/9/23	0745	S	3	X	X	X	X	X	X	X	X	X	X	X	X	2-day TAT
2 UST4-SSW-93	8/9/23	0750	S	3	X	X	X	X	X	X	X	X	X	X	X	X	2-day TAT
3 UST4-B-90	8/9/23	0755	S	3	X	X	X	X	X	X	X	X	X	X	X	X	2-day TAT
4																	
5																	
6																	
7																	
8																	
9																	
10																	

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water
 **Metals (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Tl Ti V Zn
 ***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished (Signature) *[Signature]* Print Name *Paul Robinette* Date/Time *8/10/23 11:11*
 Received (Signature) *[Signature]* Print Name *Simon* Date/Time *08/10/23*
 Relinquished (Signature) *[Signature]* Print Name *Mason P* Date/Time *8/10/23 11:11*



Fremont
Analytical
An Alliance Technical Group Company

3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790

Chain of Custody Record & Laboratory Services Agreement

Date: 8/8/23 Page: 1 of 2

Laboratory Project No (Internal): 2308151

Project Name: South Jackson Street

Special Remarks: Level 2B QA ALL "UST" SAMPLES 2 DAY TAT

Client: GeoEngineers

Project No: 24504-001-01

Address: 2101 4th Ave Ste 950

Collected by: Paul Robinette

update per RT
-mw 8/11/23

City, State, Zip: Seattle, WA 98121

Location: Seattle, WA

Telephone: 425.861.2674

Report To (PM): Robert Trahan

Disposal: Samples will be disposed in 30 days unless otherwise requested.
 Retain volume (specify above) Return to client

Email(s): rtrahan@geoengineers.com, probinette@geoengineers.com

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	# of Cont.	Analytes											Comments							
					VOCs (EPA 8260 / 624)	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (DHR)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 / 625)	PCBs (EPA 8082 / 606)	Metals** (EPA 6020 / 200.8)	Total (T) Dissolved (D)	Anions (CT**)		EDB (8011)						
1 R1-NSW-98	8/8/23	0900	S	1																			Lead - STD TAT
2 UST2-NSW-93	8/8/23	1400	S	3	X	X	X																2-day TAT
3 UST2-WSW-93	8/8/23	1355	S	3	X	X	X																
4 UST2-SSW-93	8/8/23	1405	S	3																			Hold
5 UST2-B-89	8/8/23	1350	S	3		X	X	X															
6 UST3-NSW-93	8/8/23	1515	S	3	X	X	X	X	X	X													
7 UST3-SSW-93	8/8/23	1525	S	3																			Hold
8 UST3-WSW-93	8/8/23	1530	S	3	X	X	X	X	X	X													
9 UST3-B-90	8/8/23	1520	S	3	X	X	X	X	X	X													
10																							

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water

**Metals (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Ti Tl V Zn

***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate-Nitrite

Turn-around Time:
 Standard Next Day
 3 Day Same Day
 2 Day (specify)

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished (Signature) _____ Print Name _____ Date/Time _____
 Relinquished (Signature) _____ Print Name _____ Date/Time _____

Received (Signature) _____ Print Name **DINA C** Date/Time **08/10/23**
 Received (Signature) _____ Print Name **MASON P** Date/Time **8/10/23 11:11**



Fremont Analytical

An Alliance Technical Group Company

3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790

Chain of Custody Record & Laboratory Services Agreement

Date: 8/8/23 Page: 2 of 2

Laboratory Project No (internal): **2308151**

Project Name: South Jackson Street

Special Remarks:
Level 2B QA

Client: GeoEngineers

Project No: 24504-001-01

Address: 2101 4th Ave Ste 950

Collected by: Paul Robinette

City, State, Zip: Seattle, WA 98121

Location: Seattle, WA

Telephone: 425.861.2674

Report To (PM): Robert Trahan

Disposal: Samples will be disposed in 30 days unless otherwise requested.
 Retain volume (specify above) Return to client

Email(s): rtrahan@geoengineers.com, probinette@geoengineers.com

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	# of Cont.	VOCs (EPA 8260 / 624)	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (DY)	SVOCS (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T) Dissolved (D)	Anions (C)***	EDB (8011)	Comments
1 UST4-NSW-93	8/9/23	0745	S	3	X	X	X	X	X	X	X						2-day TAT
2 UST4-SSW-93	8/9/23	0750	S	3	X	X	X	X	X	X	X						2-day TAT
3 UST4-B-90	8/9/23	0755	S	3	X	X	X	X	X	X	X						2-day TAT
4																	
5																	
6																	
7																	
8																	
9																	
10																	

***Matrix:** A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water

****Metals (Circle):** MTCA-5 RCRA-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Ti Tl V Zn

*****Anions (Circle):** Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite

Turn-around Time:
 Standard Next Day
 3 Day Same Day
 2 Day (specify)

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished (Signature) x	Print Name Paul Robinette	Date/Time 8/10/23 08:10	Received (Signature) x	Print Name SINA C	Date/Time 08/10/23
Relinquished (Signature) x	Print Name Robert Trahan	Date/Time 8/10/23 11:11	Received (Signature) x	Print Name MASON P	Date/Time 8/10/23 11:11



Fremont
Analytical
An Alliance Technical Group Company

3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790

Chain of Custody Record & Laboratory Services Agreement

Date: 8/8/23 Page: 1 of 2

Laboratory Project No (Internal): 2308151

Project Name: South Jackson Street

Special Remarks: ALL "UST" SAMPLES 2 DAY TAT

Client: GeoEngineers

Project No: 24504-001-01

Address: 2101 4th Ave Ste 950

Collected by: Paul Robinette

update per RT
-mw 8/11/23
X = run per RT, Std TAT, 8/21/23 -cg

City, State, Zip: Seattle, WA 98121

Location: Seattle, WA

Telephone: 425.861.2674

Report To (PM): Robert Trahan

Disposal: Samples will be disposed in 30 days unless otherwise requested.
 Retain volume (specify above) Return to client

Email(s): rtrahan@geoengineers.com, probinette@geoengineers.com

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	# of Cont.	Analytical Parameters													Comments					
					VOCs (EPA 8260 / 624)	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (DHR)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 / 625)	PCBs (EPA 8087 / 608)	Metals** (EPA 6020 / 200.8)	Total (T) Dissolved (D)	Anions (Cl**)	EDB (8011)							
1 R1-NSW-98	8/8/23	0900	S	1											X								Lead - STD TAT
2 UST2-NSW-93	8/8/23	1400	S	3	X	X	X	X	X	X													2-day TAT
3 UST2-WSW-93	8/8/23	1355	S	3	X	X	X	X	X	X													
4 UST2-SSW-93	8/8/23	1405	S	3																			Hold
5 UST2-B-89	8/8/23	1350	S	3		X	X	X	X	X													
6 UST3-NSW-93	8/8/23	1515	S	3	X	X	X	X	X	X	X	X											
7 UST3-SSW-93	8/8/23	1525	S	3																			Hold
8 UST3-WSW-93	8/8/23	1530	S	3	X	X	X	X	X	X	X	X											
9 UST3-B-90	8/8/23	1520	S	3	X	X	X	X	X	X	X	X											
10																							

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 Standard Next Day
 3 Day Same Day
 2 Day (specify)

Relinquished (Signature) _____ Print Name _____ Date/Time _____
 x _____ Paul Robinette 8/10/23

Received (Signature) _____ Print Name _____ Date/Time _____
 x _____ DINA C 08/10/23
 x _____ MASON P 8/10/23 11:11



3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790

Chain of Custody Record & Laboratory Services Agreement

Date: 8/8/23

Page: 2 of 2

Laboratory Project No (internal): **2308151**

Project Name: South Jackson Street

Special Remarks:
Level 2B QA

Client: GeoEngineers

Project No: 24504-001-01

Address: 2101 4th Ave Ste 950

Collected by: Paul Robinette

City, State, Zip: Seattle, WA 98121

Location: Seattle, WA

Telephone: 425.861.2674

Report To (PM): Robert Trahan

Disposal: Samples will be disposed in 30 days unless otherwise requested.
 Retain volume (specify above) Return to client

Email(s): rtrahan@geoengineers.com, probinette@geoengineers.com

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	# of Cont.	Analytical Parameters													Comments																					
					VOCs (EPA 8260 / 624)	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (DY)	SVOCS (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T) Dissolved (D)	Anions (C)***	EDB (8011)																							
1 UST4-NSW-93	8/9/23	0745	S	3	X	X	X	X	X	X																												2-day TAT	
2 UST4-SSW-93	8/9/23	0750	S	3	X	X	X	X	X	X																												2-day TAT	
3 UST4-B-90	8/9/23	0755	S	3	X	X	X	X	X	X																												2-day TAT	
4																																							
5																																							
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8																																							
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Turn-around Time:

Standard Next Day

3 Day Same Day

2 Day _____ (specify)

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Relinquished (Signature) x <i>[Signature]</i>	Print Name P. Robinette	Date/Time 8/10/23 08:50	Received (Signature) x <i>[Signature]</i>	Print Name SINA C	Date/Time 08/10/23
Relinquished (Signature) x	Print Name	Date/Time	Received (Signature) x <i>[Signature]</i>	Print Name MASON P	Date/Time 8/10/23 11:11



3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

GeoEngineers

Robert Trahan
2101 4th Ave, Suite 950
Seattle, WA 98121

**RE: S Jackson Street
Work Order Number: 2308152**

August 14, 2023

Attention Robert Trahan:

Fremont Analytical, Inc. received 1 sample(s) on 8/10/2023 for the analyses presented in the following report.

Hydrocarbon Identification by NWTPH-HCID

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager

*DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.3 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910*

Original



Date: 08/14/2023

CLIENT: GeoEngineers
Project: S Jackson Street
Work Order: 2308152

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2308152-001	UST4-230808	08/08/2023 7:00 AM	08/10/2023 11:11 AM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: GeoEngineers
Project: S Jackson Street

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Client: GeoEngineers

Collection Date: 8/8/2023 7:00:00 AM

Project: S Jackson Street

Lab ID: 2308152-001

Matrix: Product

Client Sample ID: UST4-230808

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
----------	--------	----	------	-------	----	---------------

Hydrocarbon Identification by NWTPH-HCID

Batch ID: 41170

Analyst: AP

Gasoline	ND	577		mg/Kg	1	8/10/2023 9:38:42 PM
Mineral Spirits	ND	962		mg/Kg	1	8/10/2023 9:38:42 PM
Kerosene	ND	962		mg/Kg	1	8/10/2023 9:38:42 PM
Diesel (Fuel Oil)	ND	962		mg/Kg	1	8/10/2023 9:38:42 PM
Heavy Oil	ND	1,920		mg/Kg	1	8/10/2023 9:38:42 PM
Mineral Oil	ND	1,920		mg/Kg	1	8/10/2023 9:38:42 PM
Surr: 2-Fluorobiphenyl	107	50 - 150		%Rec	1	8/10/2023 9:38:42 PM
Surr: o-Terphenyl	107	50 - 150		%Rec	1	8/10/2023 9:38:42 PM

Work Order: 2308152
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT
Hydrocarbon Identification by NWTPH-HCID

Sample ID: HO ICV		SampType: ICV		Units: mg/Kg		Prep Date: 7/27/2023		RunNo: 85547			
Client ID: ICV		Batch ID: 41170				Analysis Date: 7/27/2023		SeqNo: 1784893			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Heavy Oil	515	100	500.0	0	103	70	130				
Surr: 2-Fluorobiphenyl	10.5		10.00		105	50	150				
Surr: o-Terphenyl	10.8		10.00		108	50	150				

Sample ID: HO ICB		SampType: ICB		Units: mg/Kg		Prep Date: 7/27/2023		RunNo: 85547			
Client ID: ICB		Batch ID: 41170				Analysis Date: 7/27/2023		SeqNo: 1784901			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Heavy Oil	ND	100									
Surr: 2-Fluorobiphenyl	9.91		10.00		99.1	50	150				
Surr: o-Terphenyl	9.84		10.00		98.4	50	150				

Sample ID: DX ICB		SampType: ICB		Units: mg/Kg		Prep Date: 7/27/2023		RunNo: 85547			
Client ID: ICB		Batch ID: 41170				Analysis Date: 7/27/2023		SeqNo: 1784903			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics	ND	50.0									
Surr: 2-Fluorobiphenyl	10.0		10.00		100	50	150				
Surr: o-Terphenyl	10.0		10.00		100	50	150				

Sample ID: DX ICV		SampType: ICV		Units: mg/Kg		Prep Date: 7/27/2023		RunNo: 85547			
Client ID: ICV		Batch ID: 41170				Analysis Date: 7/27/2023		SeqNo: 1784904			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics	479	50.0	500.0	0	95.8	70	130				
Surr: 2-Fluorobiphenyl	10.5		10.00		105	50	150				
Surr: o-Terphenyl	11.0		10.00		110	50	150				

Work Order: 2308152
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT

Hydrocarbon Identification by NWTPH-HCID

Sample ID: OIL-CCV-41170A		SampType: CCV		Units: mg/Kg		Prep Date: 8/10/2023		RunNo: 85877			
Client ID: CCV		Batch ID: 41170				Analysis Date: 8/10/2023		SeqNo: 1792087			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Heavy Oil	477	100	500.0	0	95.5	80	120				
Surr: 2-Fluorobiphenyl	10.8		10.00		108	50	150				
Surr: o-Terphenyl	11.2		10.00		112	50	150				

Sample ID: DX-CCV-41170A		SampType: CCV		Units: mg/Kg		Prep Date: 8/10/2023		RunNo: 85877			
Client ID: CCV		Batch ID: 41170				Analysis Date: 8/10/2023		SeqNo: 1792088			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel (Fuel Oil)	484	50.0	500.0	0	96.7	80	120				
Surr: 2-Fluorobiphenyl	10.6		10.00		106	50	150				
Surr: o-Terphenyl	13.1		10.00		131	50	150				

Sample ID: MB-41170		SampType: MBLK		Units: mg/Kg		Prep Date: 8/10/2023		RunNo: 85877			
Client ID: MBLKS		Batch ID: 41170				Analysis Date: 8/10/2023		SeqNo: 1792089			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline	ND	30.0									
Mineral Spirits	ND	50.0									
Kerosene	ND	50.0									
Diesel (Fuel Oil)	ND	50.0									
Heavy Oil	ND	100									
Mineral Oil	ND	100									
Surr: 2-Fluorobiphenyl	10.4		10.00		104	50	150				
Surr: o-Terphenyl	10.6		10.00		106	50	150				

Sample ID: LCS-41170		SampType: LCS		Units: mg/Kg		Prep Date: 8/10/2023		RunNo: 85877			
Client ID: LCSS		Batch ID: 41170				Analysis Date: 8/10/2023		SeqNo: 1792090			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Petroleum Hydrocarbons	520	50.0	500.0	0	104	74.5	125				

Work Order: 2308152
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT

Hydrocarbon Identification by NWTPH-HCID

Sample ID: LCS-41170	SampType: LCS	Units: mg/Kg	Prep Date: 8/10/2023	RunNo: 85877							
Client ID: LCSS	Batch ID: 41170		Analysis Date: 8/10/2023	SeqNo: 1792090							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Surr: 2-Fluorobiphenyl	9.23		10.00		92.3	50	150				
Surr: o-Terphenyl	12.0		10.00		120	50	150				

Sample ID: 2308151-002ADUP	SampType: DUP	Units: mg/Kg-dry	Prep Date: 8/10/2023	RunNo: 85877							
Client ID: BATCH	Batch ID: 41170		Analysis Date: 8/10/2023	SeqNo: 1792092							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	ND	34.2						0		30	
Mineral Spirits	ND	57.0						0		30	
Kerosene	ND	57.0						0		30	
Diesel (Fuel Oil)	ND	57.0						0		30	
Heavy Oil	ND	114						0		30	
Mineral Oil	ND	114						0		30	
Surr: 2-Fluorobiphenyl	11.8		11.39		104	50	150		0		
Surr: o-Terphenyl	11.9		11.39		105	50	150		0		

Sample ID: OIL-CCV-41170B	SampType: CCV	Units: mg/Kg	Prep Date: 8/10/2023	RunNo: 85877							
Client ID: CCV	Batch ID: 41170		Analysis Date: 8/10/2023	SeqNo: 1792093							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Heavy Oil	499	100	500.0	0	99.7	80	120				
Surr: 2-Fluorobiphenyl	10.8		10.00		108	50	150				
Surr: o-Terphenyl	11.3		10.00		113	50	150				

Sample ID: DX-CCV-41170B	SampType: CCV	Units: mg/Kg	Prep Date: 8/10/2023	RunNo: 85877							
Client ID: CCV	Batch ID: 41170		Analysis Date: 8/10/2023	SeqNo: 1792094							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel (Fuel Oil)	488	50.0	500.0	0	97.6	80	120				
Surr: 2-Fluorobiphenyl	11.1		10.00		111	50	150				

Work Order: 2308152
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT
Hydrocarbon Identification by NWTPH-HCID

Sample ID: DX-CCV-41170B	SampType: CCV	Units: mg/Kg			Prep Date: 8/10/2023	RunNo: 85877					
Client ID: CCV	Batch ID: 41170				Analysis Date: 8/10/2023	SeqNo: 1792094					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: o-Terphenyl	13.1		10.00		131	50	150				

Sample ID: OIL-CCV-41170C	SampType: CCV	Units: mg/Kg			Prep Date: 8/10/2023	RunNo: 85877					
Client ID: CCV	Batch ID: 41170				Analysis Date: 8/10/2023	SeqNo: 1792096					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Heavy Oil	500	100	500.0	0	100	80	120				
Surr: 2-Fluorobiphenyl	10.9		10.00		109	50	150				
Surr: o-Terphenyl	11.3		10.00		113	50	150				

Sample ID: DX-CCV-41170C	SampType: CCV	Units: mg/Kg			Prep Date: 8/10/2023	RunNo: 85877					
Client ID: CCV	Batch ID: 41170				Analysis Date: 8/10/2023	SeqNo: 1792097					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel (Fuel Oil)	496	50.0	500.0	0	99.1	80	120				
Surr: 2-Fluorobiphenyl	11.3		10.00		113	50	150				
Surr: o-Terphenyl	13.5		10.00		135	50	150				

Client Name: GEI	Work Order Number: 2308152
Logged by: Morgan Wilson	Date Received: 8/10/2023 11:11:00 AM

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
2. How was the sample delivered? Courier

Log In

3. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes No Not Present
4. Was an attempt made to cool the samples? Yes No NA
5. Were all items received at a temperature of >2°C to 6°C * Yes No NA
6. Sample(s) in proper container(s)? Yes No
7. Sufficient sample volume for indicated test(s)? Yes No
8. Are samples properly preserved? Yes No
9. Was preservative added to bottles? Yes No NA
10. Is there headspace in the VOA vials? Yes No NA
11. Did all samples containers arrive in good condition(unbroken)? Yes No
12. Does paperwork match bottle labels? Yes No
13. Are matrices correctly identified on Chain of Custody? Yes No
14. Is it clear what analyses were requested? Yes No
15. Were all holding times able to be met? Yes No

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

17. Additional remarks:

Item Information

Item #	Temp °C
Sample	3.2

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C



Fremont
Analytical
An Alliance Technical Group Company

3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790

Chain of Custody Record & Laboratory Services Agreement

Date: 8/8/23 Page: 1 of 1

Project Name: South Jackson Street

Project No: 24504-001-01

Collected by: Paul Robinette

Location: Seattle, WA

Report To (PM): Robert Trahan

Laboratory Project No (Internal):
Special Remarks:
Level 2B QA

2308152

Disposal: Samples will be disposed in 30 days unless otherwise requested.
 Retain volume (specify above) Return to client

Client: GeoEngineers

Address: 2101 4th Ave Ste 950

City, State, Zip: Seattle, WA 98121

Telephone: 425.861.2674

Email(s): rtrahan@geoengineers.com, probinette@geoengineers.com

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	# of Cont.	VOCs (EPA 8260 / 624)	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (DX)	SVOCS (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T) / Dissolved (D)	Anions (IC)***	EDB (8011)	Comments
1 UST4-230808	8/8/23	0700	P				X										
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water

**Metals (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sn Sr Se Ti Tl V Zn

***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Turn-around Time:
 Standard Next Day
 2 Day Same Day
 (specify)

Relinquished (Signature) *[Signature]* Print Name MASIN P Date/Time 8/10/23 11:11

Received (Signature) *[Signature]* Print Name SIMA C Date/Time 8/10/23 08:50

Relinquished (Signature) *[Signature]* Print Name Paul Robinette Date/Time 8/8/23 08:50

APPENDIX E
Report Limitations and Guidelines for Use

APPENDIX E REPORT LIMITATIONS AND GUIDELINES FOR USE³

This Appendix provides information to help you manage your risks with respect to the use of this report.

Environmental Services Are Performed for Specific Purposes, Persons and Projects

This report has been prepared for the exclusive use of South Jackson Partners LLC, their authorized agents and regulatory agencies. This report is not intended for use by others, and the information contained herein is not applicable to other sites.

GeoEngineers structures our services to meet the specific needs of our clients. For example, an environmental site assessment study conducted for a property owner may not fulfill the needs of a prospective purchaser of the same property. Because each environmental study is unique, each environmental report is unique, prepared solely for the specific client and project site. No one except South Jackson Partners LLC, their authorized agents and regulatory agencies should rely on this environmental report without first conferring with GeoEngineers. This report should not be applied for any purpose or project except the one originally contemplated.

This Environmental Report Is Based on a Unique Set of Project-Specific Factors

This report has been prepared for UST removal and excavation activities at Seventh Avenue Service Site located at 701 South Jackson Street, Seattle, Washington. GeoEngineers considered a number of unique, project-specific factors when establishing the scope of services for this project and report. Unless GeoEngineers specifically indicates otherwise, do not rely on this report if it was:

- not prepared for you,
- not prepared for your project,
- not prepared for the specific site explored, or
- completed before important project changes were made.

If important changes are made after the date of this report, GeoEngineers should be given the opportunity to review our interpretations and recommendations and provide written modifications or confirmation, as appropriate.

Reliance Conditions for Third Parties

Our report was prepared for the exclusive use of South Jackson Partners LLC, their authorized agents and regulatory agencies. No other party may rely on the product of our services unless we agree in advance to such reliance in writing. This is to provide our firm with reasonable protection against open-ended liability claims by third parties with whom there would otherwise be no contractual limits to their actions. Within the limitations of scope, schedule and budget, our services have been executed in accordance with our

³ Developed based on material provided by ASFE, Professional Firms Practicing in the Geosciences; www.asfe.org.

Agreement with South Jackson Partners LLC and generally accepted environmental practices in this area at the time this report was prepared.

Environmental Regulations Are Always Evolving

Some substances may be present in the site vicinity in quantities or under conditions that may have led, or may lead, to contamination of the subject site, but are not included in current local, state or federal regulatory definitions of hazardous substances or do not otherwise present current potential liability. GeoEngineers cannot be responsible if the standards for appropriate inquiry, or regulatory definitions of hazardous substance, change or if more stringent environmental standards are developed in the future.

Uncertainty May Remain after Completion of Remedial Activities

Remediation activity completed in a portion of a site cannot wholly eliminate uncertainty regarding the potential for contamination in connection with a property. Our interpretation of subsurface conditions in this study is based on field observations and chemical analytical data from widely-spaced sampling locations. It is always possible that contamination exists in areas that were not explored, sampled or analyzed.

Subsurface Conditions Can Change

This environmental report is based on conditions that existed at the time the study was performed. The findings and conclusions of this report may be affected by the passage of time, by manmade events such as construction on or adjacent to the site, by new releases of hazardous substances, or by natural events such as floods, earthquakes, slope instability or groundwater fluctuations. Always contact GeoEngineers before applying this report to determine if it is still applicable.

Soil and Groundwater End Use

The cleanup levels referenced in this report are site- and situation-specific. The cleanup levels may not be applicable for other sites or for other on-site uses of the affected media (soil and/or groundwater). Note that hazardous substances may be present in some of the site soil and/or groundwater at detectable concentrations that are less than the referenced cleanup levels. GeoEngineers should be contacted prior to the export of soil or groundwater from the subject site or reuse of the affected media on site to evaluate the potential for associated environmental liabilities. We cannot be responsible for potential environmental liability arising out of the transfer of soil and/or groundwater from the subject site to another location or its reuse on site in instances that we were not aware of or could not control.

Most Environmental Findings Are Professional Opinions

Our interpretations of subsurface conditions are based on field observations and chemical analytical data from widely spaced sampling locations at the site. Site exploration identifies subsurface conditions only at those points where subsurface tests are conducted or samples are taken. GeoEngineers reviewed field and laboratory data and then applied our professional judgment to render an opinion about subsurface conditions throughout the site. Actual subsurface conditions may differ – sometimes significantly – from those indicated in this report. Our report, conclusions and interpretations should not be construed as a warranty of the subsurface conditions.

Read These Provisions Closely

Some clients, design professionals and contractors may not recognize that the geoscience practices (geotechnical engineering, geology and environmental science) are far less exact than other engineering and natural science disciplines. This lack of understanding can create unrealistic expectations that could lead to disappointments, claims and disputes. GeoEngineers includes these explanatory “limitations” provisions in our reports to help reduce such risks. Please confer with GeoEngineers if you are unclear how these “Report Limitations and Guidelines for Use” apply to your project or site.

Geotechnical, Geologic and Geoenvironmental Reports Should Not Be Interchanged

The equipment, techniques and personnel used to perform an environmental study differ significantly from those used to perform a geotechnical or geologic study and vice versa. For that reason, a geotechnical engineering or geologic report does not usually relate any environmental findings, conclusions or recommendations; e.g., about the likelihood of encountering underground storage tanks or regulated contaminants. Similarly, environmental reports are not used to address geotechnical or geologic concerns regarding a specific project.

Biological Pollutants

GeoEngineers’ Scope of Work specifically excludes the investigation, detection, prevention or assessment of the presence of Biological Pollutants. Accordingly, this report does not include any interpretations, recommendations, findings, or conclusions regarding the detecting, assessing, preventing or abating of Biological Pollutants and no conclusions or inferences should be drawn regarding Biological Pollutants, as they may relate to this project. The term “Biological Pollutants” includes, but is not limited to, molds, fungi, spores, bacteria, and viruses, and/or any of their byproducts.

If South Jackson Partners desires these specialized services, they should be obtained from a consultant who offers services in this specialized field.

APPENDIX C
Field Program

APPENDIX C FIELD PROGRAM

Field Screening Procedures

The potential presence of contamination in soil samples was evaluated using field screening techniques. Field screening results were recorded on the field logs and the results used as a general guideline to delineate areas of possible contamination and/or to segregate soil. In addition, screening results were used as a basis for selecting soil samples for chemical analysis. The following screening methods were used: (1) visual screening; (2) water sheen screening; and (3) headspace vapor screening.

Visual Screening

During construction, soil generated by the earthwork activities was observed for unusual color and stains and/or odor indicative of possible contamination.

Water Sheen Screening

Water sheen screening is a qualitative field screening method that can help identify the presence or absence of petroleum hydrocarbons. For this screening procedure, a portion of the soil sample was placed in a pan containing distilled water and the water surface will be observed for signs of sheen using the following classifications:

Classification	Identifier	Description
No Sheen	NS	No visible sheen on the water surface
Slight Sheen	SS	Light, colorless, dull sheen; spread is irregular, no rapid; sheen dissipates rapidly
Moderate Sheen	MS	Light to heavy sheen; may have some color/iridescence; spread is irregular to flowing, may be rapid; few remaining areas of no sheen on the water surface
Heavy Sheen	HS	Heavy sheen with color/iridescence; spread is irregular to flowing, may be rapid; few remaining areas of no sheen on the water surface

Headspace Vapor Screening

Headspace vapor screening is a semi-quantitative field screening method used to help identify the presence or absence of volatile organics in soil. For this procedure, a portion of the soil sample is placed in a resealable plastic bag. The bag is then be sealed and shaken gently to expose the soil to the air trapped in the bag. The bag remains closed for approximately 5 minutes at ambient temperature before the headspace vapors are measured. Vapors present within the sample bag's headspace are then measured by inserting the probe of a PID through a small opening in the bag, taking care not to clog the probe with soil. The maximum PID reading (in parts per million [ppm]) and the ambient air temperature are then recorded on the field log for each sample. The PID was calibrated to 100 ppm isobutylene in accordance with the manufacturer's recommendations. No portions of a soil sample used for headspace screening was submitted to the laboratory for chemical analysis.

Sample Collection and Decontamination Procedures

Soil samples were collected using excavation equipment (i.e., backhoe or excavator), and/or hand tools including stainless steel spoons. Reusable sampling equipment that came into contact with soil was

decontaminated before each use. Decontamination procedures for this equipment consisted of the following:

1. Washing with a brush and non-phosphate detergent solution (e.g., Liqui-Nox and distilled water); and
2. Rinsing with distilled water

Field personnel limited cross-contamination by changing gloves between sampling locations.

Sample Containers and Labeling

Soil samples were placed in appropriate laboratory-prepared containers. Sample containers were labeled with the following information at the time of sample collection:

- Project name and number;
- Type of sample preservative used (where applicable);
- Sample name, which will include a reference to date and sampling depth (if applicable); and
- Date and time of collection.

Soil Sample Collection and Handling

Soil samples obtained from the explorations for chemical analysis were transferred to Fremont Analytical of Seattle, Washington for chemical analysis. Sample containers were filled to minimize headspace. Washington State Department of Ecology's (Ecology's) 5035 methodology was used for gasoline-range petroleum hydrocarbon and volatile organic compound (VOC) sample collection. The samples were placed in a cooler with ice pending transport to the analytical laboratory.

Chain-of-Custody

Chain-of custody (forms were completed for each group of samples being shipped to the laboratory. Information included on the chain-of custody form included:

- Project name and number;
- Sample identifications;
- Date and time of sampling;
- Sample matrix (soil and groundwater), preservative and number of containers for each sample;
- Analyses to be performed;
- Names of sampling personnel;
- Project manager name and contact information including phone number; and
- Shipping information including shipping container number, if applicable.

The original chain-of-custody form was signed by a member of the field team. A copy of the original form is maintained by GeoEngineers.

APPENDIX D
Laboratory Data Reports



3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

GeoEngineers

Robert Trahan
2101 4th Ave, Suite 950
Seattle, WA 98121

**RE: S Jackson Street
Work Order Number: 2307265**

July 24, 2023

Attention Robert Trahan:

Fremont Analytical, Inc. received 4 sample(s) on 7/21/2023 for the analyses presented in the following report.

***Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)
Sample Moisture (Percent Moisture)***

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager

*DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.3 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910*

Revision v1

www.fremontanalytical.com

CLIENT: GeoEngineers
Project: S Jackson Street
Work Order: 2307265

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2307265-001	R2-NSW-95	07/21/2023 11:00 AM	07/21/2023 12:45 PM
2307265-002	R2-SSW-95	07/21/2023 9:30 AM	07/21/2023 12:45 PM
2307265-003	R2-ESW-95	07/21/2023 11:05 AM	07/21/2023 12:45 PM
2307265-004	R2-WSW-95	07/21/2023 10:55 AM	07/21/2023 12:45 PM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: GeoEngineers
Project: S Jackson Street

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

7/27/2023: Revision 1 includes a level 2B data package.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Analytical Report

Work Order: 2307265
Date Reported: 7/24/2023

Client: GeoEngineers
Project: S Jackson Street
Lab ID: 2307265-001
Client Sample ID: R2-NSW-95

Collection Date: 7/21/2023 11:00:00 AM
Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Batch ID: 40960 Analyst: SH

Benz(a)anthracene	ND	24.5		µg/Kg-dry	1	7/22/2023 6:20:28 AM
Chrysene	ND	24.5		µg/Kg-dry	1	7/22/2023 6:20:28 AM
Benzo(b)fluoranthene	ND	30.7		µg/Kg-dry	1	7/22/2023 6:20:28 AM
Benzo(k)fluoranthene	ND	30.7		µg/Kg-dry	1	7/22/2023 6:20:28 AM
Benzo(a)pyrene	ND	36.8		µg/Kg-dry	1	7/22/2023 6:20:28 AM
Indeno(1,2,3-cd)pyrene	ND	49.1		µg/Kg-dry	1	7/22/2023 6:20:28 AM
Dibenz(a,h)anthracene	ND	61.4		µg/Kg-dry	1	7/22/2023 6:20:28 AM
Surr: 2-Fluorobiphenyl	84.8	22.2 - 146		%Rec	1	7/22/2023 6:20:28 AM
Surr: Terphenyl-d14 (surr)	139	20.2 - 159		%Rec	1	7/22/2023 6:20:28 AM

Sample Moisture (Percent Moisture)

Batch ID: R85442 Analyst: MP

Percent Moisture	23.9	0.500		wt%	1	7/24/2023 9:45:19 AM
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Client: GeoEngineers
Project: S Jackson Street
Lab ID: 2307265-002
Client Sample ID: R2-SSW-95

Collection Date: 7/21/2023 9:30:00 AM
Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Batch ID: 40960 Analyst: SH

Benz(a)anthracene	175	21.0		µg/Kg-dry	1	7/22/2023 6:48:39 AM
Chrysene	200	21.0		µg/Kg-dry	1	7/22/2023 6:48:39 AM
Benzo(b)fluoranthene	ND	26.2		µg/Kg-dry	1	7/22/2023 6:48:39 AM
Benzo(k)fluoranthene	ND	26.2		µg/Kg-dry	1	7/22/2023 6:48:39 AM
Benzo(a)pyrene	134	31.5		µg/Kg-dry	1	7/22/2023 6:48:39 AM
Indeno(1,2,3-cd)pyrene	58.1	42.0		µg/Kg-dry	1	7/22/2023 6:48:39 AM
Dibenz(a,h)anthracene	ND	52.4		µg/Kg-dry	1	7/22/2023 6:48:39 AM
Surr: 2-Fluorobiphenyl	84.8	22.2 - 146		%Rec	1	7/22/2023 6:48:39 AM
Surr: Terphenyl-d14 (surr)	143	20.2 - 159		%Rec	1	7/22/2023 6:48:39 AM

Sample Moisture (Percent Moisture)

Batch ID: R85442 Analyst: MP

Percent Moisture	14.0	0.500		wt%	1	7/24/2023 9:45:19 AM
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Client: GeoEngineers
Project: S Jackson Street
Lab ID: 2307265-003
Client Sample ID: R2-ESW-95

Collection Date: 7/21/2023 11:05:00 AM
Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Batch ID: 40960 Analyst: SH

Benz(a)anthracene	ND	24.6		µg/Kg-dry	1	7/22/2023 4:27:37 AM
Chrysene	ND	24.6		µg/Kg-dry	1	7/22/2023 4:27:37 AM
Benzo(b)fluoranthene	ND	30.7		µg/Kg-dry	1	7/22/2023 4:27:37 AM
Benzo(k)fluoranthene	ND	30.7		µg/Kg-dry	1	7/22/2023 4:27:37 AM
Benzo(a)pyrene	ND	36.9		µg/Kg-dry	1	7/22/2023 4:27:37 AM
Indeno(1,2,3-cd)pyrene	ND	49.2		µg/Kg-dry	1	7/22/2023 4:27:37 AM
Dibenz(a,h)anthracene	ND	61.5		µg/Kg-dry	1	7/22/2023 4:27:37 AM
Surr: 2-Fluorobiphenyl	79.4	22.2 - 146		%Rec	1	7/22/2023 4:27:37 AM
Surr: Terphenyl-d14 (surr)	125	20.2 - 159		%Rec	1	7/22/2023 4:27:37 AM

Sample Moisture (Percent Moisture)

Batch ID: R85442 Analyst: MP

Percent Moisture	24.6	0.500		wt%	1	7/24/2023 9:45:19 AM
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Client: GeoEngineers
Project: S Jackson Street
Lab ID: 2307265-004
Client Sample ID: R2-WSW-95

Collection Date: 7/21/2023 10:55:00 AM
Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Batch ID: 40960 Analyst: SH

Benz(a)anthracene	ND	23.4		µg/Kg-dry	1	7/22/2023 4:55:53 AM
Chrysene	ND	23.4		µg/Kg-dry	1	7/22/2023 4:55:53 AM
Benzo(b)fluoranthene	ND	29.3		µg/Kg-dry	1	7/22/2023 4:55:53 AM
Benzo(k)fluoranthene	ND	29.3		µg/Kg-dry	1	7/22/2023 4:55:53 AM
Benzo(a)pyrene	ND	35.1		µg/Kg-dry	1	7/22/2023 4:55:53 AM
Indeno(1,2,3-cd)pyrene	ND	46.8		µg/Kg-dry	1	7/22/2023 4:55:53 AM
Dibenz(a,h)anthracene	ND	58.5		µg/Kg-dry	1	7/22/2023 4:55:53 AM
Surr: 2-Fluorobiphenyl	80.8	22.2 - 146		%Rec	1	7/22/2023 4:55:53 AM
Surr: Terphenyl-d14 (surr)	131	20.2 - 159		%Rec	1	7/22/2023 4:55:53 AM

Sample Moisture (Percent Moisture)

Batch ID: R85442 Analyst: MP

Percent Moisture	24.3	0.500		wt%	1	7/24/2023 9:45:19 AM
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Work Order: 2307265
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Sample ID: PAH ICB	SampType: ICB	Units: µg/L	Prep Date: 6/27/2023	RunNo: 85013							
Client ID: ICB	Batch ID: 40960		Analysis Date: 6/27/2023	SeqNo: 1774504							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benz(a)anthracene	ND	0.100									
Chrysene	0.303	0.100									
Benzo(b)fluoranthene	0.198	0.100									
Benzo(k)fluoranthene	0.171	0.100									
Benzo(a)pyrene	ND	0.100									
Indeno(1,2,3-cd)pyrene	ND	0.100									
Dibenz(a,h)anthracene	ND	0.100									
Surr: 2,4,6-Tribromophenol	722		1,000		72.2	24	138				
Surr: 2-Fluorobiphenyl	395		500.0		79.0	72.7	131				
Surr: Terphenyl-d14	415		500.0		82.9	74.6	134				

Sample ID: PAH ICV	SampType: ICV	Units: µg/L	Prep Date: 6/27/2023	RunNo: 85013							
Client ID: ICV	Batch ID: 40960		Analysis Date: 6/27/2023	SeqNo: 1774505							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benz(a)anthracene	887	0.100	1,000	0	88.7	70	130				
Chrysene	934	0.100	1,000	0	93.4	70	130				
Benzo(b)fluoranthene	847	0.100	1,000	0	84.7	70	130				
Benzo(k)fluoranthene	926	0.100	1,000	0	92.6	70	130				
Benzo(a)pyrene	890	0.100	1,000	0	89.0	70	130				
Indeno(1,2,3-cd)pyrene	867	0.100	1,000	0	86.7	70	130				
Dibenz(a,h)anthracene	869	0.100	1,000	0	86.9	70	130				
Surr: 2,4,6-Tribromophenol	1,020		1,000		102	24	138				
Surr: 2-Fluorobiphenyl	478		500.0		95.6	70.2	145				
Surr: Terphenyl-d14	503		500.0		101	71.3	142				

Sample ID: CCV-40960A	SampType: CCV	Units: µg/L	Prep Date: 7/21/2023	RunNo: 85441							
Client ID: CCV	Batch ID: 40960		Analysis Date: 7/21/2023	SeqNo: 1782747							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benz(a)anthracene	1,100	20.0	1,000	0	110	80	120				

Work Order: 2307265
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Sample ID: CCV-40960A		SampType: CCV		Units: µg/L		Prep Date: 7/21/2023		RunNo: 85441			
Client ID: CCV		Batch ID: 40960				Analysis Date: 7/21/2023		SeqNo: 1782747			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chrysene	1,040	20.0	1,000	0	104	80	120				
Benzo(b)fluoranthene	1,050	25.0	1,000	0	105	80	120				
Benzo(k)fluoranthene	1,050	25.0	1,000	0	105	80	120				
Benzo(a)pyrene	1,120	30.0	1,000	0	112	80	120				
Indeno(1,2,3-cd)pyrene	985	40.0	1,000	0	98.5	80	120				
Dibenz(a,h)anthracene	988	50.0	1,000	0	98.8	80	120				
Surr: 2,4,6-Tribromophenol	1,290		1,000		129	14	136				
Surr: 2-Fluorobiphenyl	450		500.0		89.9	69.5	150				
Surr: Terphenyl-d14 (surr)	613		500.0		123	71.6	145				

Sample ID: MB-40960		SampType: MBLK		Units: µg/Kg		Prep Date: 7/21/2023		RunNo: 85441			
Client ID: MBLKS		Batch ID: 40960				Analysis Date: 7/21/2023		SeqNo: 1782748			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benz(a)anthracene	ND	20.0									
Chrysene	ND	20.0									
Benzo(b)fluoranthene	ND	25.0									
Benzo(k)fluoranthene	ND	25.0									
Benzo(a)pyrene	ND	30.0									
Indeno(1,2,3-cd)pyrene	ND	40.0									
Dibenz(a,h)anthracene	ND	50.0									
Surr: 2,4,6-Tribromophenol	1,830		2,000		91.4	27	142				
Surr: 2-Fluorobiphenyl	834		1,000		83.4	22.2	146				
Surr: Terphenyl-d14 (surr)	1,160		1,000		116	20.2	159				

Sample ID: LCS-40960		SampType: LCS		Units: µg/Kg		Prep Date: 7/21/2023		RunNo: 85441			
Client ID: LCSS		Batch ID: 40960				Analysis Date: 7/21/2023		SeqNo: 1782749			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benz(a)anthracene	2,010	20.0	2,000	0	100	59.5	123				
Chrysene	1,840	20.0	2,000	0	92.1	51.5	115				

Work Order: 2307265
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Sample ID: LCS-40960	SampType: LCS	Units: µg/Kg				Prep Date: 7/21/2023	RunNo: 85441				
Client ID: LCSS	Batch ID: 40960					Analysis Date: 7/21/2023	SeqNo: 1782749				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(b)fluoranthene	1,850	25.0	2,000	0	92.5	50	122				
Benzo(k)fluoranthene	1,890	25.0	2,000	0	94.5	51	117				
Benzo(a)pyrene	2,090	30.0	2,000	0	104	53.2	123				
Indeno(1,2,3-cd)pyrene	1,780	40.0	2,000	0	89.2	49.5	122				
Dibenz(a,h)anthracene	1,810	50.0	2,000	0	90.4	51	120				
Surr: 2,4,6-Tribromophenol	2,660		2,000		133	27	142				
Surr: 2-Fluorobiphenyl	937		1,000		93.7	22.2	146				
Surr: Terphenyl-d14 (surr)	1,240		1,000		124	20.2	159				

Sample ID: 2307235-004AMS	SampType: MS	Units: µg/Kg-dry				Prep Date: 7/21/2023	RunNo: 85441				
Client ID: BATCH	Batch ID: 40960					Analysis Date: 7/21/2023	SeqNo: 1782757				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benz(a)anthracene	2,100	21.1	2,109	0	99.7	41.7	126				
Chrysene	1,890	21.1	2,109	0	89.6	40.4	108				
Benzo(b)fluoranthene	1,860	26.4	2,109	0	88.0	30.9	124				
Benzo(k)fluoranthene	1,930	26.4	2,109	0	91.7	32.8	115				
Benzo(a)pyrene	2,100	31.6	2,109	0	99.8	25.9	129				
Indeno(1,2,3-cd)pyrene	1,810	42.2	2,109	0	86.0	14.3	126				
Dibenz(a,h)anthracene	1,840	52.7	2,109	0	87.3	18.6	121				
Surr: 2-Fluorobiphenyl	945		1,054		89.6	22.2	146				
Surr: Terphenyl-d14 (surr)	1,330		1,054		126	20.2	159				

Sample ID: 2307235-004AMSD	SampType: MSD	Units: µg/Kg-dry				Prep Date: 7/21/2023	RunNo: 85441				
Client ID: BATCH	Batch ID: 40960					Analysis Date: 7/21/2023	SeqNo: 1782758				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benz(a)anthracene	2,240	21.0	2,096	0	107	41.7	126	2,101	6.30	30	
Chrysene	2,050	21.0	2,096	0	97.7	40.4	108	1,890	8.01	30	
Benzo(b)fluoranthene	1,950	26.2	2,096	0	92.8	30.9	124	1,856	4.74	30	
Benzo(k)fluoranthene	2,130	26.2	2,096	0	102	32.8	115	1,933	9.75	30	

Work Order: 2307265
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Sample ID: 2307235-004AMSD	SampType: MSD	Units: µg/Kg-dry	Prep Date: 7/21/2023	RunNo: 85441							
Client ID: BATCH	Batch ID: 40960	Analysis Date: 7/21/2023	SeqNo: 1782758								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(a)pyrene	2,260	31.4	2,096	0	108	25.9	129	2,104	7.24	30	
Indeno(1,2,3-cd)pyrene	1,960	41.9	2,096	0	93.5	14.3	126	1,813	7.82	30	
Dibenz(a,h)anthracene	1,990	52.4	2,096	0	94.7	18.6	121	1,842	7.51	30	
Surr: 2-Fluorobiphenyl	1,010		1,048		96.4	22.2	146		0		
Surr: Terphenyl-d14 (surr)	1,430		1,048		137	20.2	159		0		

Sample ID: CCV-40960B	SampType: CCV	Units: µg/L	Prep Date: 7/22/2023	RunNo: 85441							
Client ID: CCV	Batch ID: 40960	Analysis Date: 7/22/2023	SeqNo: 1782761								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benz(a)anthracene	1,150	20.0	1,000	0	115	80	120				
Chrysene	1,020	20.0	1,000	0	102	80	120				
Benzo(b)fluoranthene	1,040	25.0	1,000	0	104	80	120				
Benzo(k)fluoranthene	1,030	25.0	1,000	0	103	80	120				
Benzo(a)pyrene	1,090	30.0	1,000	0	109	80	120				
Indeno(1,2,3-cd)pyrene	992	40.0	1,000	0	99.2	80	120				
Dibenz(a,h)anthracene	1,000	50.0	1,000	0	100	80	120				
Surr: 2,4,6-Tribromophenol	1,310		1,000		131	14	136				
Surr: 2-Fluorobiphenyl	428		500.0		85.6	69.5	150				
Surr: Terphenyl-d14 (surr)	636		500.0		127	71.6	145				

Client Name: GEI	Work Order Number: 2307265
Logged by: Morgan Wilson	Date Received: 7/21/2023 12:45:00 PM

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
2. How was the sample delivered? Client

Log In

3. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes No Not Present
4. Was an attempt made to cool the samples? Yes No NA
5. Were all items received at a temperature of >2°C to 6°C * Yes No NA
- Samples were collected the same day and chilled.
6. Sample(s) in proper container(s)? Yes No
7. Sufficient sample volume for indicated test(s)? Yes No
8. Are samples properly preserved? Yes No
9. Was preservative added to bottles? Yes No NA
10. Is there headspace in the VOA vials? Yes No NA
11. Did all samples containers arrive in good condition(unbroken)? Yes No
12. Does paperwork match bottle labels? Yes No
13. Are matrices correctly identified on Chain of Custody? Yes No
14. Is it clear what analyses were requested? Yes No
15. Were all holding times able to be met? Yes No

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

17. Additional remarks:

Item Information

Item #	Temp °C
Sample	20.9

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C



3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790

Chain of Custody Record & Laboratory Services Agreement

Date: _____ Page: _____ of: _____

Laboratory Project No (Internal): **V07205**

Special Remarks: **c-PATH's**

Project Name: S Jackson Street

Client: GeoEngineers

Project No: 24504-001-01

Address: 2101 4th Ave Ste 950

Collected by: Paul Robinette

City, State, Zip: Seattle, WA 98121

Location: Seattle, WA

Telephone: 425.861.2674

Report To (PM): Robert Trahan

Email(s): rtrahan@geoengineers.com

Disposal: Samples will be disposed in 30 days unless otherwise requested
 Retain volume (specify above) Return to client

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	# of Cont.	VOCs (EPA 8260 / 624)	BTEX	Gasoline Range Organics (GX)	Diethylhexyl Sebacate (DEHS)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 / 625)	PCBs (EPA 8082 / 608)	Metals ** (EPA 6020 / 200.8)	Total (T) Dissolved (D)	Anions (A)***	ED8 (801.1)	Comments
RZ-NSW-95	7/21/23	1100	S	1											X	Next Day
RZ-SSW-95		930	S	1											X	Next Day
RZ-ESW-95		1105	S	1											X	STD TAT
RZ-WSW-95		1055	S	1											X	Next Day

Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water
****Metals (Circle):** MTCA-5 RCRA-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Tl V Zn
*****Anions (Circle):** Nitrate Nitrite Chloride Sulfate Bromide Fluoride Nitrate-Nitrite

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished (Signature) *Paul Robinette* Date/Time 7/23/23
 Relinquished (Signature) _____ Date/Time _____
 Received (Signature) *B. Bames* Date/Time 7/21/23
 Received (Signature) _____ Date/Time _____

DATA SET for Review - Deliverable Requirements

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Fremont Analytical Work Order No. 2307265

GeoEngineers

Project Name: S Jackson Street

Project Number: 24504-001-01

This data set contains the following:

- Analytical Sequence Summary
- Calibration Information
- Tune Information
- Internal Standards Report

Data Directory: C:\GC-14\Data\2023\062723\

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) 062701.D CO	8270E_SIM_625.M	2	1.000	27 Jun 2023 07:44 am
2) 062702.D tune	8270E_SCAN_625.M	1	1.000	27 Jun 2023 08:12 am
3) 062703.D CCV-semi scan	8270E_SCAN_625.M	2	1.000	27 Jun 2023 08:40 am
4) 062704.D CCV-semi scan shor..	8270E_SCAN_625.M	2	1.000	27 Jun 2023 10:30 am
5) 062705.D SEMI 10	8270E_SCAN_625.M	42	1.000	27 Jun 2023 11:31 am
6) 062706.D SEMI 20	8270E_SCAN_625.M	43	1.000	27 Jun 2023 11:59 am
7) 062707.D SEMI 40	8270E_SCAN_625.M	44	1.000	27 Jun 2023 12:28 pm
8) 062708.D SEMI 100	8270E_SCAN_625.M	45	1.000	27 Jun 2023 12:57 pm
9) 062709.D SEMI 200	8270E_SCAN_625.M	46	1.000	27 Jun 2023 01:25 pm
10) 062710.D SEMI 500	8270E_SCAN_625.M	47	1.000	27 Jun 2023 01:54 pm
11) 062711.D SEMI 750	8270E_SCAN_625.M	48	1.000	27 Jun 2023 02:23 pm
12) 062712.D SEMI 1000	8270E_SCAN_625.M	49	1.000	27 Jun 2023 02:52 pm
13) 062713.D SEMI 2000	8270E_SCAN_625.M	50	1.000	27 Jun 2023 03:21 pm
14) 062714.D SEMI 5000	8270E_SCAN_625.M	51	1.000	27 Jun 2023 03:50 pm
15) 062715.D SEMI ICB	8270E_SCAN_625.M	52	1.000	27 Jun 2023 04:18 pm
16) 062716.D SEMI ICV	8270E_SCAN_625.M	53	1.000	27 Jun 2023 04:47 pm
17) 062717.D tune	8270E_SCAN_625.M	1	1.000	27 Jun 2023 05:15 pm
18) 062718.D PAH 10	8270E_SIM_625.M	42	1.000	27 Jun 2023 05:44 pm
19) 062719.D PAH 20	8270E_SIM_625.M	43	1.000	27 Jun 2023 06:12 pm
20) 062720.D PAH 40	8270E_SIM_625.M	44	1.000	27 Jun 2023 06:40 pm
21) 062721.D PAH 100	8270E_SIM_625.M	45	1.000	27 Jun 2023 07:08 pm

22)	062722.D	8270E_SIM_625.M	46	1.000	27 Jun 2023	07:36 pm

23)	062723.D	8270E_SIM_625.M	47	1.000	27 Jun 2023	08:04 pm

24)	062724.D	8270E_SIM_625.M	48	1.000	27 Jun 2023	08:32 pm

25)	062725.D	8270E_SIM_625.M	49	1.000	27 Jun 2023	09:00 pm

26)	062726.D	8270E_SIM_625.M	50	1.000	27 Jun 2023	09:28 pm

27)	062727.D	8270E_SIM_625.M	51	1.000	27 Jun 2023	09:56 pm

28)	062728.D	8270E_SIM_625.M	52	1.000	27 Jun 2023	10:24 pm

29)	062729.D	8270E_SIM_625.M	53	1.000	27 Jun 2023	10:51 pm

30)	062730.D	8270E_SIM_625_LOWLEVEL.M	41	1.000	27 Jun 2023	11:19 pm

31)	062731.D	8270E_SIM_625_LOWLEVEL.M	42	1.000	27 Jun 2023	11:47 pm

32)	062732.D	8270E_SIM_625_LOWLEVEL.M	43	1.000	28 Jun 2023	12:15 am

33)	062733.D	8270E_SIM_625_LOWLEVEL.M	44	1.000	28 Jun 2023	12:43 am

34)	062734.D	8270E_SIM_625_LOWLEVEL.M	45	1.000	28 Jun 2023	01:11 am

35)	062735.D	8270E_SIM_625_LOWLEVEL.M	46	1.000	28 Jun 2023	01:38 am

36)	062736.D	8270E_SIM_625_LOWLEVEL.M	47	1.000	28 Jun 2023	02:06 am

37)	062737.D	8270E_SIM_625_LOWLEVEL.M	48	1.000	28 Jun 2023	02:34 am

38)	062738.D	8270E_SIM_625_LOWLEVEL.M	49	1.000	28 Jun 2023	03:01 am

39)	062739.D	8270E_SIM_625_LOWLEVEL.M	50	1.000	28 Jun 2023	03:29 am

40)	062740.D	8270E_SIM_625_LOWLEVEL.M	51	1.000	28 Jun 2023	03:57 am

41)	062741.D	8270E_SIM_625_LOWLEVEL.M	53	1.000	28 Jun 2023	04:25 am

42)	062742.D	8270E_SIM_625_LOWLEVEL.M	52	1.000	28 Jun 2023	04:52 am

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) 072101.D CO	8270E_SIM_625.M	150	1.000	21 Jul 2023 08:02 am
2) 072102.D tune	8270E_SCAN_625.M	1	1.000	21 Jul 2023 08:30 am
3) 072103.D CCV-	8270E_SIM_625.M	2	1.000	21 Jul 2023 08:59 am
4) 072104.D LCS-LL-BARR-40946	8270E_SIM_625.M	135	1.000	21 Jul 2023 11:22 am
5) 072105.D MB-40960	8270E_SIM_625.M	51	1.000	21 Jul 2023 11:50 am
6) 072106.D LCS-40960	8270E_SIM_625.M	52	1.000	21 Jul 2023 12:18 pm
7) 072107.D 2307227-001A	8270E_SIM_625.M	53	1.000	21 Jul 2023 12:46 pm
8) 072108.D 2307227-002A	8270E_SIM_625.M	54	1.000	21 Jul 2023 01:14 pm
9) 072109.D 2307227-003A	8270E_SIM_625.M	55	1.000	21 Jul 2023 01:42 pm
10) 072110.D 2307227-004A	8270E_SIM_625.M	56	1.000	21 Jul 2023 02:40 pm
11) 072111.D 2307227-005A	8270E_SIM_625.M	57	1.000	21 Jul 2023 03:08 pm
12) 072112.D 2307227-006A	8270E_SIM_625.M	58	1.000	21 Jul 2023 03:36 pm
13) 072113.D 2307235-004A	8270E_SIM_625.M	59	1.000	21 Jul 2023 04:04 pm
14) 072114.D 2307235-004AMS	8270E_SIM_625.M	60	1.000	21 Jul 2023 04:33 pm
15) 072115.D 2307235-004AMSD	8270E_SIM_625.M	61	1.000	21 Jul 2023 05:01 pm
16) 072116.D 2307235-005A	8270E_SIM_625.M	62	1.000	21 Jul 2023 05:30 pm
17) 072117.D QCS-	8270E_SIM_625.M	2	1.000	21 Jul 2023 05:59 pm
18) 072118.D tune	8270E_SCAN_625.M	1	1.000	21 Jul 2023 06:28 pm
19) 072119.D CCV-LL	8270E_SIM_625_LOWLEVEL.M	2	1.000	21 Jul 2023 06:57 pm
20) 072120.D MB-40946	8270E_SIM_625_LOWLEVEL.M	131	1.000	21 Jul 2023 07:26 pm
21) 072121.D LCS-40946	8270E_SIM_625_LOWLEVEL.M	132	1.000	21 Jul 2023 07:55 pm
22) 072122.D LCSD-40946	8270E_SIM_625_LOWLEVEL.M	133	1.000	21 Jul 2023 08:23 pm
23) 072123.D LCS-LL-40946	8270E_SIM_625_LOWLEVEL.M	134	1.000	21 Jul 2023 08:52 pm
24) 072124.D LCS-LL-BARR-40946	8270E_SIM_625_LOWLEVEL.M	135	1.000	21 Jul 2023 09:21 pm
25) 072125.D 2307197-001C	8270E_SIM_625_LOWLEVEL.M	136	1.000	21 Jul 2023 09:49 pm
26) 072126.D 2307217-001A	8270E_SIM_625_LOWLEVEL.M	137	1.000	21 Jul 2023 10:18 pm
27) 072127.D 2307217-002A	8270E_SIM_625_LOWLEVEL.M	138	1.000	21 Jul 2023 10:46 pm

28) 072128.D 2307217-003A	8270E_SIM_625_LOWLEVEL.M 139	1.000	21 Jul 2023	11:15 pm
29) 072129.D 2307217-004A	8270E_SIM_625_LOWLEVEL.M 140	1.000	21 Jul 2023	11:43 pm
30) 072130.D 2307217-005A	8270E_SIM_625_LOWLEVEL.M 141	1.000	22 Jul 2023	12:12 am
31) 072131.D QCS-LL	8270E_SIM_625_LOWLEVEL.M 2	1.000	22 Jul 2023	12:40 am
32) 072132.D tune	8270E_SCAN_625.M 1	1.000	22 Jul 2023	01:08 am
33) 072133.D CCV-	8270E_SIM_625.M 2	1.000	22 Jul 2023	01:37 am
34) 072134.D MB-40955	8270E_SIM_625.M 142	1.000	22 Jul 2023	02:06 am
35) 072135.D LCS-40955	8270E_SIM_625.M 143	1.000	22 Jul 2023	02:34 am
36) 072136.D LCSD-40955	8270E_SIM_625.M 144	1.000	22 Jul 2023	03:02 am
37) 072137.D 2307206-001C	8270E_SIM_625.M 145	1.000	22 Jul 2023	03:31 am
38) 072138.D 2307213-001B	8270E_SIM_625.M 146	1.000	22 Jul 2023	03:59 am
39) 072143.D 2307265-003A	8270E_SIM_625.M 128	1.000	22 Jul 2023	04:27 am
40) 072144.D 2307265-004A	8270E_SIM_625.M 129	1.000	22 Jul 2023	04:55 am
41) 072139.D 2307259-001A	8270E_SIM_625.M 124	1.000	22 Jul 2023	05:24 am
42) 072140.D 2307059-002A	8270E_SIM_625.M 125	1.000	22 Jul 2023	05:52 am
43) 072141.D 2307265-001A	8270E_SIM_625.M 126	1.000	22 Jul 2023	06:20 am
44) 072142.D 2307265-002A	8270E_SIM_625.M 127	1.000	22 Jul 2023	06:48 am
45) 072145.D QCS-	8270E_SIM_625.M 2	1.000	22 Jul 2023	07:16 am



Calibration

Quantitative Analysis Complete Report

Batch Path	C:\GC-14\Data\2023\062723\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	6/29/2023 12:01 PM	Reporter Name	FA\GC14
Report Time	6/29/2023 12:01:46 PM	Batch State	Processed
Last Calib Update	6/29/2023 12:00 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

Data File	Sample Name	Sample Type	Position	Inj Vol	Level	Acq. Method
062718.D	PAH 10	Cal	42	1	1	8270E_SIM_625
062719.D	PAH 20	Cal	43	1	2	8270E_SIM_625
062720.D	PAH 40	Cal	44	1	3	8270E_SIM_625
062721.D	PAH 100	Cal	45	1	4	8270E_SIM_625
062722.D	PAH 200	Cal	46	1	5	8270E_SIM_625
062723.D	PAH 500	Cal	47	1	6	8270E_SIM_625
062724.D	PAH 750	Cal	48	1	7	8270E_SIM_625
062725.D	PAH 1000	Cal	49	1	8	8270E_SIM_625
062726.D	PAH 2000	Cal	50	1	9	8270E_SIM_625
062727.D	PAH 5000	Cal	51	1	10	8270E_SIM_625
062728.D	PAH ICB	Sample	52	1		8270E_SIM_625
062729.D	PAH ICV	Sample	53	1		8270E_SIM_625

Quantitation Results

Naphthalene										
Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
062718.D	Naphthalene	Naphthalene-d8 (IS)	Calibration	9.267	3818	697782	0.0055	10.4366	10.0000	104.4
062719.D	Naphthalene	Naphthalene-d8 (IS)	Calibration	9.267	7471	685054	0.0109	20.8032	20.0000	104.0
062720.D	Naphthalene	Naphthalene-d8 (IS)	Calibration	9.267	15116	670003	0.0226	43.0351	40.0000	107.6
062721.D	Naphthalene	Naphthalene-d8 (IS)	Calibration	9.267	38734	693591	0.0558	106.5234	100.0000	106.5
062722.D	Naphthalene	Naphthalene-d8 (IS)	Calibration	9.267	79057	718177	0.1101	209.9736	200.0000	105.0
062723.D	Naphthalene	Naphthalene-d8 (IS)	Calibration	9.267	191632	683869	0.2802	534.5027	500.0000	106.9
062724.D	Naphthalene	Naphthalene-d8 (IS)	Calibration	9.267	278877	690376	0.4040	770.5184	750.0000	102.7
062725.D	Naphthalene	Naphthalene-d8 (IS)	Calibration	9.267	381821	700252	0.5453	1040.0647	1000.0000	104.0
062726.D	Naphthalene	Naphthalene-d8 (IS)	Calibration	9.267	742119	680146	1.0911	2081.2614	2000.0000	104.1
062727.D	Naphthalene	Naphthalene-d8 (IS)	Calibration	9.267	1797347	692264	2.5963	4952.3967	5000.0000	99.0
062728.D	Naphthalene	Naphthalene-d8 (IS)	Sample	9.267	0	657139	0.0000	ND		
062729.D	Naphthalene	Naphthalene-d8 (IS)	Sample	9.267	334652	686536	0.4874	929.7903		

2-Methylnaphthalene

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
062718.D	2-Methylnaphthalene	Naphthalene-d8 (IS)	Calibration	10.152	1338	697782	0.0019	7.3896	10.0000	73.9
062719.D	2-Methylnaphthalene	Naphthalene-d8 (IS)	Calibration	10.150	2702	685054	0.0039	15.2028	20.0000	76.0
062720.D	2-Methylnaphthalene	Naphthalene-d8 (IS)	Calibration	10.150	5684	670003	0.0085	32.7039	40.0000	81.8
062721.D	2-Methylnaphthalene	Naphthalene-d8 (IS)	Calibration	10.147	15365	693591	0.0222	85.3912	100.0000	85.4
062722.D	2-Methylnaphthalene	Naphthalene-d8 (IS)	Calibration	10.147	32870	718177	0.0458	176.4232	200.0000	88.2
062723.D	2-Methylnaphthalene	Naphthalene-d8 (IS)	Calibration	10.144	85339	683869	0.1248	481.0191	500.0000	96.2

Quantitative Analysis Complete Report

2-Methylnaphthalene

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
062724.D	2-Methylnaphthalene	Naphthalene-d8 (IS)	Calibration	10.145	128676	690376	0.1864	718.4542	750.0000	95.8
062725.D	2-Methylnaphthalene	Naphthalene-d8 (IS)	Calibration	10.145	180736	700252	0.2581	994.8973	1000.0000	99.5
062726.D	2-Methylnaphthalene	Naphthalene-d8 (IS)	Calibration	10.145	362756	680146	0.5334	2055.8913	2000.0000	102.8
062727.D	2-Methylnaphthalene	Naphthalene-d8 (IS)	Calibration	10.145	895550	692264	1.2937	4986.6120	5000.0000	99.7
062728.D	2-Methylnaphthalene	Naphthalene-d8 (IS)	Sample	10.155	0	657139	0.0000	ND		
062729.D	2-Methylnaphthalene	Naphthalene-d8 (IS)	Sample	10.145	157375	686536	0.2292	883.6056		

1-Methylnaphthalene

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
062718.D	1-Methylnaphthalene	Naphthalene-d8 (IS)	Calibration	10.275	1321	697782	0.0019	7.6671	10.0000	76.7
062719.D	1-Methylnaphthalene	Naphthalene-d8 (IS)	Calibration	10.275	2606	685054	0.0038	15.4061	20.0000	77.0
062720.D	1-Methylnaphthalene	Naphthalene-d8 (IS)	Calibration	10.273	5556	670003	0.0083	33.5831	40.0000	84.0
062721.D	1-Methylnaphthalene	Naphthalene-d8 (IS)	Calibration	10.273	14818	693591	0.0214	86.5235	100.0000	86.5
062722.D	1-Methylnaphthalene	Naphthalene-d8 (IS)	Calibration	10.270	32035	718177	0.0446	180.6488	200.0000	90.3
062723.D	1-Methylnaphthalene	Naphthalene-d8 (IS)	Calibration	10.270	85947	683869	0.1257	508.9829	500.0000	101.8
062724.D	1-Methylnaphthalene	Naphthalene-d8 (IS)	Calibration	10.270	127562	690376	0.1848	748.3077	750.0000	99.8
062725.D	1-Methylnaphthalene	Naphthalene-d8 (IS)	Calibration	10.270	176335	700252	0.2518	1019.8298	1000.0000	102.0
062726.D	1-Methylnaphthalene	Naphthalene-d8 (IS)	Calibration	10.270	346913	680146	0.5101	2065.6744	2000.0000	103.3
062727.D	1-Methylnaphthalene	Naphthalene-d8 (IS)	Calibration	10.270	849582	692264	1.2273	4970.2378	5000.0000	99.4
062728.D	1-Methylnaphthalene	Naphthalene-d8 (IS)	Sample	10.275	0	657139	0.0000	ND		
062729.D	1-Methylnaphthalene	Naphthalene-d8 (IS)	Sample	10.270	154984	686536	0.2257	914.2574		

2-Fluorobiphenyl (surr)

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
062718.D	2-Fluorobiphenyl (surr)	Naphthalene-d8 (IS)	Calibration	10.604	853	697782	0.0012	3.7358	5.0000	74.7
062719.D	2-Fluorobiphenyl (surr)	Naphthalene-d8 (IS)	Calibration	10.603	1703	685054	0.0025	7.5981	10.0000	76.0
062720.D	2-Fluorobiphenyl (surr)	Naphthalene-d8 (IS)	Calibration	10.602	3545	670003	0.0053	16.1723	20.0000	80.9
062721.D	2-Fluorobiphenyl (surr)	Naphthalene-d8 (IS)	Calibration	10.600	9395	693591	0.0135	41.4035	50.0000	82.8
062722.D	2-Fluorobiphenyl (surr)	Naphthalene-d8 (IS)	Calibration	10.599	20086	718177	0.0280	85.4867	100.0000	85.5
062723.D	2-Fluorobiphenyl (surr)	Naphthalene-d8 (IS)	Calibration	10.600	51553	683869	0.0754	230.4218	250.0000	92.2
062724.D	2-Fluorobiphenyl (surr)	Naphthalene-d8 (IS)	Calibration	10.600	77646	690376	0.1125	343.7753	375.0000	91.7
062725.D	2-Fluorobiphenyl (surr)	Naphthalene-d8 (IS)	Calibration	10.599	108574	700252	0.1551	473.9317	500.0000	94.8
062726.D	2-Fluorobiphenyl (surr)	Naphthalene-d8 (IS)	Calibration	10.599	222189	680146	0.3267	998.5342	1000.0000	99.9
062727.D	2-Fluorobiphenyl (surr)	Naphthalene-d8 (IS)	Calibration	10.599	569196	692264	0.8222	2513.2367	2500.0000	100.5

Quantitative Analysis Complete Report

2-Fluorobiphenyl (surr)

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
062728.D	2-Fluorobiphenyl (surr)	Naphthalene-d8 (IS)	Sample	10.599	84876	657139	0.1292	394.7934		
062729.D	2-Fluorobiphenyl (surr)	Naphthalene-d8 (IS)	Sample	10.600	107364	686536	0.1564	478.0106		

2-Chloronaphthalene

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
062718.D	2-Chloronaphthalene	Naphthalene-d8 (IS)	Calibration	10.768	1413	697782	0.0020	7.2106	10.0000	72.1
062719.D	2-Chloronaphthalene	Naphthalene-d8 (IS)	Calibration	10.764	2795	685054	0.0041	14.5319	20.0000	72.7
062720.D	2-Chloronaphthalene	Naphthalene-d8 (IS)	Calibration	10.763	5963	670003	0.0089	31.7033	40.0000	79.3
062721.D	2-Chloronaphthalene	Naphthalene-d8 (IS)	Calibration	10.760	15754	693591	0.0227	80.9065	100.0000	80.9
062722.D	2-Chloronaphthalene	Naphthalene-d8 (IS)	Calibration	10.759	33926	718177	0.0472	168.2601	200.0000	84.1
062723.D	2-Chloronaphthalene	Naphthalene-d8 (IS)	Calibration	10.760	88388	683869	0.1292	460.3690	500.0000	92.1
062724.D	2-Chloronaphthalene	Naphthalene-d8 (IS)	Calibration	10.760	134155	690376	0.1943	692.1602	750.0000	92.3
062725.D	2-Chloronaphthalene	Naphthalene-d8 (IS)	Calibration	10.759	189895	700252	0.2712	965.9294	1000.0000	96.6
062726.D	2-Chloronaphthalene	Naphthalene-d8 (IS)	Calibration	10.759	387559	680146	0.5698	2029.6541	2000.0000	101.5
062727.D	2-Chloronaphthalene	Naphthalene-d8 (IS)	Calibration	10.759	973567	692264	1.4064	5009.3368	5000.0000	100.2
062728.D	2-Chloronaphthalene	Naphthalene-d8 (IS)	Sample	10.766	0	657139	0.0000	ND		
062729.D	2-Chloronaphthalene	Naphthalene-d8 (IS)	Sample	10.760	168498	686536	0.2454	874.2116		

Dimethyl phthalate

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
062718.D	Dimethyl phthalate	Naphthalene-d8 (IS)	Calibration	11.098	1415	697782	0.0020	7.2250	10.0000	72.2
062719.D	Dimethyl phthalate	Naphthalene-d8 (IS)	Calibration	11.098	2733	685054	0.0040	14.2073	20.0000	71.0
062720.D	Dimethyl phthalate	Naphthalene-d8 (IS)	Calibration	11.097	5595	670003	0.0084	29.7281	40.0000	74.3
062721.D	Dimethyl phthalate	Naphthalene-d8 (IS)	Calibration	11.092	14692	693591	0.0212	75.3242	100.0000	75.3
062722.D	Dimethyl phthalate	Naphthalene-d8 (IS)	Calibration	11.091	33627	718177	0.0468	166.1577	200.0000	83.1
062723.D	Dimethyl phthalate	Naphthalene-d8 (IS)	Calibration	11.092	87817	683869	0.1284	452.7246	500.0000	90.5
062724.D	Dimethyl phthalate	Naphthalene-d8 (IS)	Calibration	11.092	136619	690376	0.1979	693.8768	750.0000	92.5
062725.D	Dimethyl phthalate	Naphthalene-d8 (IS)	Calibration	11.091	195567	700252	0.2793	973.1198	1000.0000	97.3
062726.D	Dimethyl phthalate	Naphthalene-d8 (IS)	Calibration	11.091	413833	680146	0.6084	2069.1363	2000.0000	103.5
062727.D	Dimethyl phthalate	Naphthalene-d8 (IS)	Calibration	11.097	1081439	692264	1.5622	4992.5832	5000.0000	99.9
062728.D	Dimethyl phthalate	Naphthalene-d8 (IS)	Sample	11.066	0	657139	0.0000	ND		
062729.D	Dimethyl phthalate	Naphthalene-d8 (IS)	Sample	11.092	173827	686536	0.2532	883.9947		

Acenaphthylene

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
062718.D	Acenaphthylene	Naphthalene-d8 (IS)	Calibration	11.283	1921	697782	0.0028	7.3217	10.0000	73.2
062719.D	Acenaphthylene	Naphthalene-d8 (IS)	Calibration	11.283	3689	685054	0.0054	14.3223	20.0000	71.6
062720.D	Acenaphthylene	Naphthalene-d8 (IS)	Calibration	11.282	7661	670003	0.0114	30.4017	40.0000	76.0
062721.D	Acenaphthylene	Naphthalene-d8 (IS)	Calibration	11.283	20162	693591	0.0291	77.2379	100.0000	77.2
062722.D	Acenaphthylene	Naphthalene-d8 (IS)	Calibration	11.282	44005	718177	0.0613	162.5847	200.0000	81.3

Quantitative Analysis Complete Report

Acenaphthylene

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
062723.D	Acenaphthylene	Naphthalene-d8 (IS)	Calibration	11.283	117930	683869	0.1724	455.4791	500.0000	91.1
062724.D	Acenaphthylene	Naphthalene-d8 (IS)	Calibration	11.283	181349	690376	0.2627	691.2697	750.0000	92.2
062725.D	Acenaphthylene	Naphthalene-d8 (IS)	Calibration	11.282	260780	700252	0.3724	975.7007	1000.0000	97.6
062726.D	Acenaphthylene	Naphthalene-d8 (IS)	Calibration	11.282	546343	680146	0.8033	2069.4271	2000.0000	103.5
062727.D	Acenaphthylene	Naphthalene-d8 (IS)	Calibration	11.282	1401303	692264	2.0242	4992.2718	5000.0000	99.8
062728.D	Acenaphthylene	Naphthalene-d8 (IS)	Sample	11.288	24	657139	0.0000	0.0990		
062729.D	Acenaphthylene	Naphthalene-d8 (IS)	Sample	11.283	230631	686536	0.3359	881.4281		

Acenaphthene

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
062718.D	Acenaphthene	Acenaphthene-d10 (IS)	Calibration	11.504	1606	228706	0.0070	10.1546	10.0000	101.5
062719.D	Acenaphthene	Acenaphthene-d10 (IS)	Calibration	11.504	3132	223609	0.0140	20.2526	20.0000	101.3
062720.D	Acenaphthene	Acenaphthene-d10 (IS)	Calibration	11.503	6385	218688	0.0292	42.2215	40.0000	105.6
062721.D	Acenaphthene	Acenaphthene-d10 (IS)	Calibration	11.504	16377	228701	0.0716	103.5501	100.0000	103.6
062722.D	Acenaphthene	Acenaphthene-d10 (IS)	Calibration	11.503	35009	242931	0.1441	208.3919	200.0000	104.2
062723.D	Acenaphthene	Acenaphthene-d10 (IS)	Calibration	11.504	88806	243610	0.3645	527.1394	500.0000	105.4
062724.D	Acenaphthene	Acenaphthene-d10 (IS)	Calibration	11.498	135038	255247	0.5290	765.0237	750.0000	102.0
062725.D	Acenaphthene	Acenaphthene-d10 (IS)	Calibration	11.503	184822	264944	0.6976	1008.7400	1000.0000	100.9
062726.D	Acenaphthene	Acenaphthene-d10 (IS)	Calibration	11.503	370515	260982	1.4197	2052.9390	2000.0000	102.6
062727.D	Acenaphthene	Acenaphthene-d10 (IS)	Calibration	11.503	942305	274075	3.4381	4971.6831	5000.0000	99.4
062728.D	Acenaphthene	Acenaphthene-d10 (IS)	Sample	11.503	0	216300	0.0000	ND		
062729.D	Acenaphthene	Acenaphthene-d10 (IS)	Sample	11.498	166241	259510	0.6406	926.3283		

Dibenzofuran

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
062718.D	Dibenzofuran	Acenaphthene-d10 (IS)	Calibration	11.725	2080	228706	0.0091	9.1315	10.0000	91.3
062719.D	Dibenzofuran	Acenaphthene-d10 (IS)	Calibration	11.725	4002	223609	0.0179	17.9722	20.0000	89.9
062720.D	Dibenzofuran	Acenaphthene-d10 (IS)	Calibration	11.724	8715	218688	0.0399	40.0152	40.0000	100.0
062721.D	Dibenzofuran	Acenaphthene-d10 (IS)	Calibration	11.725	22214	228701	0.0971	97.5349	100.0000	97.5
062722.D	Dibenzofuran	Acenaphthene-d10 (IS)	Calibration	11.718	49255	242931	0.2028	203.5939	200.0000	101.8
062723.D	Dibenzofuran	Acenaphthene-d10 (IS)	Calibration	11.719	126131	243610	0.5178	519.8997	500.0000	104.0
062724.D	Dibenzofuran	Acenaphthene-d10 (IS)	Calibration	11.719	191472	255247	0.7501	753.2491	750.0000	100.4
062725.D	Dibenzofuran	Acenaphthene-d10 (IS)	Calibration	11.718	265868	264944	1.0035	1007.6435	1000.0000	100.8
062726.D	Dibenzofuran	Acenaphthene-d10 (IS)	Calibration	11.718	541645	260982	2.0754	2084.0057	2000.0000	104.2
062727.D	Dibenzofuran	Acenaphthene-d10 (IS)	Calibration	11.718	1354433	274075	4.9418	4962.3070	5000.0000	99.2
062728.D	Dibenzofuran	Acenaphthene-d10 (IS)	Sample	11.730	0	216300	0.0000	ND		
062729.D	Dibenzofuran	Acenaphthene-d10 (IS)	Sample	11.719	238300	259510	0.9183	922.0721		

Diethylphthalate

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
062718.D	Diethylphthalate	Acenaphthene-d10 (IS)	Calibration	11.977	1357	228706	0.0059	7.7844	10.0000	77.8
062719.D	Diethylphthalate	Acenaphthene-d10 (IS)	Calibration	11.977	2601	223609	0.0116	15.2550	20.0000	76.3

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Diethylphthalate

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
062720.D	Diethylphthalate	Acenaphthene-d10 (IS)	Calibration	11.972	5327	218688	0.0244	31.9421	40.0000	79.9
062721.D	Diethylphthalate	Acenaphthene-d10 (IS)	Calibration	11.972	14070	228701	0.0615	80.6374	100.0000	80.6
062722.D	Diethylphthalate	Acenaphthene-d10 (IS)	Calibration	11.972	32784	242931	0.1350	176.7393	200.0000	88.4
062723.D	Diethylphthalate	Acenaphthene-d10 (IS)	Calibration	11.972	87707	243610	0.3600	470.3004	500.0000	94.1
062724.D	Diethylphthalate	Acenaphthene-d10 (IS)	Calibration	11.972	137848	255247	0.5401	704.0252	750.0000	93.9
062725.D	Diethylphthalate	Acenaphthene-d10 (IS)	Calibration	11.972	198956	264944	0.7509	976.6065	1000.0000	97.7
062726.D	Diethylphthalate	Acenaphthene-d10 (IS)	Calibration	11.972	416375	260982	1.5954	2055.5371	2000.0000	102.8
062727.D	Diethylphthalate	Acenaphthene-d10 (IS)	Calibration	11.972	1089229	274075	3.9742	4993.6960	5000.0000	99.9
062728.D	Diethylphthalate	Acenaphthene-d10 (IS)	Sample	11.977	0	216300	0.0000	ND		
062729.D	Diethylphthalate	Acenaphthene-d10 (IS)	Sample	11.972	177339	259510	0.6834	889.3958		

Fluorene

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
062718.D	Fluorene	Acenaphthene-d10 (IS)	Calibration	12.159	1543	228706	0.0067	8.7217	10.0000	87.2
062719.D	Fluorene	Acenaphthene-d10 (IS)	Calibration	12.159	3011	223609	0.0135	17.4055	20.0000	87.0
062720.D	Fluorene	Acenaphthene-d10 (IS)	Calibration	12.154	6281	218688	0.0287	37.1248	40.0000	92.8
062721.D	Fluorene	Acenaphthene-d10 (IS)	Calibration	12.154	16217	228701	0.0709	91.6535	100.0000	91.7
062722.D	Fluorene	Acenaphthene-d10 (IS)	Calibration	12.154	36826	242931	0.1516	195.9369	200.0000	98.0
062723.D	Fluorene	Acenaphthene-d10 (IS)	Calibration	12.154	95960	243610	0.3939	509.1336	500.0000	101.8
062724.D	Fluorene	Acenaphthene-d10 (IS)	Calibration	12.154	147253	255247	0.5769	745.6638	750.0000	99.4
062725.D	Fluorene	Acenaphthene-d10 (IS)	Calibration	12.154	208112	264944	0.7855	1015.2683	1000.0000	101.5
062726.D	Fluorene	Acenaphthene-d10 (IS)	Calibration	12.154	416297	260982	1.5951	2061.7303	2000.0000	103.1
062727.D	Fluorene	Acenaphthene-d10 (IS)	Calibration	12.154	1054367	274075	3.8470	4972.3567	5000.0000	99.4
062728.D	Fluorene	Acenaphthene-d10 (IS)	Sample	12.159	0	216300	0.0000	ND		
062729.D	Fluorene	Acenaphthene-d10 (IS)	Sample	12.149	184117	259510	0.7095	917.0206		

2,4,6-Tribromophenol

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
062718.D	2,4,6-Tribromophenol	Acenaphthene-d10 (IS)	Calibration	12.468	147	228706	0.0006	9.9683	10.0000	99.7
062719.D	2,4,6-Tribromophenol	Acenaphthene-d10 (IS)	Calibration	12.468	233	223609	0.0010	16.1537	20.0000	80.8
062720.D	2,4,6-Tribromophenol	Acenaphthene-d10 (IS)	Calibration	12.464	437	218688	0.0020	30.9849	40.0000	77.5
062721.D	2,4,6-Tribromophenol	Acenaphthene-d10 (IS)	Calibration	12.459	1108	228701	0.0048	75.0143	100.0000	75.0
062722.D	2,4,6-Tribromophenol	Acenaphthene-d10 (IS)	Calibration	12.459	2575	242931	0.0106	163.2883	200.0000	81.6
062723.D	2,4,6-Tribromophenol	Acenaphthene-d10 (IS)	Calibration	12.459	7261	243610	0.0298	451.7663	500.0000	90.4
062724.D	2,4,6-Tribromophenol	Acenaphthene-d10 (IS)	Calibration	12.454	11892	255247	0.0466	696.6736	750.0000	92.9
062725.D	2,4,6-Tribromophenol	Acenaphthene-d10 (IS)	Calibration	12.454	17379	264944	0.0656	966.5339	1000.0000	96.7
062726.D	2,4,6-Tribromophenol	Acenaphthene-d10 (IS)	Calibration	12.454	38793	260982	0.1486	2067.3570	2000.0000	103.4
062727.D	2,4,6-Tribromophenol	Acenaphthene-d10 (IS)	Calibration	12.454	113078	274075	0.4126	4993.6865	5000.0000	99.9
062728.D	2,4,6-Tribromophenol	Acenaphthene-d10 (IS)	Sample	12.459	10459	216300	0.0484	722.0267		
062729.D	2,4,6-Tribromophenol	Acenaphthene-d10 (IS)	Sample	12.454	18044	259510	0.0695	1021.4811		

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Pentachlorophenol

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
062718.D	Pentachlorophenol	Acenaphthene-d10 (IS)	Calibration	13.132	56	228706	0.0002	5.8943	10.0000	58.9
062719.D	Pentachlorophenol	Acenaphthene-d10 (IS)	Calibration	13.139	84	223609	0.0004	9.0587	20.0000	45.3
062720.D	Pentachlorophenol	Acenaphthene-d10 (IS)	Calibration	13.126	207	218688	0.0009	22.7557	40.0000	56.9
062721.D	Pentachlorophenol	Acenaphthene-d10 (IS)	Calibration	13.119	567	228701	0.0025	59.1778	100.0000	59.2
062722.D	Pentachlorophenol	Acenaphthene-d10 (IS)	Calibration	13.113	1564	242931	0.0064	150.1958	200.0000	75.1
062723.D	Pentachlorophenol	Acenaphthene-d10 (IS)	Calibration	13.105	4411	243610	0.0181	397.8026	500.0000	79.6
062724.D	Pentachlorophenol	Acenaphthene-d10 (IS)	Calibration	13.106	7961	255247	0.0312	647.2660	750.0000	86.3
062725.D	Pentachlorophenol	Acenaphthene-d10 (IS)	Calibration	13.099	12624	264944	0.0476	930.4986	1000.0000	93.0
062726.D	Pentachlorophenol	Acenaphthene-d10 (IS)	Calibration	13.099	34886	260982	0.1337	2098.9761	2000.0000	104.9
062727.D	Pentachlorophenol	Acenaphthene-d10 (IS)	Calibration	13.099	129446	274075	0.4723	4993.3202	5000.0000	99.9
062728.D	Pentachlorophenol	Acenaphthene-d10 (IS)	Sample	12.965	0	216300	0.0000	ND		
062729.D	Pentachlorophenol	Acenaphthene-d10 (IS)	Sample	13.099	11534	259510	0.0444	877.6347		

Phenanthrene

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
062718.D	Phenanthrene	Phenanthrene-d10 (IS)	Calibration	13.360	2491	440441	0.0057	9.1908	10.0000	91.9
062719.D	Phenanthrene	Phenanthrene-d10 (IS)	Calibration	13.360	4990	429816	0.0116	18.8661	20.0000	94.3
062720.D	Phenanthrene	Phenanthrene-d10 (IS)	Calibration	13.360	10144	416277	0.0244	39.5997	40.0000	99.0
062721.D	Phenanthrene	Phenanthrene-d10 (IS)	Calibration	13.360	26628	436244	0.0610	99.1915	100.0000	99.2
062722.D	Phenanthrene	Phenanthrene-d10 (IS)	Calibration	13.361	58696	477881	0.1228	199.5971	200.0000	99.8
062723.D	Phenanthrene	Phenanthrene-d10 (IS)	Calibration	13.360	144556	443700	0.3258	529.4336	500.0000	105.9
062724.D	Phenanthrene	Phenanthrene-d10 (IS)	Calibration	13.360	218547	458131	0.4770	775.2123	750.0000	103.4
062725.D	Phenanthrene	Phenanthrene-d10 (IS)	Calibration	13.360	301492	470263	0.6411	1041.8372	1000.0000	104.2
062726.D	Phenanthrene	Phenanthrene-d10 (IS)	Calibration	13.361	592651	460595	1.2867	2090.9561	2000.0000	104.5
062727.D	Phenanthrene	Phenanthrene-d10 (IS)	Calibration	13.361	1498833	492197	3.0452	4948.5666	5000.0000	99.0
062728.D	Phenanthrene	Phenanthrene-d10 (IS)	Sample	13.360	0	416778	0.0000	ND		
062729.D	Phenanthrene	Phenanthrene-d10 (IS)	Sample	13.360	268112	458545	0.5847	950.1660		

Anthracene

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
062718.D	Anthracene	Phenanthrene-d10 (IS)	Calibration	13.427	2113	440441	0.0048	7.7200	10.0000	77.2
062719.D	Anthracene	Phenanthrene-d10 (IS)	Calibration	13.427	4083	429816	0.0095	15.2863	20.0000	76.4
062720.D	Anthracene	Phenanthrene-d10 (IS)	Calibration	13.427	8300	416277	0.0199	32.0850	40.0000	80.2
062721.D	Anthracene	Phenanthrene-d10 (IS)	Calibration	13.427	22060	436244	0.0506	81.3734	100.0000	81.4
062722.D	Anthracene	Phenanthrene-d10 (IS)	Calibration	13.428	51110	477881	0.1070	172.1046	200.0000	86.1
062723.D	Anthracene	Phenanthrene-d10 (IS)	Calibration	13.427	132671	443700	0.2990	481.1631	500.0000	96.2
062724.D	Anthracene	Phenanthrene-d10 (IS)	Calibration	13.427	208111	458131	0.4543	730.9907	750.0000	97.5
062725.D	Anthracene	Phenanthrene-d10 (IS)	Calibration	13.428	292230	470263	0.6214	999.9766	1000.0000	100.0
062726.D	Anthracene	Phenanthrene-d10 (IS)	Calibration	13.428	596225	460595	1.2945	2083.0373	2000.0000	104.2
062727.D	Anthracene	Phenanthrene-d10 (IS)	Calibration	13.428	1521108	492197	3.0904	4973.0999	5000.0000	99.5
062728.D	Anthracene	Phenanthrene-d10 (IS)	Sample	13.434	0	416778	0.0000	ND		

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Anthracene										
Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
062729.D	Anthracene	Phenanthrene-d10 (IS)	Sample	13.427	258936	458545	0.5647	908.6919		

Carbazole										
Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
062718.D	Carbazole	Phenanthrene-d10 (IS)	Calibration	13.637	1923	440441	0.0044	7.5953	10.0000	76.0
062719.D	Carbazole	Phenanthrene-d10 (IS)	Calibration	13.637	3614	429816	0.0084	14.6298	20.0000	73.1
062720.D	Carbazole	Phenanthrene-d10 (IS)	Calibration	13.634	7460	416277	0.0179	31.1752	40.0000	77.9
062721.D	Carbazole	Phenanthrene-d10 (IS)	Calibration	13.634	19202	436244	0.0440	76.5777	100.0000	76.6
062722.D	Carbazole	Phenanthrene-d10 (IS)	Calibration	13.630	45154	477881	0.0945	164.3840	200.0000	82.2
062723.D	Carbazole	Phenanthrene-d10 (IS)	Calibration	13.626	119470	443700	0.2693	468.4353	500.0000	93.7
062724.D	Carbazole	Phenanthrene-d10 (IS)	Calibration	13.626	188964	458131	0.4125	717.5781	750.0000	95.7
062725.D	Carbazole	Phenanthrene-d10 (IS)	Calibration	13.626	266274	470263	0.5662	985.0714	1000.0000	98.5
062726.D	Carbazole	Phenanthrene-d10 (IS)	Calibration	13.623	556681	460595	1.2086	2102.6523	2000.0000	105.1
062727.D	Carbazole	Phenanthrene-d10 (IS)	Calibration	13.623	1406643	492197	2.8579	4971.9345	5000.0000	99.4
062728.D	Carbazole	Phenanthrene-d10 (IS)	Sample	13.641	0	416778	0.0000	ND		
062729.D	Carbazole	Phenanthrene-d10 (IS)	Sample	13.622	239565	458545	0.5224	908.9122		

Di-n-butyl phthalate										
Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
062718.D	Di-n-butyl phthalate	Phenanthrene-d10 (IS)	Calibration	14.024	2027	440441	0.0046	7.1131	10.0000	71.1
062719.D	Di-n-butyl phthalate	Phenanthrene-d10 (IS)	Calibration	14.024	3772	429816	0.0088	13.5628	20.0000	67.8
062720.D	Di-n-butyl phthalate	Phenanthrene-d10 (IS)	Calibration	14.024	7668	416277	0.0184	28.4548	40.0000	71.1
062721.D	Di-n-butyl phthalate	Phenanthrene-d10 (IS)	Calibration	14.024	19814	436244	0.0454	70.0780	100.0000	70.1
062722.D	Di-n-butyl phthalate	Phenanthrene-d10 (IS)	Calibration	14.021	47607	477881	0.0996	153.3224	200.0000	76.7
062723.D	Di-n-butyl phthalate	Phenanthrene-d10 (IS)	Calibration	14.020	125956	443700	0.2839	433.2870	500.0000	86.7
062724.D	Di-n-butyl phthalate	Phenanthrene-d10 (IS)	Calibration	14.021	204116	458131	0.4455	675.2067	750.0000	90.0
062725.D	Di-n-butyl phthalate	Phenanthrene-d10 (IS)	Calibration	14.021	301276	470263	0.6407	962.7652	1000.0000	96.3
062726.D	Di-n-butyl phthalate	Phenanthrene-d10 (IS)	Calibration	14.021	662471	460595	1.4383	2092.5937	2000.0000	104.6
062727.D	Di-n-butyl phthalate	Phenanthrene-d10 (IS)	Calibration	14.021	1826166	492197	3.7102	4990.3598	5000.0000	99.8
062728.D	Di-n-butyl phthalate	Phenanthrene-d10 (IS)	Sample	14.024	50	416778	0.0001	0.1850		
062729.D	Di-n-butyl phthalate	Phenanthrene-d10 (IS)	Sample	14.020	269511	458545	0.5878	885.2628		

Fluoranthene										
Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
062718.D	Fluoranthene	Phenanthrene-d10 (IS)	Calibration	14.893	2334	440441	0.0053	7.9817	10.0000	79.8
062719.D	Fluoranthene	Phenanthrene-d10 (IS)	Calibration	14.893	4391	429816	0.0102	15.3921	20.0000	77.0
062720.D	Fluoranthene	Phenanthrene-d10 (IS)	Calibration	14.890	9081	416277	0.0218	32.8624	40.0000	82.2
062721.D	Fluoranthene	Phenanthrene-d10 (IS)	Calibration	14.890	23349	436244	0.0535	80.6314	100.0000	80.6
062722.D	Fluoranthene	Phenanthrene-d10 (IS)	Calibration	14.885	53121	477881	0.1112	167.4629	200.0000	83.7
062723.D	Fluoranthene	Phenanthrene-d10 (IS)	Calibration	14.885	135308	443700	0.3050	459.4146	500.0000	91.9
062724.D	Fluoranthene	Phenanthrene-d10 (IS)	Calibration	14.885	213190	458131	0.4653	701.0501	750.0000	93.5
062725.D	Fluoranthene	Phenanthrene-d10 (IS)	Calibration	14.885	304623	470263	0.6478	975.8712	1000.0000	97.6

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Fluoranthene

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
062726.D	Fluoranthene	Phenanthrene-d10 (IS)	Calibration	14.885	631548	460595	1.3712	2065.6547	2000.0000	103.3
062727.D	Fluoranthene	Phenanthrene-d10 (IS)	Calibration	14.883	1630871	492197	3.3135	4991.7333	5000.0000	99.8
062728.D	Fluoranthene	Phenanthrene-d10 (IS)	Sample	14.893	0	416778	0.0000	ND		
062729.D	Fluoranthene	Phenanthrene-d10 (IS)	Sample	14.882	272100	458545	0.5934	893.9592		

Pyrene

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
062718.D	Pyrene	Phenanthrene-d10 (IS)	Calibration	15.229	2768	440441	0.0063	8.8788	10.0000	88.8
062719.D	Pyrene	Phenanthrene-d10 (IS)	Calibration	15.229	4886	429816	0.0114	16.0610	20.0000	80.3
062720.D	Pyrene	Phenanthrene-d10 (IS)	Calibration	15.227	10006	416277	0.0240	33.9625	40.0000	84.9
062721.D	Pyrene	Phenanthrene-d10 (IS)	Calibration	15.224	25184	436244	0.0577	81.5707	100.0000	81.6
062722.D	Pyrene	Phenanthrene-d10 (IS)	Calibration	15.224	59145	477881	0.1238	174.8792	200.0000	87.4
062723.D	Pyrene	Phenanthrene-d10 (IS)	Calibration	15.221	152290	443700	0.3432	484.9763	500.0000	97.0
062724.D	Pyrene	Phenanthrene-d10 (IS)	Calibration	15.221	239492	458131	0.5228	738.6523	750.0000	98.5
062725.D	Pyrene	Phenanthrene-d10 (IS)	Calibration	15.221	337268	470263	0.7172	1013.3795	1000.0000	101.3
062726.D	Pyrene	Phenanthrene-d10 (IS)	Calibration	15.219	685861	460595	1.4891	2104.0458	2000.0000	105.2
062727.D	Pyrene	Phenanthrene-d10 (IS)	Calibration	15.220	1727878	492197	3.5105	4960.3500	5000.0000	99.2
062728.D	Pyrene	Phenanthrene-d10 (IS)	Sample	15.229	211	416778	0.0005	0.7157		
062729.D	Pyrene	Phenanthrene-d10 (IS)	Sample	15.219	304445	458545	0.6639	938.1331		

Terphenyl-d14 (surr)

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
062718.D	Terphenyl-d14 (surr)	Phenanthrene-d10 (IS)	Calibration	15.439	839	440441	0.0019	4.5685	5.0000	91.4
062719.D	Terphenyl-d14 (surr)	Phenanthrene-d10 (IS)	Calibration	15.439	1484	429816	0.0035	8.2821	10.0000	82.8
062720.D	Terphenyl-d14 (surr)	Phenanthrene-d10 (IS)	Calibration	15.439	2907	416277	0.0070	16.7475	20.0000	83.7
062721.D	Terphenyl-d14 (surr)	Phenanthrene-d10 (IS)	Calibration	15.437	7317	436244	0.0168	40.2256	50.0000	80.5
062722.D	Terphenyl-d14 (surr)	Phenanthrene-d10 (IS)	Calibration	15.434	16665	477881	0.0349	83.6308	100.0000	83.6
062723.D	Terphenyl-d14 (surr)	Phenanthrene-d10 (IS)	Calibration	15.434	43028	443700	0.0970	232.5594	250.0000	93.0
062724.D	Terphenyl-d14 (surr)	Phenanthrene-d10 (IS)	Calibration	15.432	66754	458131	0.1457	349.4310	375.0000	93.2
062725.D	Terphenyl-d14 (surr)	Phenanthrene-d10 (IS)	Calibration	15.432	94483	470263	0.2009	481.8208	500.0000	96.4
062726.D	Terphenyl-d14 (surr)	Phenanthrene-d10 (IS)	Calibration	15.432	195699	460595	0.4249	1018.9288	1000.0000	101.9
062727.D	Terphenyl-d14 (surr)	Phenanthrene-d10 (IS)	Calibration	15.429	513621	492197	1.0435	2502.5277	2500.0000	100.1
062728.D	Terphenyl-d14 (surr)	Phenanthrene-d10 (IS)	Sample	15.434	72080	416778	0.1729	414.7458		
062729.D	Terphenyl-d14 (surr)	Phenanthrene-d10 (IS)	Sample	15.431	96104	458545	0.2096	502.6158		

Benzyl Butyl phthalate

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
062718.D	Benzyl Butyl phthalate	Phenanthrene-d10 (IS)	Calibration	16.328	703	440441	0.0016	13.9848	10.0000	139.8
062719.D	Benzyl Butyl phthalate	Phenanthrene-d10 (IS)	Calibration	16.333	1317	429816	0.0031	21.2896	20.0000	106.4
062720.D	Benzyl Butyl phthalate	Phenanthrene-d10 (IS)	Calibration	16.333	2606	416277	0.0063	37.1472	40.0000	92.9
062721.D	Benzyl Butyl phthalate	Phenanthrene-d10 (IS)	Calibration	16.328	6874	436244	0.0158	83.9366	100.0000	83.9
062722.D	Benzyl Butyl phthalate	Phenanthrene-d10 (IS)	Calibration	16.328	16095	477881	0.0337	170.8995	200.0000	85.4

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Benzyl Butyl phthalate

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
062723.D	Benzyl Butyl phthalate	Phenanthrene-d10 (IS)	Calibration	16.328	42041	443700	0.0948	455.2348	500.0000	91.0
062724.D	Benzyl Butyl phthalate	Phenanthrene-d10 (IS)	Calibration	16.328	69392	458131	0.1515	704.7853	750.0000	94.0
062725.D	Benzyl Butyl phthalate	Phenanthrene-d10 (IS)	Calibration	16.328	104051	470263	0.2213	995.6695	1000.0000	99.6
062726.D	Benzyl Butyl phthalate	Phenanthrene-d10 (IS)	Calibration	16.328	247946	460595	0.5383	2153.5033	2000.0000	107.7
062727.D	Benzyl Butyl phthalate	Phenanthrene-d10 (IS)	Calibration	16.328	772460	492197	1.5694	4965.0440	5000.0000	99.3
062728.D	Benzyl Butyl phthalate	Phenanthrene-d10 (IS)	Sample			416778		ND		
062729.D	Benzyl Butyl phthalate	Phenanthrene-d10 (IS)	Sample	16.323	94173	458545	0.2054	930.8842		

bis (2-Ethylhexyl) adipate

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
062718.D	bis (2-Ethylhexyl) adipate	Phenanthrene-d10 (IS)	Calibration	16.480	445	440441	0.0010	5.5422	10.0000	55.4
062719.D	bis (2-Ethylhexyl) adipate	Phenanthrene-d10 (IS)	Calibration	16.480	1042	429816	0.0024	13.2772	20.0000	66.4
062720.D	bis (2-Ethylhexyl) adipate	Phenanthrene-d10 (IS)	Calibration	16.485	2860	416277	0.0069	37.5545	40.0000	93.9
062721.D	bis (2-Ethylhexyl) adipate	Phenanthrene-d10 (IS)	Calibration	16.480	5240	436244	0.0120	65.4950	100.0000	65.5
062722.D	bis (2-Ethylhexyl) adipate	Phenanthrene-d10 (IS)	Calibration	16.481	17629	477881	0.0369	198.6912	200.0000	99.3
062723.D	bis (2-Ethylhexyl) adipate	Phenanthrene-d10 (IS)	Calibration	16.480	33336	443700	0.0751	397.4697	500.0000	79.5
062724.D	bis (2-Ethylhexyl) adipate	Phenanthrene-d10 (IS)	Calibration	16.475	56007	458131	0.1223	633.3871	750.0000	84.5
062725.D	bis (2-Ethylhexyl) adipate	Phenanthrene-d10 (IS)	Calibration	16.480	85502	470263	0.1818	919.0138	1000.0000	91.9
062726.D	bis (2-Ethylhexyl) adipate	Phenanthrene-d10 (IS)	Calibration	16.481	214060	460595	0.4647	2129.0511	2000.0000	106.5
062727.D	bis (2-Ethylhexyl) adipate	Phenanthrene-d10 (IS)	Calibration	16.481	654755	492197	1.3303	4989.2791	5000.0000	99.8
062728.D	bis (2-Ethylhexyl) adipate	Phenanthrene-d10 (IS)	Sample	16.441	0	416778	0.0000	ND		
062729.D	bis (2-Ethylhexyl) adipate	Phenanthrene-d10 (IS)	Sample	16.475	82693	458545	0.1803	912.0823		

Benzo (a) anthracene

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
062718.D	Benzo (a) anthracene	Phenanthrene-d10 (IS)	Calibration	17.529	3145	440441	0.0071	12.1007	10.0000	121.0
062719.D	Benzo (a) anthracene	Phenanthrene-d10 (IS)	Calibration	17.529	4759	429816	0.0111	18.7606	20.0000	93.8
062720.D	Benzo (a) anthracene	Phenanthrene-d10 (IS)	Calibration	17.529	8742	416277	0.0210	35.5699	40.0000	88.9
062721.D	Benzo (a) anthracene	Phenanthrene-d10 (IS)	Calibration	17.529	21607	436244	0.0495	83.8036	100.0000	83.8
062722.D	Benzo (a) anthracene	Phenanthrene-d10 (IS)	Calibration	17.522	49274	477881	0.1031	174.1173	200.0000	87.1
062723.D	Benzo (a) anthracene	Phenanthrene-d10 (IS)	Calibration	17.522	120002	443700	0.2705	453.9491	500.0000	90.8
062724.D	Benzo (a) anthracene	Phenanthrene-d10 (IS)	Calibration	17.522	189142	458131	0.4129	689.4484	750.0000	91.9
062725.D	Benzo (a) anthracene	Phenanthrene-d10 (IS)	Calibration	17.522	272088	470263	0.5786	960.6073	1000.0000	96.1

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Benzo (a) anthracene

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
062726.D	Benzo (a) anthracene	Phenanthrene-d10 (IS)	Calibration	17.522	589960	460595	1.2809	2076.9934	2000.0000	103.8
062727.D	Benzo (a) anthracene	Phenanthrene-d10 (IS)	Calibration	17.522	1607459	492197	3.2659	4991.9152	5000.0000	99.8
062728.D	Benzo (a) anthracene	Phenanthrene-d10 (IS)	Sample	17.543	0	416778	0.0000	ND		
062729.D	Benzo (a) anthracene	Phenanthrene-d10 (IS)	Sample	17.522	244564	458545	0.5333	886.8972		

bis(2-Ethylhexyl) phthalate

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
062718.D	bis(2-Ethylhexyl) phthalate	Chrysene-d12 (IS)	Calibration	17.565	1170	336716	0.0035	7.6691	10.0000	76.7
062719.D	bis(2-Ethylhexyl) phthalate	Chrysene-d12 (IS)	Calibration	17.558	2074	321570	0.0065	14.2323	20.0000	71.2
062720.D	bis(2-Ethylhexyl) phthalate	Chrysene-d12 (IS)	Calibration	17.558	4213	312908	0.0135	29.6830	40.0000	74.2
062721.D	bis(2-Ethylhexyl) phthalate	Chrysene-d12 (IS)	Calibration	17.558	10847	331899	0.0327	71.8861	100.0000	71.9
062722.D	bis(2-Ethylhexyl) phthalate	Chrysene-d12 (IS)	Calibration	17.558	26448	372919	0.0709	155.2821	200.0000	77.6
062723.D	bis(2-Ethylhexyl) phthalate	Chrysene-d12 (IS)	Calibration	17.558	71139	354084	0.2009	433.3154	500.0000	86.7
062724.D	bis(2-Ethylhexyl) phthalate	Chrysene-d12 (IS)	Calibration	17.558	121714	377298	0.3226	686.4264	750.0000	91.5
062725.D	bis(2-Ethylhexyl) phthalate	Chrysene-d12 (IS)	Calibration	17.558	184137	395428	0.4657	975.8772	1000.0000	97.6
062726.D	bis(2-Ethylhexyl) phthalate	Chrysene-d12 (IS)	Calibration	17.558	417506	398975	1.0464	2074.0360	2000.0000	103.7
062727.D	bis(2-Ethylhexyl) phthalate	Chrysene-d12 (IS)	Calibration	17.558	1192526	413741	2.8823	4992.8370	5000.0000	99.9
062728.D	bis(2-Ethylhexyl) phthalate	Chrysene-d12 (IS)	Sample	17.558	0	315240	0.0000	ND		
062729.D	bis(2-Ethylhexyl) phthalate	Chrysene-d12 (IS)	Sample	17.558	163364	387316	0.4218	887.9939		

Chrysene

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
062718.D	Chrysene	Chrysene-d12 (IS)	Calibration	17.594	2846	336716	0.0085	10.6295	10.0000	106.3
062719.D	Chrysene	Chrysene-d12 (IS)	Calibration	17.594	5335	321570	0.0166	20.8641	20.0000	104.3
062720.D	Chrysene	Chrysene-d12 (IS)	Calibration	17.601	11013	312908	0.0352	44.2619	40.0000	110.7
062721.D	Chrysene	Chrysene-d12 (IS)	Calibration	17.594	28383	331899	0.0855	107.5459	100.0000	107.5
062722.D	Chrysene	Chrysene-d12 (IS)	Calibration	17.594	62481	372919	0.1675	210.7051	200.0000	105.4
062723.D	Chrysene	Chrysene-d12 (IS)	Calibration	17.594	155994	354084	0.4406	554.0417	500.0000	110.8
062724.D	Chrysene	Chrysene-d12 (IS)	Calibration	17.594	239391	377298	0.6345	797.9300	750.0000	106.4
062725.D	Chrysene	Chrysene-d12 (IS)	Calibration	17.594	328878	395428	0.8317	1045.9443	1000.0000	104.6
062726.D	Chrysene	Chrysene-d12 (IS)	Calibration	17.594	645009	398975	1.6167	2033.1102	2000.0000	101.7
062727.D	Chrysene	Chrysene-d12 (IS)	Calibration	17.594	1633242	413741	3.9475	4964.3555	5000.0000	99.3
062728.D	Chrysene	Chrysene-d12 (IS)	Sample	17.594	76	315240	0.0002	0.3032		

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Chrysene

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
062729.D	Chrysene	Chrysene-d12 (IS)	Sample	17.594	287659	387316	0.7427	934.0161		

Di-n-octyl phthalate

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
062718.D	Di-n-octyl phthalate	Chrysene-d12 (IS)	Calibration	18.714	1329	336716	0.0039	12.5640	10.0000	125.6
062719.D	Di-n-octyl phthalate	Chrysene-d12 (IS)	Calibration	18.722	2559	321570	0.0080	20.4783	20.0000	102.4
062720.D	Di-n-octyl phthalate	Chrysene-d12 (IS)	Calibration	18.715	5607	312908	0.0179	40.0547	40.0000	100.1
062721.D	Di-n-octyl phthalate	Chrysene-d12 (IS)	Calibration	18.714	14348	331899	0.0432	89.2618	100.0000	89.3
062722.D	Di-n-octyl phthalate	Chrysene-d12 (IS)	Calibration	18.715	34275	372919	0.0919	181.8611	200.0000	90.9
062723.D	Di-n-octyl phthalate	Chrysene-d12 (IS)	Calibration	18.714	89364	354084	0.2524	470.3966	500.0000	94.1
062724.D	Di-n-octyl phthalate	Chrysene-d12 (IS)	Calibration	18.715	147367	377298	0.3906	701.6352	750.0000	93.6
062725.D	Di-n-octyl phthalate	Chrysene-d12 (IS)	Calibration	18.715	226826	395428	0.5736	988.0682	1000.0000	98.8
062726.D	Di-n-octyl phthalate	Chrysene-d12 (IS)	Calibration	18.715	568967	398975	1.4261	2121.0535	2000.0000	106.1
062727.D	Di-n-octyl phthalate	Chrysene-d12 (IS)	Calibration	18.715	1854663	413741	4.4827	4975.3628	5000.0000	99.5
062728.D	Di-n-octyl phthalate	Chrysene-d12 (IS)	Sample	18.787	0	315240	0.0000	ND		
062729.D	Di-n-octyl phthalate	Chrysene-d12 (IS)	Sample	18.714	205345	387316	0.5302	921.8991		

benzo (b) fluoranthene

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
062718.D	benzo (b) fluoranthene	Chrysene-d12 (IS)	Calibration	19.352	1985	336716	0.0059	8.3626	10.0000	83.6
062719.D	benzo (b) fluoranthene	Chrysene-d12 (IS)	Calibration	19.351	3688	321570	0.0115	16.2665	20.0000	81.3
062720.D	benzo (b) fluoranthene	Chrysene-d12 (IS)	Calibration	19.352	7334	312908	0.0234	33.2323	40.0000	83.1
062721.D	benzo (b) fluoranthene	Chrysene-d12 (IS)	Calibration	19.351	19592	331899	0.0590	83.6165	100.0000	83.6
062722.D	benzo (b) fluoranthene	Chrysene-d12 (IS)	Calibration	19.347	45273	372919	0.1214	171.6779	200.0000	85.8
062723.D	benzo (b) fluoranthene	Chrysene-d12 (IS)	Calibration	19.347	115808	354084	0.3271	459.9821	500.0000	92.0
062724.D	benzo (b) fluoranthene	Chrysene-d12 (IS)	Calibration	19.347	184636	377298	0.4894	685.3146	750.0000	91.4
062725.D	benzo (b) fluoranthene	Chrysene-d12 (IS)	Calibration	19.347	270088	395428	0.6830	951.7372	1000.0000	95.2
062726.D	benzo (b) fluoranthene	Chrysene-d12 (IS)	Calibration	19.343	609292	398975	1.5271	2083.6400	2000.0000	104.2
062727.D	benzo (b) fluoranthene	Chrysene-d12 (IS)	Calibration	19.347	1594464	413741	3.8538	4991.2101	5000.0000	99.8
062728.D	benzo (b) fluoranthene	Chrysene-d12 (IS)	Sample	19.352	44	315240	0.0001	0.1980		
062729.D	benzo (b) fluoranthene	Chrysene-d12 (IS)	Sample	19.343	235020	387316	0.6068	847.1747		

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benzo (k) fluoranthene

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
062718.D	benzo (k) fluoranthene	Chrysene-d12 (IS)	Calibration	19.391	1946	336716	0.0058	7.0865	10.0000	70.9
062719.D	benzo (k) fluoranthene	Chrysene-d12 (IS)	Calibration	19.391	3696	321570	0.0115	14.0932	20.0000	70.5
062720.D	benzo (k) fluoranthene	Chrysene-d12 (IS)	Calibration	19.391	8417	312908	0.0269	32.9832	40.0000	82.5
062721.D	benzo (k) fluoranthene	Chrysene-d12 (IS)	Calibration	19.391	23227	331899	0.0700	85.8105	100.0000	85.8
062722.D	benzo (k) fluoranthene	Chrysene-d12 (IS)	Calibration	19.387	53882	372919	0.1445	177.1669	200.0000	88.6
062723.D	benzo (k) fluoranthene	Chrysene-d12 (IS)	Calibration	19.387	142402	354084	0.4022	493.1310	500.0000	98.6
062724.D	benzo (k) fluoranthene	Chrysene-d12 (IS)	Calibration	19.382	227754	377298	0.6036	740.1754	750.0000	98.7
062725.D	benzo (k) fluoranthene	Chrysene-d12 (IS)	Calibration	19.383	326347	395428	0.8253	1011.9640	1000.0000	101.2
062726.D	benzo (k) fluoranthene	Chrysene-d12 (IS)	Calibration	19.383	653930	398975	1.6390	2009.7318	2000.0000	100.5
062727.D	benzo (k) fluoranthene	Chrysene-d12 (IS)	Calibration	19.387	1686161	413741	4.0754	4997.1578	5000.0000	99.9
062728.D	benzo (k) fluoranthene	Chrysene-d12 (IS)	Sample	19.396	44	315240	0.0001	0.1711		
062729.D	benzo (k) fluoranthene	Chrysene-d12 (IS)	Sample	19.382	292428	387316	0.7550	925.7784		

benzo (a) pyrene

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
062718.D	benzo (a) pyrene	Chrysene-d12 (IS)	Calibration	19.823	1543	336716	0.0046	7.5458	10.0000	75.5
062719.D	benzo (a) pyrene	Chrysene-d12 (IS)	Calibration	19.823	2942	321570	0.0091	15.0593	20.0000	75.3
062720.D	benzo (a) pyrene	Chrysene-d12 (IS)	Calibration	19.823	6080	312908	0.0194	31.9684	40.0000	79.9
062721.D	benzo (a) pyrene	Chrysene-d12 (IS)	Calibration	19.823	15880	331899	0.0478	78.6063	100.0000	78.6
062722.D	benzo (a) pyrene	Chrysene-d12 (IS)	Calibration	19.819	38570	372919	0.1034	169.4664	200.0000	84.7
062723.D	benzo (a) pyrene	Chrysene-d12 (IS)	Calibration	19.819	100693	354084	0.2844	461.9428	500.0000	92.4
062724.D	benzo (a) pyrene	Chrysene-d12 (IS)	Calibration	19.819	164188	377298	0.4352	701.9327	750.0000	93.6
062725.D	benzo (a) pyrene	Chrysene-d12 (IS)	Calibration	19.819	239905	395428	0.6067	970.9757	1000.0000	97.1
062726.D	benzo (a) pyrene	Chrysene-d12 (IS)	Calibration	19.819	530149	398975	1.3288	2061.4310	2000.0000	103.1
062727.D	benzo (a) pyrene	Chrysene-d12 (IS)	Calibration	19.819	1441535	413741	3.4841	4993.6739	5000.0000	99.9
062728.D	benzo (a) pyrene	Chrysene-d12 (IS)	Sample	19.898	0	315240	0.0000	ND		
062729.D	benzo (a) pyrene	Chrysene-d12 (IS)	Sample	19.815	214981	387316	0.5551	890.4053		

Indeno(1,2,3-cd)pyrene

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
062718.D	Indeno(1,2,3-cd)pyrene	Perylene-d12 (IS)	Calibration	21.676	2228	399665	0.0056	8.0162	10.0000	80.2
062719.D	Indeno(1,2,3-cd)pyrene	Perylene-d12 (IS)	Calibration	21.671	4067	379248	0.0107	15.4236	20.0000	77.1

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Indeno(1,2,3-cd)pyrene

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
062720.D	Indeno(1,2,3-cd)pyrene	Perylene-d12 (IS)	Calibration	21.666	8460	369075	0.0229	32.9537	40.0000	82.4
062721.D	Indeno(1,2,3-cd)pyrene	Perylene-d12 (IS)	Calibration	21.661	22512	389811	0.0578	82.9473	100.0000	82.9
062722.D	Indeno(1,2,3-cd)pyrene	Perylene-d12 (IS)	Calibration	21.656	50214	431976	0.1162	166.6968	200.0000	83.3
062723.D	Indeno(1,2,3-cd)pyrene	Perylene-d12 (IS)	Calibration	21.651	132903	407997	0.3257	464.5573	500.0000	92.9
062724.D	Indeno(1,2,3-cd)pyrene	Perylene-d12 (IS)	Calibration	21.646	210969	431879	0.4885	693.7144	750.0000	92.5
062725.D	Indeno(1,2,3-cd)pyrene	Perylene-d12 (IS)	Calibration	21.651	304021	443932	0.6848	967.6665	1000.0000	96.8
062726.D	Indeno(1,2,3-cd)pyrene	Perylene-d12 (IS)	Calibration	21.646	660335	442161	1.4934	2068.4756	2000.0000	103.4
062727.D	Indeno(1,2,3-cd)pyrene	Perylene-d12 (IS)	Calibration	21.646	1754763	462514	3.7940	4992.6463	5000.0000	99.9
062728.D	Indeno(1,2,3-cd)pyrene	Perylene-d12 (IS)	Sample	21.686	0	373602	0.0000	ND		
062729.D	Indeno(1,2,3-cd)pyrene	Perylene-d12 (IS)	Sample	21.646	268729	439023	0.6121	866.5045		

Dibenz (a,h) anthracene

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
062718.D	Dibenz (a,h) anthracene	Perylene-d12 (IS)	Calibration	21.690	1786	399665	0.0045	7.6123	10.0000	76.1
062719.D	Dibenz (a,h) anthracene	Perylene-d12 (IS)	Calibration	21.690	3155	379248	0.0083	14.1648	20.0000	70.8
062720.D	Dibenz (a,h) anthracene	Perylene-d12 (IS)	Calibration	21.686	6760	369075	0.0183	31.1866	40.0000	78.0
062721.D	Dibenz (a,h) anthracene	Perylene-d12 (IS)	Calibration	21.681	18187	389811	0.0467	79.3949	100.0000	79.4
062722.D	Dibenz (a,h) anthracene	Perylene-d12 (IS)	Calibration	21.671	41346	431976	0.0957	162.7215	200.0000	81.4
062723.D	Dibenz (a,h) anthracene	Perylene-d12 (IS)	Calibration	21.666	110333	407997	0.2704	458.2460	500.0000	91.6
062724.D	Dibenz (a,h) anthracene	Perylene-d12 (IS)	Calibration	21.666	176751	431879	0.4093	691.7130	750.0000	92.2
062725.D	Dibenz (a,h) anthracene	Perylene-d12 (IS)	Calibration	21.666	257002	443932	0.5789	975.4046	1000.0000	97.5
062726.D	Dibenz (a,h) anthracene	Perylene-d12 (IS)	Calibration	21.661	549516	442161	1.2428	2068.9995	2000.0000	103.4
062727.D	Dibenz (a,h) anthracene	Perylene-d12 (IS)	Calibration	21.661	1431094	462514	3.0942	4992.1612	5000.0000	99.8
062728.D	Dibenz (a,h) anthracene	Perylene-d12 (IS)	Sample	21.695	0	373602	0.0000	ND		
062729.D	Dibenz (a,h) anthracene	Perylene-d12 (IS)	Sample	21.656	226217	439023	0.5153	869.1844		

Quantitative Analysis Complete Report

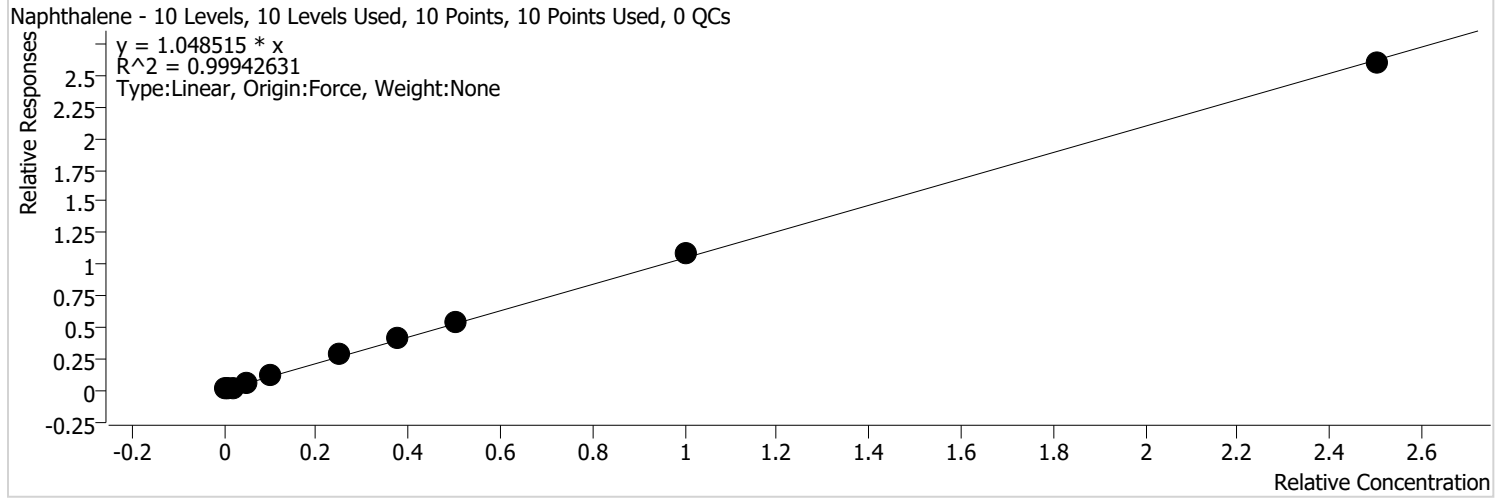
Benzo (g,h,i) perylene

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
062718.D	Benzo (g,h,i) perylene	Perylene-d12 (IS)	Calibration	22.173	2141	399665	0.0054	9.0178	10.0000	90.2
062719.D	Benzo (g,h,i) perylene	Perylene-d12 (IS)	Calibration	22.173	3792	379248	0.0100	16.8312	20.0000	84.2
062720.D	Benzo (g,h,i) perylene	Perylene-d12 (IS)	Calibration	22.168	7773	369075	0.0211	35.4470	40.0000	88.6
062721.D	Benzo (g,h,i) perylene	Perylene-d12 (IS)	Calibration	22.163	19908	389811	0.0511	85.8832	100.0000	85.9
062722.D	Benzo (g,h,i) perylene	Perylene-d12 (IS)	Calibration	22.158	43723	431976	0.1012	169.9936	200.0000	85.0
062723.D	Benzo (g,h,i) perylene	Perylene-d12 (IS)	Calibration	22.158	112820	407997	0.2765	462.3247	500.0000	92.5
062724.D	Benzo (g,h,i) perylene	Perylene-d12 (IS)	Calibration	22.153	177923	431879	0.4120	686.4220	750.0000	91.5
062725.D	Benzo (g,h,i) perylene	Perylene-d12 (IS)	Calibration	22.153	259340	443932	0.5842	969.1536	1000.0000	96.9
062726.D	Benzo (g,h,i) perylene	Perylene-d12 (IS)	Calibration	22.153	561476	442161	1.2698	2071.7251	2000.0000	103.6
062727.D	Benzo (g,h,i) perylene	Perylene-d12 (IS)	Calibration	22.153	1477391	462514	3.1943	4992.1817	5000.0000	99.8
062728.D	Benzo (g,h,i) perylene	Perylene-d12 (IS)	Sample	22.178	145	373602	0.0004	0.6517		
062729.D	Benzo (g,h,i) perylene	Perylene-d12 (IS)	Sample	22.143	228946	439023	0.5215	866.4990		

Quantitative Analysis Complete Report

Batch Path	C:\GC-14\Data\2023\062723\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	6/29/2023 12:01 PM	Reporter Name	FA\GC14
Report Time	6/29/2023 12:01:47 PM	Batch State	Processed
Last Calib Update	6/29/2023 12:00 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

Naphthalene



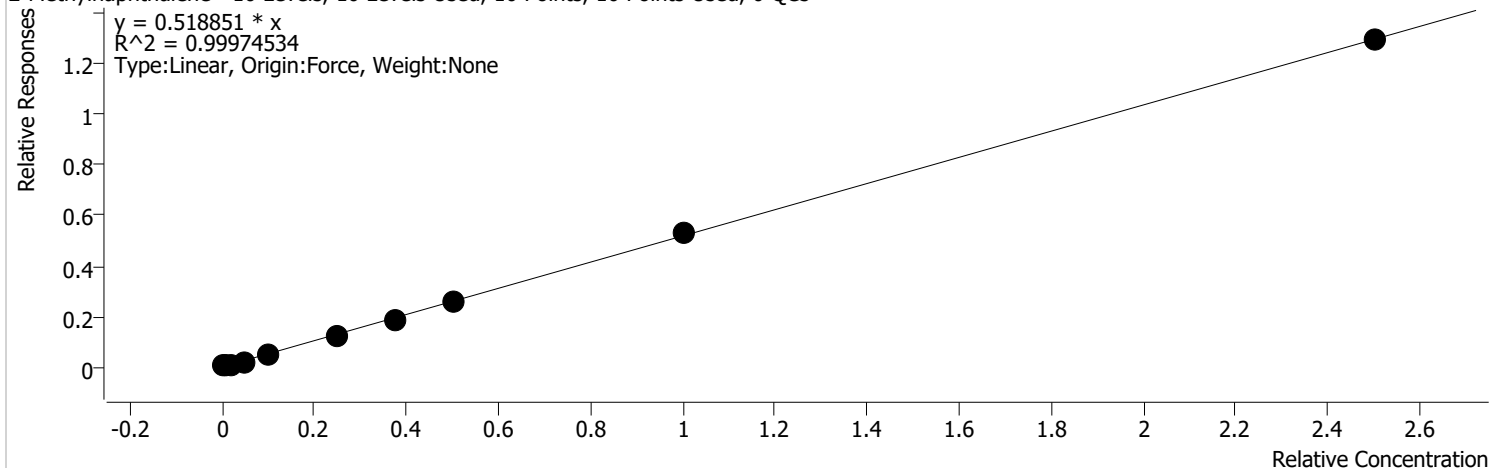
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C:\GC-14\Data\2023\062723\062723.D	Calibration	6	x	191632	500.0000	1.1209
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C:\GC-14\Data\2023\062723\062726.D	Calibration	9	x	742119	2000.0000	1.0911
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Quantitative Analysis Complete Report

Batch Path	C:\GC-14\Data\2023\062723\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	6/29/2023 12:01 PM	Reporter Name	FA\GC14
Report Time	6/29/2023 12:01:48 PM	Batch State	Processed
Last Calib Update	6/29/2023 12:00 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

2-Methylnaphthalene

2-Methylnaphthalene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs

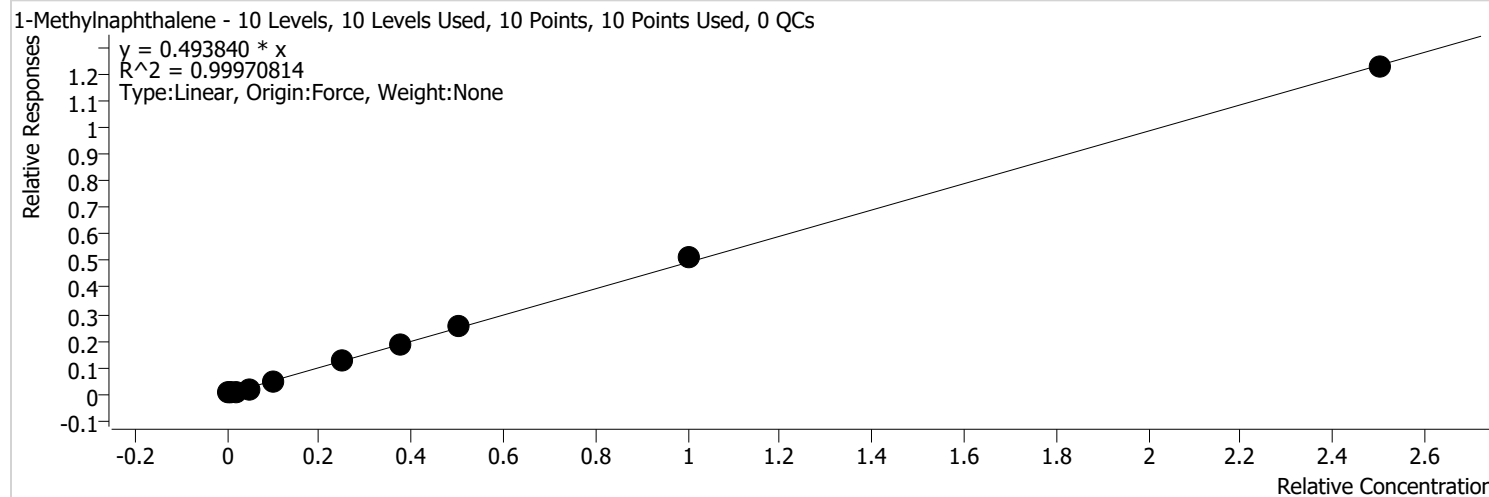


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
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Quantitative Analysis Complete Report

Batch Path	C:\GC-14\Data\2023\062723\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	6/29/2023 12:01 PM	Reporter Name	FA\GC14
Report Time	6/29/2023 12:01:48 PM	Batch State	Processed
Last Calib Update	6/29/2023 12:00 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

1-Methylnaphthalene



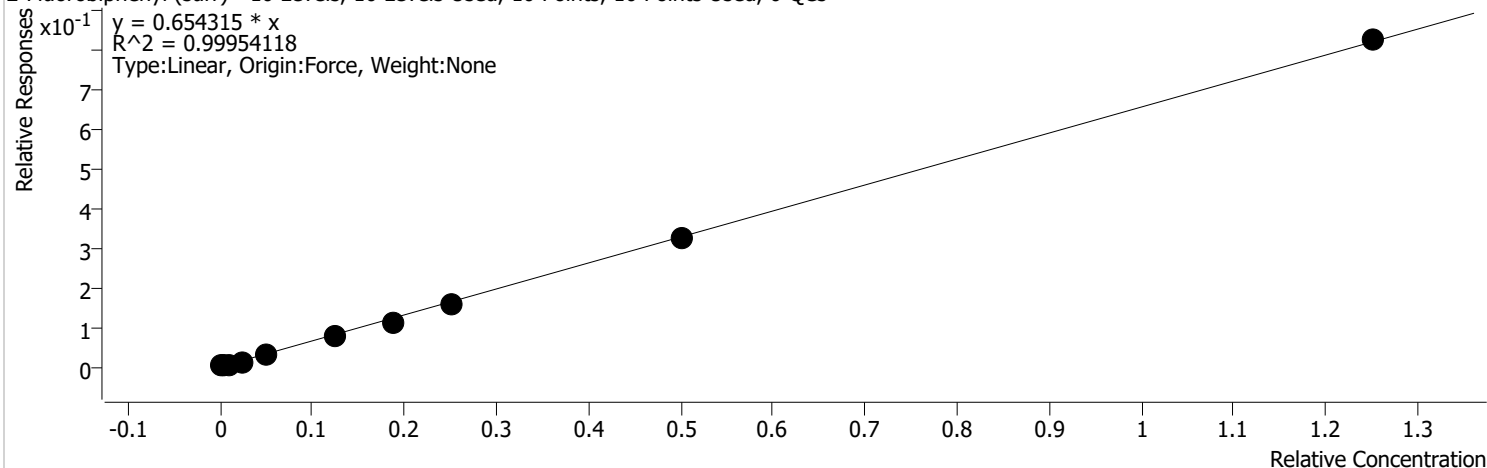
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
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C:\GC-14\Data\2023\062723\062721.D	Calibration	4	x	14818	100.0000	0.4273
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C:\GC-14\Data\2023\062723\062723.D	Calibration	6	x	85947	500.0000	0.5027
C:\GC-14\Data\2023\062723\062724.D	Calibration	7	x	127562	750.0000	0.4927
C:\GC-14\Data\2023\062723\062725.D	Calibration	8	x	176335	1000.0000	0.5036
C:\GC-14\Data\2023\062723\062726.D	Calibration	9	x	346913	2000.0000	0.5101
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Quantitative Analysis Complete Report

Batch Path	C:\GC-14\Data\2023\062723\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	6/29/2023 12:01 PM	Reporter Name	FA\GC14
Report Time	6/29/2023 12:01:48 PM	Batch State	Processed
Last Calib Update	6/29/2023 12:00 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

2-Fluorobiphenyl (surr)

2-Fluorobiphenyl (surr) - 10 Levels Used, 10 Points Used, 10 Points Used, 0 QCs

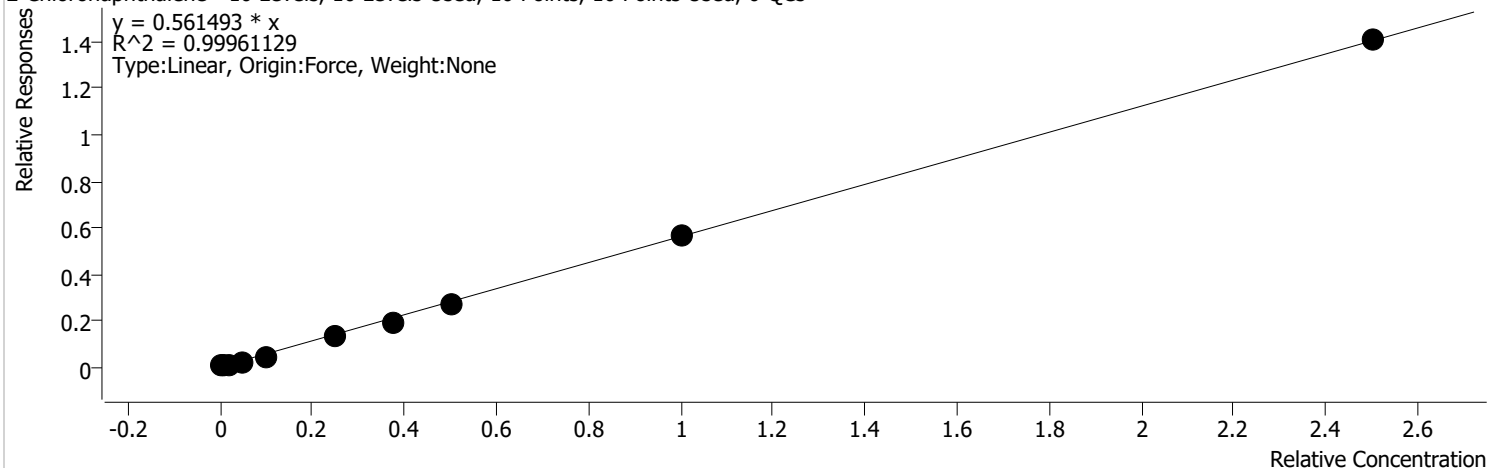


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
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C:\GC-14\Data\2023\062723\062720.D	Calibration	3	x	3545	20.0000	0.5291
C:\GC-14\Data\2023\062723\062721.D	Calibration	4	x	9395	50.0000	0.5418
C:\GC-14\Data\2023\062723\062722.D	Calibration	5	x	20086	100.0000	0.5594
C:\GC-14\Data\2023\062723\062723.D	Calibration	6	x	51553	250.0000	0.6031
C:\GC-14\Data\2023\062723\062724.D	Calibration	7	x	77646	375.0000	0.5998
C:\GC-14\Data\2023\062723\062725.D	Calibration	8	x	108574	500.0000	0.6202
C:\GC-14\Data\2023\062723\062726.D	Calibration	9	x	222189	1000.0000	0.6534
C:\GC-14\Data\2023\062723\062727.D	Calibration	10	x	569196	2500.0000	0.6578

Batch Path	C:\GC-14\Data\2023\062723\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	6/29/2023 12:01 PM	Reporter Name	FA\GC14
Report Time	6/29/2023 12:01:48 PM	Batch State	Processed
Last Calib Update	6/29/2023 12:00 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

2-Chloronaphthalene

2-Chloronaphthalene - 10 Levels Used, 10 Points, 10 Points Used, 0 QCs

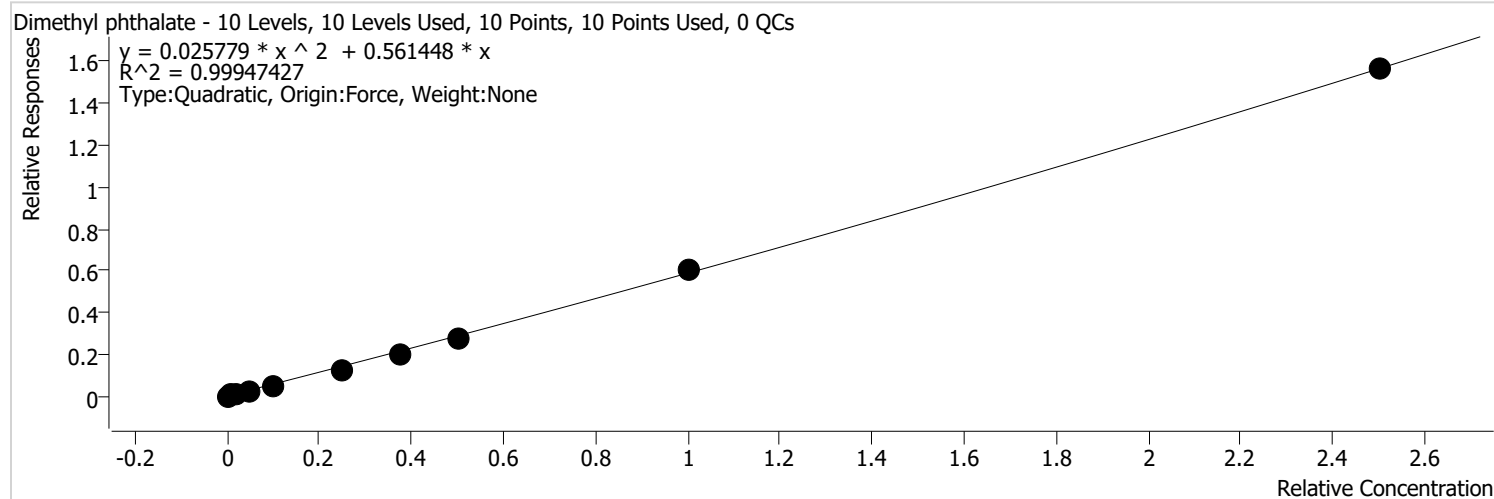


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
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C:\GC-14\Data\2023\062723\062721.D	Calibration	4	x	15754	100.0000	0.4543
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C:\GC-14\Data\2023\062723\062723.D	Calibration	6	x	88388	500.0000	0.5170
C:\GC-14\Data\2023\062723\062724.D	Calibration	7	x	134155	750.0000	0.5182
C:\GC-14\Data\2023\062723\062725.D	Calibration	8	x	189895	1000.0000	0.5424
C:\GC-14\Data\2023\062723\062726.D	Calibration	9	x	387559	2000.0000	0.5698
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Quantitative Analysis Complete Report

Batch Path	C:\GC-14\Data\2023\062723\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	6/29/2023 12:01 PM	Reporter Name	FA\GC14
Report Time	6/29/2023 12:01:48 PM	Batch State	Processed
Last Calib Update	6/29/2023 12:00 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

Dimethyl phthalate

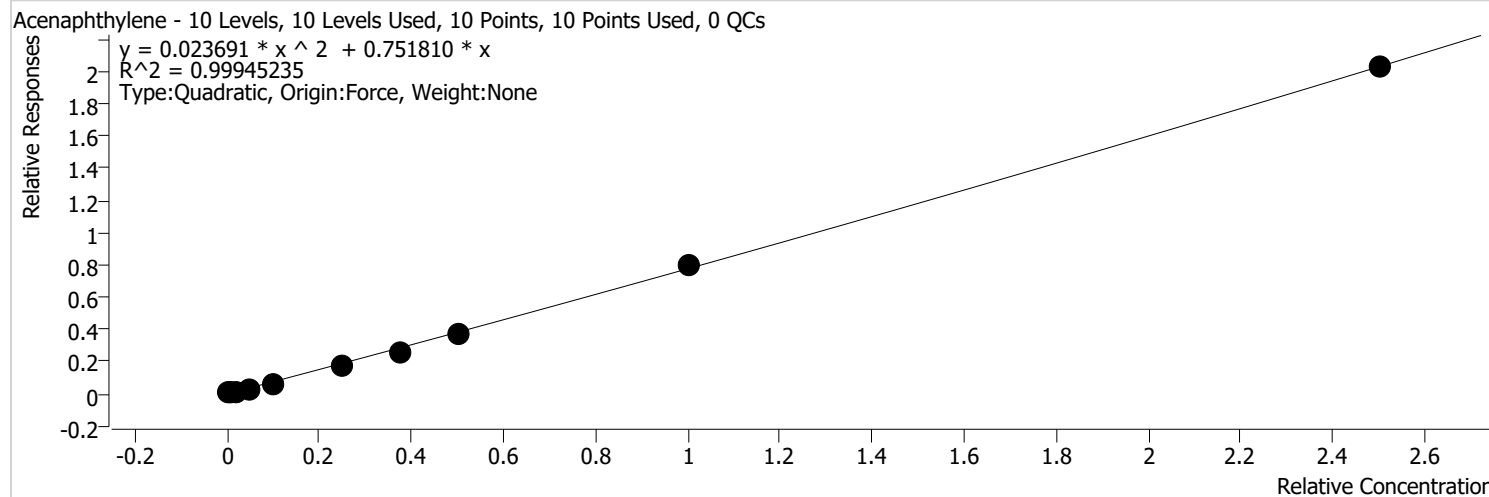


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
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C:\GC-14\Data\2023\062723\062721.D	Calibration	4	x	14692	100.0000	0.4236
C:\GC-14\Data\2023\062723\062722.D	Calibration	5	x	33627	200.0000	0.4682
C:\GC-14\Data\2023\062723\062723.D	Calibration	6	x	87817	500.0000	0.5136
C:\GC-14\Data\2023\062723\062724.D	Calibration	7	x	136619	750.0000	0.5277
C:\GC-14\Data\2023\062723\062725.D	Calibration	8	x	195567	1000.0000	0.5586
C:\GC-14\Data\2023\062723\062726.D	Calibration	9	x	413833	2000.0000	0.6084
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Quantitative Analysis Complete Report

Batch Path	C:\GC-14\Data\2023\062723\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	6/29/2023 12:01 PM	Reporter Name	FA\GC14
Report Time	6/29/2023 12:01:48 PM	Batch State	Processed
Last Calib Update	6/29/2023 12:00 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

Acenaphthylene

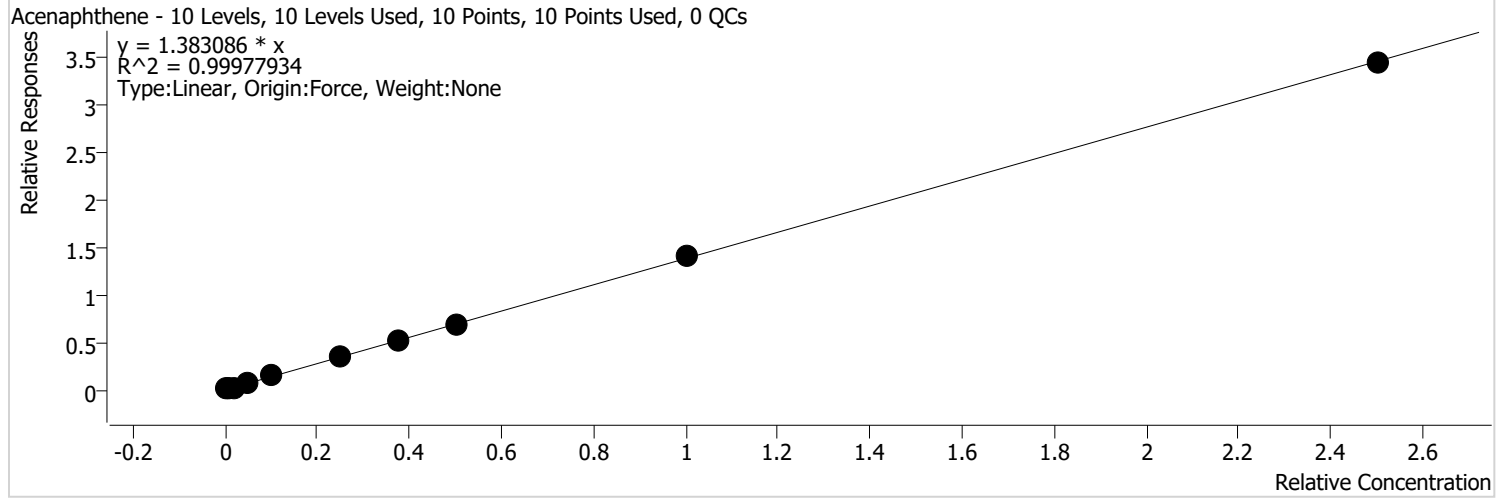


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
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Quantitative Analysis Complete Report

Batch Path	C:\GC-14\Data\2023\062723\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	6/29/2023 12:01 PM	Reporter Name	FA\GC14
Report Time	6/29/2023 12:01:48 PM	Batch State	Processed
Last Calib Update	6/29/2023 12:00 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

Acenaphthene

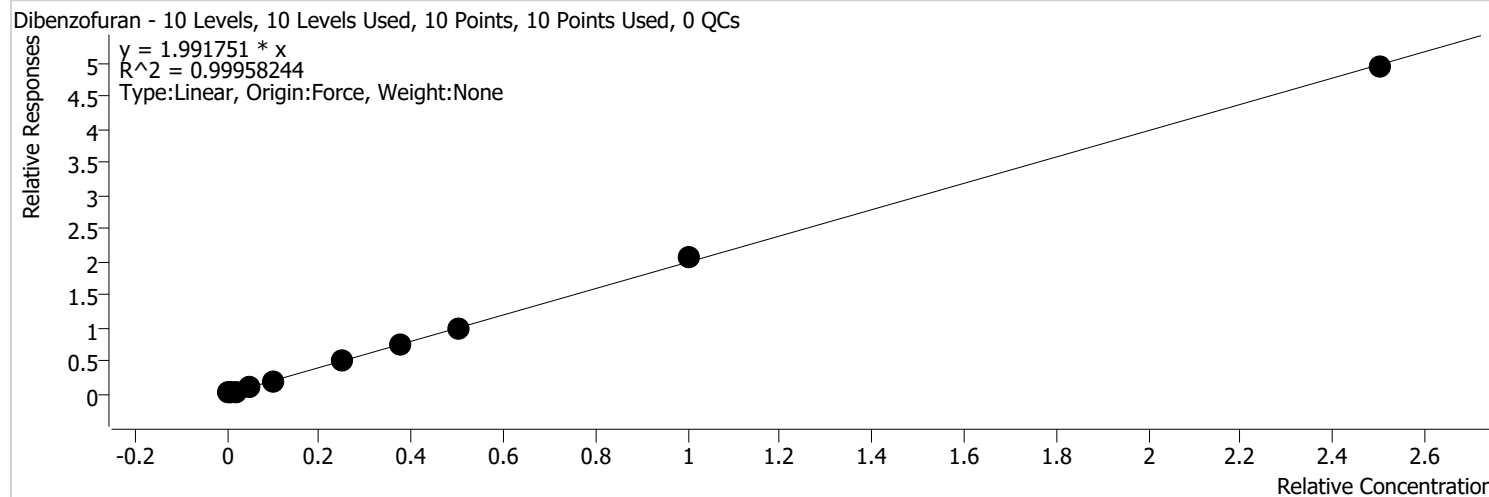


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
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Quantitative Analysis Complete Report

Batch Path	C:\GC-14\Data\2023\062723\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	6/29/2023 12:01 PM	Reporter Name	FA\GC14
Report Time	6/29/2023 12:01:48 PM	Batch State	Processed
Last Calib Update	6/29/2023 12:00 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

Dibenzofuran

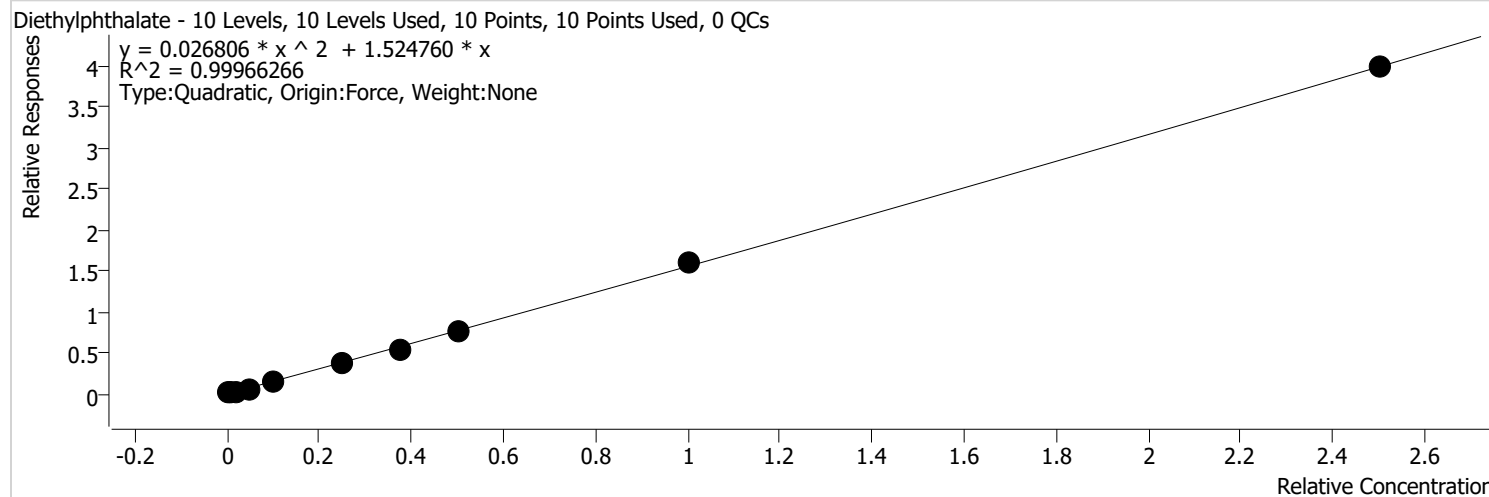


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
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C:\GC-14\Data\2023\062723\062721.D	Calibration	4	x	22214	100.0000	1.9427
C:\GC-14\Data\2023\062723\062722.D	Calibration	5	x	49255	200.0000	2.0275
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C:\GC-14\Data\2023\062723\062724.D	Calibration	7	x	191472	750.0000	2.0004
C:\GC-14\Data\2023\062723\062725.D	Calibration	8	x	265868	1000.0000	2.0070
C:\GC-14\Data\2023\062723\062726.D	Calibration	9	x	541645	2000.0000	2.0754
C:\GC-14\Data\2023\062723\062727.D	Calibration	10	x	1354433	5000.0000	1.9767

Quantitative Analysis Complete Report

Batch Path	C:\GC-14\Data\2023\062723\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	6/29/2023 12:01 PM	Reporter Name	FA\GC14
Report Time	6/29/2023 12:01:48 PM	Batch State	Processed
Last Calib Update	6/29/2023 12:00 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

Diethylphthalate

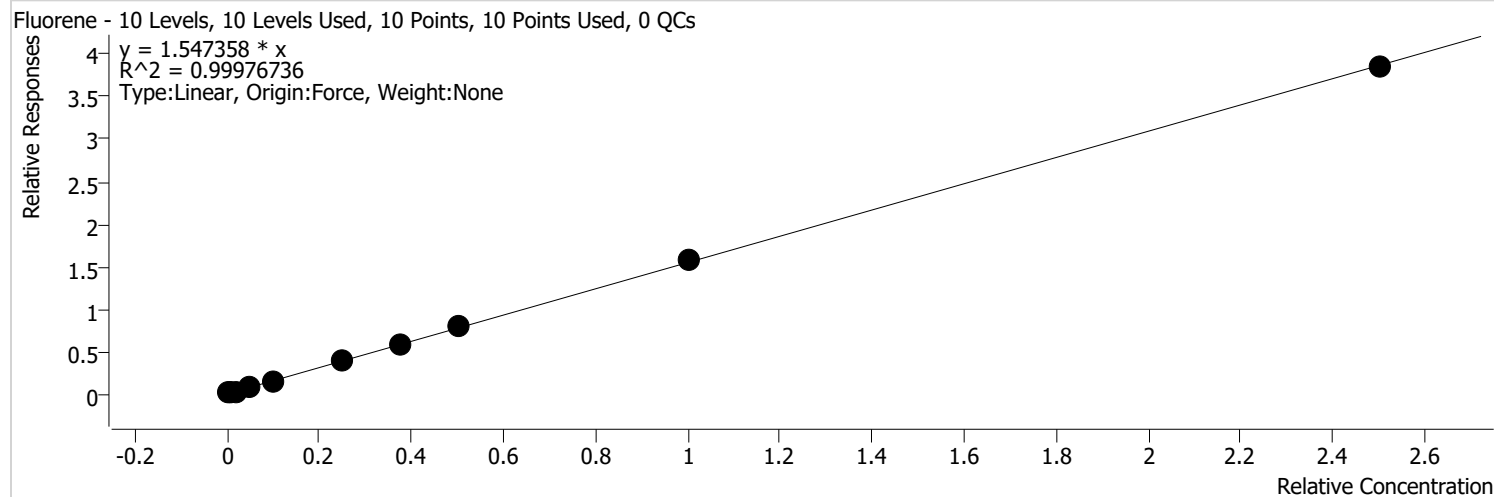


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
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C:\GC-14\Data\2023\062723\062720.D	Calibration	3	x	5327	40.0000	1.2179
C:\GC-14\Data\2023\062723\062721.D	Calibration	4	x	14070	100.0000	1.2304
C:\GC-14\Data\2023\062723\062722.D	Calibration	5	x	32784	200.0000	1.3495
C:\GC-14\Data\2023\062723\062723.D	Calibration	6	x	87707	500.0000	1.4401
C:\GC-14\Data\2023\062723\062724.D	Calibration	7	x	137848	750.0000	1.4402
C:\GC-14\Data\2023\062723\062725.D	Calibration	8	x	198956	1000.0000	1.5019
C:\GC-14\Data\2023\062723\062726.D	Calibration	9	x	416375	2000.0000	1.5954
C:\GC-14\Data\2023\062723\062727.D	Calibration	10	x	1089229	5000.0000	1.5897

Quantitative Analysis Complete Report

Batch Path	C:\GC-14\Data\2023\062723\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	6/29/2023 12:01 PM	Reporter Name	FA\GC14
Report Time	6/29/2023 12:01:48 PM	Batch State	Processed
Last Calib Update	6/29/2023 12:00 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

Fluorene

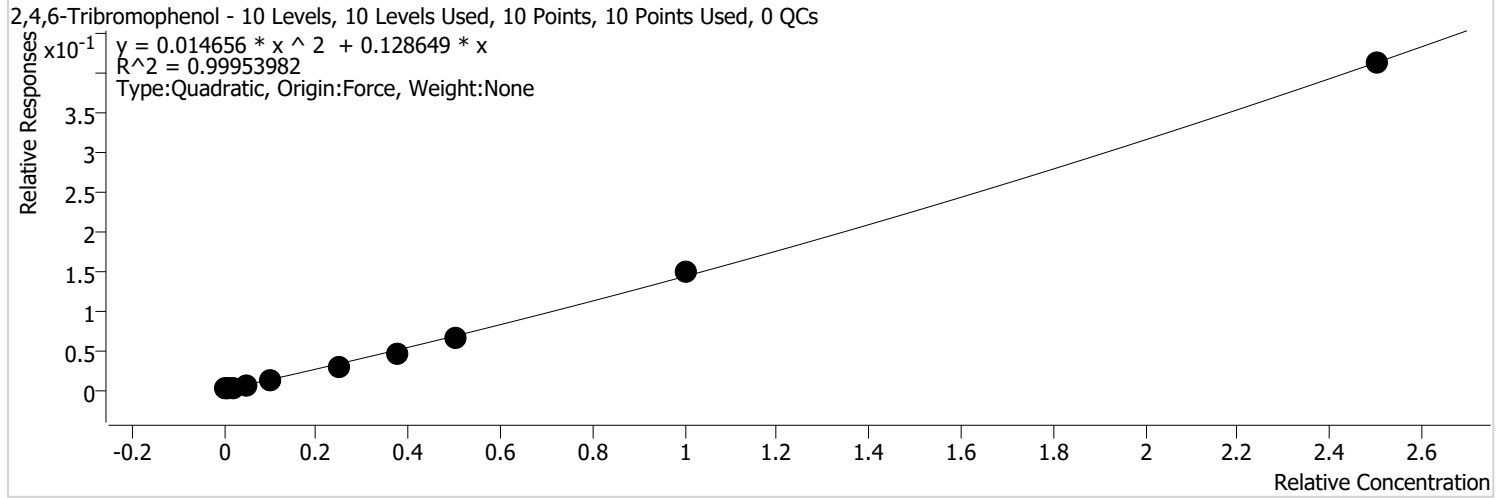


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
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C:\GC-14\Data\2023\062723\062721.D	Calibration	4	x	16217	100.0000	1.4182
C:\GC-14\Data\2023\062723\062722.D	Calibration	5	x	36826	200.0000	1.5159
C:\GC-14\Data\2023\062723\062723.D	Calibration	6	x	95960	500.0000	1.5756
C:\GC-14\Data\2023\062723\062724.D	Calibration	7	x	147253	750.0000	1.5384
C:\GC-14\Data\2023\062723\062725.D	Calibration	8	x	208112	1000.0000	1.5710
C:\GC-14\Data\2023\062723\062726.D	Calibration	9	x	416297	2000.0000	1.5951
C:\GC-14\Data\2023\062723\062727.D	Calibration	10	x	1054367	5000.0000	1.5388

Quantitative Analysis Complete Report

Batch Path	C:\GC-14\Data\2023\062723\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	6/29/2023 12:01 PM	Reporter Name	FA\GC14
Report Time	6/29/2023 12:01:48 PM	Batch State	Processed
Last Calib Update	6/29/2023 12:00 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

2,4,6-Tribromophenol

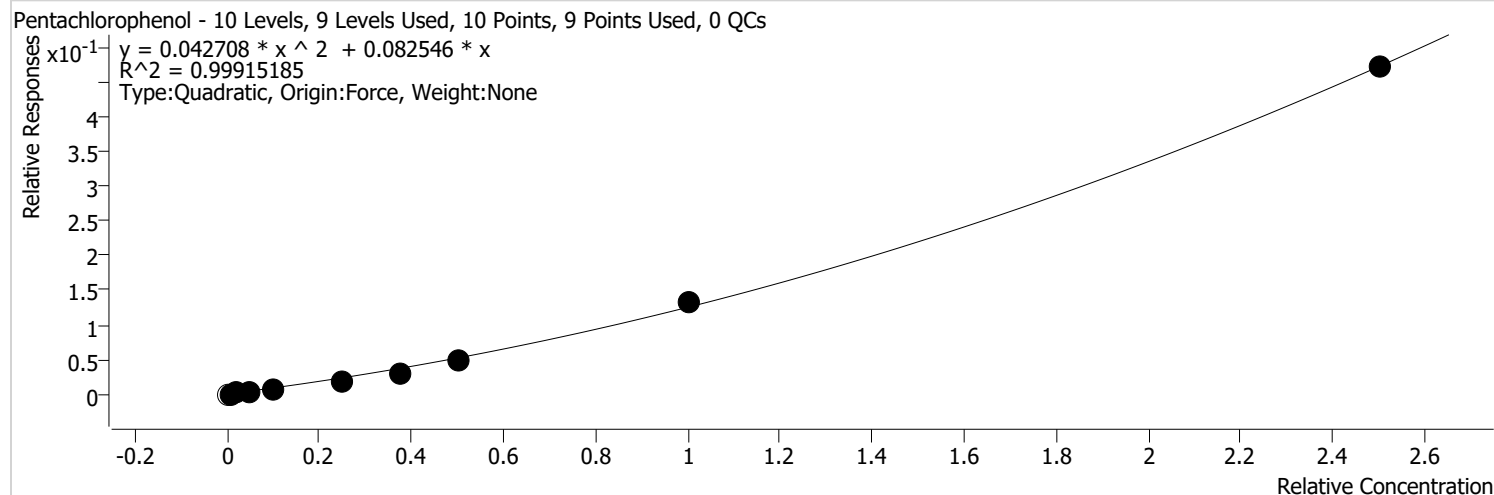


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C:\GC-14\Data\2023\062723\062720.D	Calibration	3	x	437	40.0000	0.0998
C:\GC-14\Data\2023\062723\062721.D	Calibration	4	x	1108	100.0000	0.0969
C:\GC-14\Data\2023\062723\062722.D	Calibration	5	x	2575	200.0000	0.1060
C:\GC-14\Data\2023\062723\062723.D	Calibration	6	x	7261	500.0000	0.1192
C:\GC-14\Data\2023\062723\062724.D	Calibration	7	x	11892	750.0000	0.1242
C:\GC-14\Data\2023\062723\062725.D	Calibration	8	x	17379	1000.0000	0.1312
C:\GC-14\Data\2023\062723\062726.D	Calibration	9	x	38793	2000.0000	0.1486
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Quantitative Analysis Complete Report

Batch Path	C:\GC-14\Data\2023\062723\QuantResults\PAH ICAL.batch.bin		
Analysis Time	6/29/2023 12:01 PM	Analyst Name	FA\GC14
Report Time	6/29/2023 12:01:48 PM	Reporter Name	FA\GC14
Last Calib Update	6/29/2023 12:00 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Pentachlorophenol

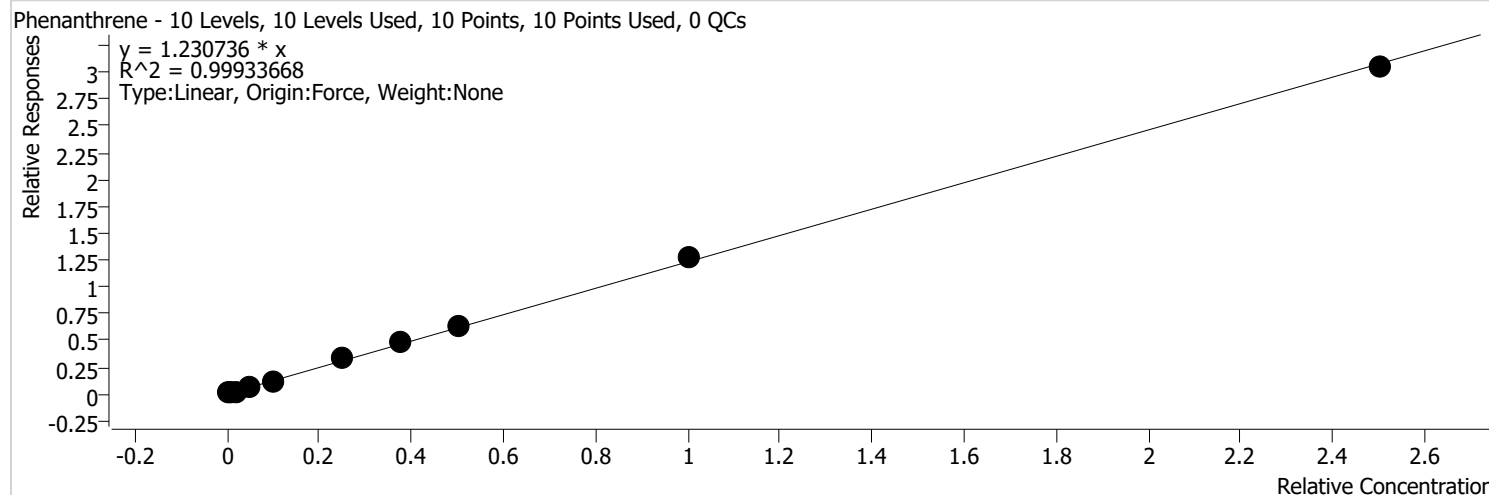


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
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C:\GC-14\Data\2023\062723\062720.D	Calibration	3	x	207	40.0000	0.0472
C:\GC-14\Data\2023\062723\062721.D	Calibration	4	x	567	100.0000	0.0496
C:\GC-14\Data\2023\062723\062722.D	Calibration	5	x	1564	200.0000	0.0644
C:\GC-14\Data\2023\062723\062723.D	Calibration	6	x	4411	500.0000	0.0724
C:\GC-14\Data\2023\062723\062724.D	Calibration	7	x	7961	750.0000	0.0832
C:\GC-14\Data\2023\062723\062725.D	Calibration	8	x	12624	1000.0000	0.0953
C:\GC-14\Data\2023\062723\062726.D	Calibration	9	x	34886	2000.0000	0.1337
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Quantitative Analysis Complete Report

Batch Path	C:\GC-14\Data\2023\062723\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	6/29/2023 12:01 PM	Reporter Name	FA\GC14
Report Time	6/29/2023 12:01:49 PM	Batch State	Processed
Last Calib Update	6/29/2023 12:00 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

Phenanthrene



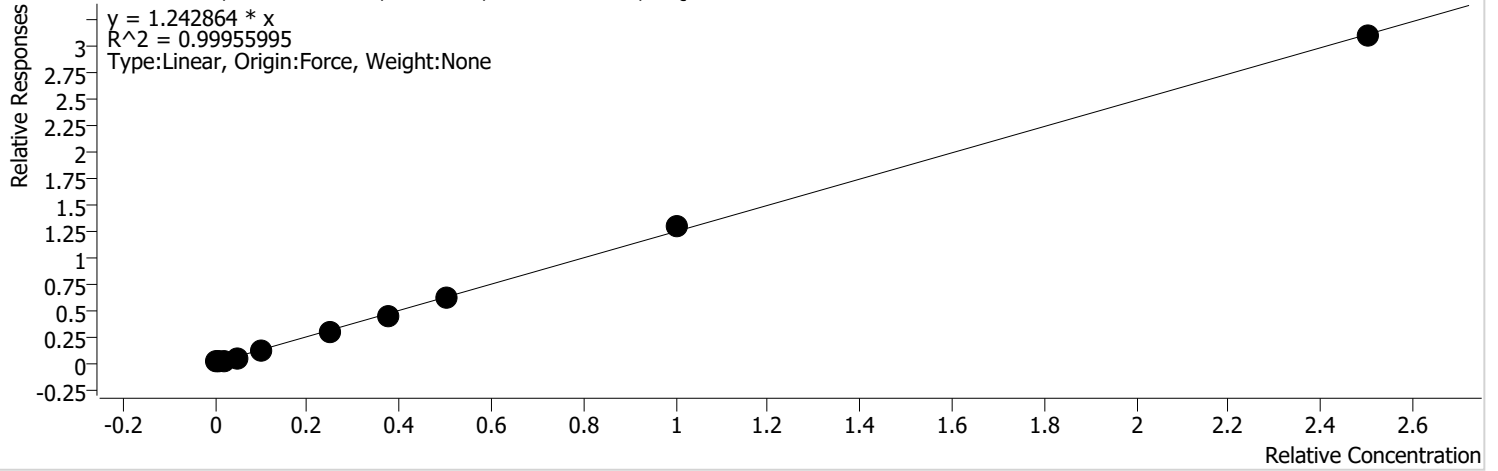
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
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C:\GC-14\Data\2023\062723\062720.D	Calibration	3	x	10144	40.0000	1.2184
C:\GC-14\Data\2023\062723\062721.D	Calibration	4	x	26628	100.0000	1.2208
C:\GC-14\Data\2023\062723\062722.D	Calibration	5	x	58696	200.0000	1.2283
C:\GC-14\Data\2023\062723\062723.D	Calibration	6	x	144556	500.0000	1.3032
C:\GC-14\Data\2023\062723\062724.D	Calibration	7	x	218547	750.0000	1.2721
C:\GC-14\Data\2023\062723\062725.D	Calibration	8	x	301492	1000.0000	1.2822
C:\GC-14\Data\2023\062723\062726.D	Calibration	9	x	592651	2000.0000	1.2867
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Quantitative Analysis Complete Report

Batch Path	C:\GC-14\Data\2023\062723\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	6/29/2023 12:01 PM	Reporter Name	FA\GC14
Report Time	6/29/2023 12:01:49 PM	Batch State	Processed
Last Calib Update	6/29/2023 12:00 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

Anthracene

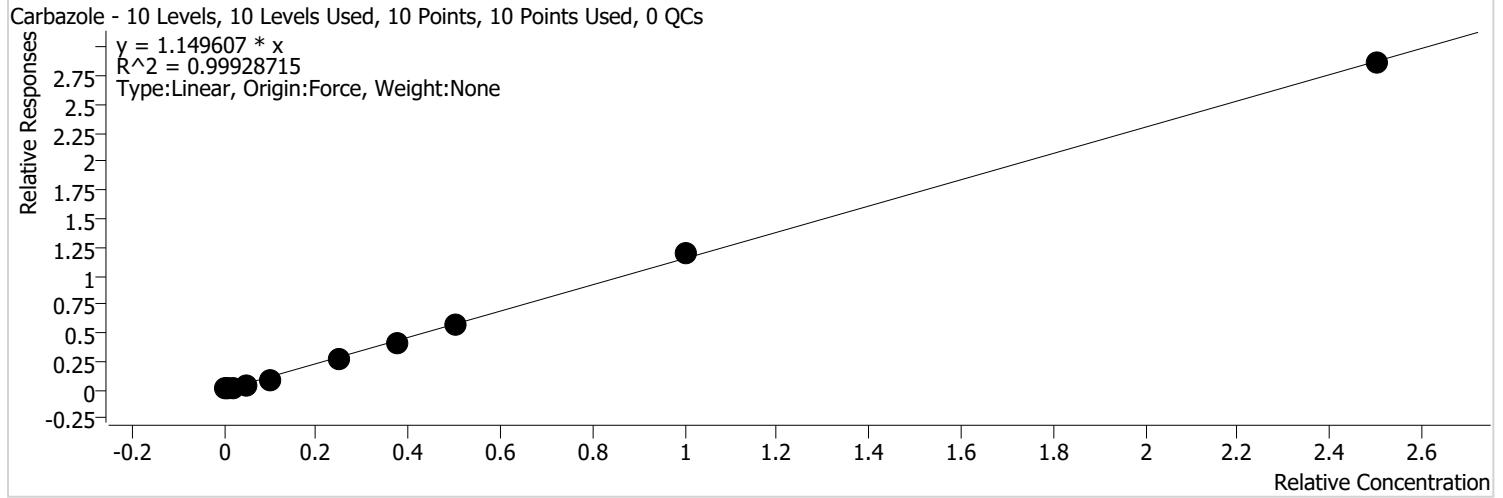
Anthracene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



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C:\GC-14\Data\2023\062723\062722.D	Calibration	5	x	51110	200.0000	1.0695
C:\GC-14\Data\2023\062723\062723.D	Calibration	6	x	132671	500.0000	1.1960
C:\GC-14\Data\2023\062723\062724.D	Calibration	7	x	208111	750.0000	1.2114
C:\GC-14\Data\2023\062723\062725.D	Calibration	8	x	292230	1000.0000	1.2428
C:\GC-14\Data\2023\062723\062726.D	Calibration	9	x	596225	2000.0000	1.2945
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Batch Path	C:\GC-14\Data\2023\062723\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	6/29/2023 12:01 PM	Reporter Name	FA\GC14
Report Time	6/29/2023 12:01:49 PM	Batch State	Processed
Last Calib Update	6/29/2023 12:00 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

Carbazole

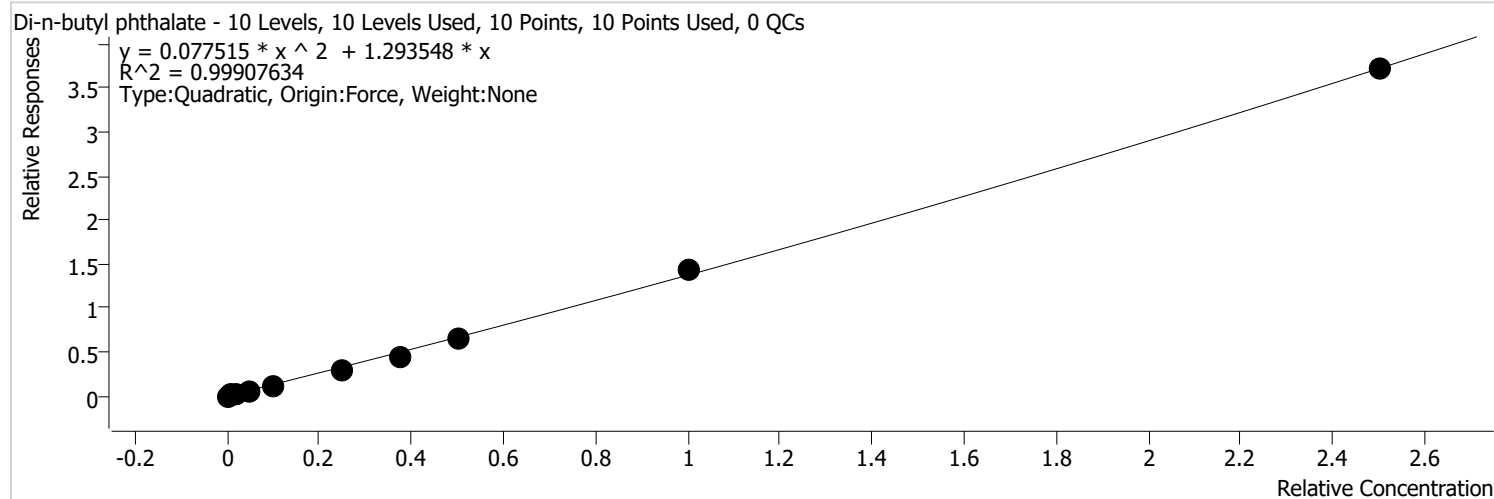


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
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C:\GC-14\Data\2023\062723\062720.D	Calibration	3	x	7460	40.0000	0.8960
C:\GC-14\Data\2023\062723\062721.D	Calibration	4	x	19202	100.0000	0.8803
C:\GC-14\Data\2023\062723\062722.D	Calibration	5	x	45154	200.0000	0.9449
C:\GC-14\Data\2023\062723\062723.D	Calibration	6	x	119470	500.0000	1.0770
C:\GC-14\Data\2023\062723\062724.D	Calibration	7	x	188964	750.0000	1.0999
C:\GC-14\Data\2023\062723\062725.D	Calibration	8	x	266274	1000.0000	1.1324
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Quantitative Analysis Complete Report

Batch Path	C:\GC-14\Data\2023\062723\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	6/29/2023 12:01 PM	Reporter Name	FA\GC14
Report Time	6/29/2023 12:01:49 PM	Batch State	Processed
Last Calib Update	6/29/2023 12:00 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

Di-n-butyl phthalate

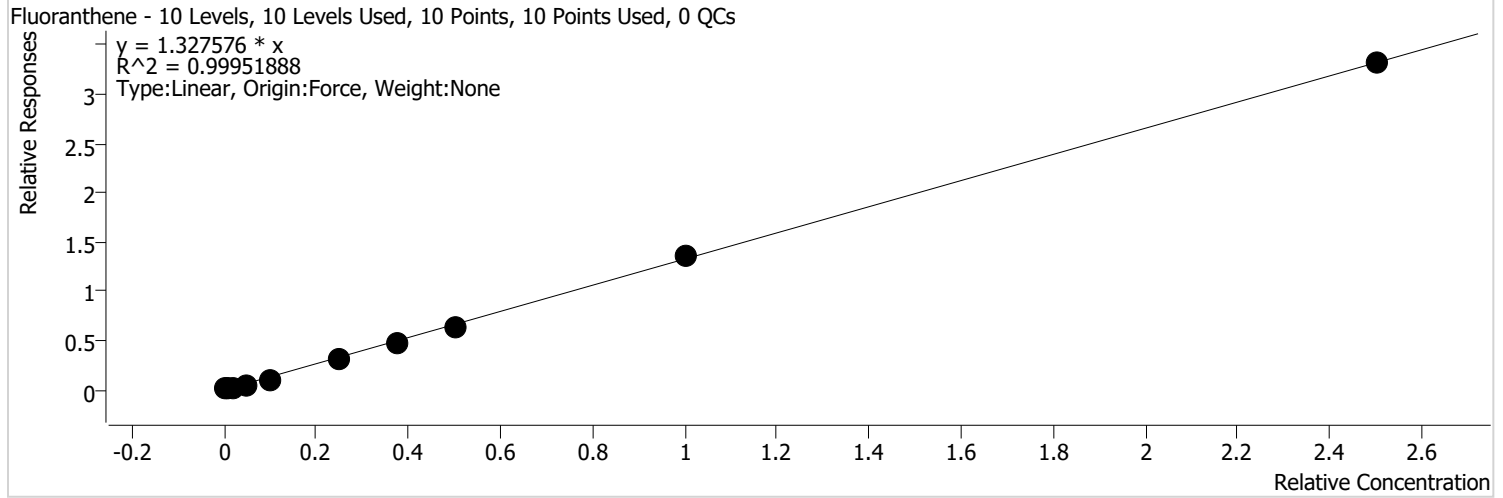


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
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C:\GC-14\Data\2023\062723\062720.D	Calibration	3	x	7668	40.0000	0.9210
C:\GC-14\Data\2023\062723\062721.D	Calibration	4	x	19814	100.0000	0.9084
C:\GC-14\Data\2023\062723\062722.D	Calibration	5	x	47607	200.0000	0.9962
C:\GC-14\Data\2023\062723\062723.D	Calibration	6	x	125956	500.0000	1.1355
C:\GC-14\Data\2023\062723\062724.D	Calibration	7	x	204116	750.0000	1.1881
C:\GC-14\Data\2023\062723\062725.D	Calibration	8	x	301276	1000.0000	1.2813
C:\GC-14\Data\2023\062723\062726.D	Calibration	9	x	662471	2000.0000	1.4383
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Quantitative Analysis Complete Report

Batch Path	C:\GC-14\Data\2023\062723\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	6/29/2023 12:01 PM	Reporter Name	FA\GC14
Report Time	6/29/2023 12:01:49 PM	Batch State	Processed
Last Calib Update	6/29/2023 12:00 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

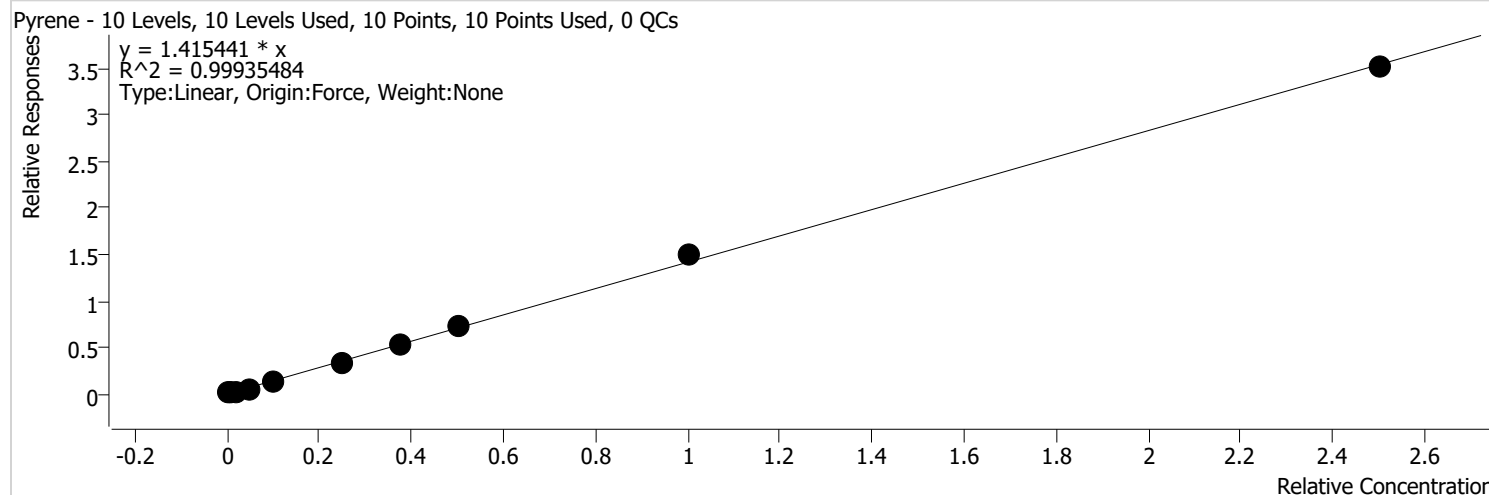
Fluoranthene



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
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C:\GC-14\Data\2023\062723\062722.D	Calibration	5	x	53121	200.0000	1.1116
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C:\GC-14\Data\2023\062723\062724.D	Calibration	7	x	213190	750.0000	1.2409
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C:\GC-14\Data\2023\062723\062726.D	Calibration	9	x	631548	2000.0000	1.3712
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Batch Path	C:\GC-14\Data\2023\062723\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	6/29/2023 12:01 PM	Reporter Name	FA\GC14
Report Time	6/29/2023 12:01:49 PM	Batch State	Processed
Last Calib Update	6/29/2023 12:00 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

Pyrene

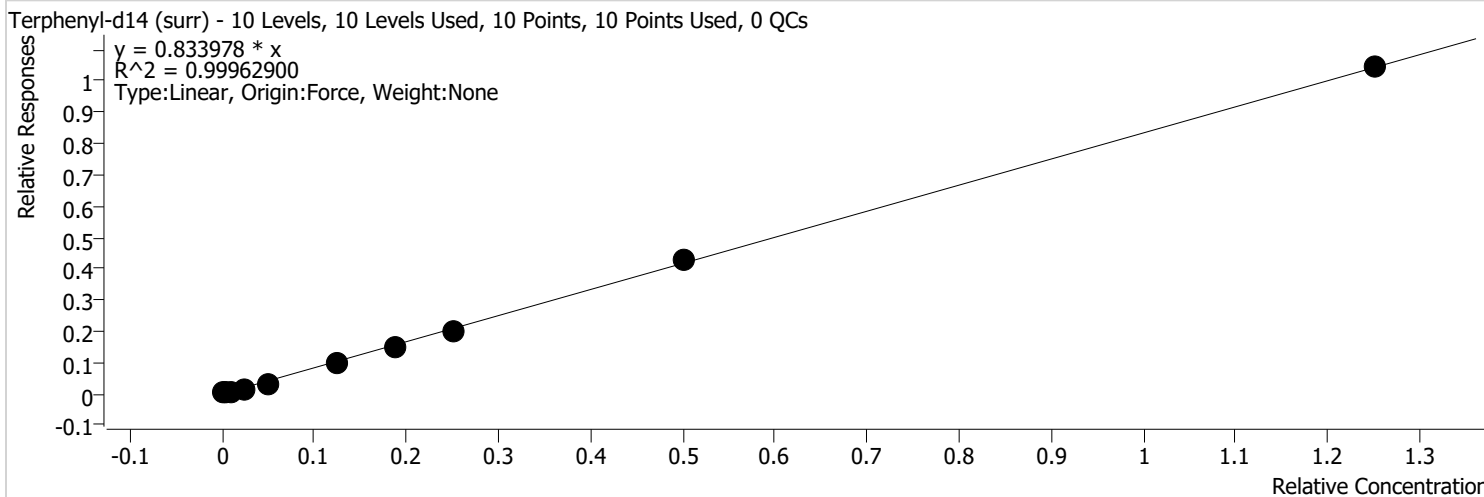


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
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C:\GC-14\Data\2023\062723\062721.D	Calibration	4	x	25184	100.0000	1.1546
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C:\GC-14\Data\2023\062723\062725.D	Calibration	8	x	337268	1000.0000	1.4344
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Quantitative Analysis Complete Report

Batch Path	C:\GC-14\Data\2023\062723\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	6/29/2023 12:01 PM	Reporter Name	FA\GC14
Report Time	6/29/2023 12:01:49 PM	Batch State	Processed
Last Calib Update	6/29/2023 12:00 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

Terphenyl-d14 (surr)

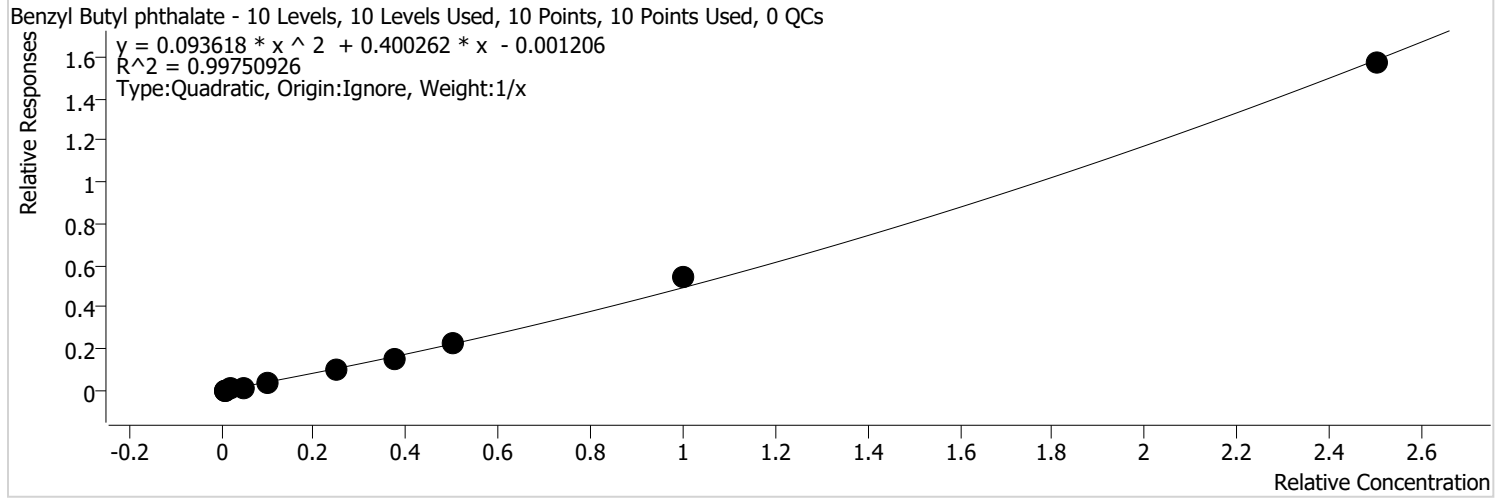


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
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C:\GC-14\Data\2023\062723\062721.D	Calibration	4	x	7317	50.0000	0.6709
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C:\GC-14\Data\2023\062723\062725.D	Calibration	8	x	94483	500.0000	0.8037
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Quantitative Analysis Complete Report

Batch Path	C:\GC-14\Data\2023\062723\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	6/29/2023 12:01 PM	Reporter Name	FA\GC14
Report Time	6/29/2023 12:01:49 PM	Batch State	Processed
Last Calib Update	6/29/2023 12:00 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

Benzyl Butyl phthalate

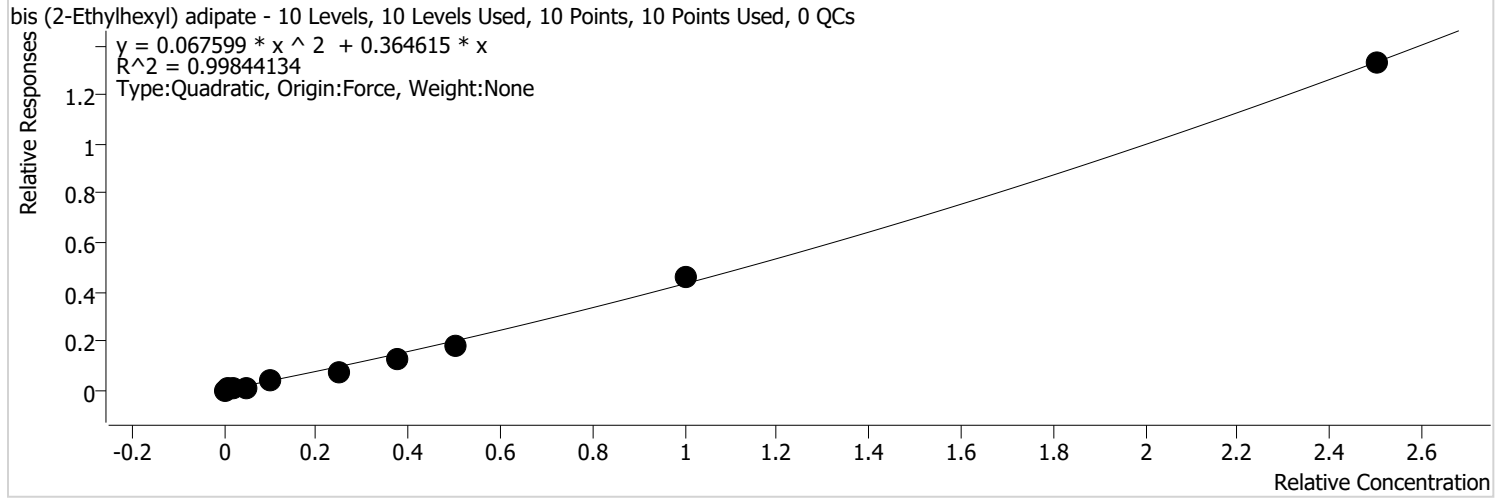


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
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Quantitative Analysis Complete Report

Batch Path	C:\GC-14\Data\2023\062723\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	6/29/2023 12:01 PM	Reporter Name	FA\GC14
Report Time	6/29/2023 12:01:49 PM	Batch State	Processed
Last Calib Update	6/29/2023 12:00 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

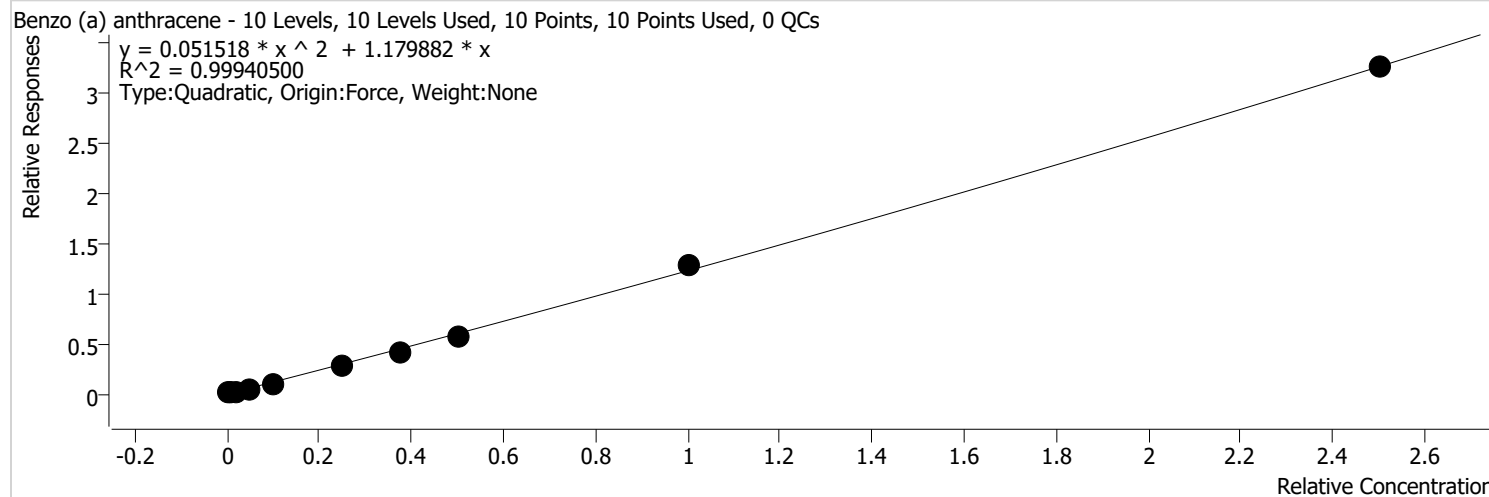
bis (2-Ethylhexyl) adipate



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
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C:\GC-14\Data\2023\062723\062720.D	Calibration	3	x	2860	40.0000	0.3435
C:\GC-14\Data\2023\062723\062721.D	Calibration	4	x	5240	100.0000	0.2403
C:\GC-14\Data\2023\062723\062722.D	Calibration	5	x	17629	200.0000	0.3689
C:\GC-14\Data\2023\062723\062723.D	Calibration	6	x	33336	500.0000	0.3005
C:\GC-14\Data\2023\062723\062724.D	Calibration	7	x	56007	750.0000	0.3260
C:\GC-14\Data\2023\062723\062725.D	Calibration	8	x	85502	1000.0000	0.3636
C:\GC-14\Data\2023\062723\062726.D	Calibration	9	x	214060	2000.0000	0.4647
C:\GC-14\Data\2023\062723\062727.D	Calibration	10	x	654755	5000.0000	0.5321

Batch Path	C:\GC-14\Data\2023\062723\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	6/29/2023 12:01 PM	Reporter Name	FA\GC14
Report Time	6/29/2023 12:01:49 PM	Batch State	Processed
Last Calib Update	6/29/2023 12:00 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

Benzo (a) anthracene



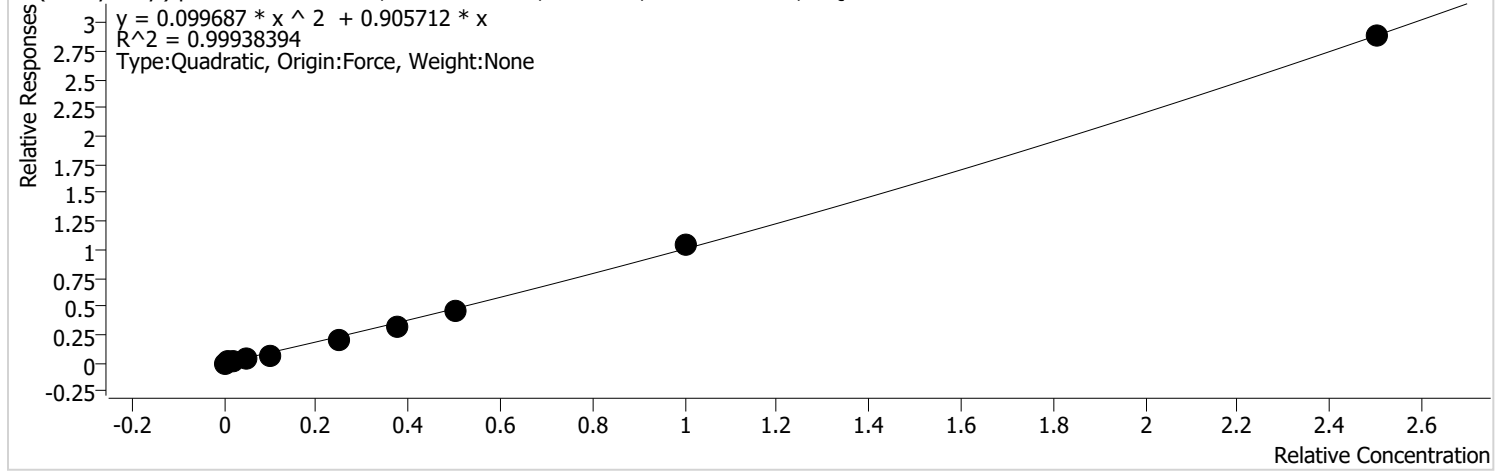
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
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C:\GC-14\Data\2023\062723\062721.D	Calibration	4	x	21607	100.0000	0.9906
C:\GC-14\Data\2023\062723\062722.D	Calibration	5	x	49274	200.0000	1.0311
C:\GC-14\Data\2023\062723\062723.D	Calibration	6	x	120002	500.0000	1.0818
C:\GC-14\Data\2023\062723\062724.D	Calibration	7	x	189142	750.0000	1.1009
C:\GC-14\Data\2023\062723\062725.D	Calibration	8	x	272088	1000.0000	1.1572
C:\GC-14\Data\2023\062723\062726.D	Calibration	9	x	589960	2000.0000	1.2809
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Quantitative Analysis Complete Report

Batch Path	C:\GC-14\Data\2023\062723\QuantResults\PAH ICAL.batch.bin		
Analysis Time	6/29/2023 12:01 PM	Analyst Name	FA\GC14
Report Time	6/29/2023 12:01:49 PM	Reporter Name	FA\GC14
Last Calib Update	6/29/2023 12:00 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

bis(2-Ethylhexyl) phthalate

bis(2-Ethylhexyl) phthalate - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs

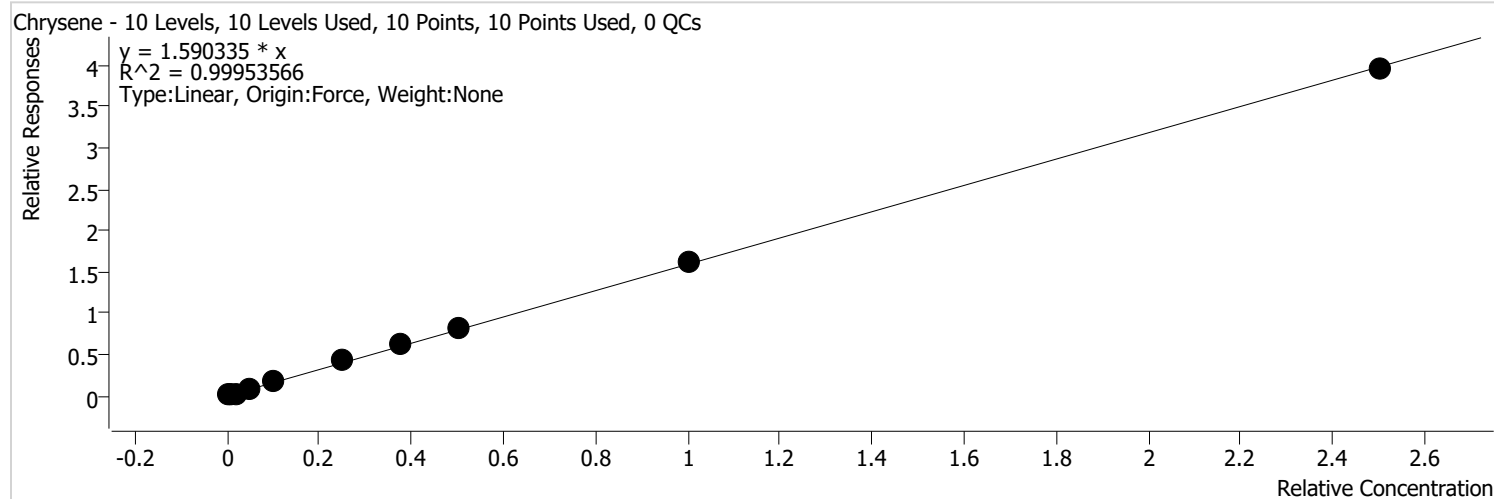


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
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C:\GC-14\Data\2023\062723\062720.D	Calibration	3	x	4213	40.0000	0.6732
C:\GC-14\Data\2023\062723\062721.D	Calibration	4	x	10847	100.0000	0.6537
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C:\GC-14\Data\2023\062723\062723.D	Calibration	6	x	71139	500.0000	0.8036
C:\GC-14\Data\2023\062723\062724.D	Calibration	7	x	121714	750.0000	0.8603
C:\GC-14\Data\2023\062723\062725.D	Calibration	8	x	184137	1000.0000	0.9313
C:\GC-14\Data\2023\062723\062726.D	Calibration	9	x	417506	2000.0000	1.0464
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Quantitative Analysis Complete Report

Batch Path	C:\GC-14\Data\2023\062723\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	6/29/2023 12:01 PM	Reporter Name	FA\GC14
Report Time	6/29/2023 12:01:49 PM	Batch State	Processed
Last Calib Update	6/29/2023 12:00 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

Chrysene

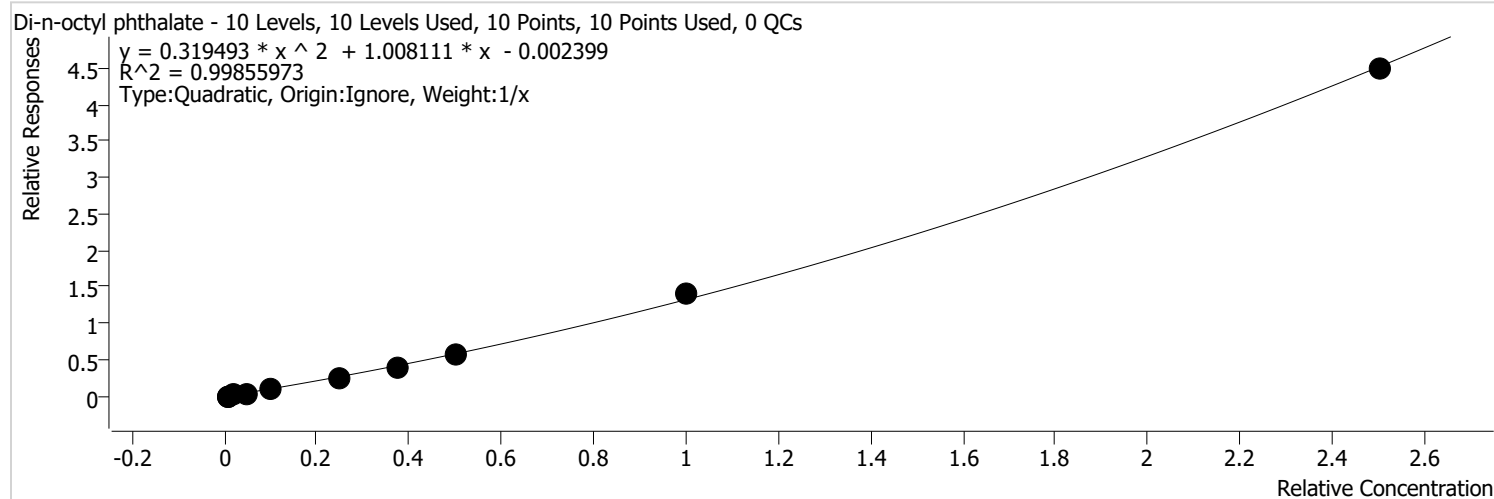


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
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C:\GC-14\Data\2023\062723\062720.D	Calibration	3	x	11013	40.0000	1.7598
C:\GC-14\Data\2023\062723\062721.D	Calibration	4	x	28383	100.0000	1.7103
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Quantitative Analysis Complete Report

Batch Path	C:\GC-14\Data\2023\062723\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	6/29/2023 12:01 PM	Reporter Name	FA\GC14
Report Time	6/29/2023 12:01:49 PM	Batch State	Processed
Last Calib Update	6/29/2023 12:00 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

Di-n-octyl phthalate

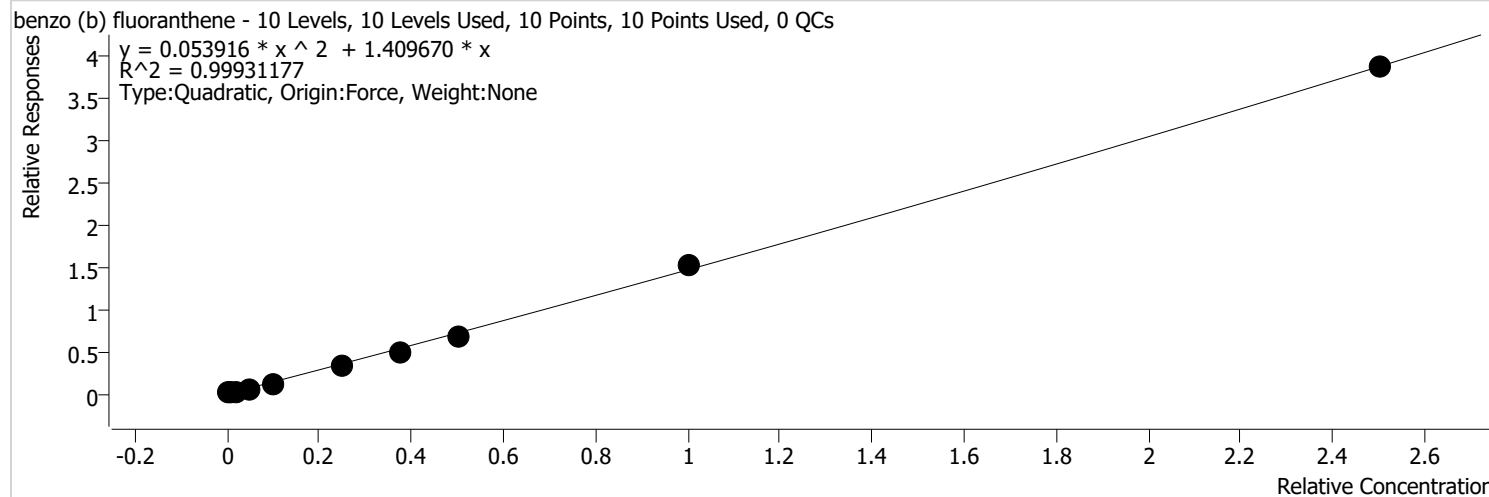


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
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C:\GC-14\Data\2023\062723\062721.D	Calibration	4	x	14348	100.0000	0.8646
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C:\GC-14\Data\2023\062723\062725.D	Calibration	8	x	226826	1000.0000	1.1472
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Quantitative Analysis Complete Report

Batch Path	C:\GC-14\Data\2023\062723\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	6/29/2023 12:01 PM	Reporter Name	FA\GC14
Report Time	6/29/2023 12:01:49 PM	Batch State	Processed
Last Calib Update	6/29/2023 12:00 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

benzo (b) fluoranthene

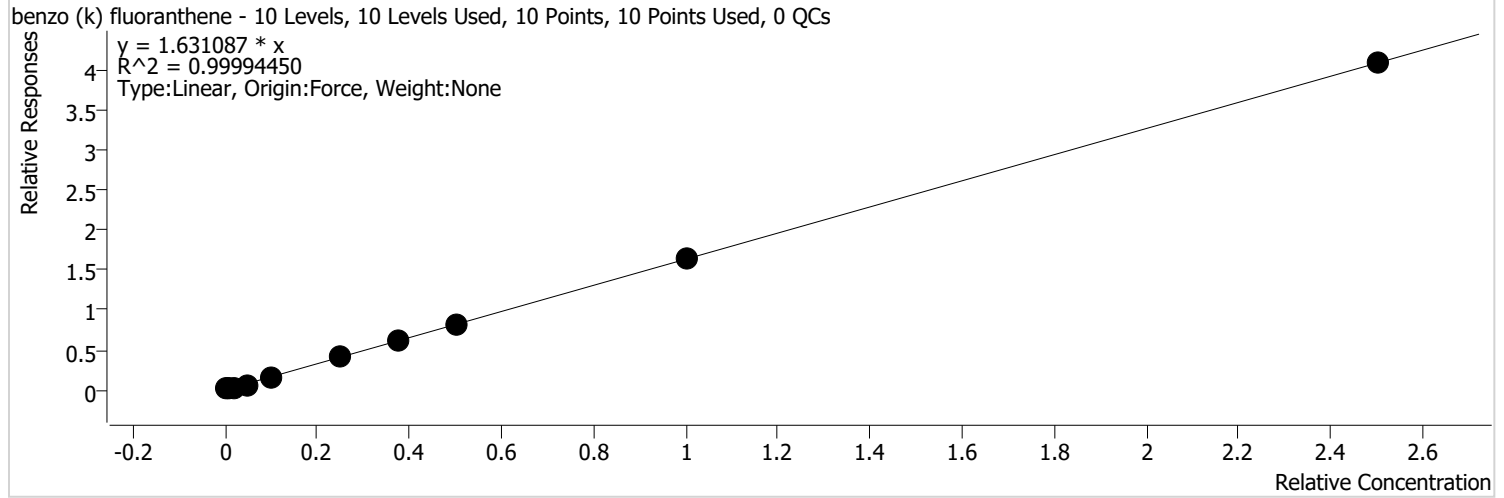


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
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C:\GC-14\Data\2023\062723\062720.D	Calibration	3	x	7334	40.0000	1.1719
C:\GC-14\Data\2023\062723\062721.D	Calibration	4	x	19592	100.0000	1.1806
C:\GC-14\Data\2023\062723\062722.D	Calibration	5	x	45273	200.0000	1.2140
C:\GC-14\Data\2023\062723\062723.D	Calibration	6	x	115808	500.0000	1.3083
C:\GC-14\Data\2023\062723\062724.D	Calibration	7	x	184636	750.0000	1.3050
C:\GC-14\Data\2023\062723\062725.D	Calibration	8	x	270088	1000.0000	1.3661
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Quantitative Analysis Complete Report

Batch Path	C:\GC-14\Data\2023\062723\QuantResults\PAH ICAL.batch.bin		
Analysis Time	6/29/2023 12:01 PM	Analyst Name	FA\GC14
Report Time	6/29/2023 12:01:49 PM	Reporter Name	FA\GC14
Last Calib Update	6/29/2023 12:00 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

benzo (k) fluoranthene

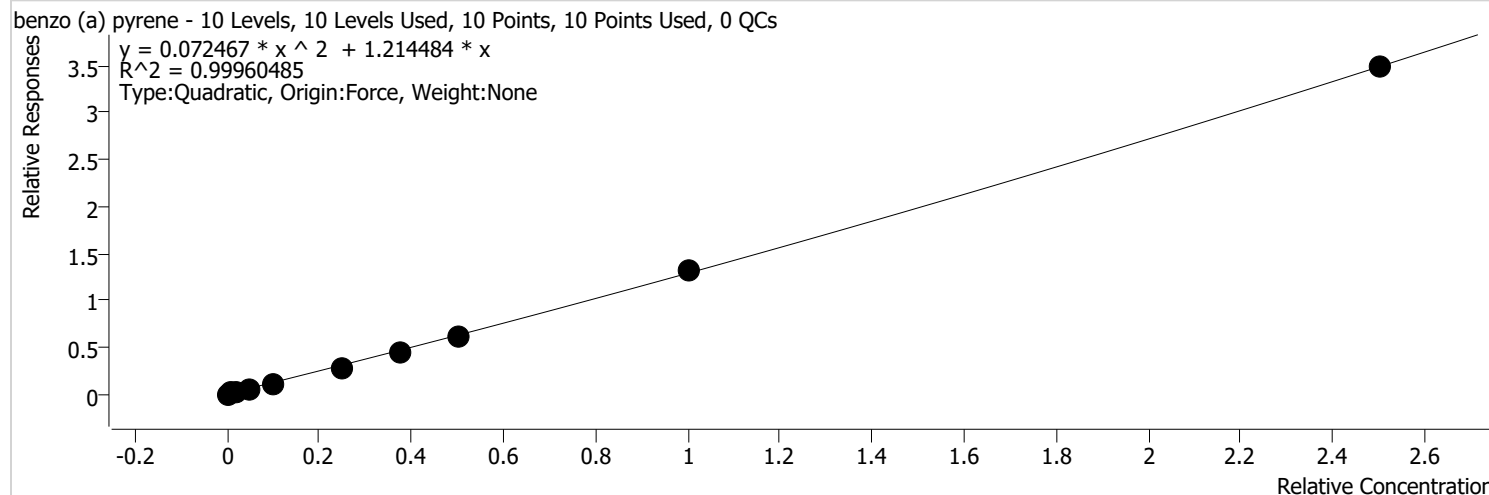


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
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C:\GC-14\Data\2023\062723\062722.D	Calibration	5	x	53882	200.0000	1.4449
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C:\GC-14\Data\2023\062723\062725.D	Calibration	8	x	326347	1000.0000	1.6506
C:\GC-14\Data\2023\062723\062726.D	Calibration	9	x	653930	2000.0000	1.6390
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Quantitative Analysis Complete Report

Batch Path	C:\GC-14\Data\2023\062723\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	6/29/2023 12:01 PM	Reporter Name	FA\GC14
Report Time	6/29/2023 12:01:49 PM	Batch State	Processed
Last Calib Update	6/29/2023 12:00 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

benzo (a) pyrene

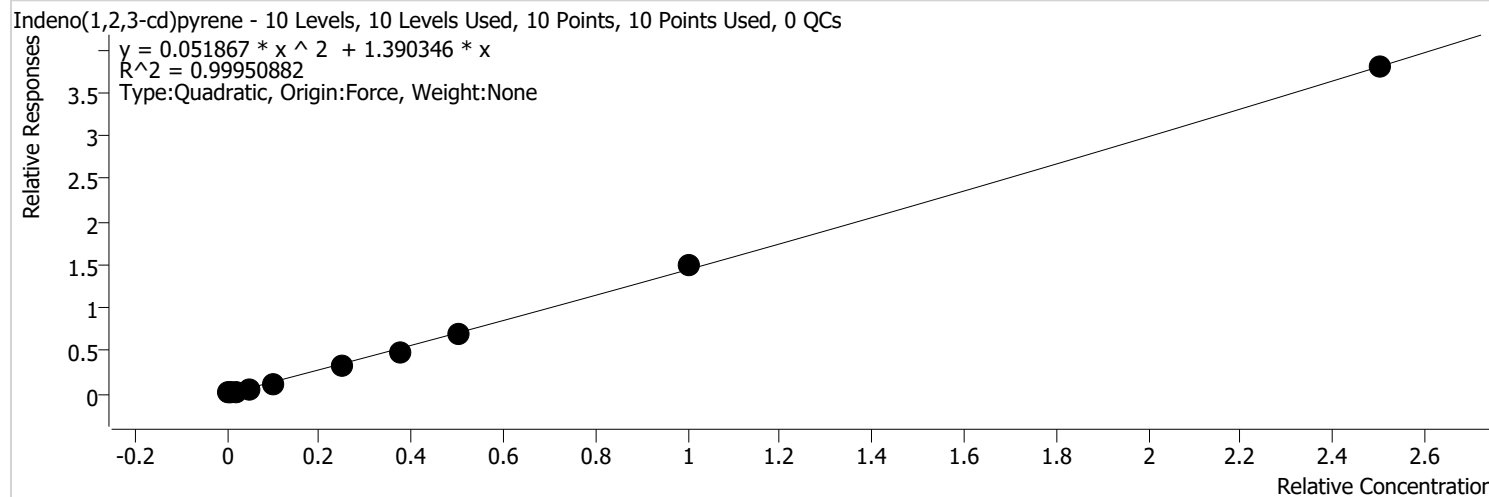


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
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C:\GC-14\Data\2023\062723\062721.D	Calibration	4	x	15880	100.0000	0.9569
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Quantitative Analysis Complete Report

Batch Path	C:\GC-14\Data\2023\062723\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	6/29/2023 12:01 PM	Reporter Name	FA\GC14
Report Time	6/29/2023 12:01:49 PM	Batch State	Processed
Last Calib Update	6/29/2023 12:00 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

Indeno(1,2,3-cd)pyrene

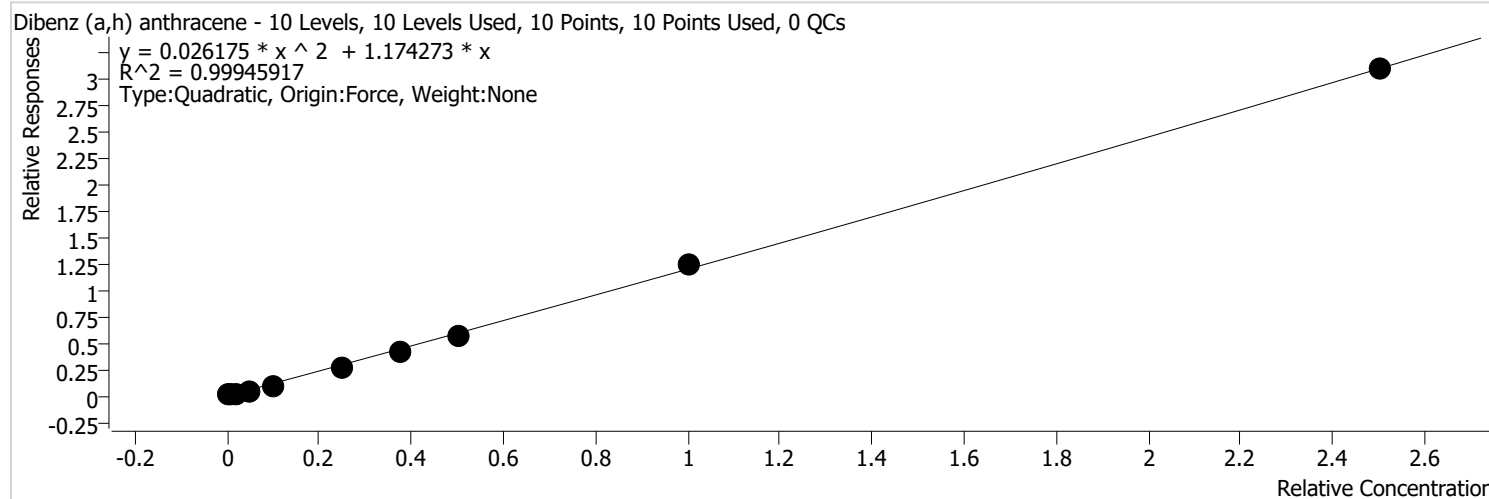


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C:\GC-14\Data\2023\062723\062721.D	Calibration	4	x	22512	100.0000	1.1550
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C:\GC-14\Data\2023\062723\062725.D	Calibration	8	x	304021	1000.0000	1.3697
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Quantitative Analysis Complete Report

Batch Path	C:\GC-14\Data\2023\062723\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	6/29/2023 12:01 PM	Reporter Name	FA\GC14
Report Time	6/29/2023 12:01:49 PM	Batch State	Processed
Last Calib Update	6/29/2023 12:00 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

Dibenz (a,h) anthracene

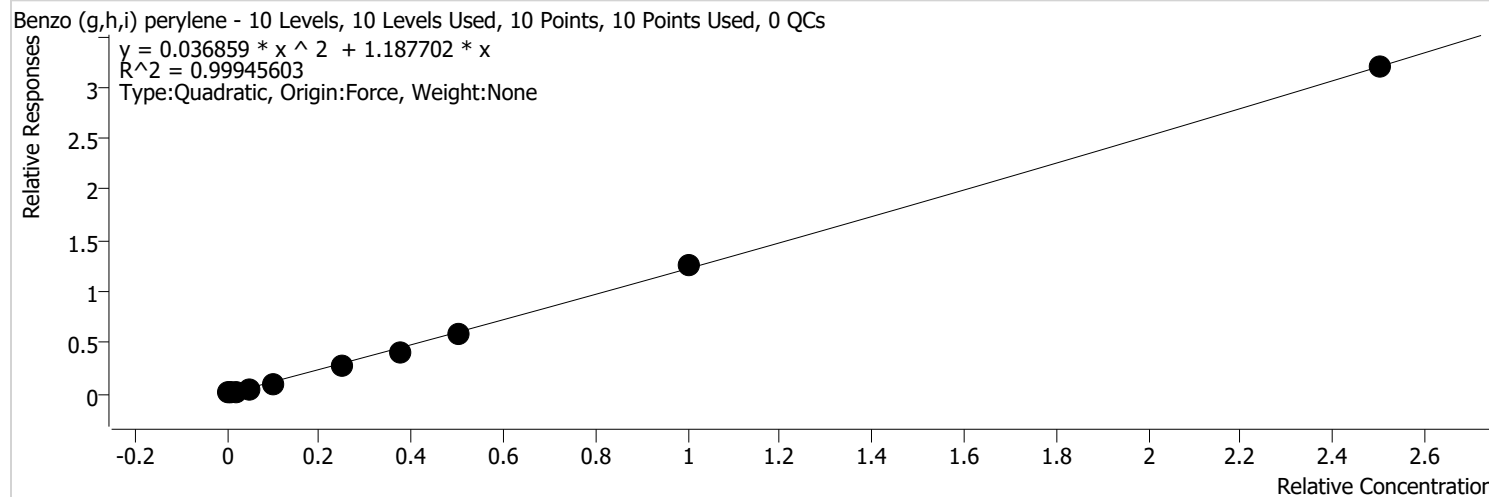


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
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C:\GC-14\Data\2023\062723\062722.D	Calibration	5	x	41346	200.0000	0.9571
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Quantitative Analysis Complete Report

Batch Path	C:\GC-14\Data\2023\062723\QuantResults\PAH ICAL.batch.bin		
Analysis Time	6/29/2023 12:01 PM	Analyst Name	FA\GC14
Report Time	6/29/2023 12:01:49 PM	Reporter Name	FA\GC14
Last Calib Update	6/29/2023 12:00 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Benzo (g,h,i) perylene

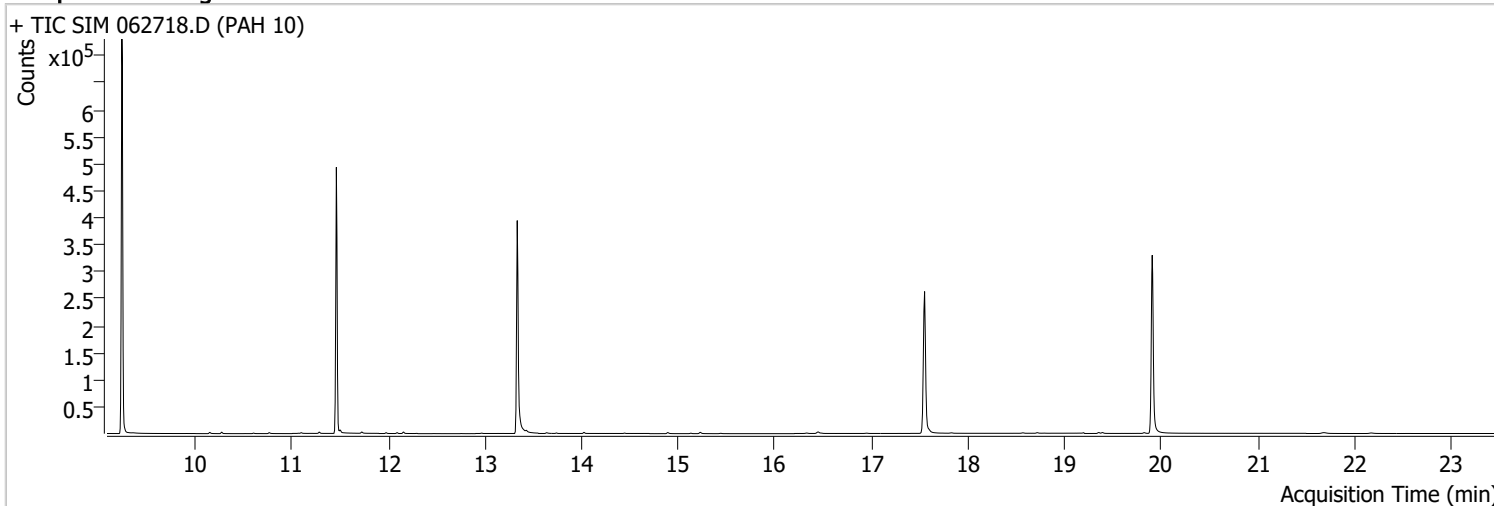


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
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C:\GC-14\Data\2023\062723\062720.D	Calibration	3	x	7773	40.0000	1.0531
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Quantitative Analysis Complete Report

Batch Path	C:\GC-14\Data\2023\062723\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	6/29/2023 12:01 PM	Reporter Name	FA\GC14
Report Time	6/29/2023 12:01:49 PM	Batch State	Processed
Last Calib Update	6/29/2023 12:00 PM	Quant Report Version	10.0
Quant Batch Version	10.0		
Acq. Time	6/27/2023 5:44 PM	Data File	062718.D
Sample Type	Cal	Sample Name	PAH 10
Dilution	1	Acq. Method	8270E_SIM_625

Sample Chromatogram

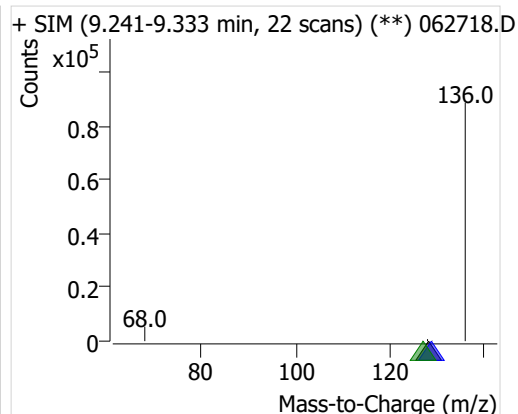
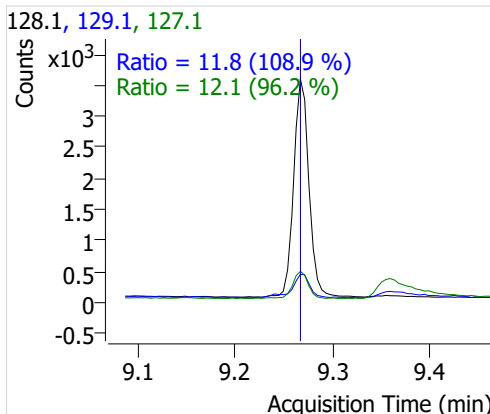
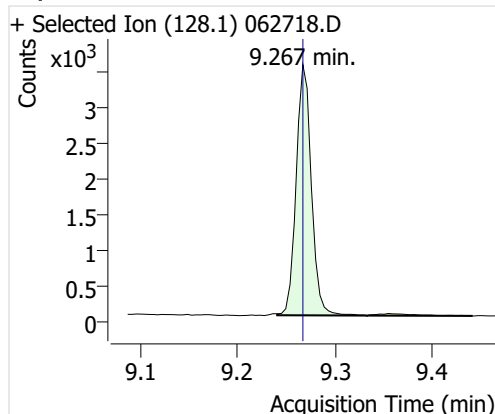


Compound	ISTD	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Units
Naphthalene	Naphthalene-d8 (IS)	9.267	3818	697782	0.0055	10.4366	µg/L
2-Methylnaphthalene	Naphthalene-d8 (IS)	10.152	1338	697782	0.0019	7.3896	µg/L
1-Methylnaphthalene	Naphthalene-d8 (IS)	10.275	1321	697782	0.0019	7.6671	µg/L
2-Fluorobiphenyl (surr)	Naphthalene-d8 (IS)	10.604	853	697782	0.0012	3.7358	µg/L
2-Chloronaphthalene	Naphthalene-d8 (IS)	10.768	1413	697782	0.0020	7.2106	µg/L
Dimethyl phthalate	Naphthalene-d8 (IS)	11.098	1415	697782	0.0020	7.2250	µg/L
Acenaphthylene	Naphthalene-d8 (IS)	11.283	1921	697782	0.0028	7.3217	µg/L
Acenaphthene	Acenaphthene-d10 (IS)	11.504	1606	228706	0.0070	10.1546	µg/L
Dibenzofuran	Acenaphthene-d10 (IS)	11.725	2080	228706	0.0091	9.1315	µg/L
Diethylphthalate	Acenaphthene-d10 (IS)	11.977	1357	228706	0.0059	7.7844	µg/L
Fluorene	Acenaphthene-d10 (IS)	12.159	1543	228706	0.0067	8.7217	µg/L
2,4,6-Tribromophenol	Acenaphthene-d10 (IS)	12.468	147	228706	0.0006	9.9683	µg/L
Pentachlorophenol	Acenaphthene-d10 (IS)	13.132	56	228706	0.0002	5.8943	µg/L
Phenanthrene	Phenanthrene-d10 (IS)	13.360	2491	440441	0.0057	9.1908	µg/L
Anthracene	Phenanthrene-d10 (IS)	13.427	2113	440441	0.0048	7.7200	µg/L
Carbazole	Phenanthrene-d10 (IS)	13.637	1923	440441	0.0044	7.5953	µg/L
Di-n-butyl phthalate	Phenanthrene-d10 (IS)	14.024	2027	440441	0.0046	7.1131	µg/L
Fluoranthene	Phenanthrene-d10 (IS)	14.893	2334	440441	0.0053	7.9817	µg/L
Pyrene	Phenanthrene-d10 (IS)	15.229	2768	440441	0.0063	8.8788	µg/L
Terphenyl-d14 (surr)	Phenanthrene-d10 (IS)	15.439	839	440441	0.0019	4.5685	µg/L
Benzyl Butyl phthalate	Phenanthrene-d10 (IS)	16.328	703	440441	0.0016	13.9848	µg/L
bis (2-Ethylhexyl) adipate	Phenanthrene-d10 (IS)	16.480	445	440441	0.0010	5.5422	µg/L
Benzo (a) anthracene	Phenanthrene-d10 (IS)	17.529	3145	440441	0.0071	12.1007	µg/L
bis(2-Ethylhexyl) phthalate	Chrysene-d12 (IS)	17.565	1170	336716	0.0035	7.6691	µg/L
Chrysene	Chrysene-d12 (IS)	17.594	2846	336716	0.0085	10.6295	µg/L
Di-n-octyl phthalate	Chrysene-d12 (IS)	18.714	1329	336716	0.0039	12.5640	µg/L
benzo (b) fluoranthene	Chrysene-d12 (IS)	19.352	1985	336716	0.0059	8.3626	µg/L
benzo (k) fluoranthene	Chrysene-d12 (IS)	19.391	1946	336716	0.0058	7.0865	µg/L
benzo (a) pyrene	Chrysene-d12 (IS)	19.823	1543	336716	0.0046	7.5458	µg/L
Indeno(1,2,3-cd)pyrene	Perylene-d12 (IS)	21.676	2228	399665	0.0056	8.0162	µg/L

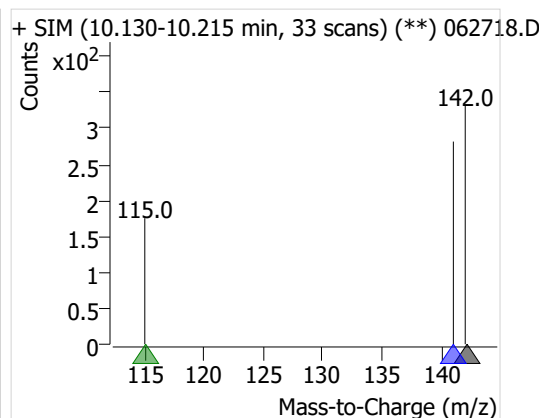
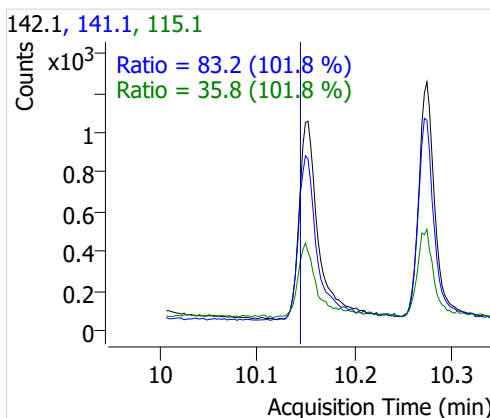
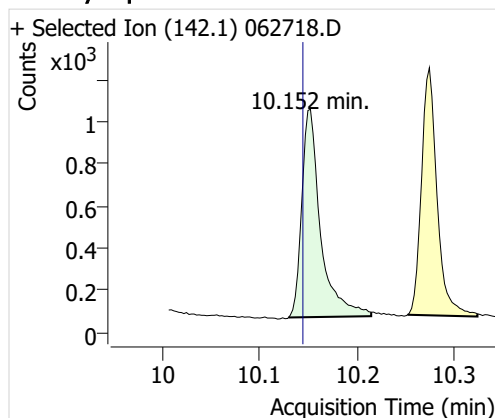
Quantitative Analysis Complete Report

Compound	ISTD	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Units
Dibenz (a,h) anthracene	Perylene-d12 (IS)	21.690	1786	399665	0.0045	7.6123	µg/L
Benzo (g,h,i) perylene	Perylene-d12 (IS)	22.173	2141	399665	0.0054	9.0178	µg/L

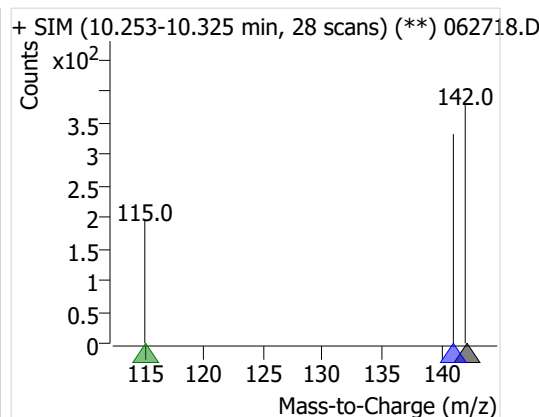
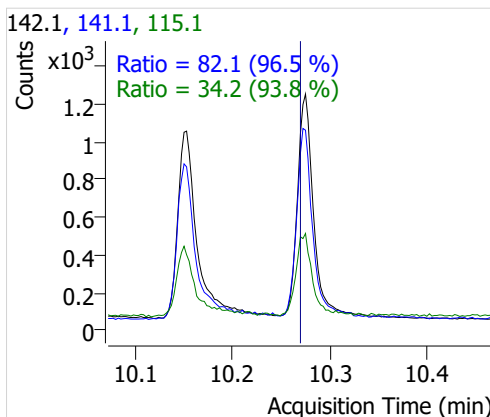
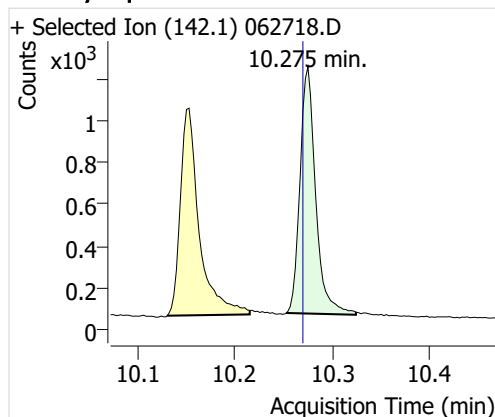
Naphthalene



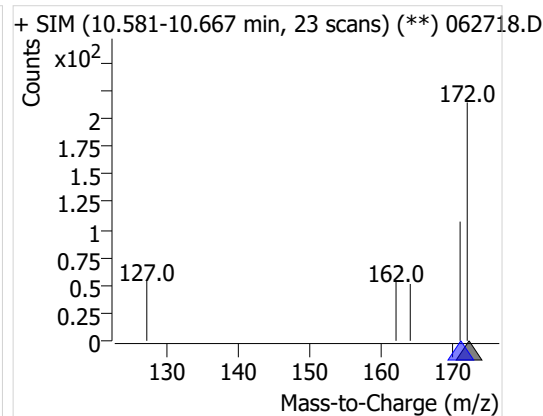
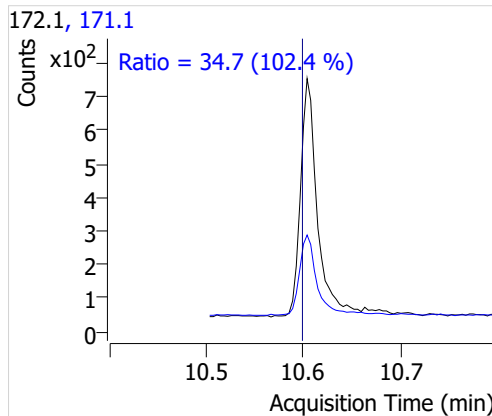
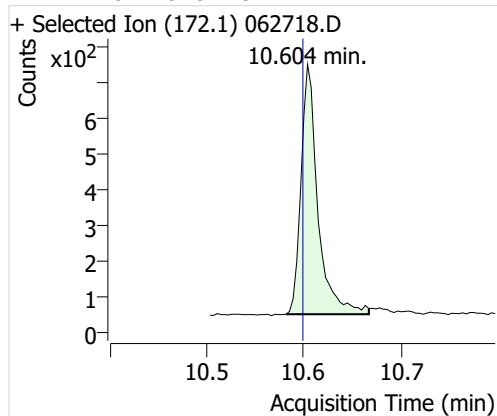
2-Methylnaphthalene



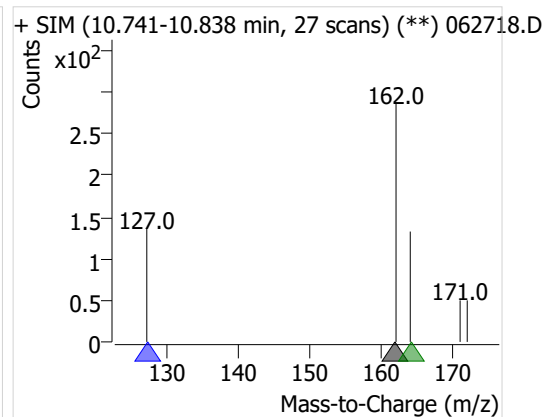
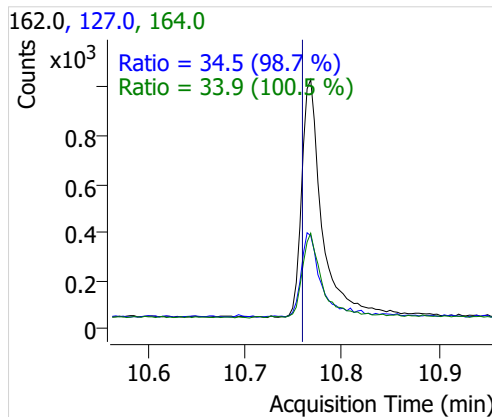
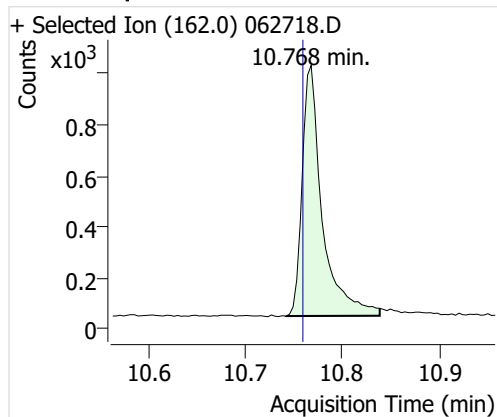
1-Methylnaphthalene



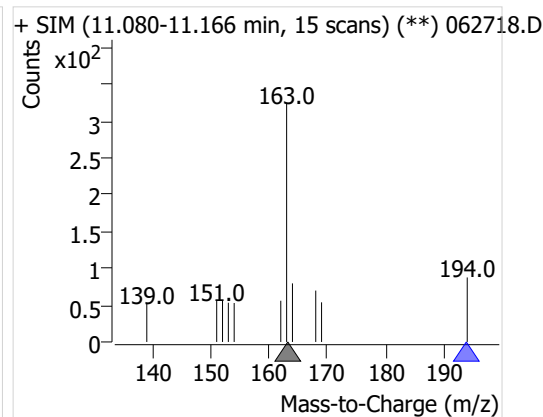
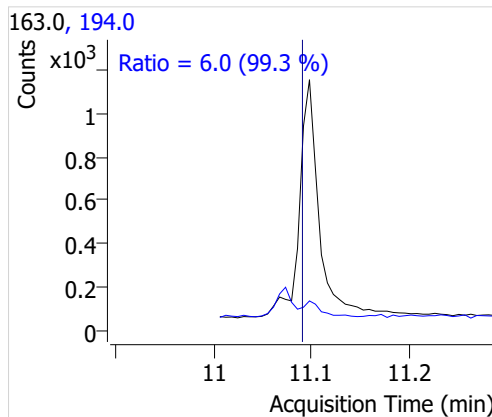
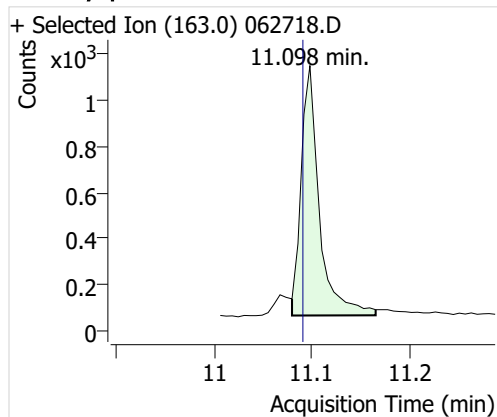
2-Fluorobiphenyl (surr)



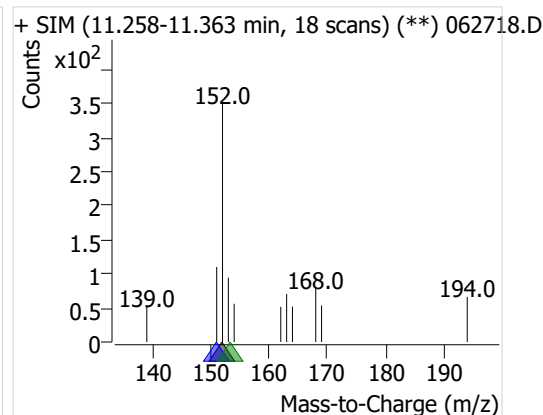
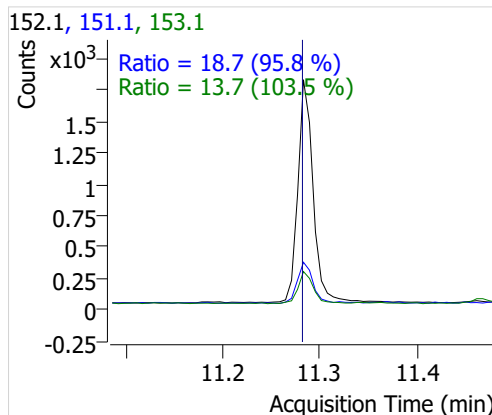
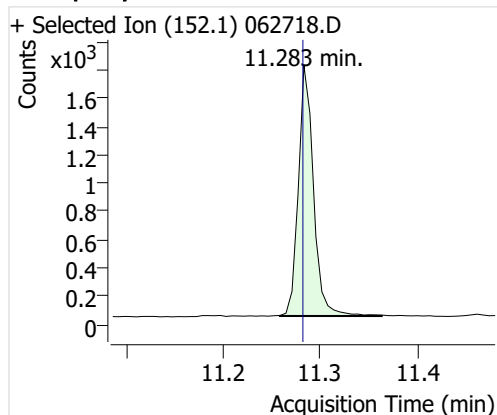
2-Chloronaphthalene



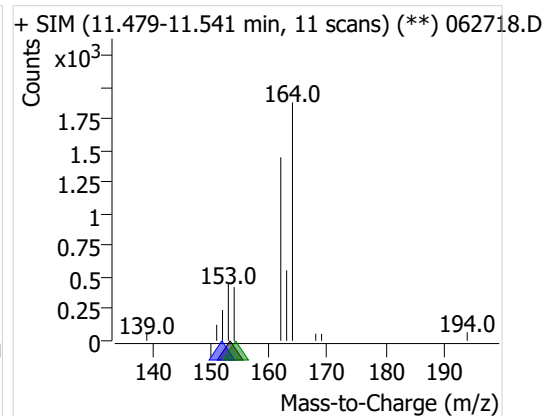
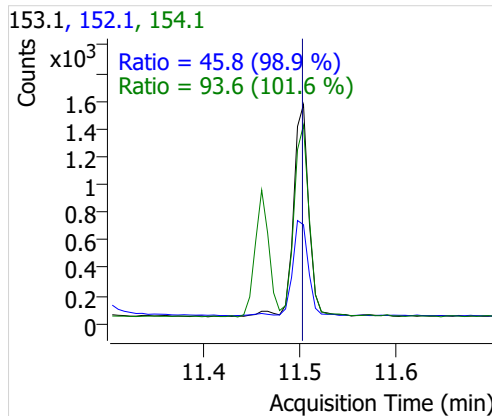
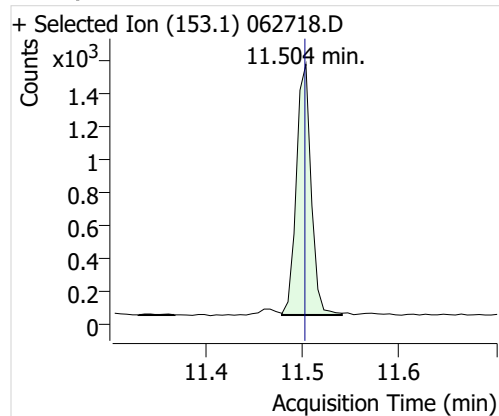
Dimethyl phthalate



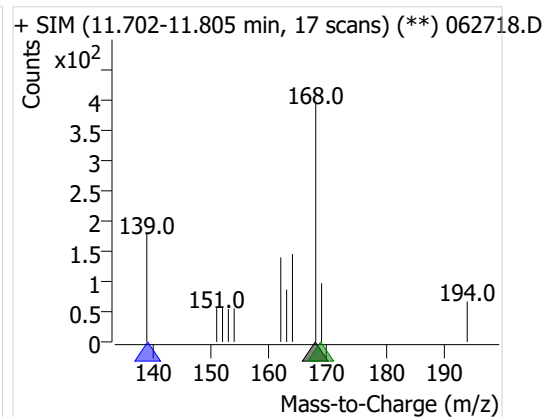
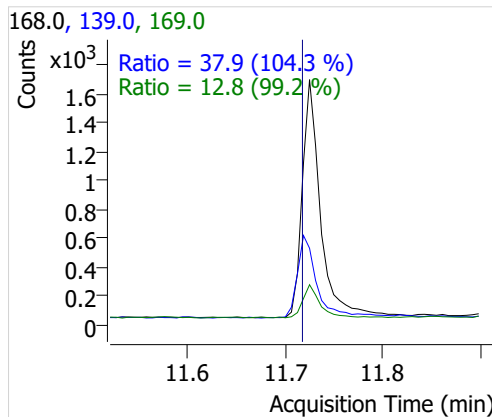
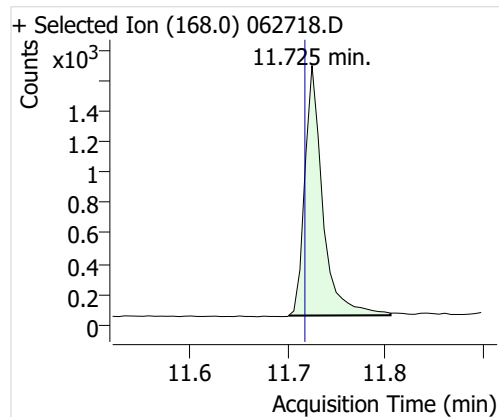
Acenaphthylene



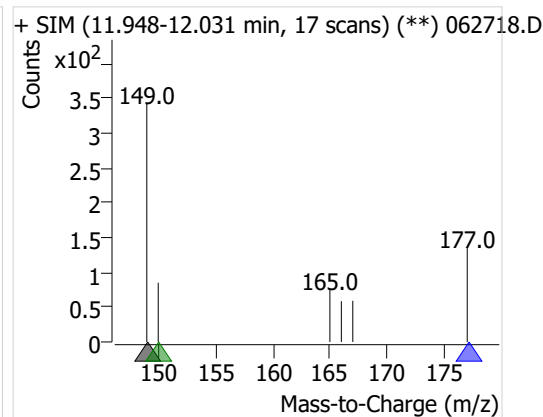
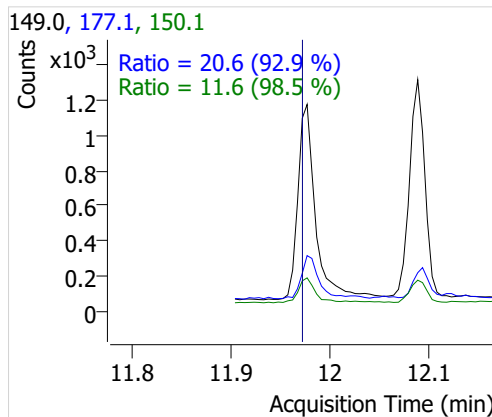
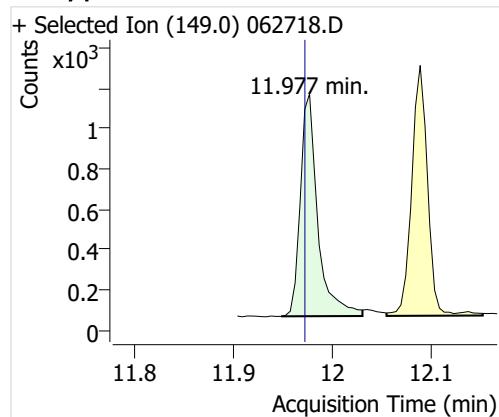
Acenaphthene



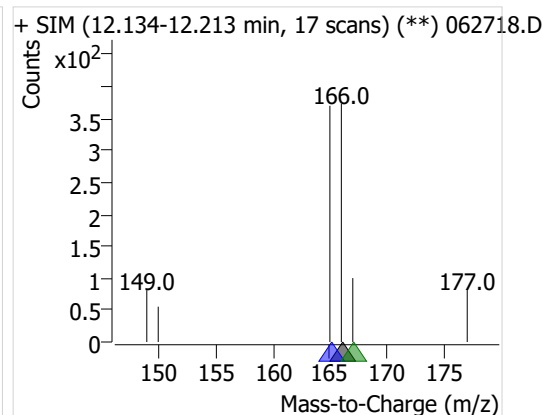
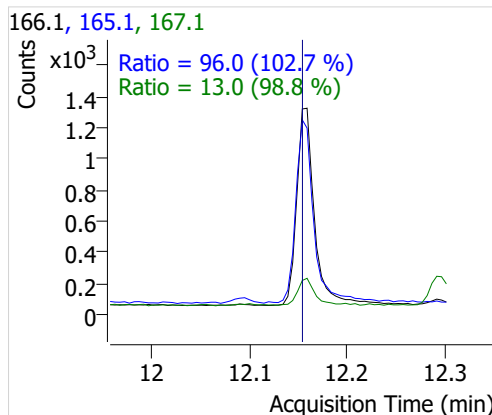
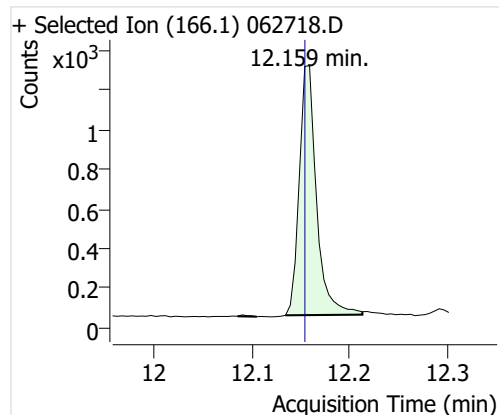
Dibenzofuran



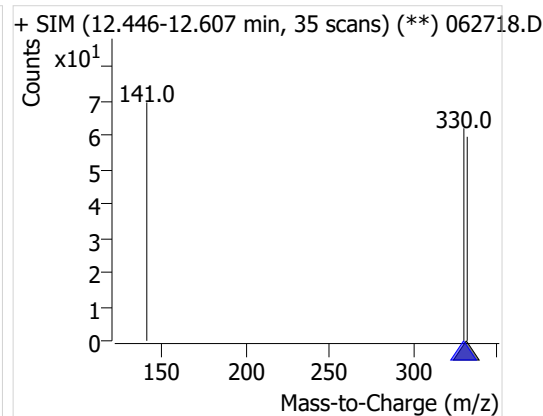
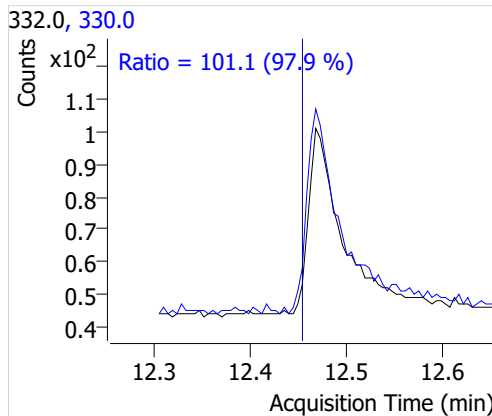
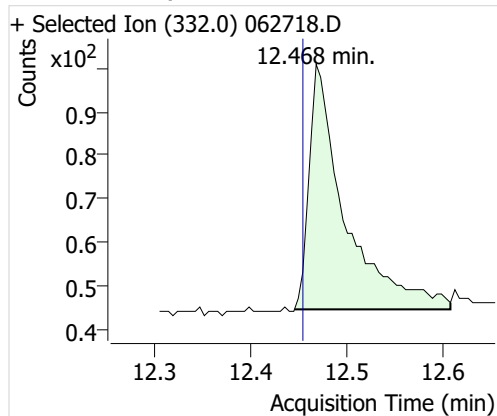
Diethylphthalate



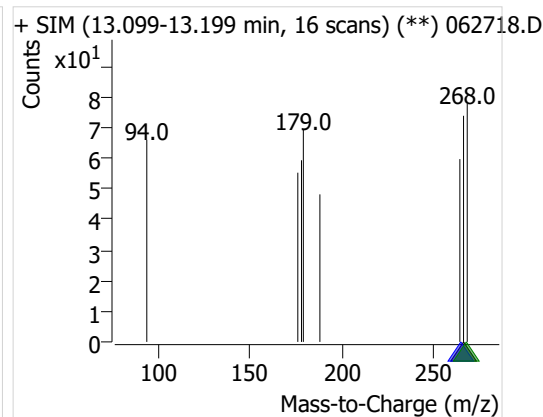
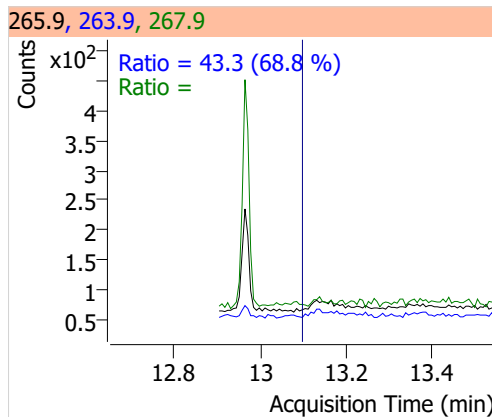
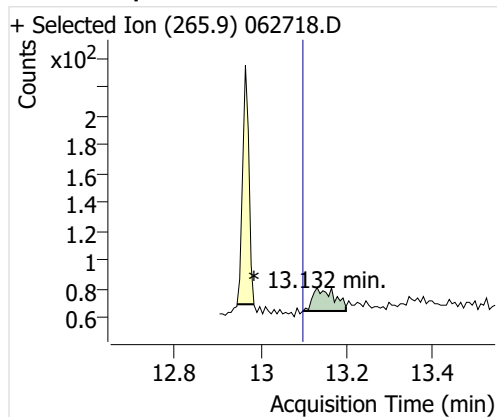
Fluorene



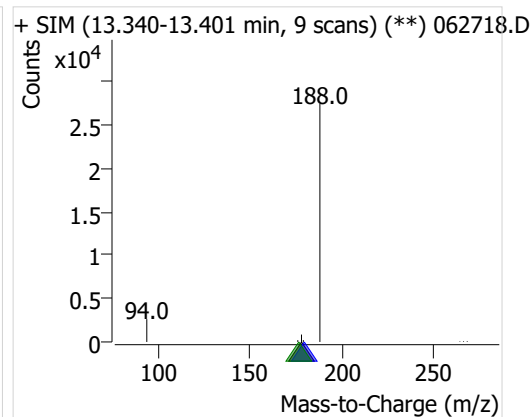
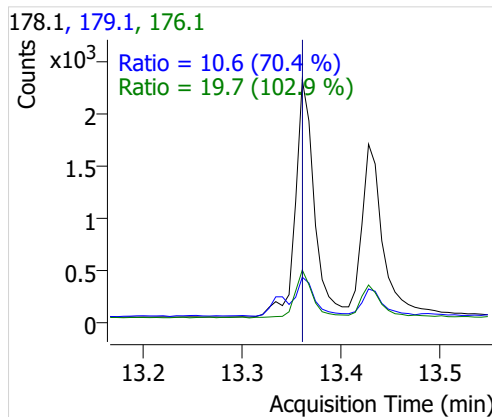
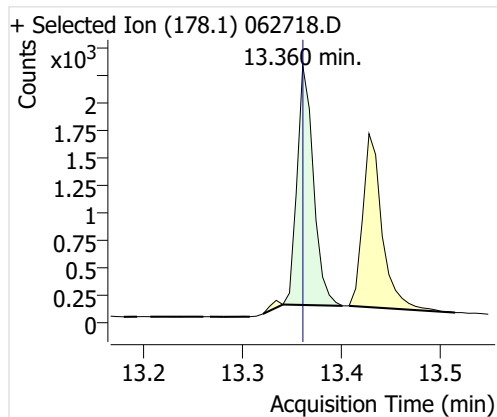
2,4,6-Tribromophenol



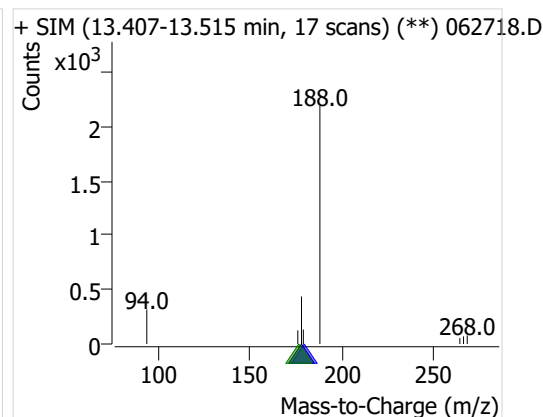
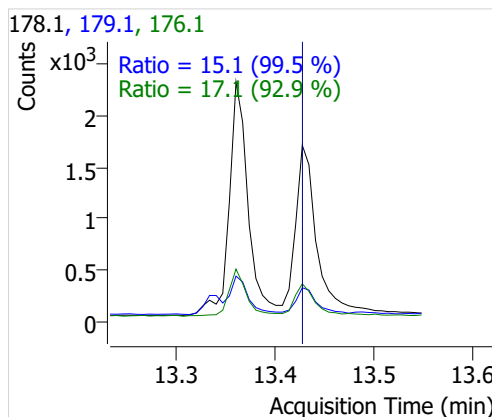
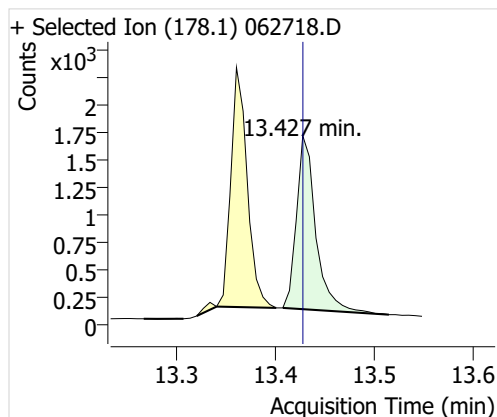
Pentachlorophenol



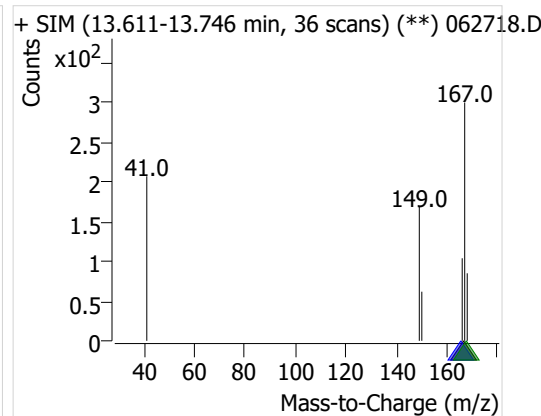
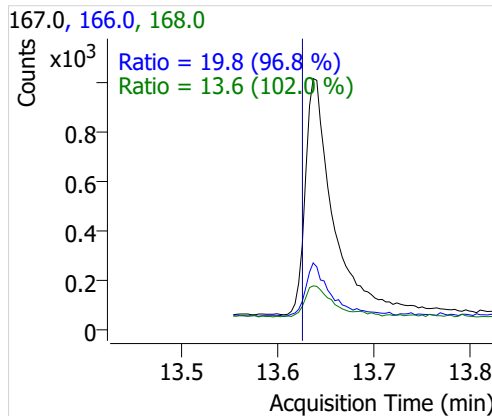
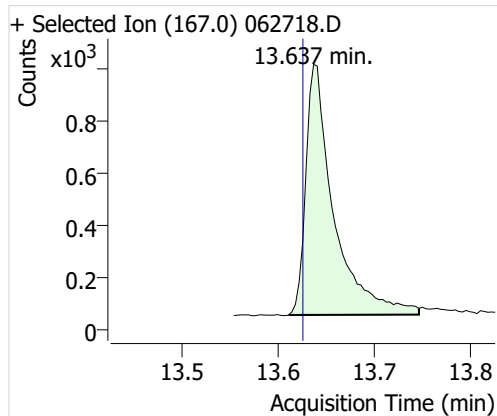
Phenanthrene



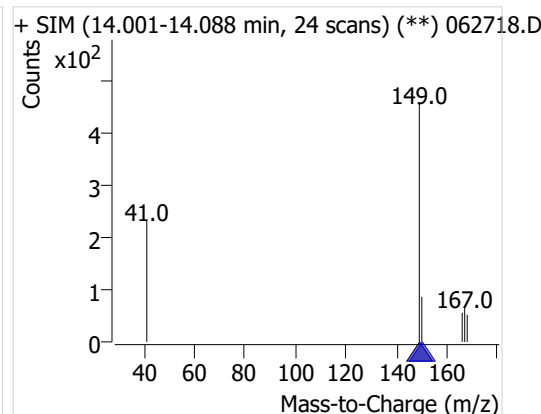
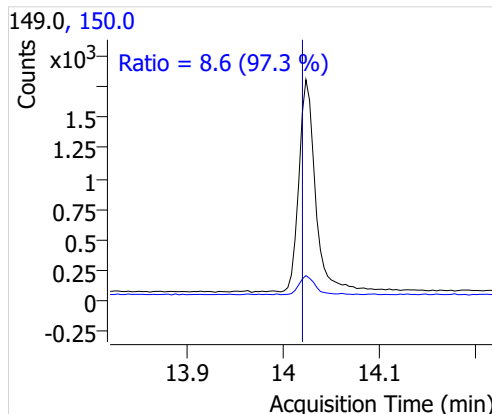
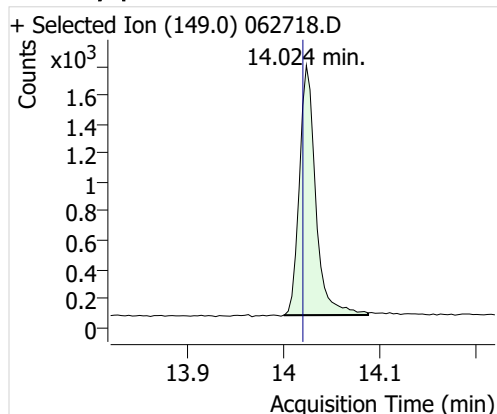
Anthracene



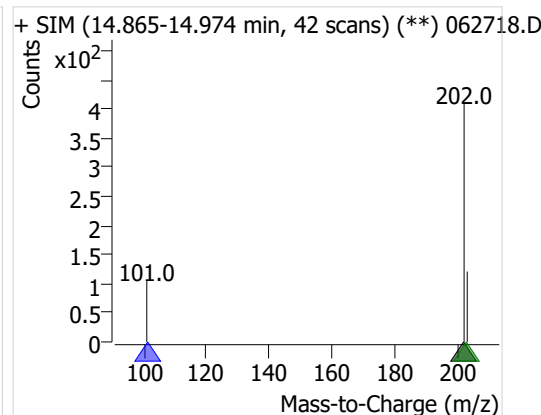
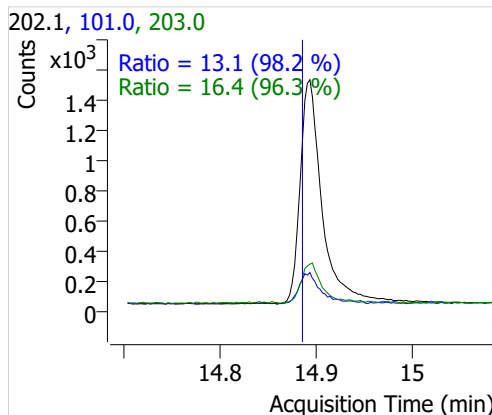
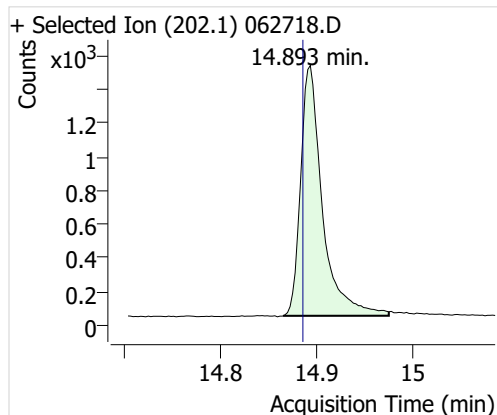
Carbazole



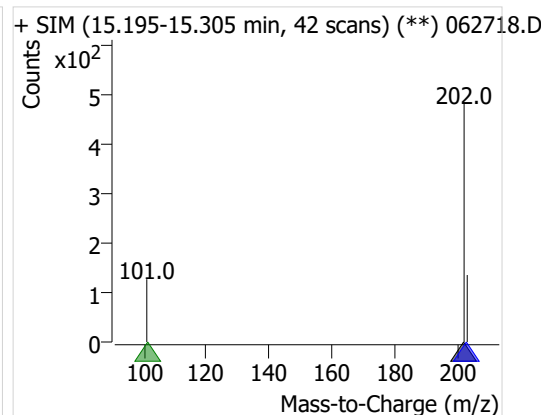
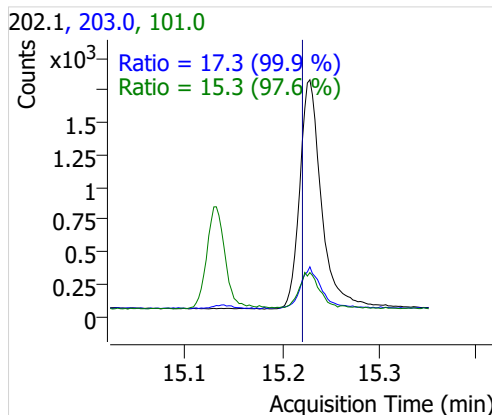
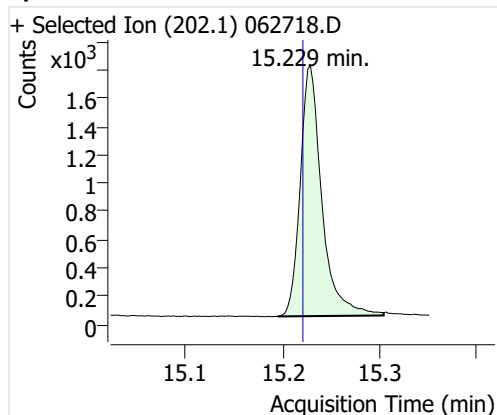
Di-n-butyl phthalate



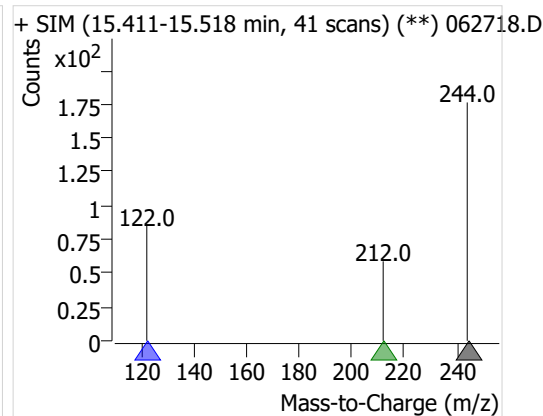
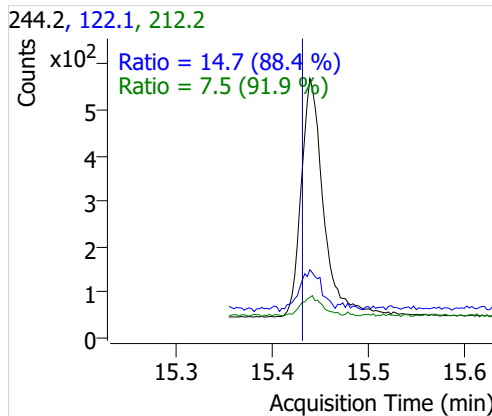
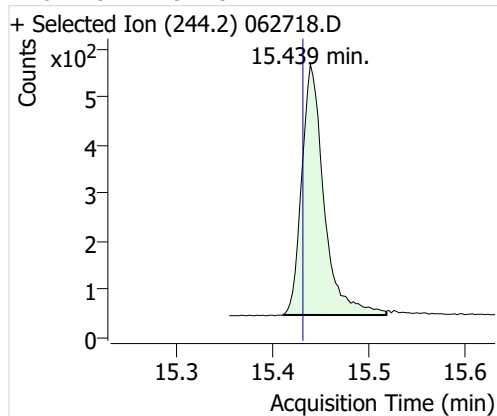
Fluoranthene



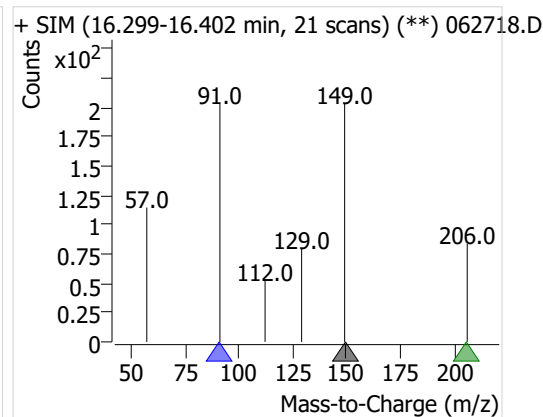
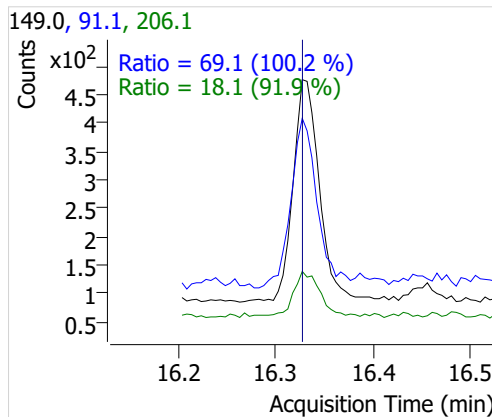
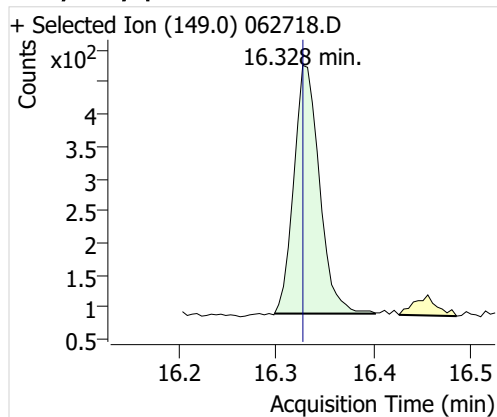
Pyrene



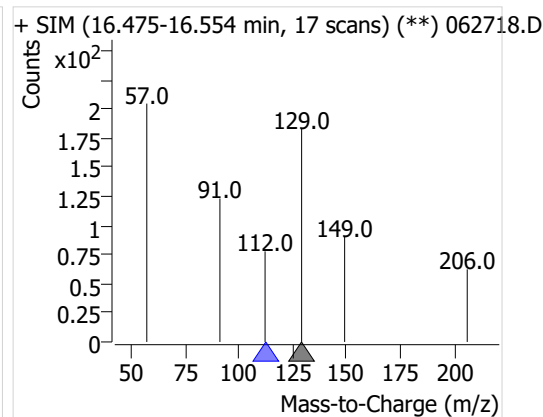
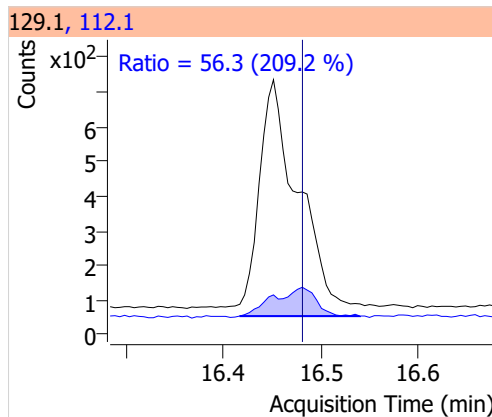
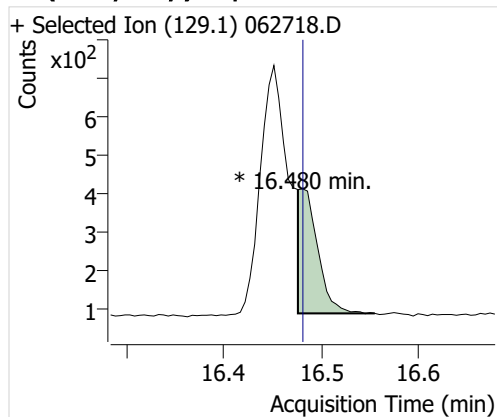
Terphenyl-d14 (surr)



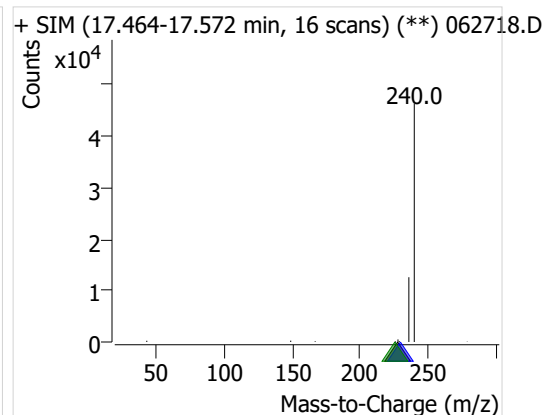
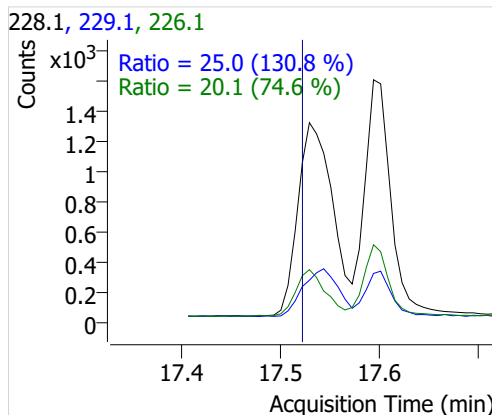
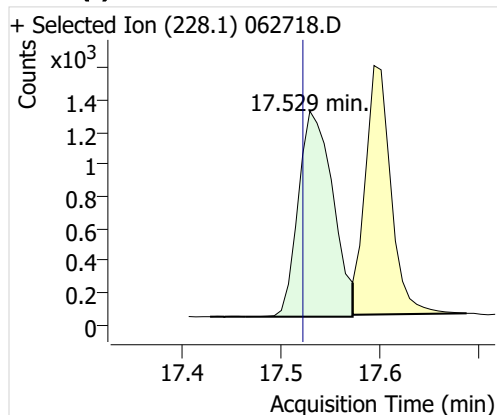
Benzyl Butyl phthalate



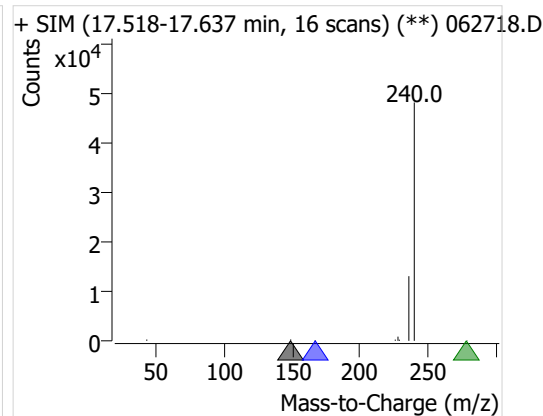
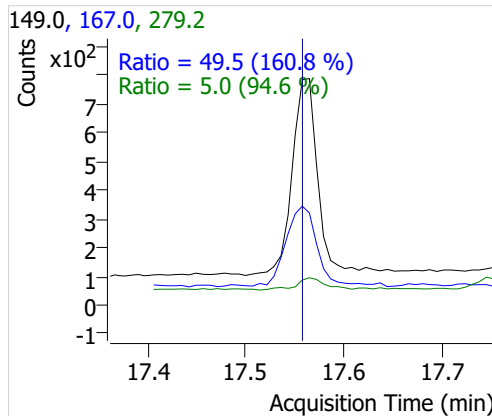
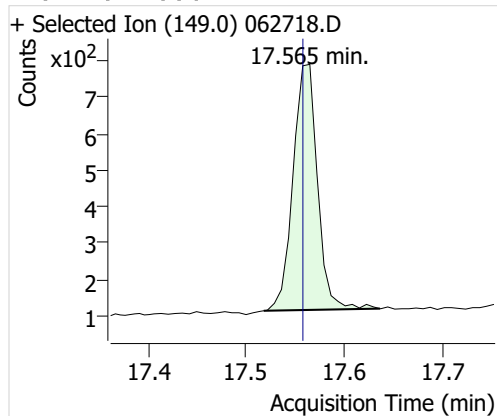
bis (2-Ethylhexyl) adipate



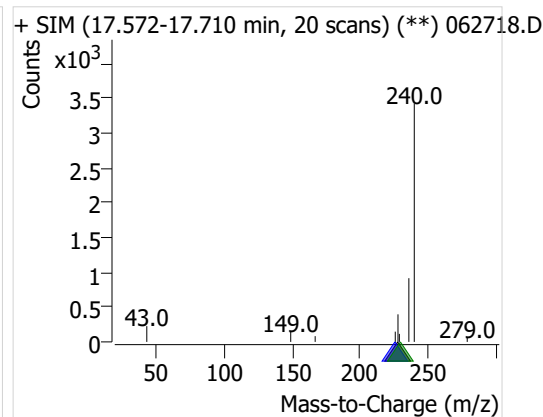
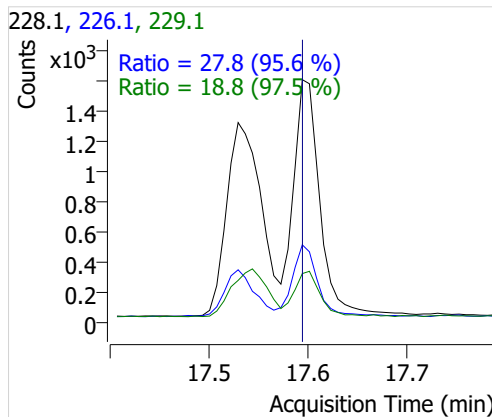
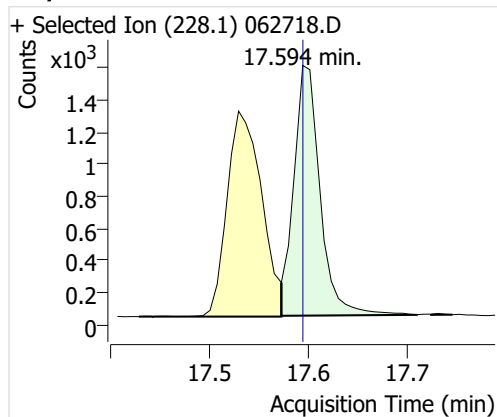
Benzo (a) anthracene



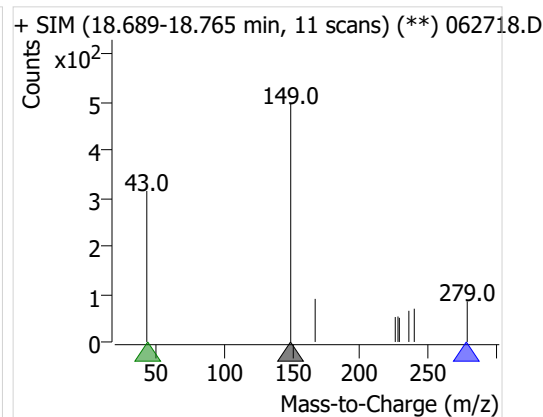
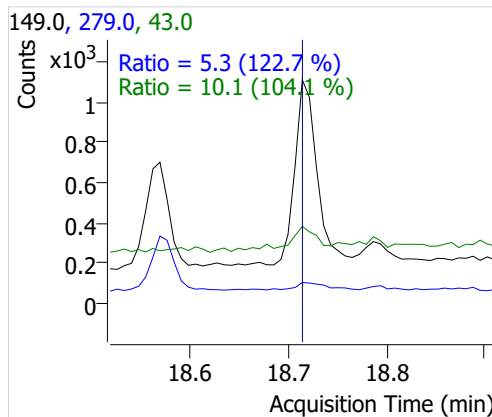
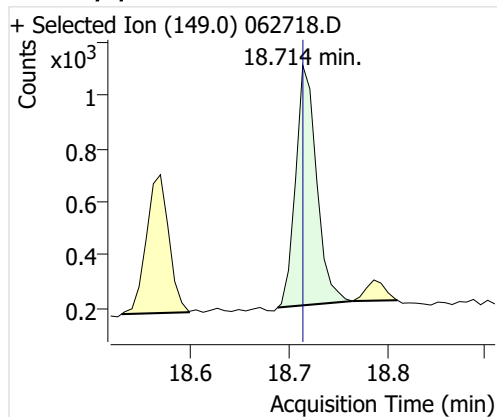
bis(2-Ethylhexyl) phthalate



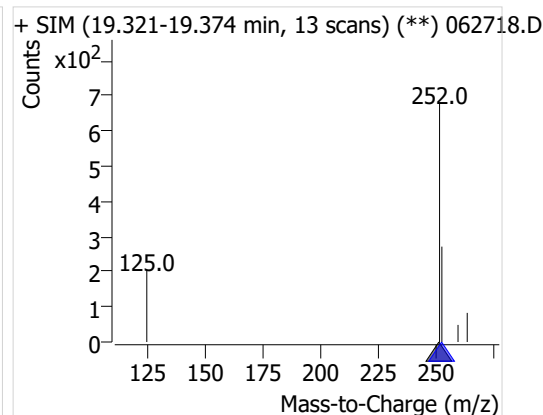
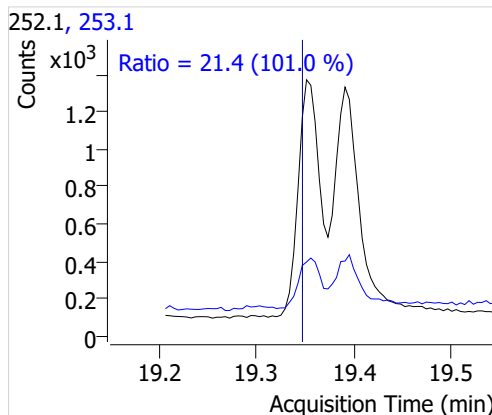
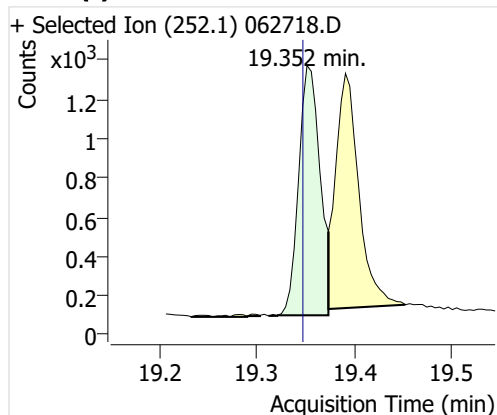
Chrysene



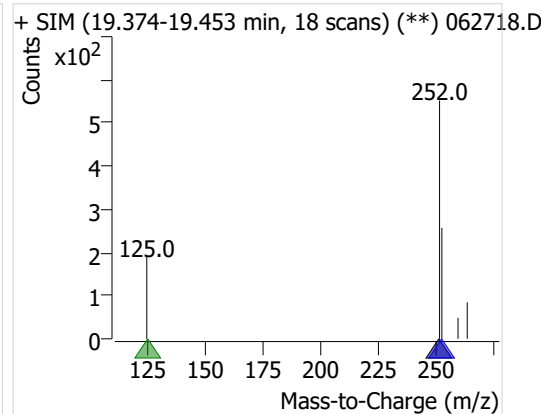
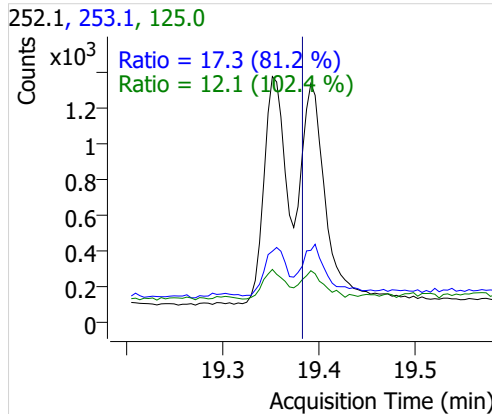
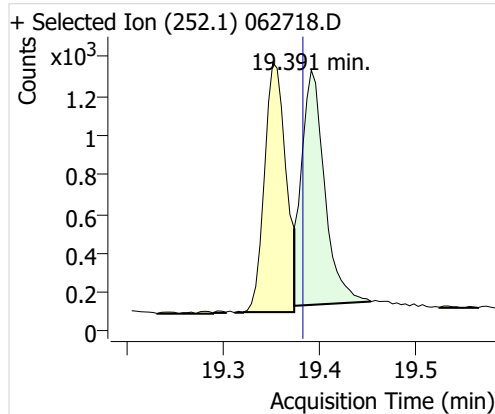
Di-n-octyl phthalate



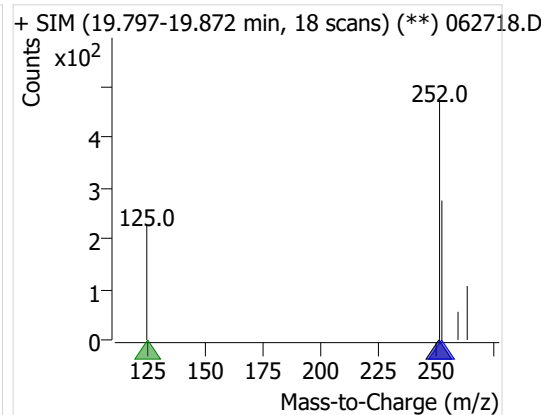
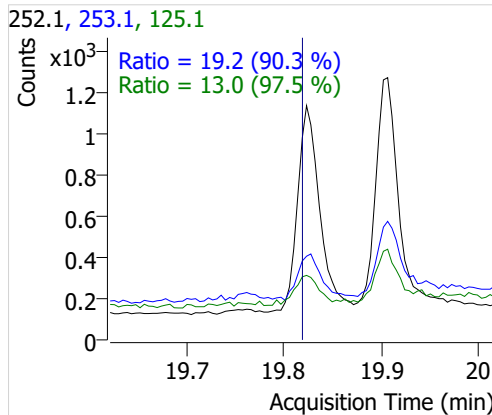
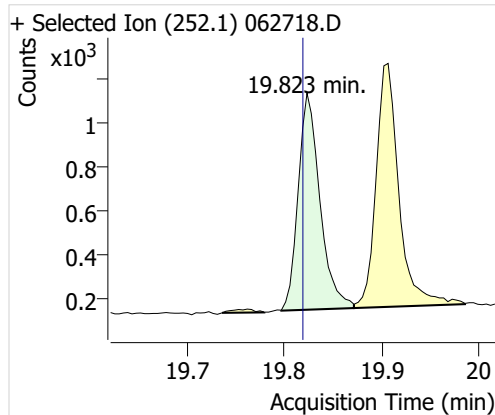
benzo (b) fluoranthene



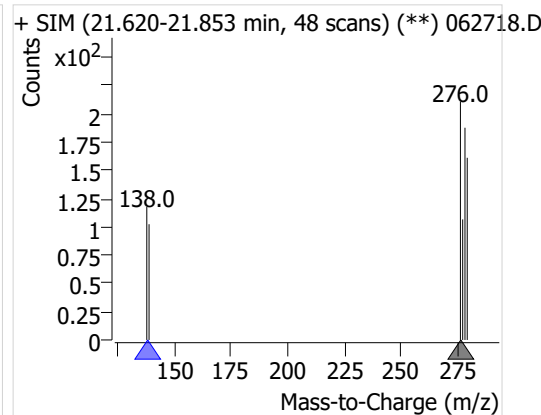
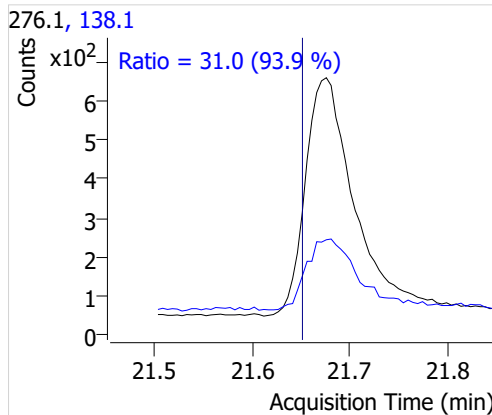
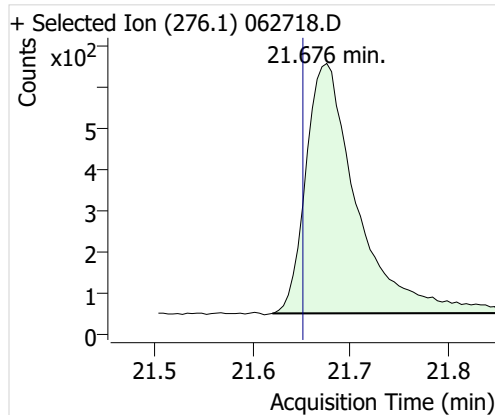
benzo (k) fluoranthene



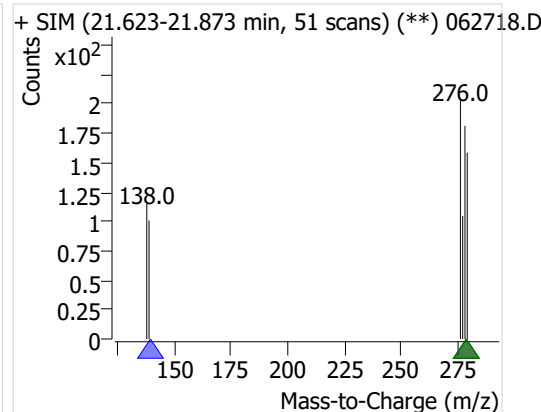
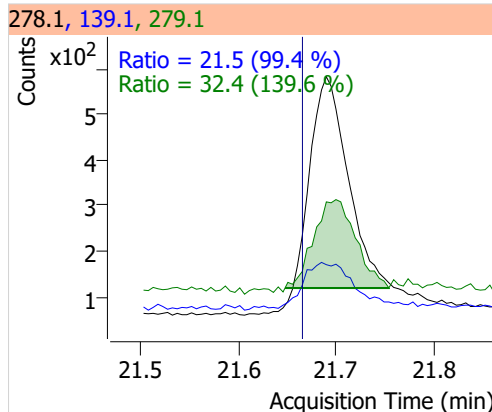
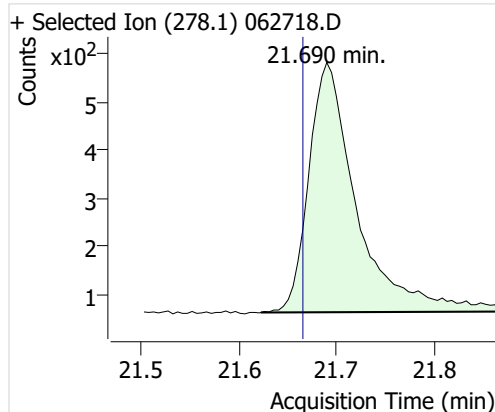
benzo (a) pyrene



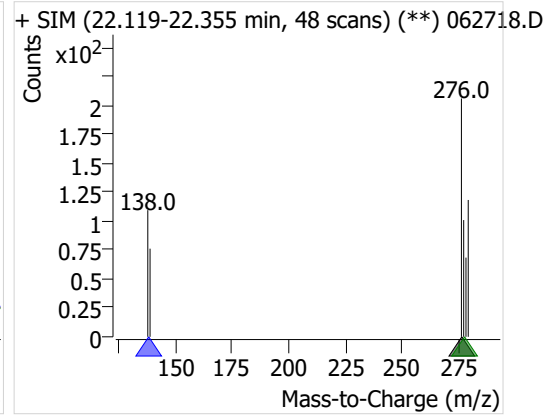
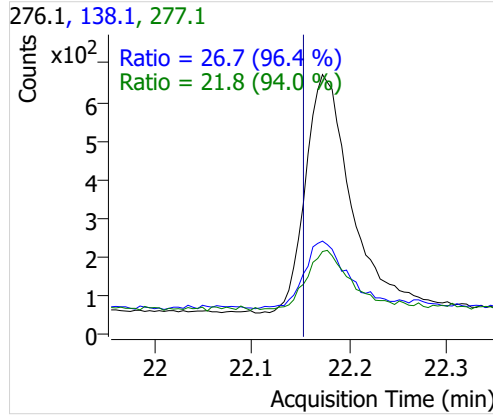
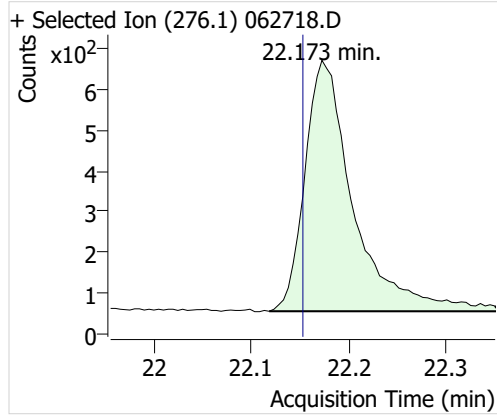
Indeno(1,2,3-cd)pyrene



Dibenz (a,h) anthracene



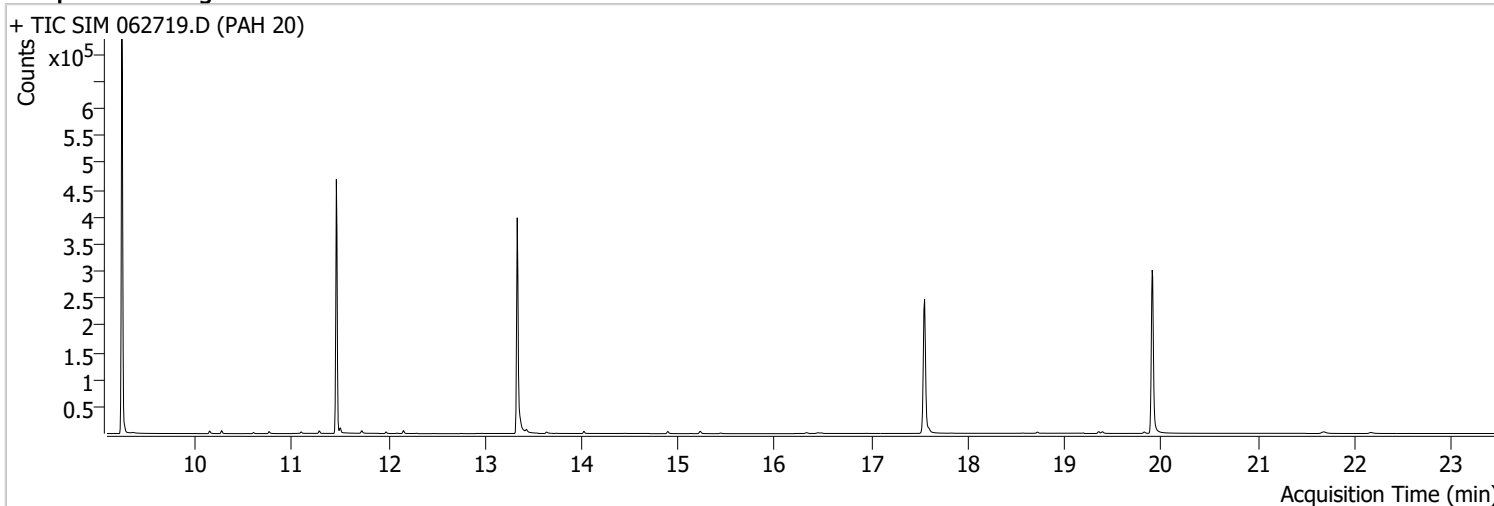
Benzo (g,h,i) perylene



Quantitative Analysis Complete Report

Batch Path	C:\GC-14\Data\2023\062723\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	6/29/2023 12:01 PM	Reporter Name	FA\GC14
Report Time	6/29/2023 12:01:53 PM	Batch State	Processed
Last Calib Update	6/29/2023 12:00 PM	Quant Report Version	10.0
Quant Batch Version	10.0		
Acq. Time	6/27/2023 6:12 PM	Data File	062719.D
Sample Type	Cal	Sample Name	PAH 20
Dilution	1	Acq. Method	8270E_SIM_625

Sample Chromatogram

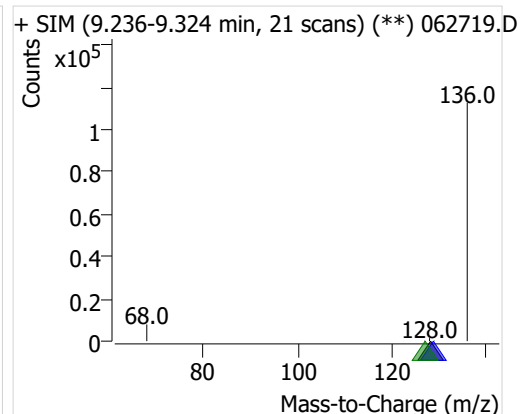
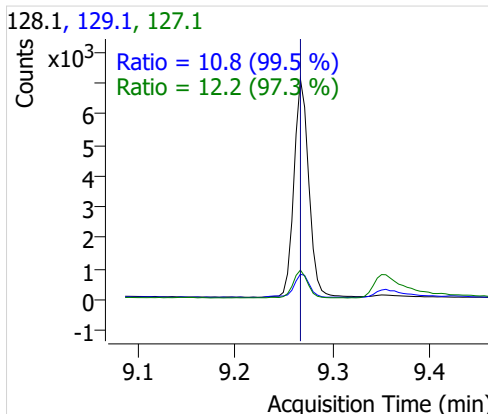
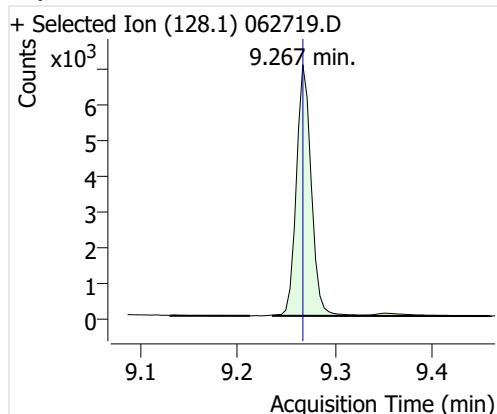


Compound	ISTD	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Units
Naphthalene	Naphthalene-d8 (IS)	9.267	7471	685054	0.0109	20.8032	µg/L
2-Methylnaphthalene	Naphthalene-d8 (IS)	10.150	2702	685054	0.0039	15.2028	µg/L
1-Methylnaphthalene	Naphthalene-d8 (IS)	10.275	2606	685054	0.0038	15.4061	µg/L
2-Fluorobiphenyl (surr)	Naphthalene-d8 (IS)	10.603	1703	685054	0.0025	7.5981	µg/L
2-Chloronaphthalene	Naphthalene-d8 (IS)	10.764	2795	685054	0.0041	14.5319	µg/L
Dimethyl phthalate	Naphthalene-d8 (IS)	11.098	2733	685054	0.0040	14.2073	µg/L
Acenaphthylene	Naphthalene-d8 (IS)	11.283	3689	685054	0.0054	14.3223	µg/L
Acenaphthene	Acenaphthene-d10 (IS)	11.504	3132	223609	0.0140	20.2526	µg/L
Dibenzofuran	Acenaphthene-d10 (IS)	11.725	4002	223609	0.0179	17.9722	µg/L
Diethylphthalate	Acenaphthene-d10 (IS)	11.977	2601	223609	0.0116	15.2550	µg/L
Fluorene	Acenaphthene-d10 (IS)	12.159	3011	223609	0.0135	17.4055	µg/L
2,4,6-Tribromophenol	Acenaphthene-d10 (IS)	12.468	233	223609	0.0010	16.1537	µg/L
Pentachlorophenol	Acenaphthene-d10 (IS)	13.139	84	223609	0.0004	9.0587	µg/L
Phenanthrene	Phenanthrene-d10 (IS)	13.360	4990	429816	0.0116	18.8661	µg/L
Anthracene	Phenanthrene-d10 (IS)	13.427	4083	429816	0.0095	15.2863	µg/L
Carbazole	Phenanthrene-d10 (IS)	13.637	3614	429816	0.0084	14.6298	µg/L
Di-n-butyl phthalate	Phenanthrene-d10 (IS)	14.024	3772	429816	0.0088	13.5628	µg/L
Fluoranthene	Phenanthrene-d10 (IS)	14.893	4391	429816	0.0102	15.3921	µg/L
Pyrene	Phenanthrene-d10 (IS)	15.229	4886	429816	0.0114	16.0610	µg/L
Terphenyl-d14 (surr)	Phenanthrene-d10 (IS)	15.439	1484	429816	0.0035	8.2821	µg/L
Benzyl Butyl phthalate	Phenanthrene-d10 (IS)	16.333	1317	429816	0.0031	21.2896	µg/L
bis (2-Ethylhexyl) adipate	Phenanthrene-d10 (IS)	16.480	1042	429816	0.0024	13.2772	µg/L
Benzo (a) anthracene	Phenanthrene-d10 (IS)	17.529	4759	429816	0.0111	18.7606	µg/L
bis(2-Ethylhexyl) phthalate	Chrysene-d12 (IS)	17.558	2074	321570	0.0065	14.2323	µg/L
Chrysene	Chrysene-d12 (IS)	17.594	5335	321570	0.0166	20.8641	µg/L
Di-n-octyl phthalate	Chrysene-d12 (IS)	18.722	2559	321570	0.0080	20.4783	µg/L
benzo (b) fluoranthene	Chrysene-d12 (IS)	19.351	3688	321570	0.0115	16.2665	µg/L
benzo (k) fluoranthene	Chrysene-d12 (IS)	19.391	3696	321570	0.0115	14.0932	µg/L
benzo (a) pyrene	Chrysene-d12 (IS)	19.823	2942	321570	0.0091	15.0593	µg/L
Indeno(1,2,3-cd)pyrene	Perylene-d12 (IS)	21.671	4067	379248	0.0107	15.4236	µg/L

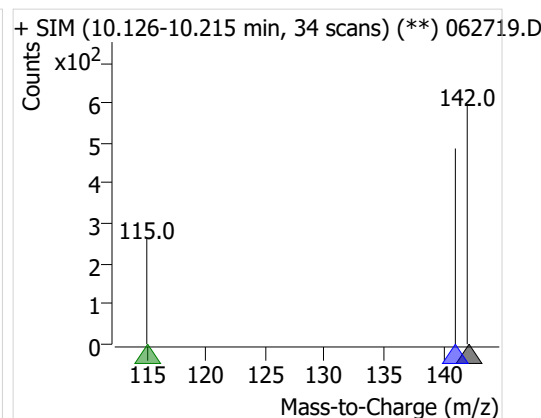
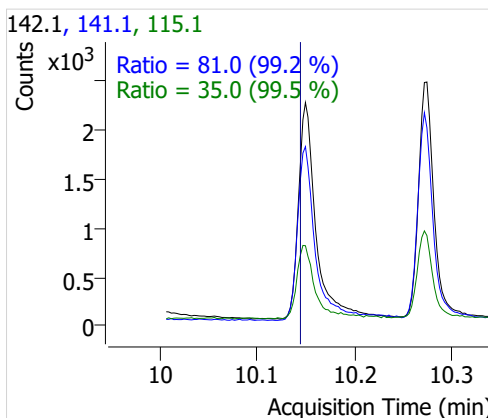
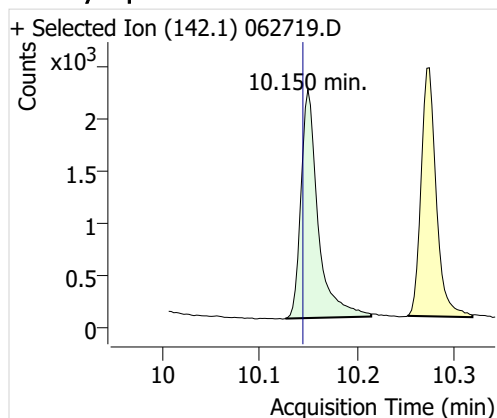
Quantitative Analysis Complete Report

Compound	ISTD	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Units
Dibenz (a,h) anthracene	Perylene-d12 (IS)	21.690	3155	379248	0.0083	14.1648	µg/L
Benzo (g,h,i) perylene	Perylene-d12 (IS)	22.173	3792	379248	0.0100	16.8312	µg/L

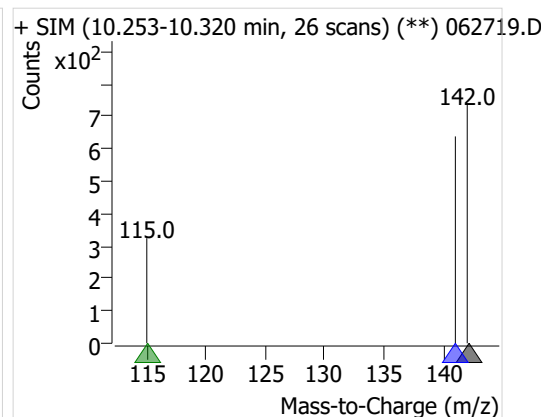
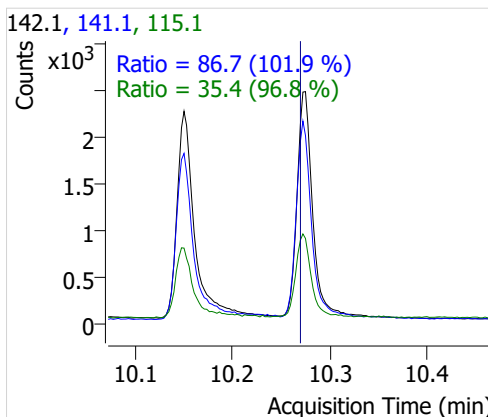
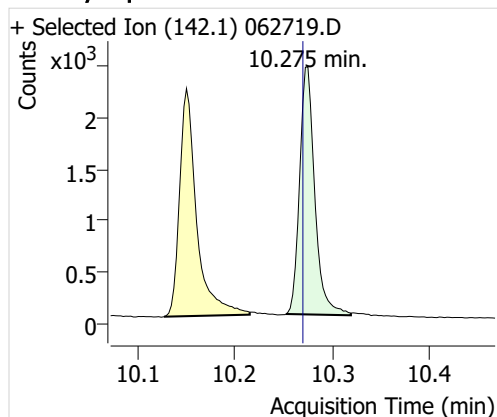
Naphthalene



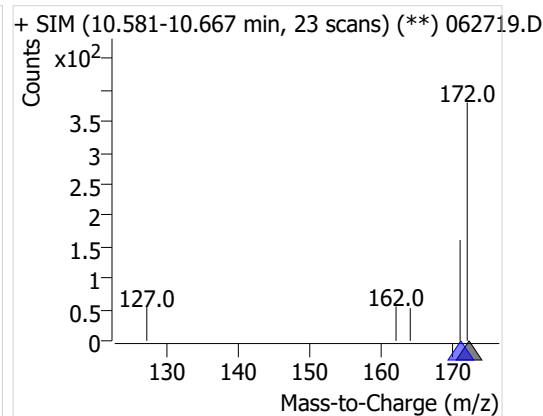
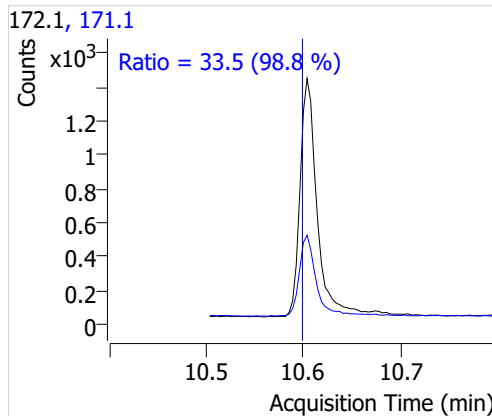
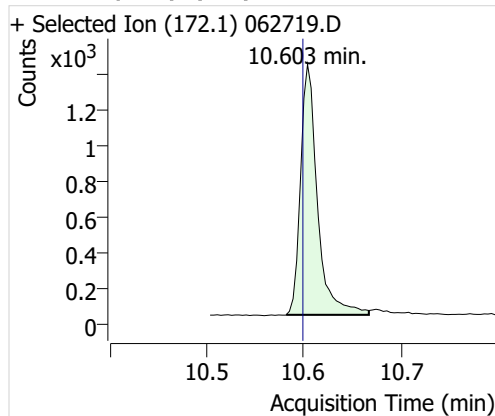
2-Methylnaphthalene



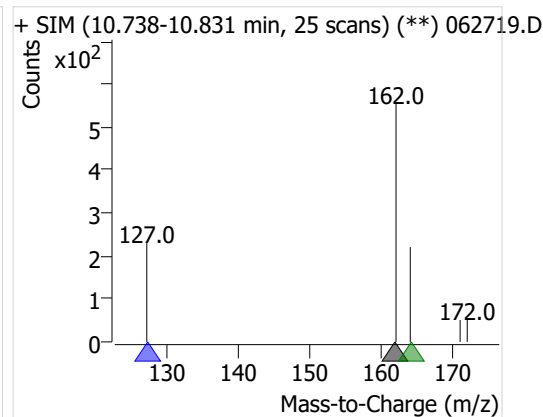
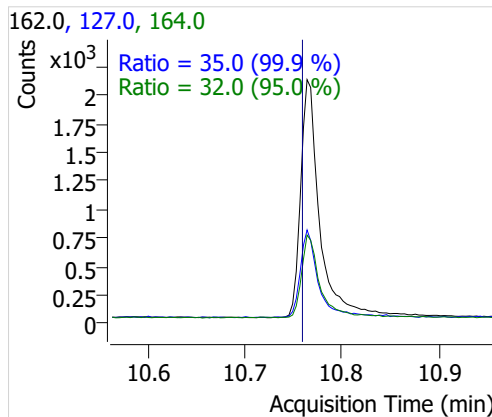
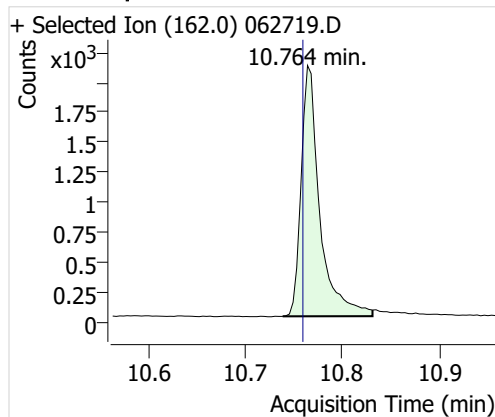
1-Methylnaphthalene



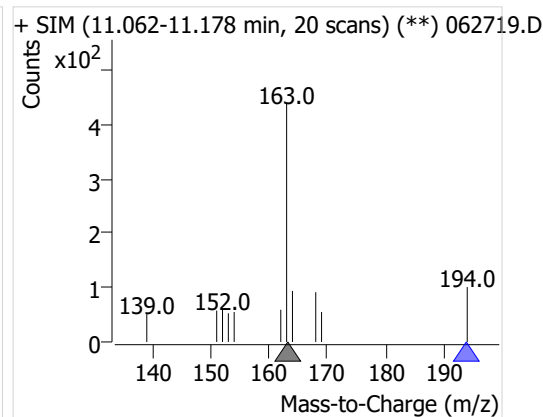
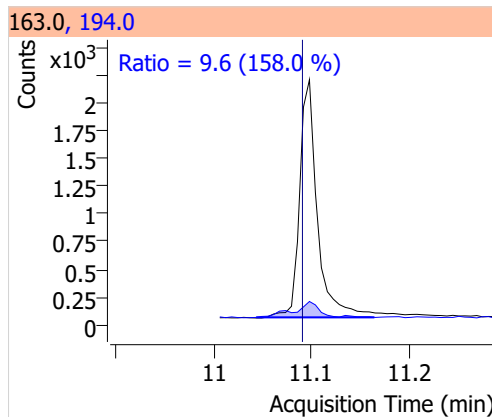
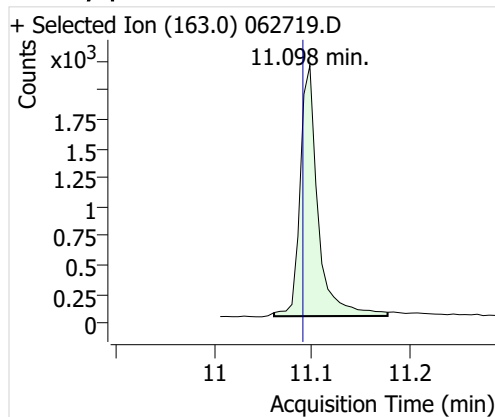
2-Fluorobiphenyl (surr)



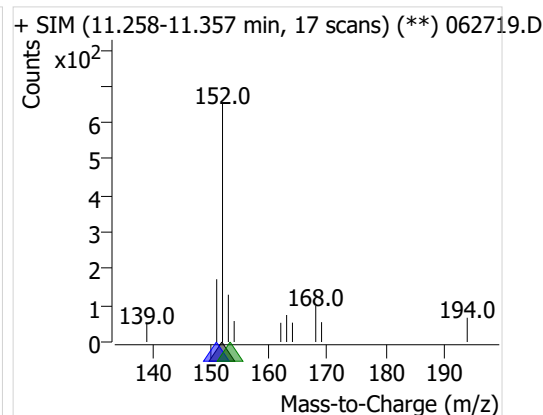
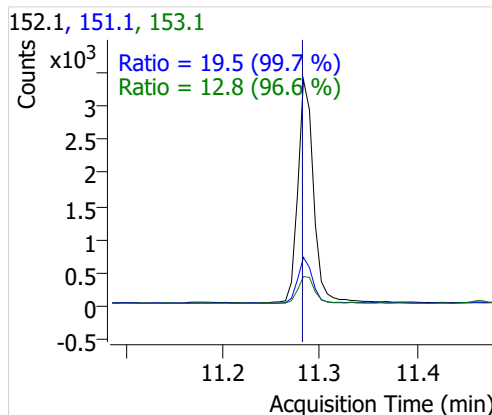
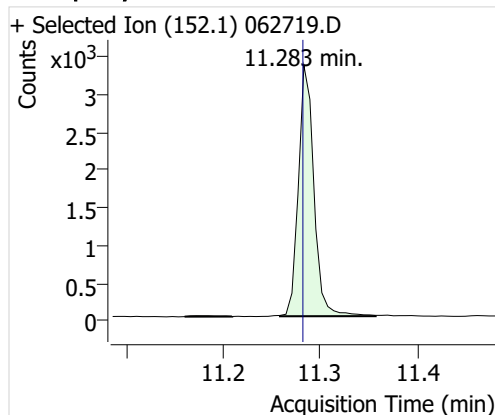
2-Chloronaphthalene



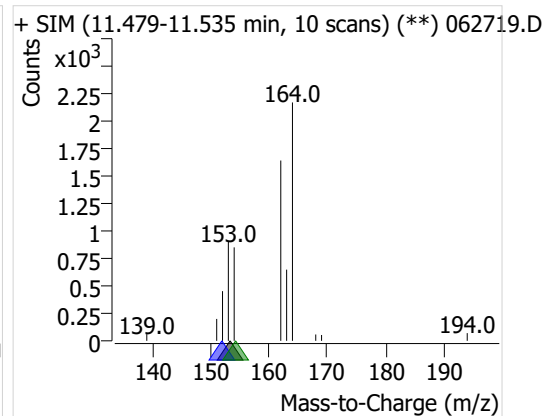
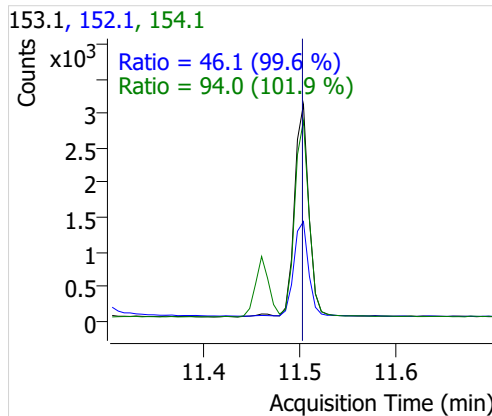
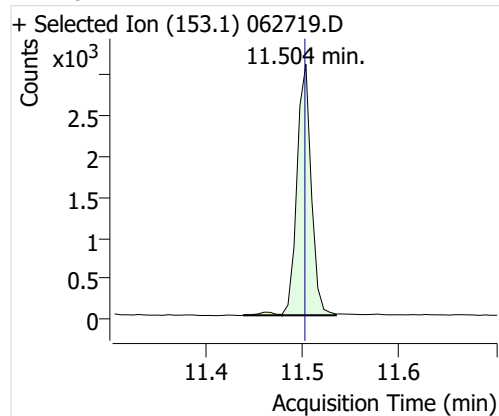
Dimethyl phthalate



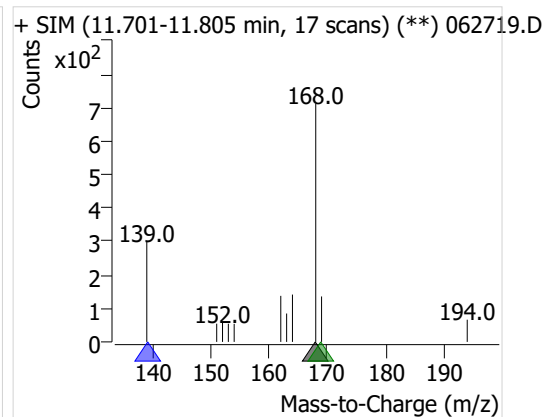
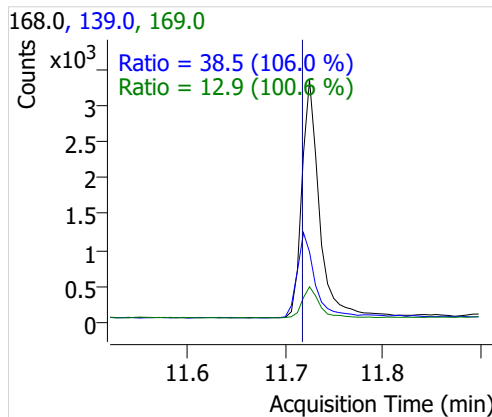
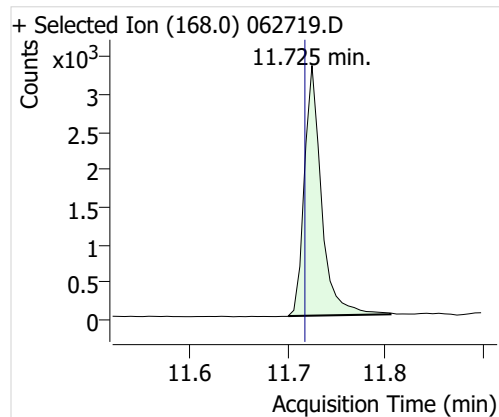
Acenaphthylene



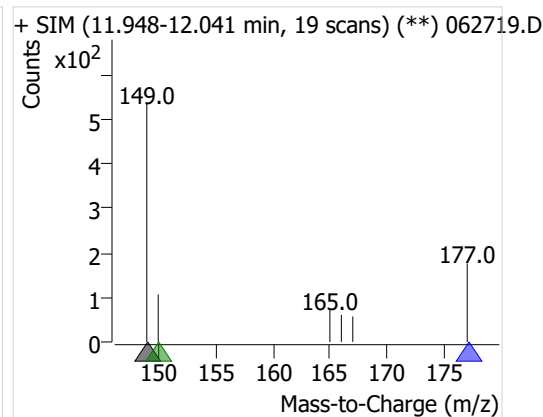
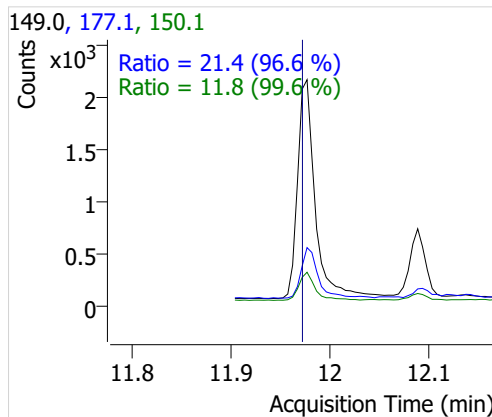
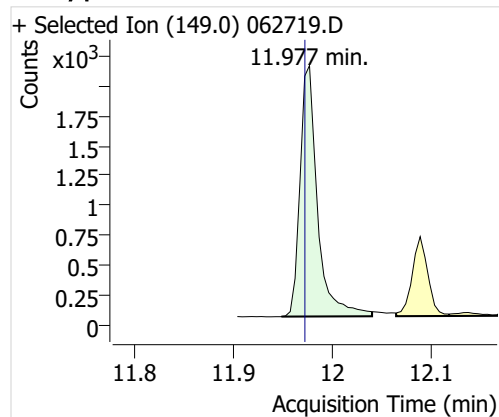
Acenaphthene



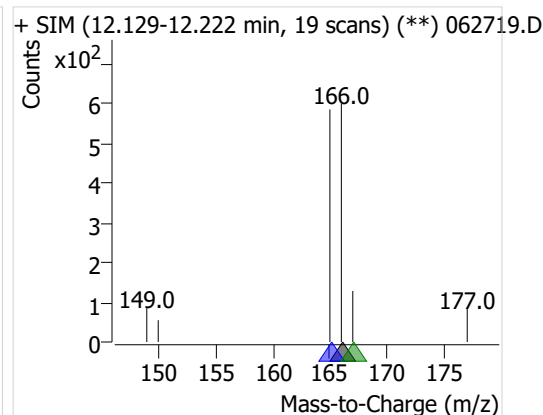
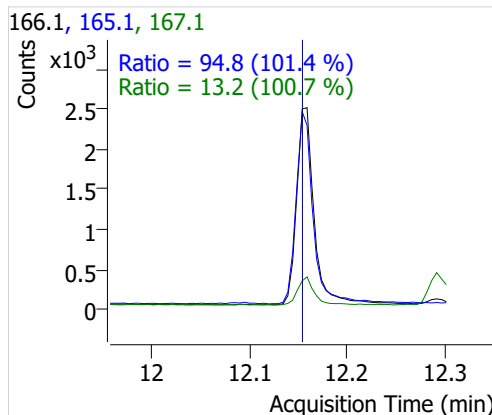
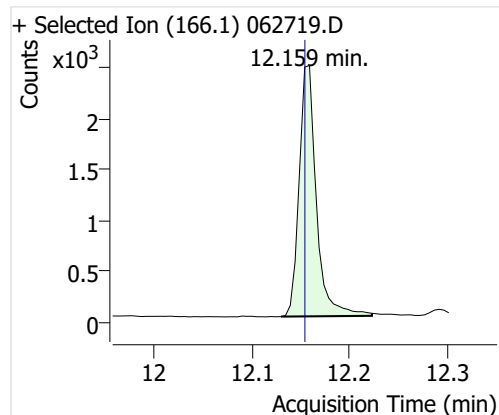
Dibenzofuran



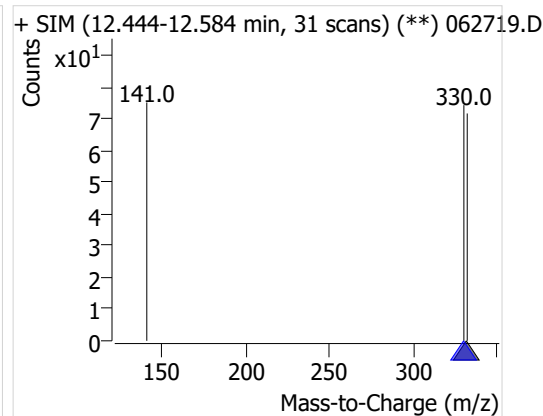
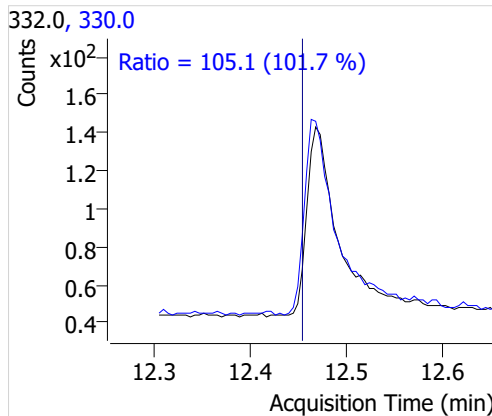
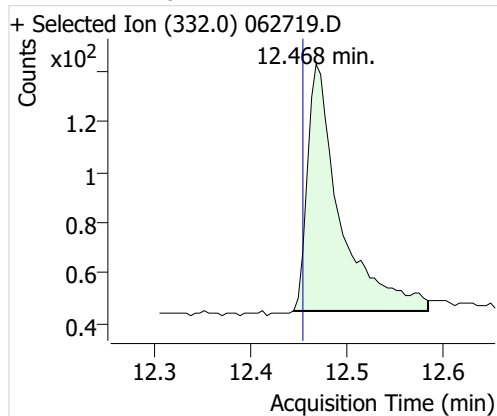
Diethylphthalate



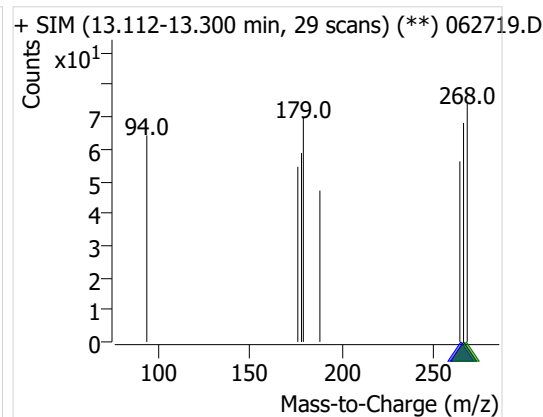
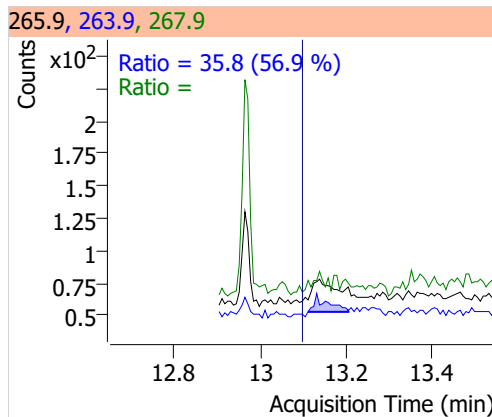
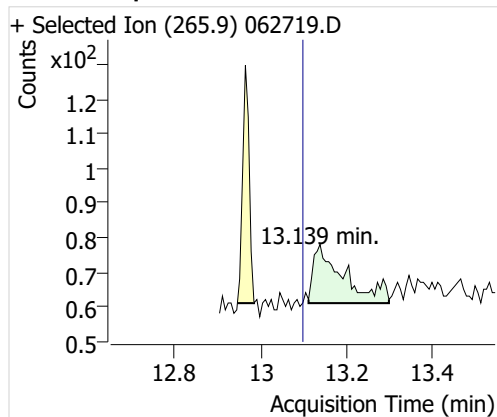
Fluorene



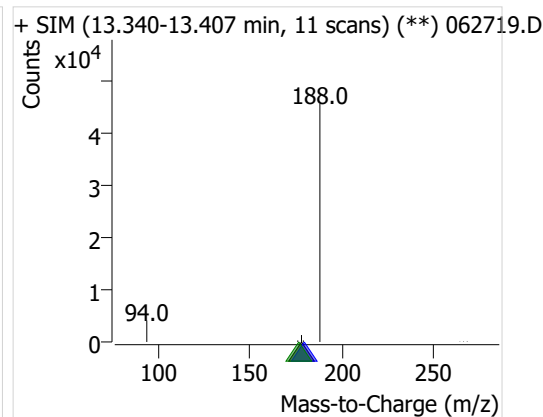
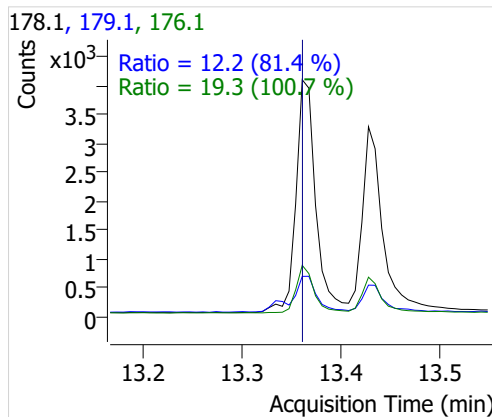
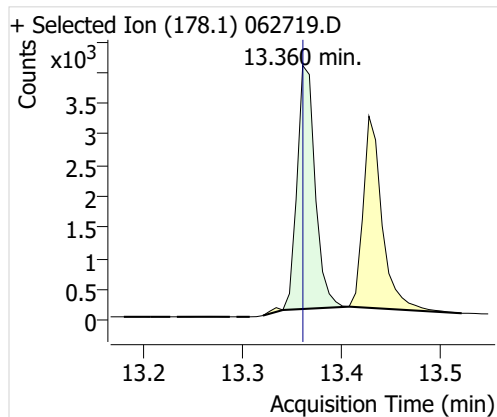
2,4,6-Tribromophenol



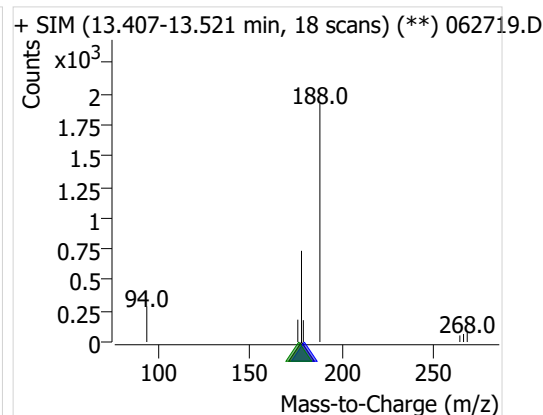
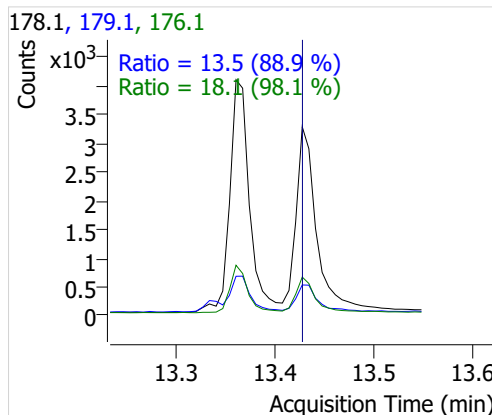
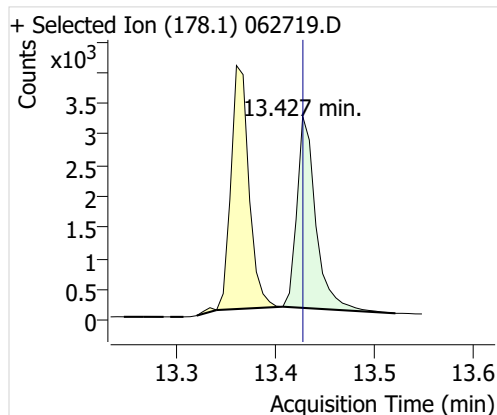
Pentachlorophenol



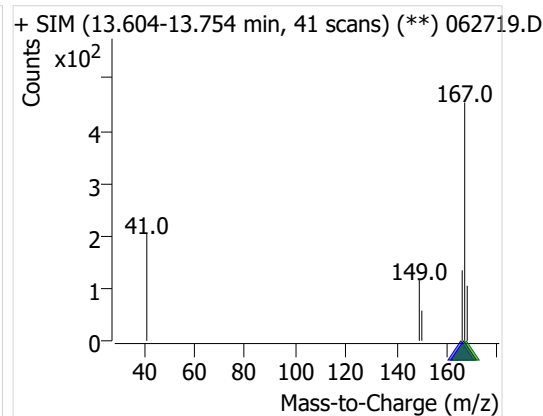
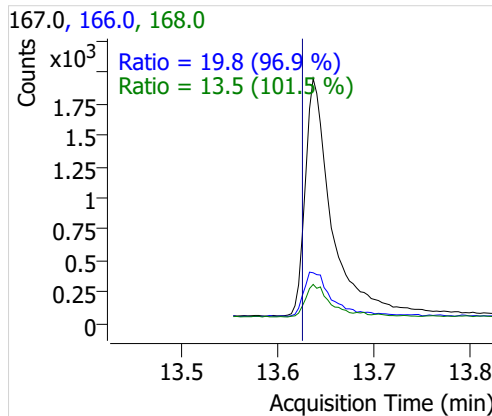
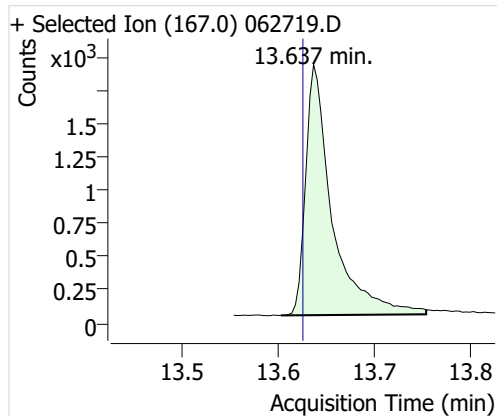
Phenanthrene



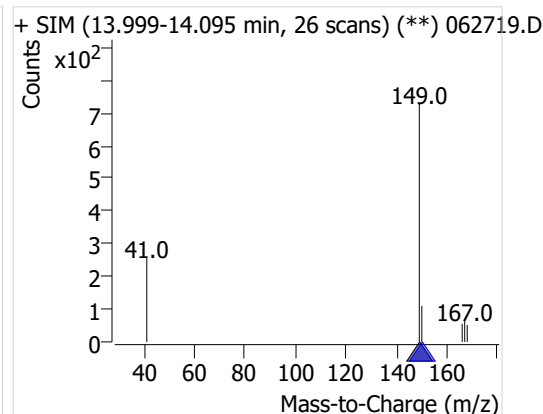
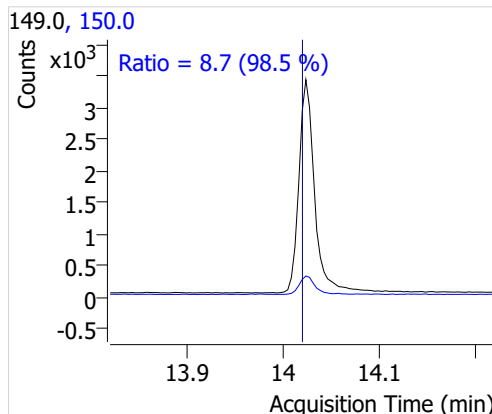
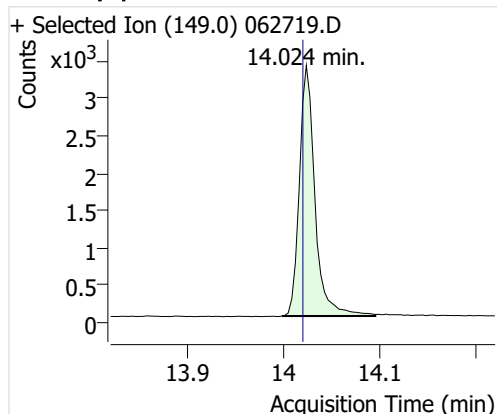
Anthracene



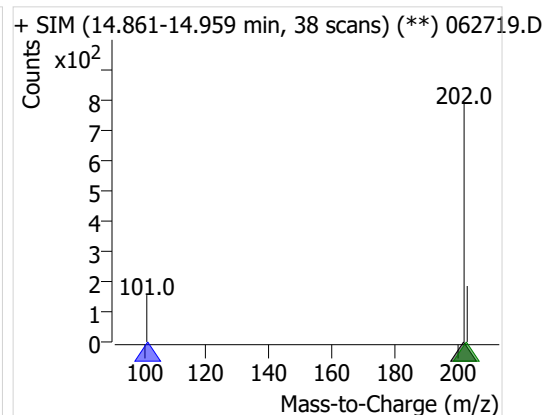
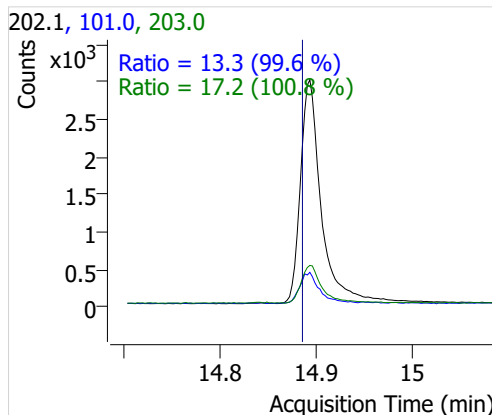
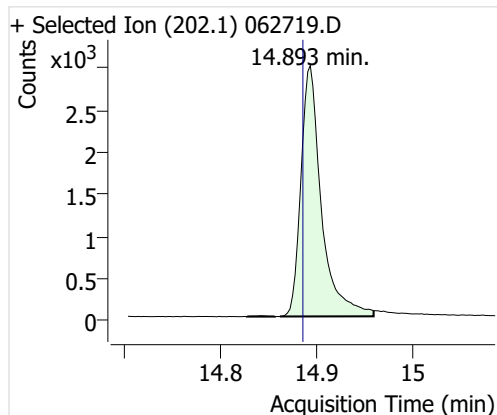
Carbazole



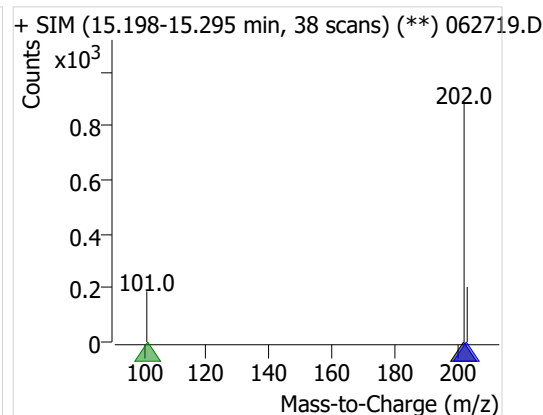
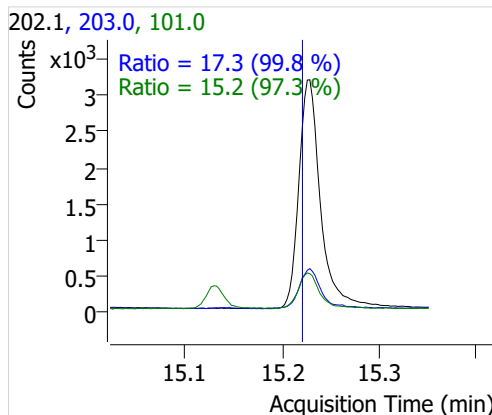
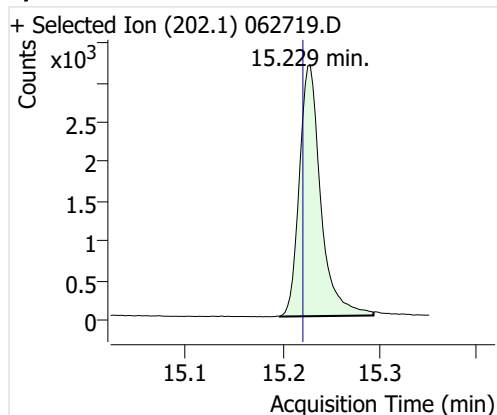
Di-n-butyl phthalate



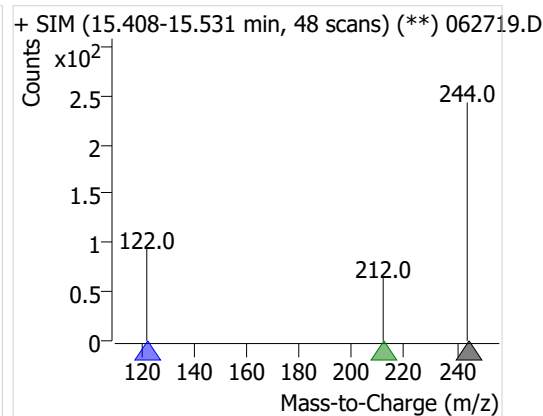
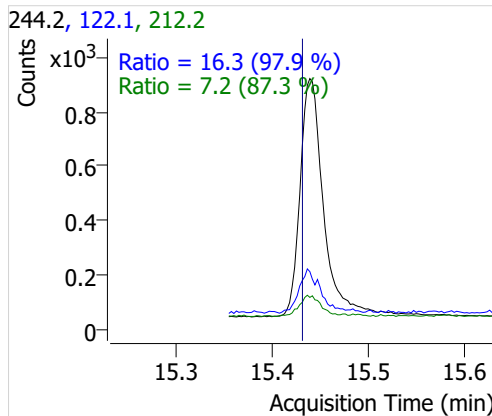
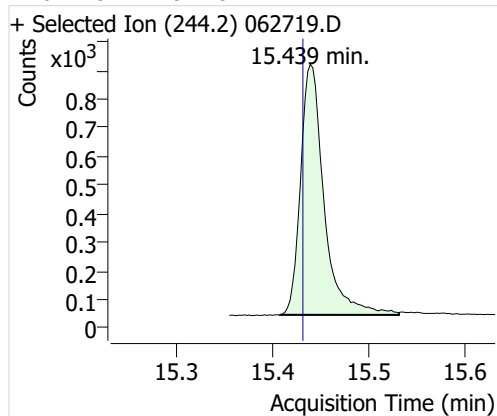
Fluoranthene



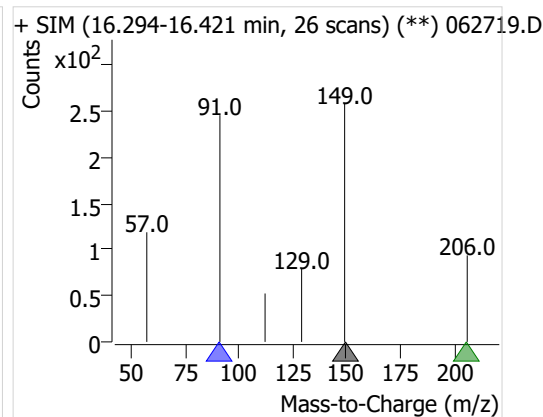
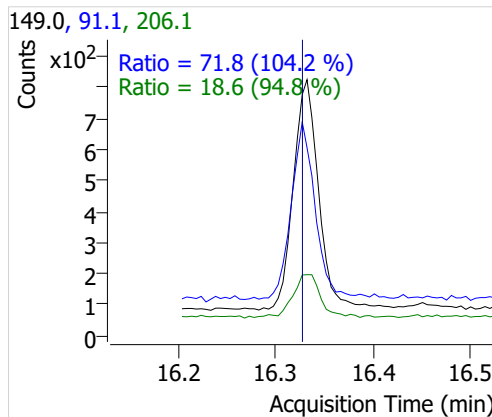
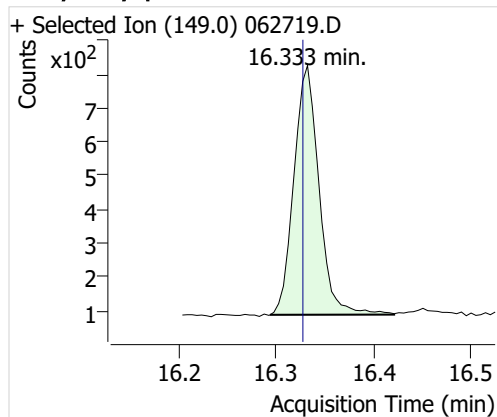
Pyrene



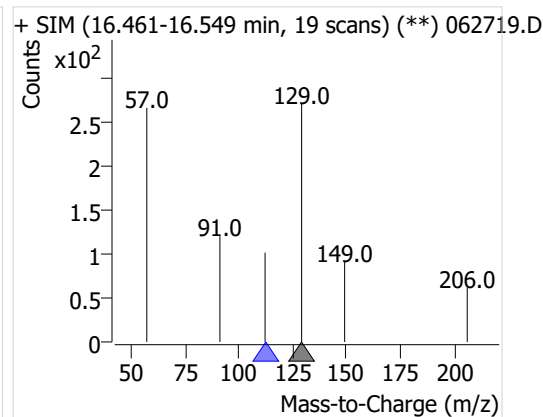
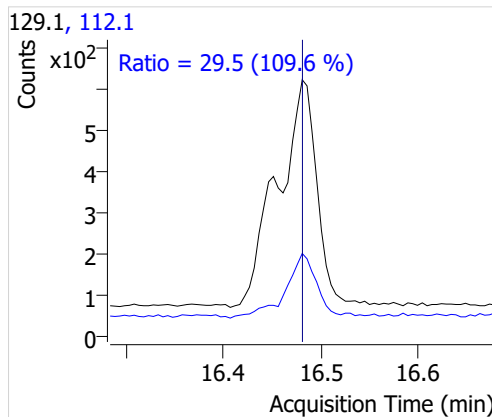
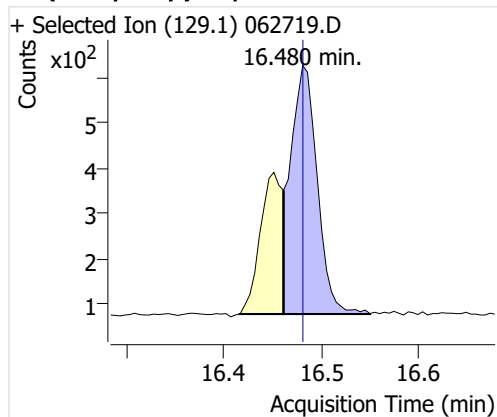
Terphenyl-d14 (surr)



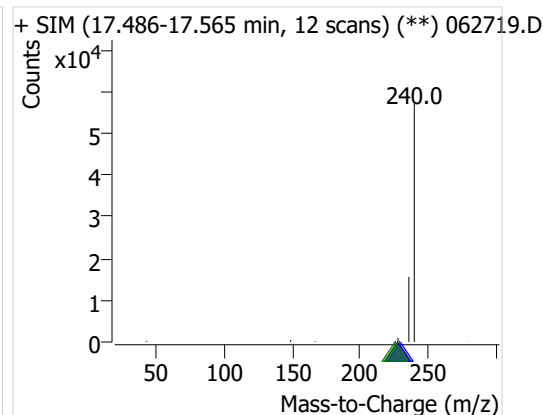
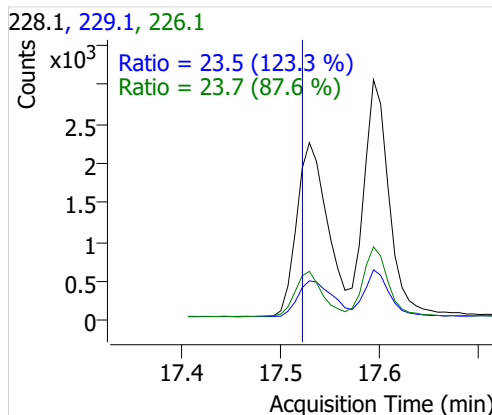
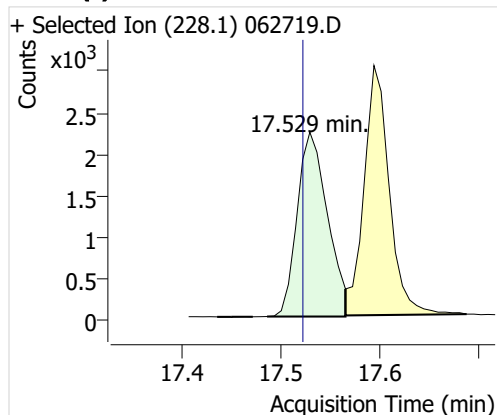
Benzyl Butyl phthalate



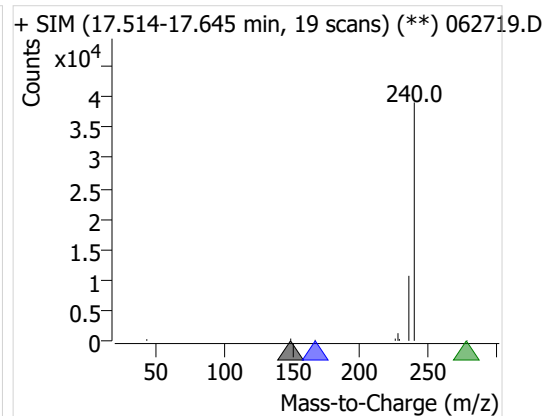
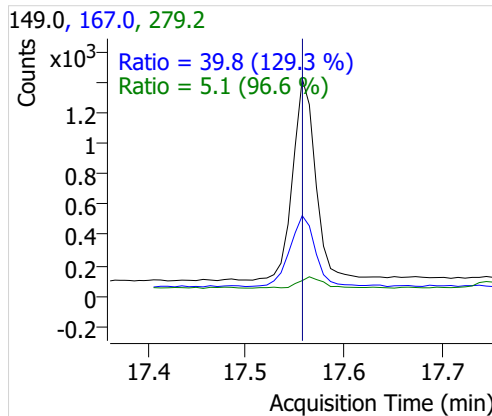
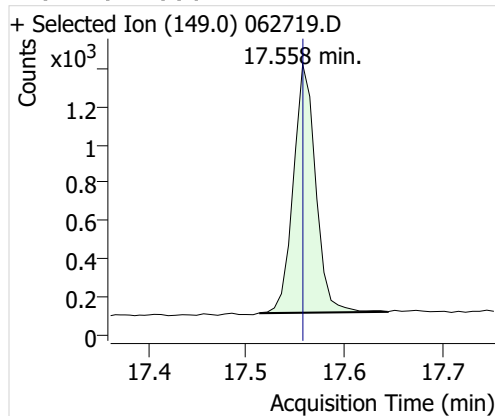
bis (2-Ethylhexyl) adipate



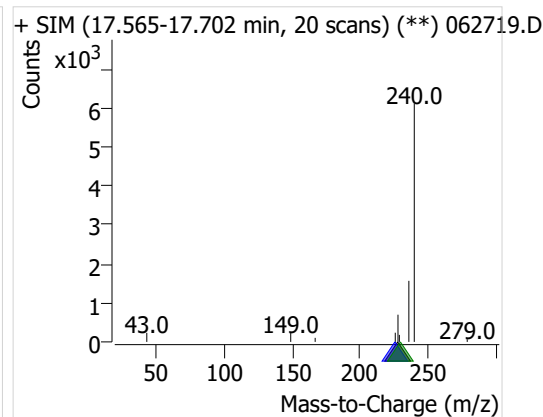
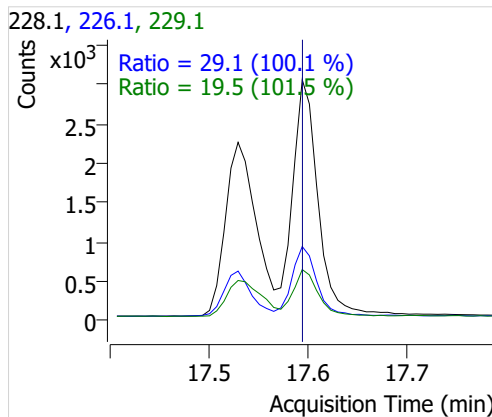
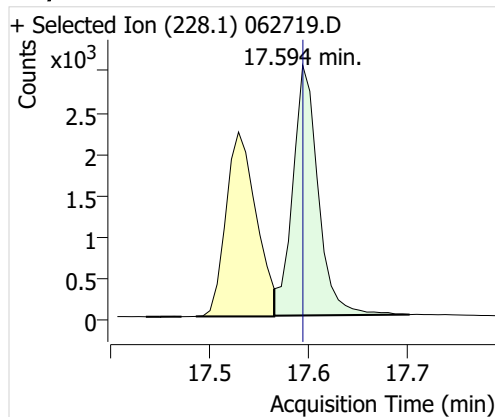
Benzo (a) anthracene



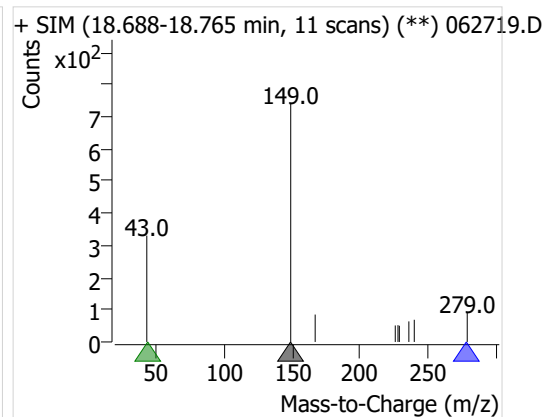
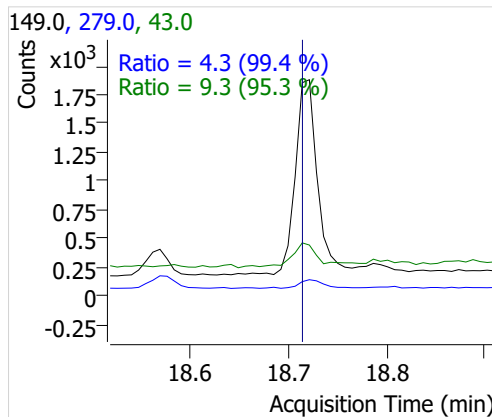
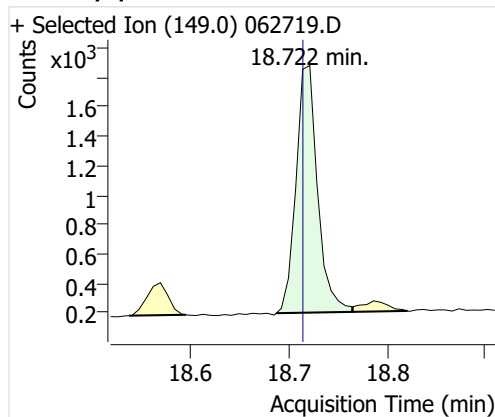
bis(2-Ethylhexyl) phthalate



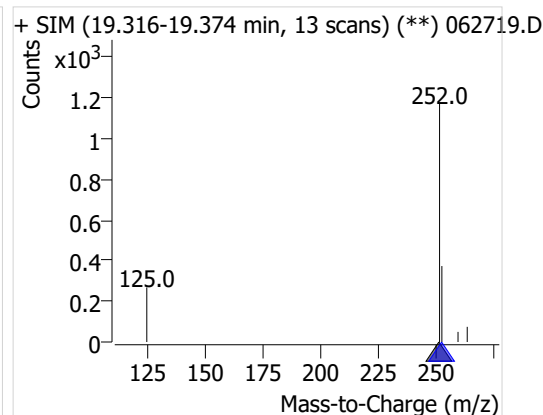
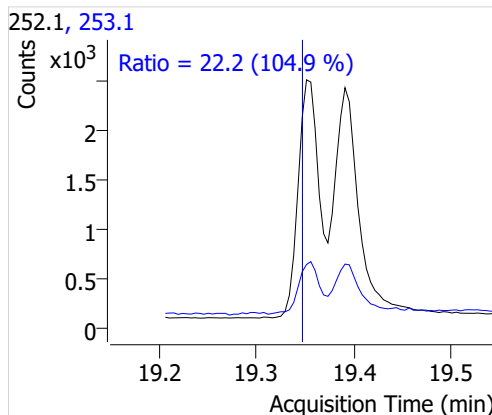
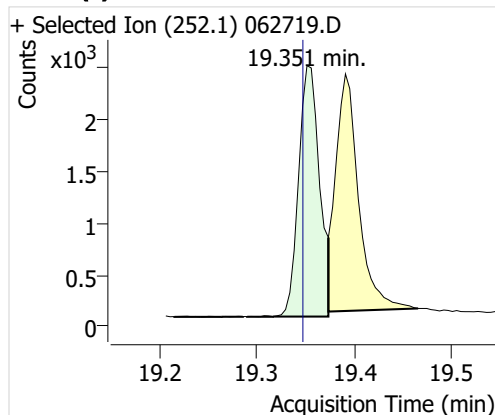
Chrysene



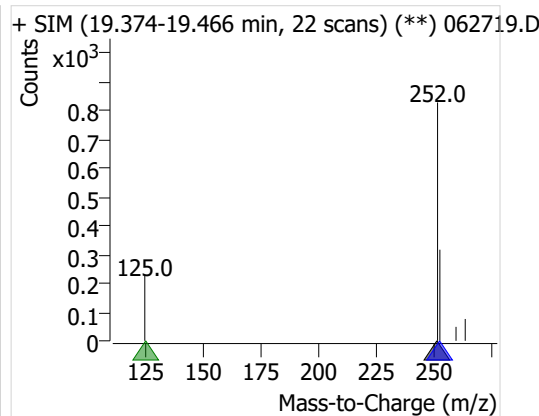
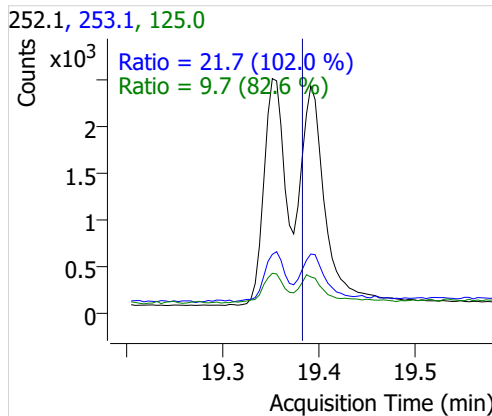
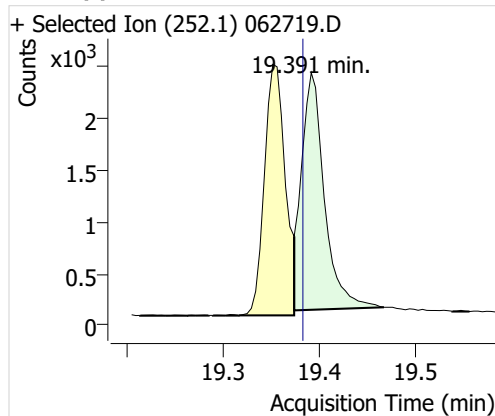
Di-n-octyl phthalate



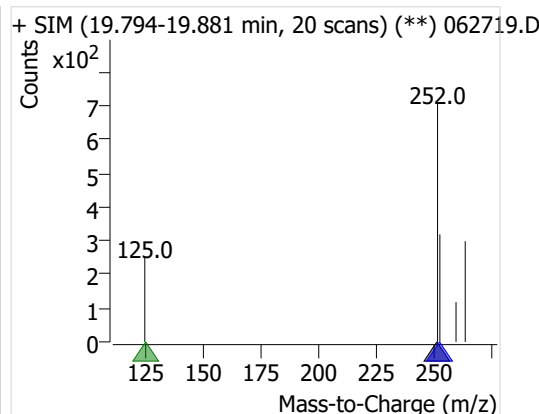
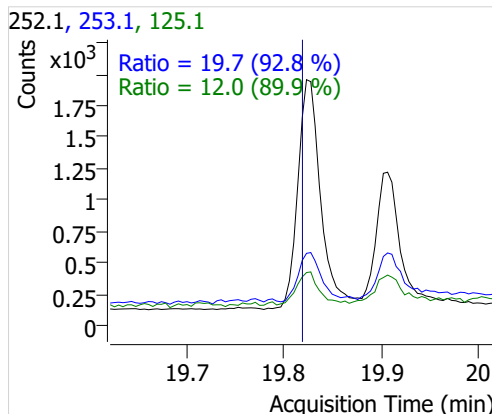
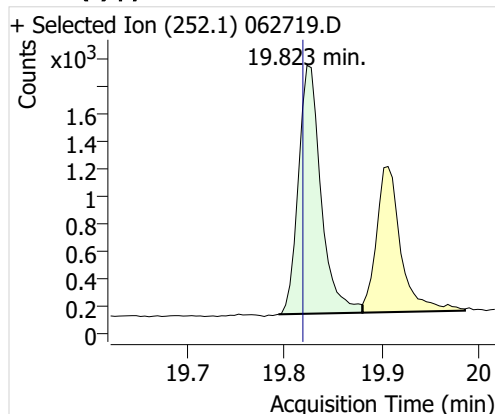
benzo (b) fluoranthene



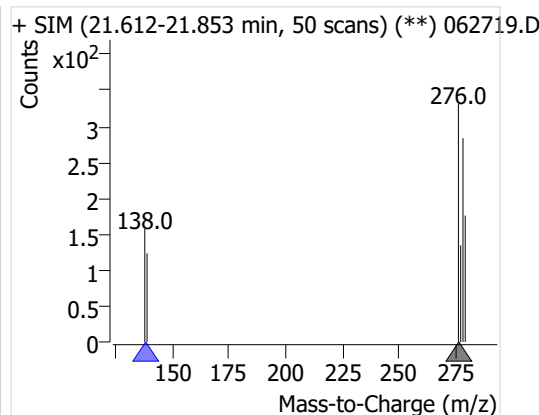
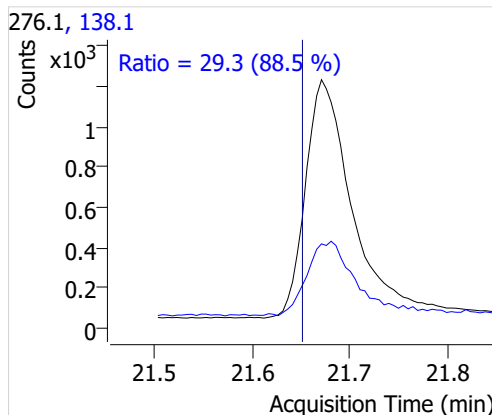
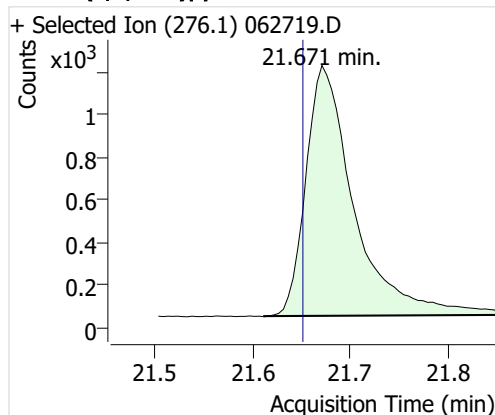
benzo (k) fluoranthene



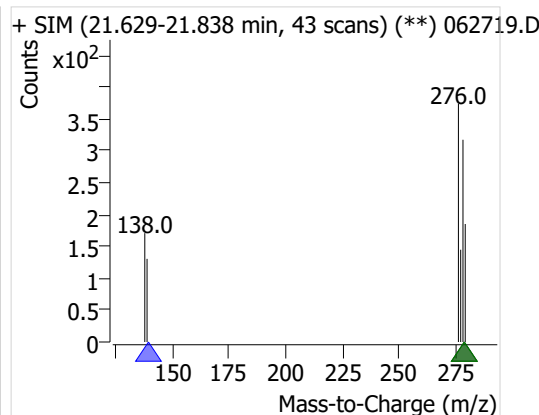
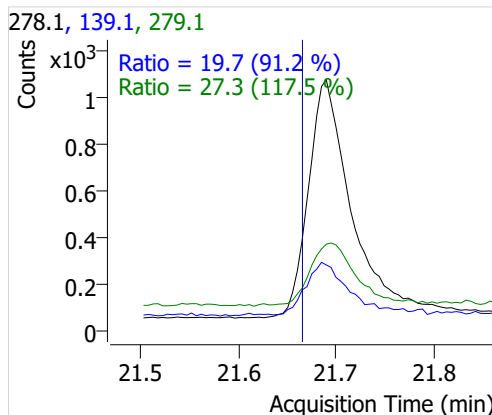
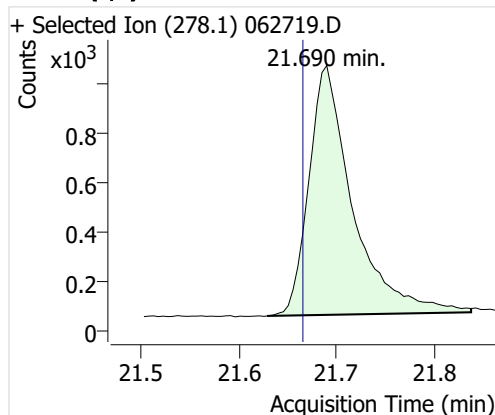
benzo (a) pyrene



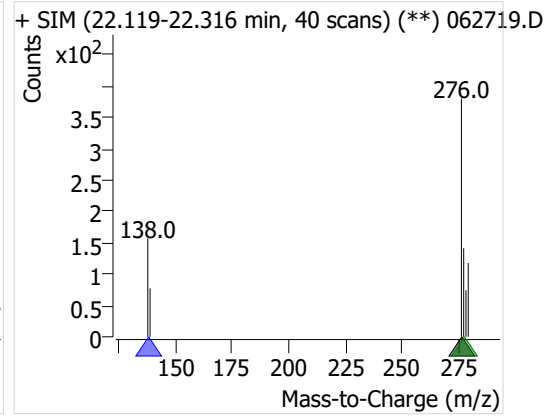
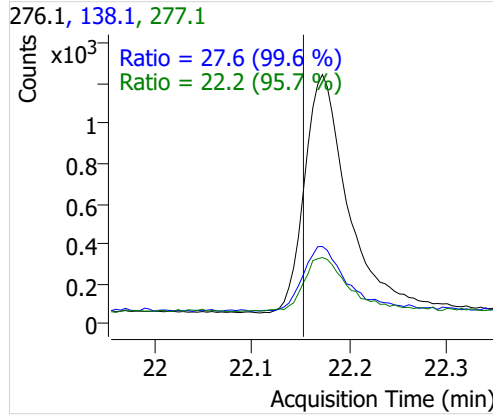
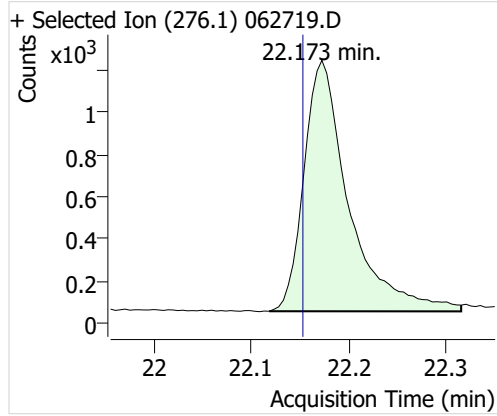
Indeno(1,2,3-cd)pyrene



Dibenz (a,h) anthracene



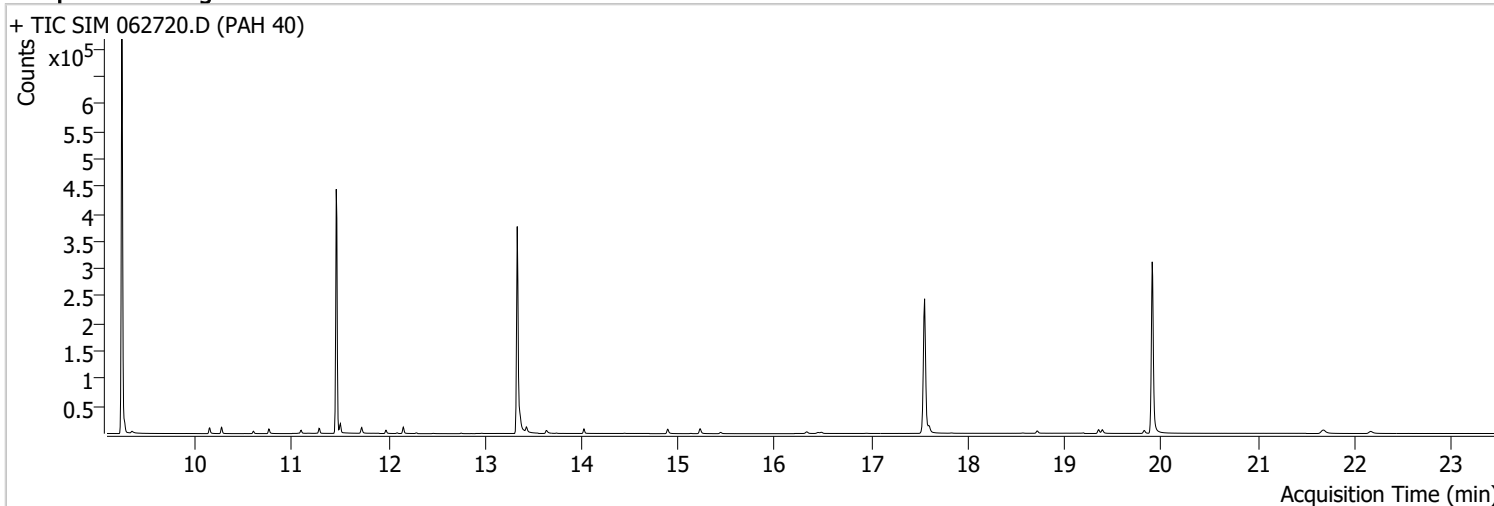
Benzo (g,h,i) perylene



Quantitative Analysis Complete Report

Batch Path	C:\GC-14\Data\2023\062723\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	6/29/2023 12:01 PM	Reporter Name	FA\GC14
Report Time	6/29/2023 12:01:57 PM	Batch State	Processed
Last Calib Update	6/29/2023 12:00 PM	Quant Report Version	10.0
Quant Batch Version	10.0		
Acq. Time	6/27/2023 6:40 PM	Data File	062720.D
Sample Type	Cal	Sample Name	PAH 40
Dilution	1	Acq. Method	8270E_SIM_625

Sample Chromatogram

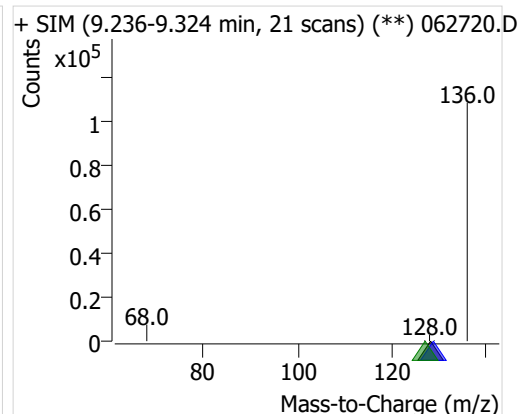
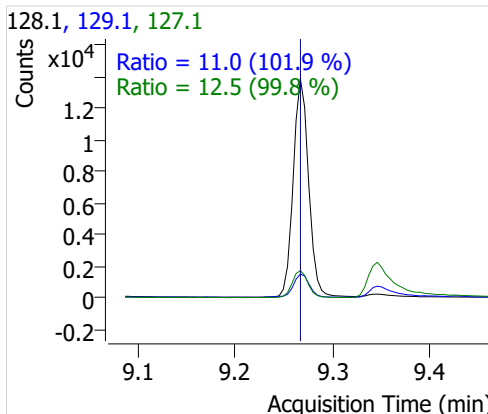
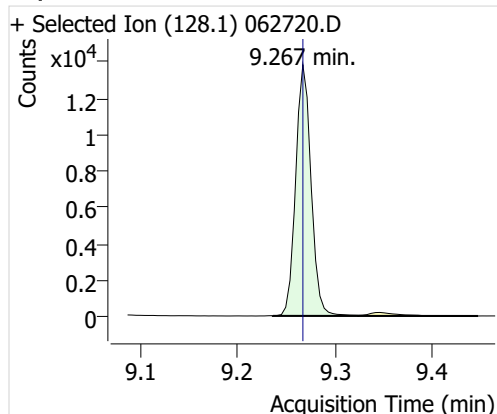


Compound	ISTD	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Units
Naphthalene	Naphthalene-d8 (IS)	9.267	15116	670003	0.0226	43.0351	µg/L
2-Methylnaphthalene	Naphthalene-d8 (IS)	10.150	5684	670003	0.0085	32.7039	µg/L
1-Methylnaphthalene	Naphthalene-d8 (IS)	10.273	5556	670003	0.0083	33.5831	µg/L
2-Fluorobiphenyl (surr)	Naphthalene-d8 (IS)	10.602	3545	670003	0.0053	16.1723	µg/L
2-Chloronaphthalene	Naphthalene-d8 (IS)	10.763	5963	670003	0.0089	31.7033	µg/L
Dimethyl phthalate	Naphthalene-d8 (IS)	11.097	5595	670003	0.0084	29.7281	µg/L
Acenaphthylene	Naphthalene-d8 (IS)	11.282	7661	670003	0.0114	30.4017	µg/L
Acenaphthene	Acenaphthene-d10 (IS)	11.503	6385	218688	0.0292	42.2215	µg/L
Dibenzofuran	Acenaphthene-d10 (IS)	11.724	8715	218688	0.0399	40.0152	µg/L
Diethylphthalate	Acenaphthene-d10 (IS)	11.972	5327	218688	0.0244	31.9421	µg/L
Fluorene	Acenaphthene-d10 (IS)	12.154	6281	218688	0.0287	37.1248	µg/L
2,4,6-Tribromophenol	Acenaphthene-d10 (IS)	12.464	437	218688	0.0020	30.9849	µg/L
Pentachlorophenol	Acenaphthene-d10 (IS)	13.126	207	218688	0.0009	22.7557	µg/L
Phenanthrene	Phenanthrene-d10 (IS)	13.360	10144	416277	0.0244	39.5997	µg/L
Anthracene	Phenanthrene-d10 (IS)	13.427	8300	416277	0.0199	32.0850	µg/L
Carbazole	Phenanthrene-d10 (IS)	13.634	7460	416277	0.0179	31.1752	µg/L
Di-n-butyl phthalate	Phenanthrene-d10 (IS)	14.024	7668	416277	0.0184	28.4548	µg/L
Fluoranthene	Phenanthrene-d10 (IS)	14.890	9081	416277	0.0218	32.8624	µg/L
Pyrene	Phenanthrene-d10 (IS)	15.227	10006	416277	0.0240	33.9625	µg/L
Terphenyl-d14 (surr)	Phenanthrene-d10 (IS)	15.439	2907	416277	0.0070	16.7475	µg/L
Benzyl Butyl phthalate	Phenanthrene-d10 (IS)	16.333	2606	416277	0.0063	37.1472	µg/L
bis (2-Ethylhexyl) adipate	Phenanthrene-d10 (IS)	16.485	2860	416277	0.0069	37.5545	µg/L
Benzo (a) anthracene	Phenanthrene-d10 (IS)	17.529	8742	416277	0.0210	35.5699	µg/L
bis(2-Ethylhexyl) phthalate	Chrysene-d12 (IS)	17.558	4213	312908	0.0135	29.6830	µg/L
Chrysene	Chrysene-d12 (IS)	17.601	11013	312908	0.0352	44.2619	µg/L
Di-n-octyl phthalate	Chrysene-d12 (IS)	18.715	5607	312908	0.0179	40.0547	µg/L
benzo (b) fluoranthene	Chrysene-d12 (IS)	19.352	7334	312908	0.0234	33.2323	µg/L
benzo (k) fluoranthene	Chrysene-d12 (IS)	19.391	8417	312908	0.0269	32.9832	µg/L
benzo (a) pyrene	Chrysene-d12 (IS)	19.823	6080	312908	0.0194	31.9684	µg/L
Indeno(1,2,3-cd)pyrene	Perylene-d12 (IS)	21.666	8460	369075	0.0229	32.9537	µg/L

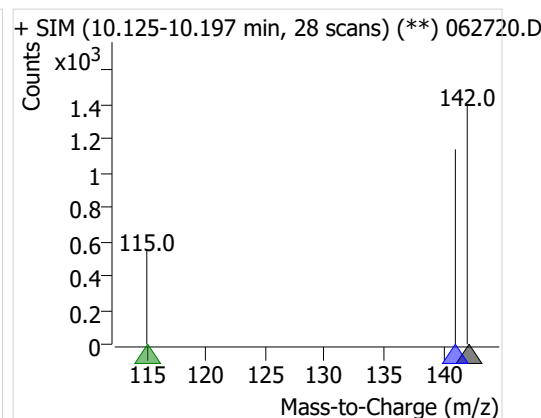
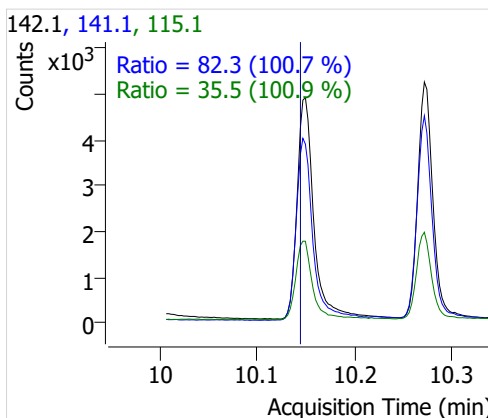
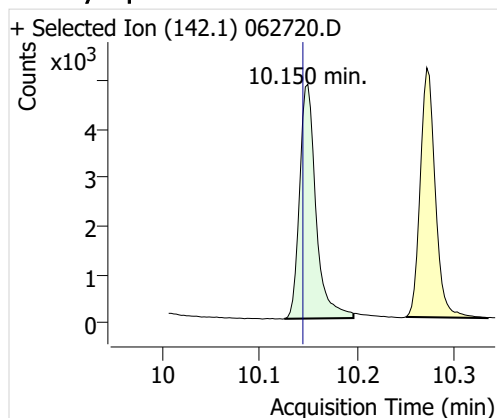
Quantitative Analysis Complete Report

Compound	ISTD	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Units
Dibenz (a,h) anthracene	Perylene-d12 (IS)	21.686	6760	369075	0.0183	31.1866	µg/L
Benzo (g,h,i) perylene	Perylene-d12 (IS)	22.168	7773	369075	0.0211	35.4470	µg/L

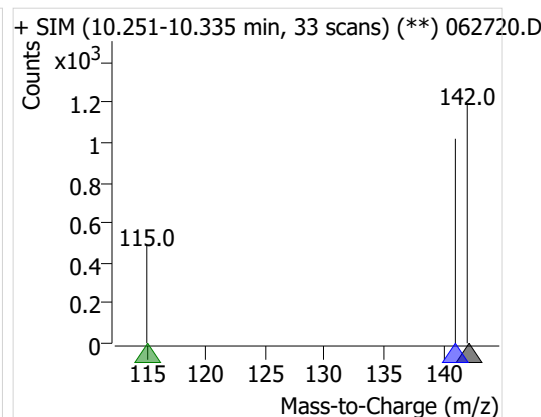
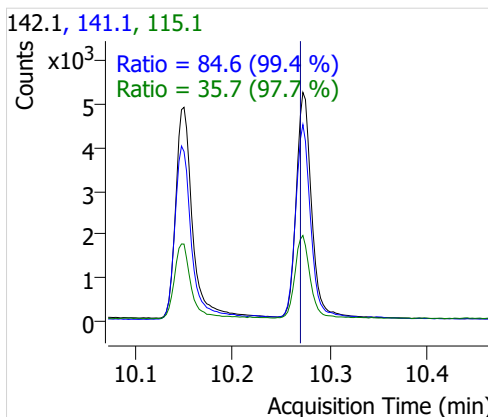
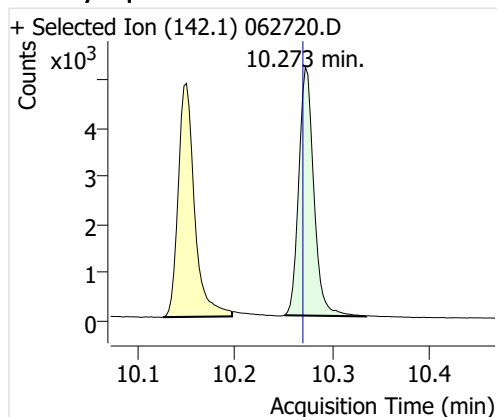
Naphthalene



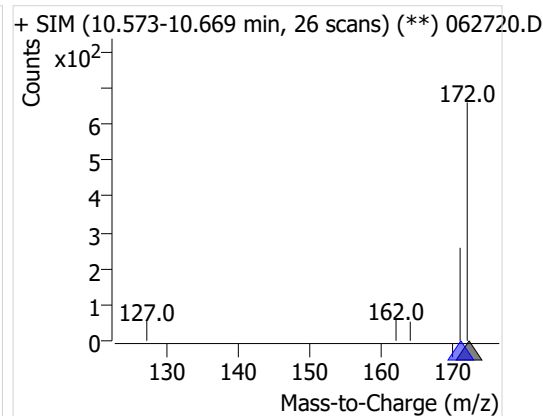
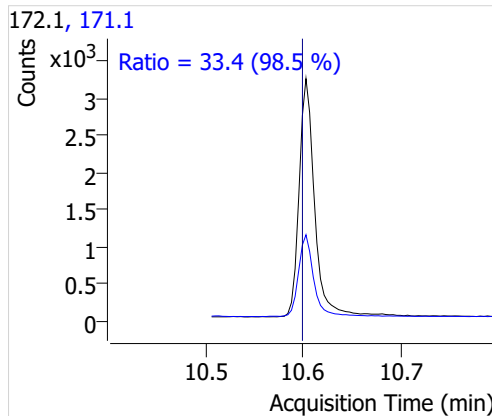
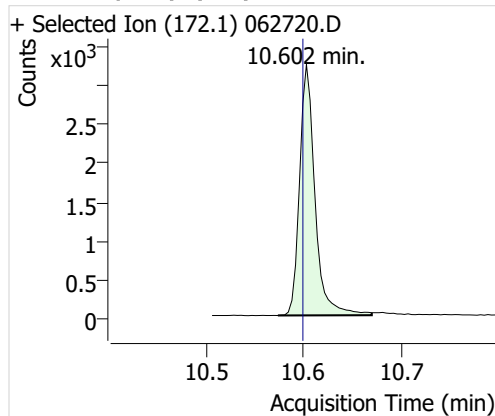
2-Methylnaphthalene



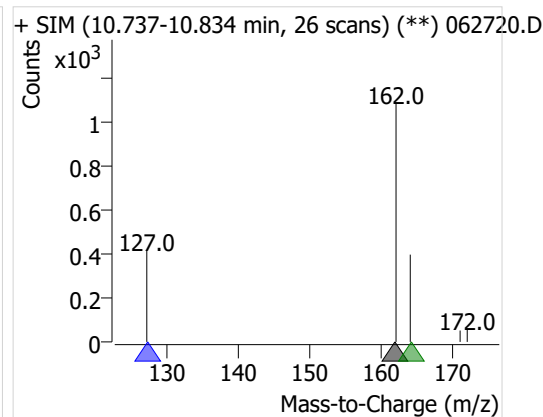
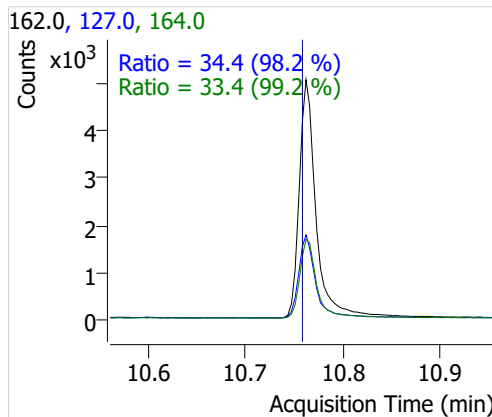
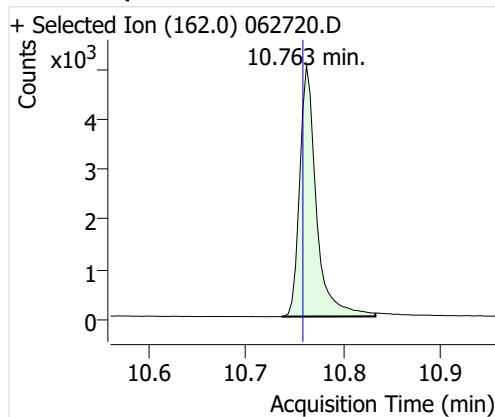
1-Methylnaphthalene



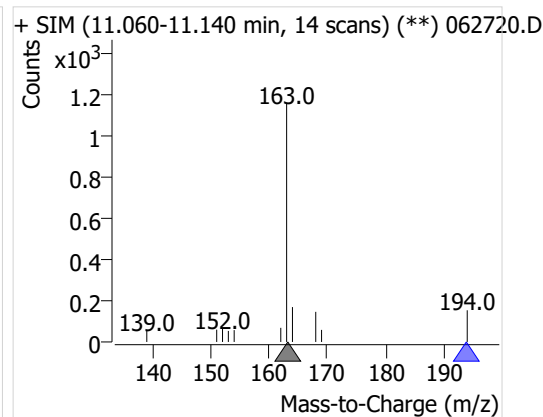
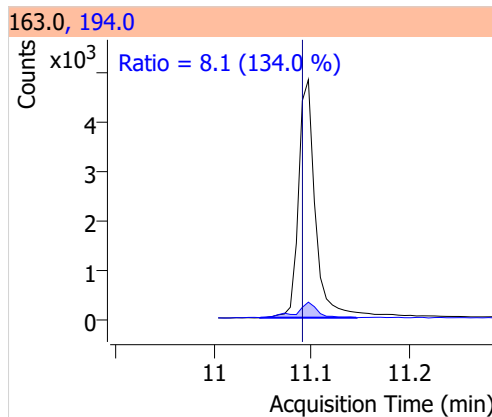
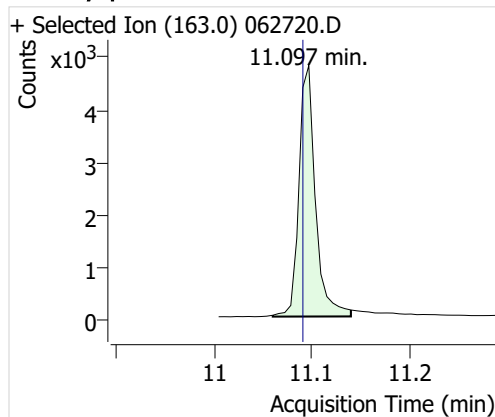
2-Fluorobiphenyl (surr)



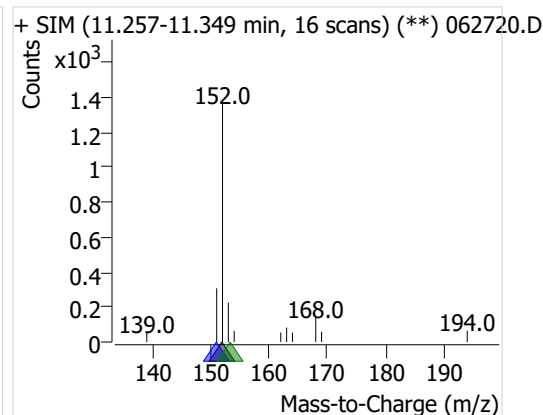
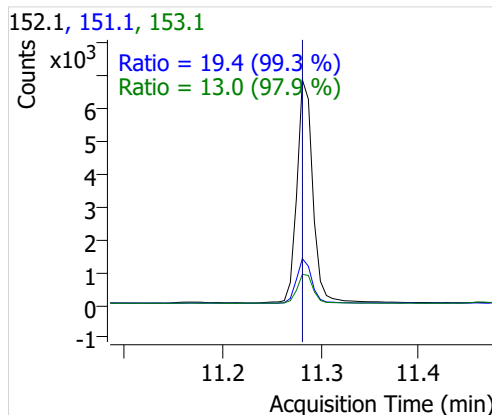
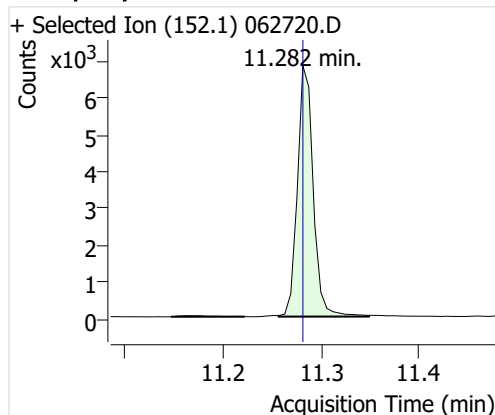
2-Chloronaphthalene



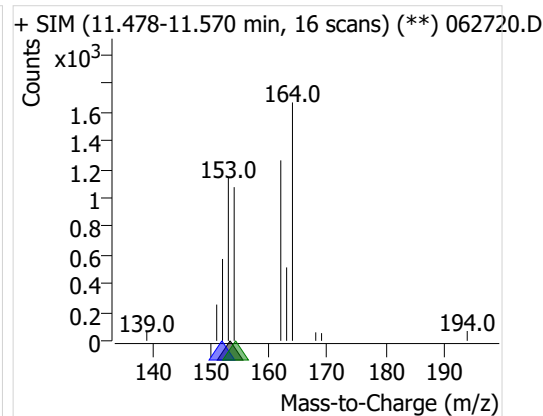
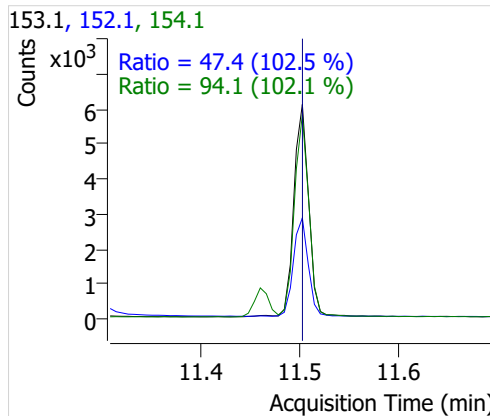
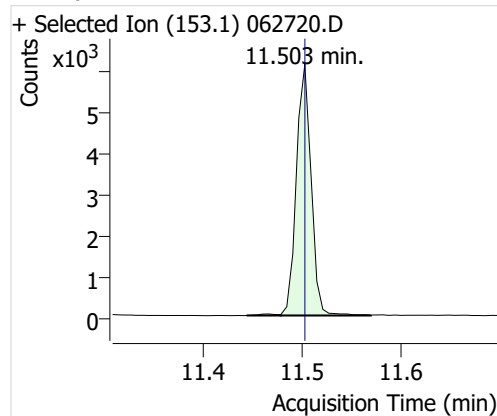
Dimethyl phthalate



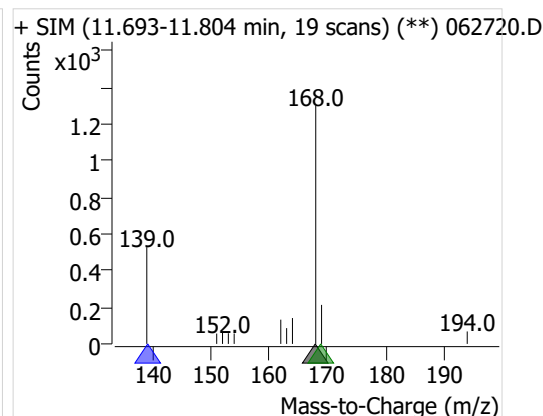
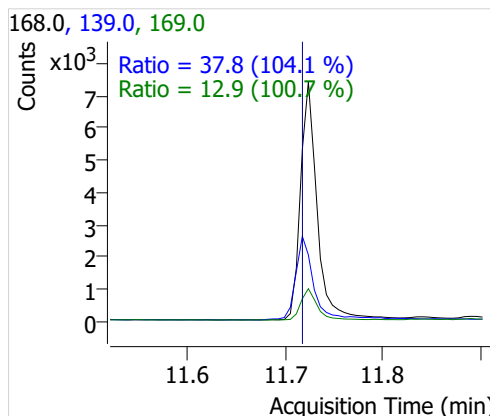
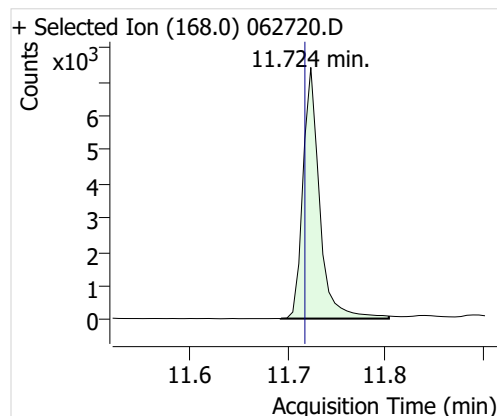
Acenaphthylene



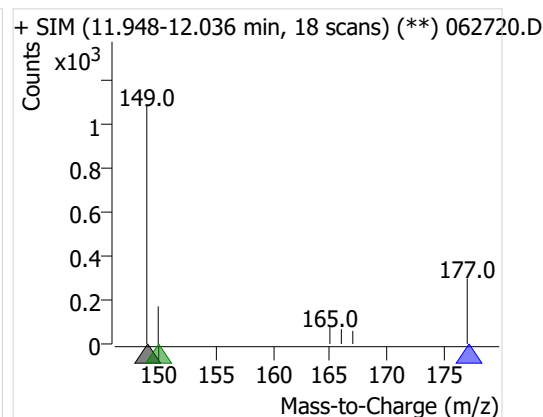
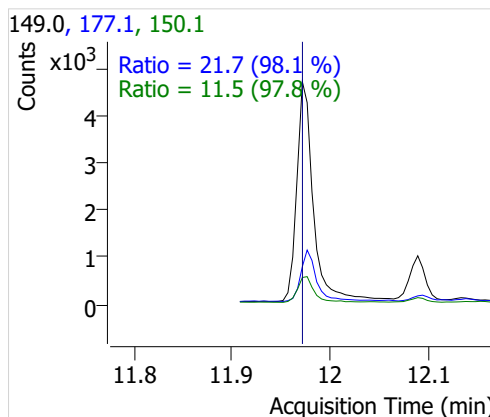
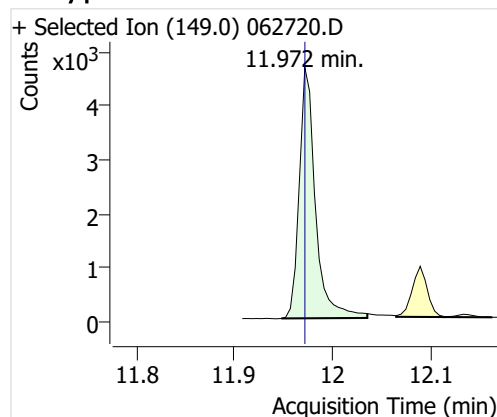
Acenaphthene



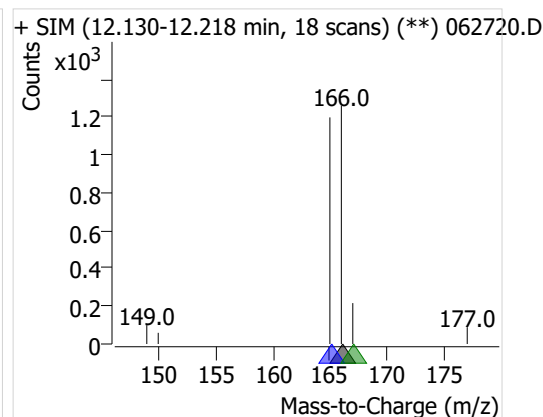
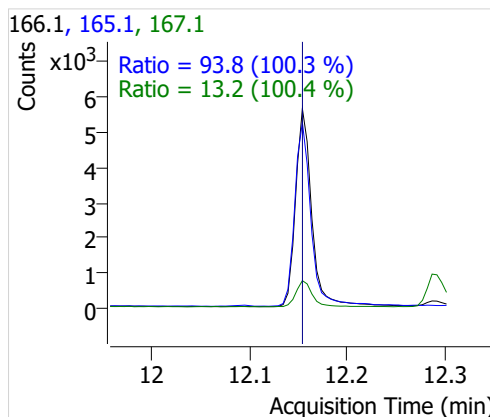
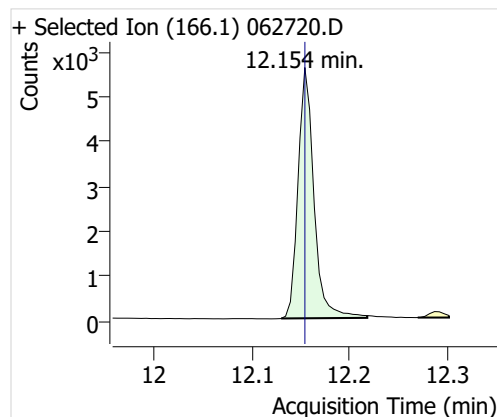
Dibenzofuran



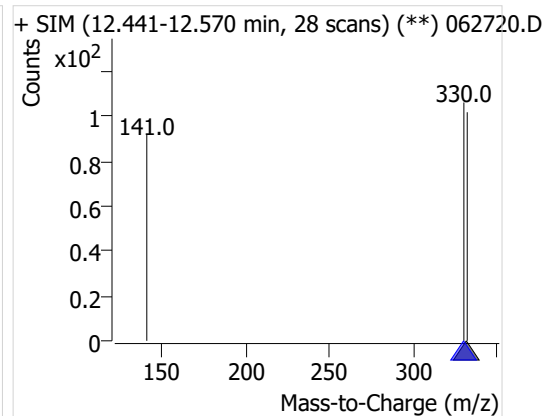
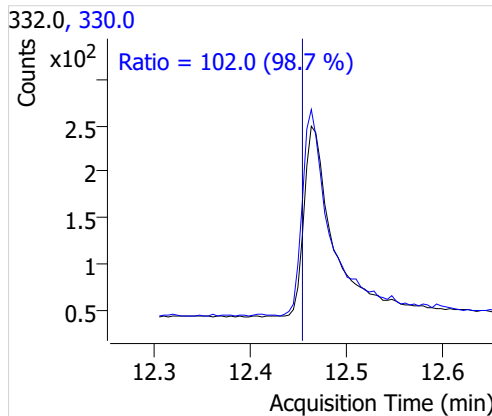
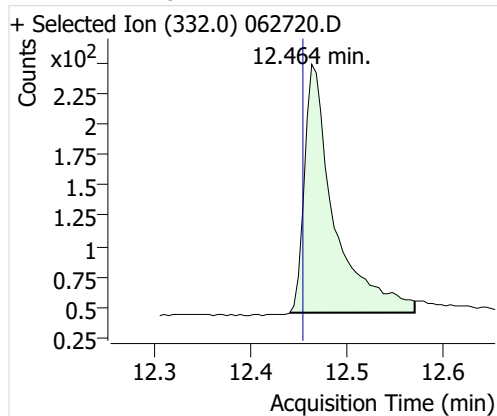
Diethylphthalate



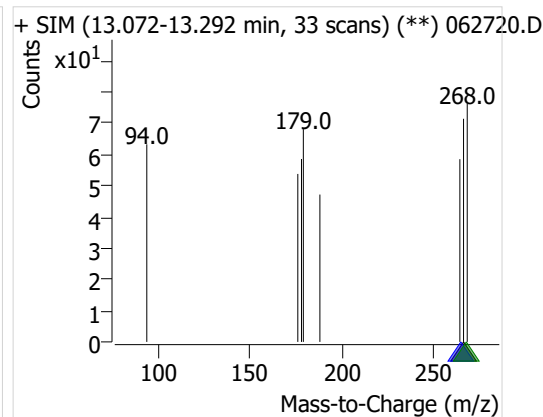
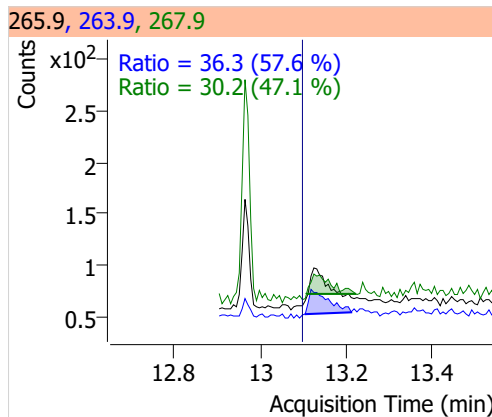
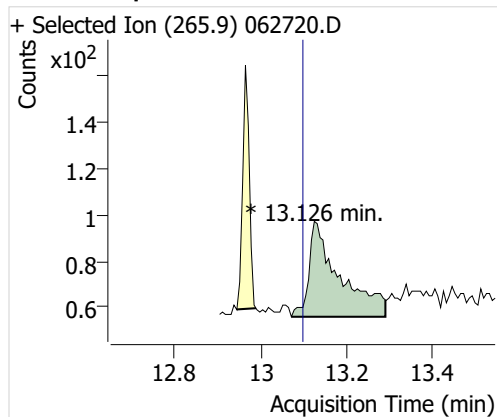
Fluorene



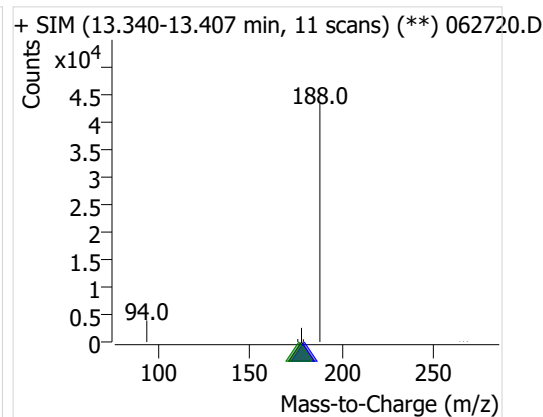
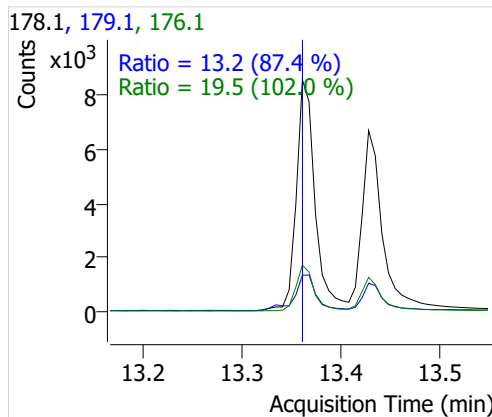
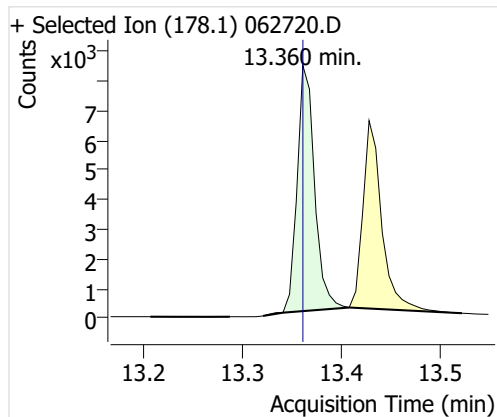
2,4,6-Tribromophenol



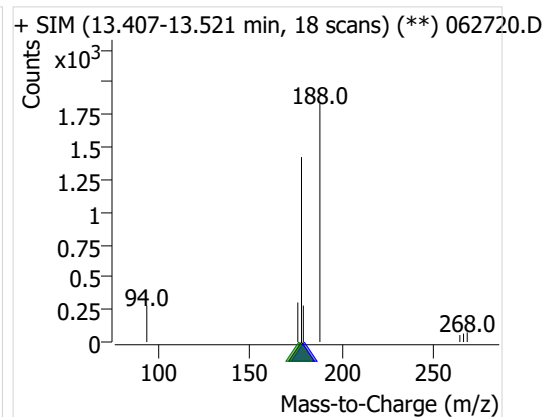
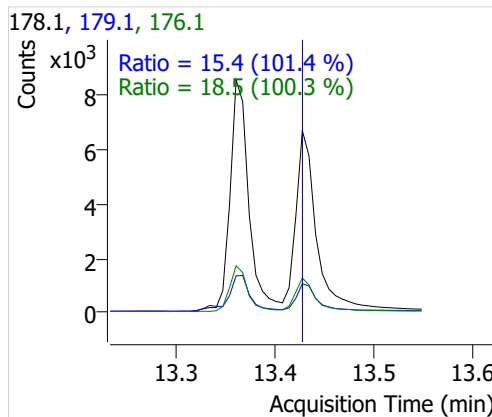
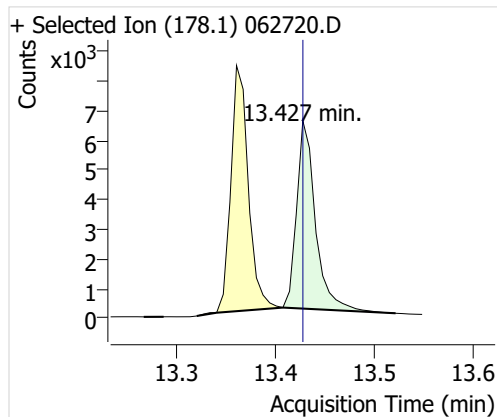
Pentachlorophenol



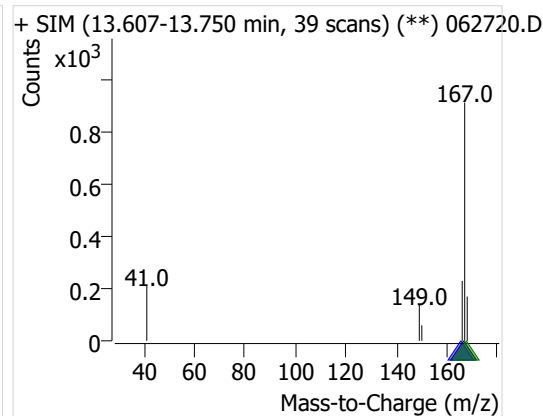
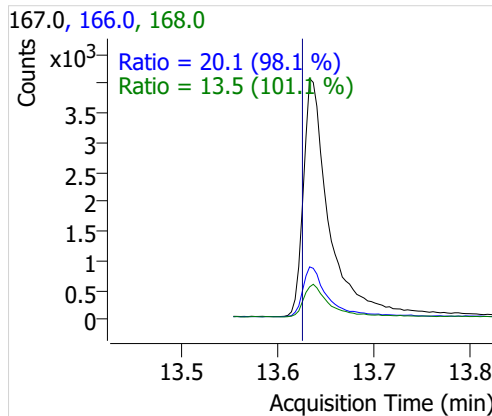
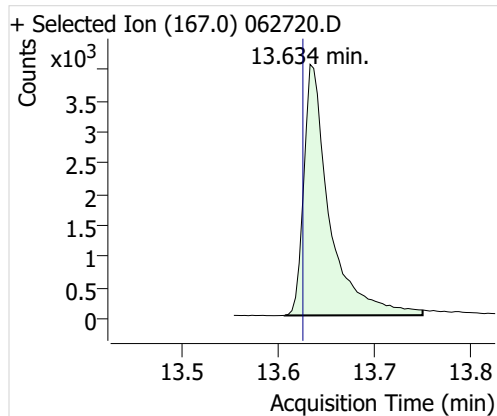
Phenanthrene



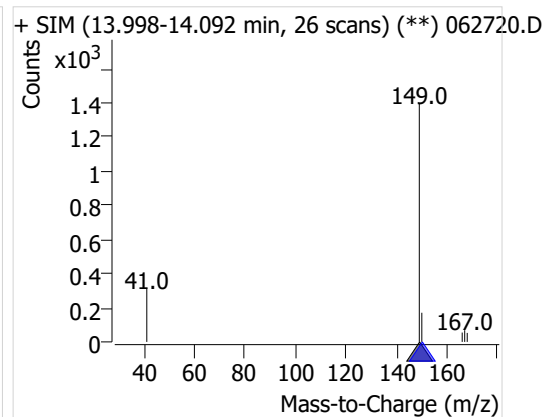
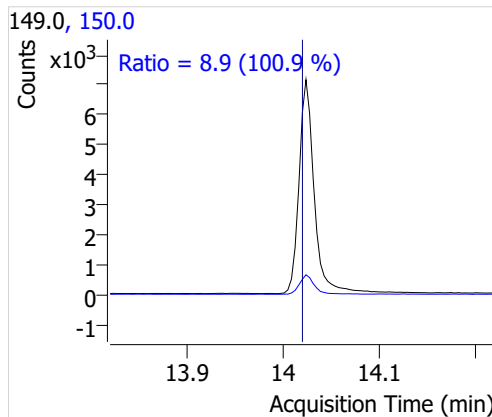
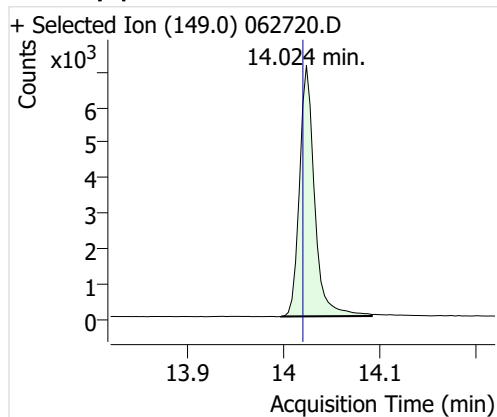
Anthracene



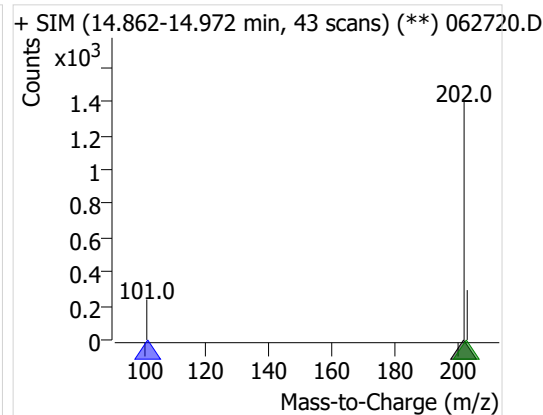
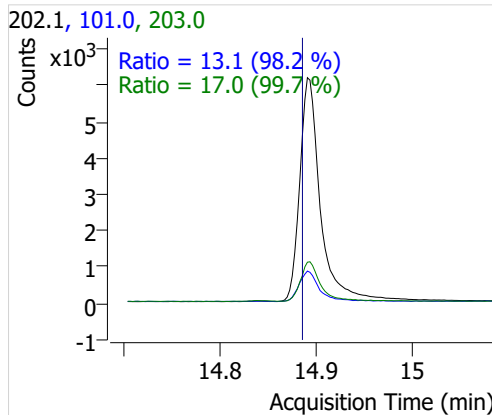
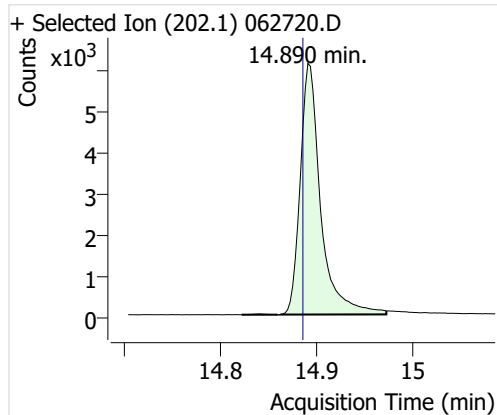
Carbazole



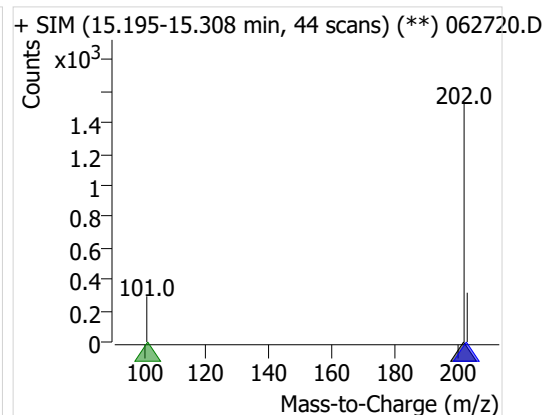
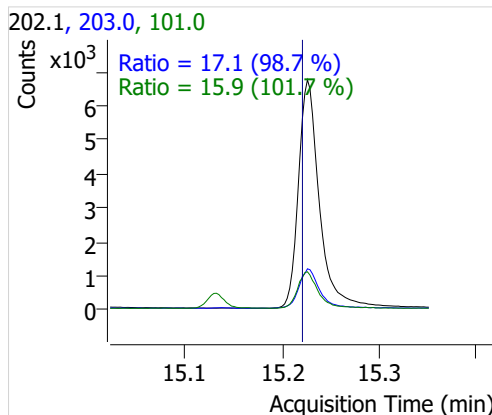
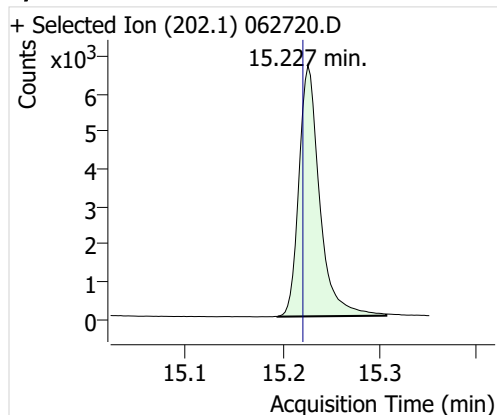
Di-n-butyl phthalate



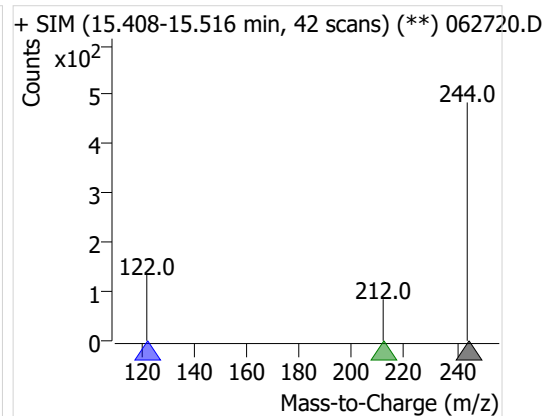
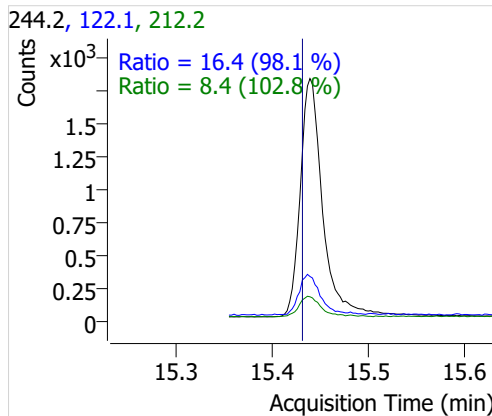
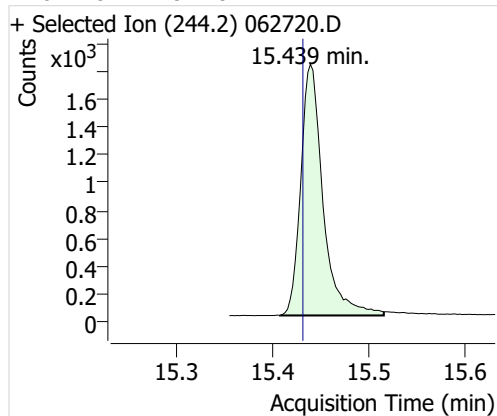
Fluoranthene



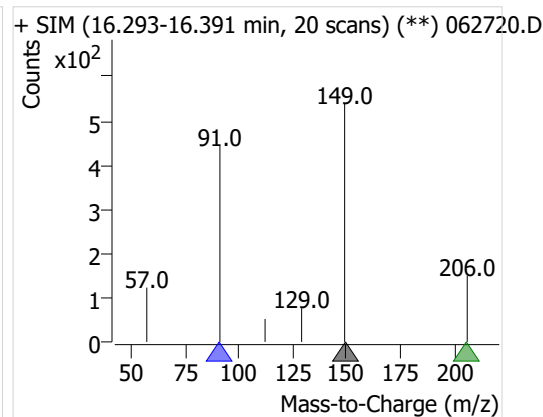
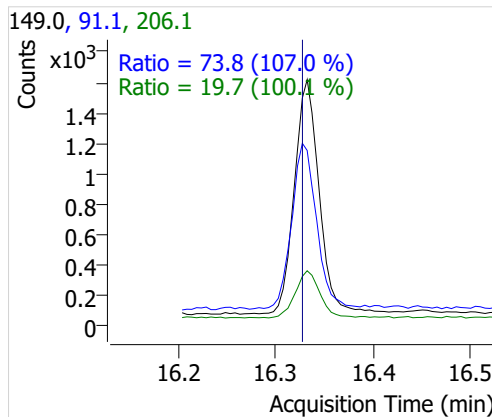
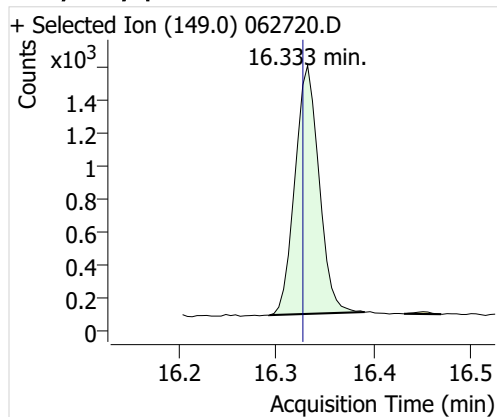
Pyrene



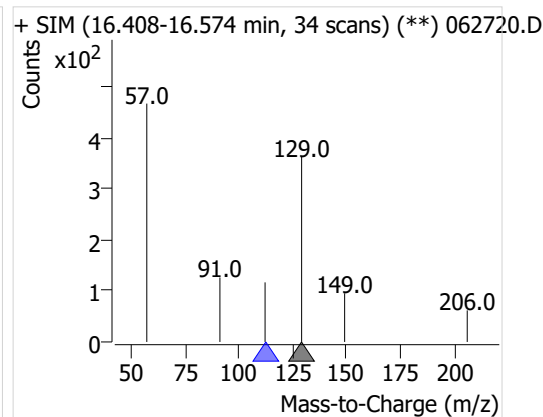
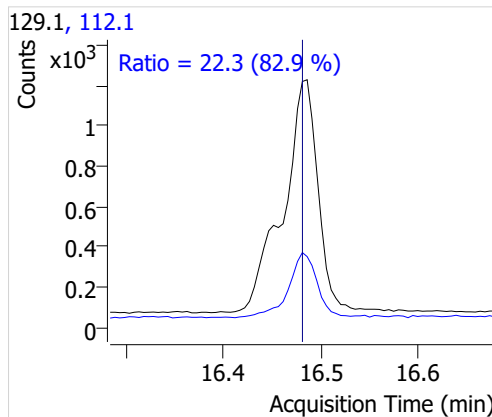
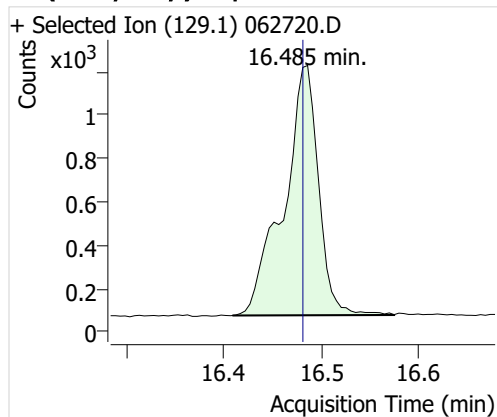
Terphenyl-d14 (surr)



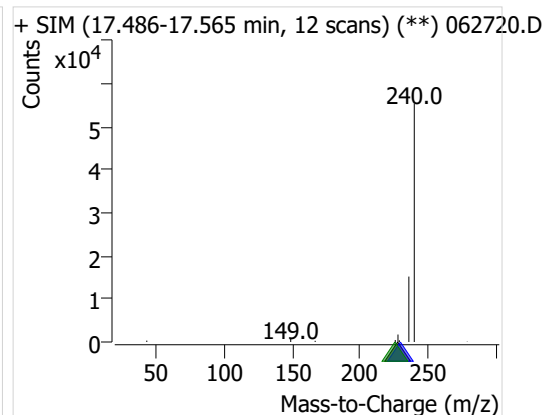
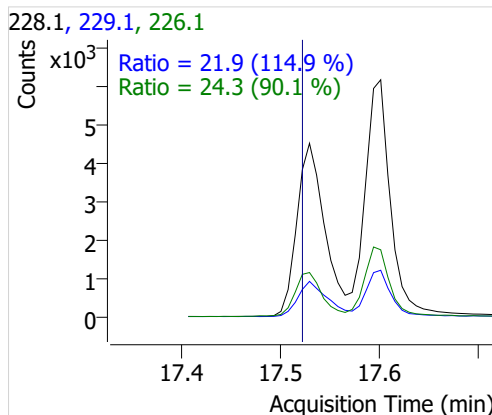
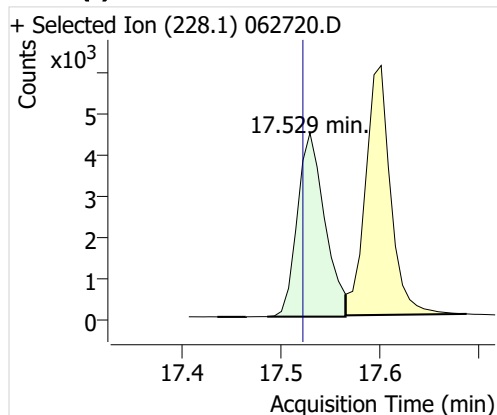
Benzyl Butyl phthalate



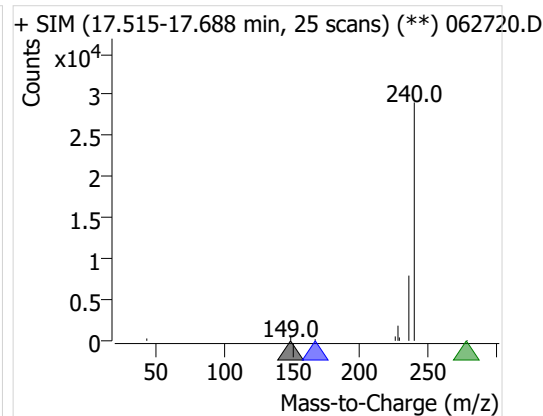
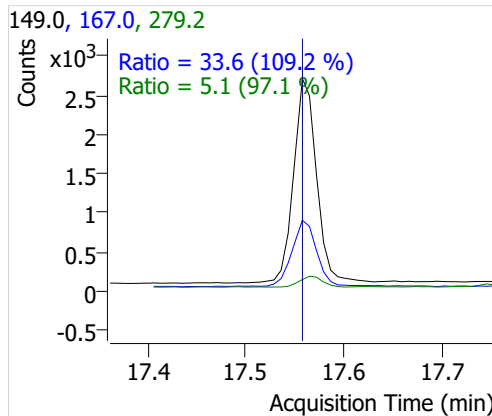
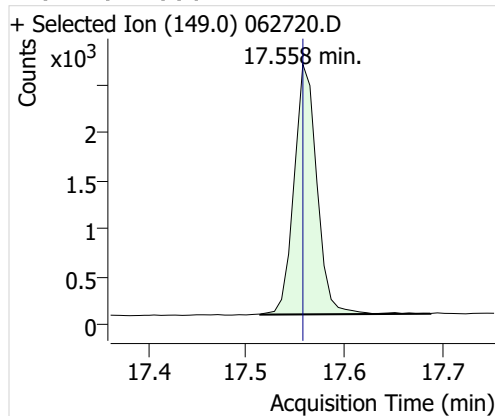
bis (2-Ethylhexyl) adipate



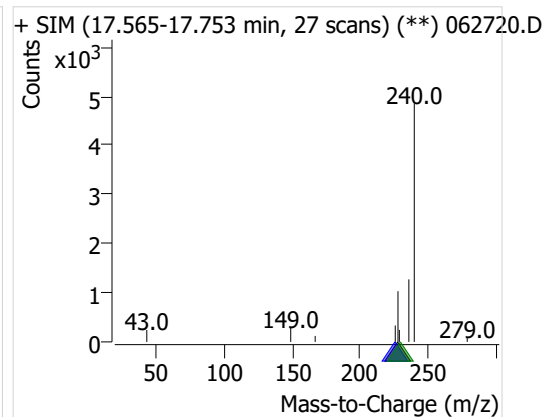
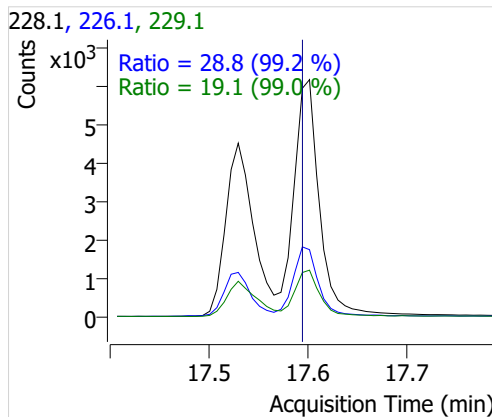
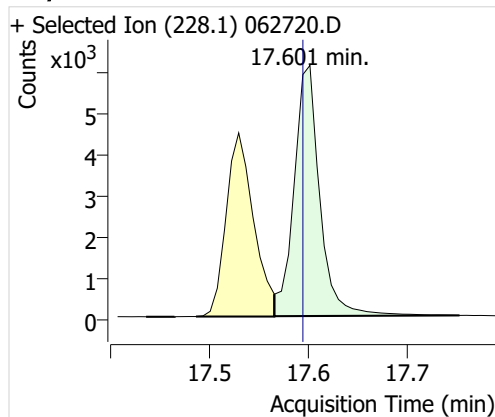
Benzo (a) anthracene



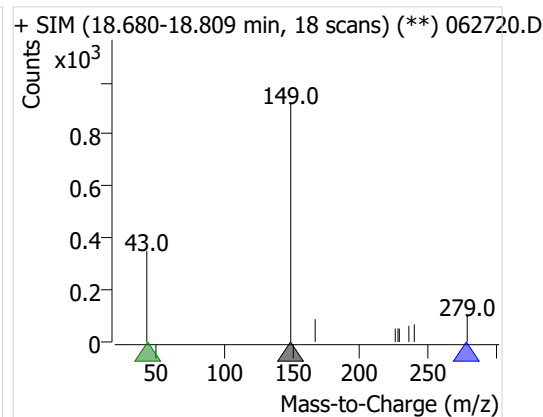
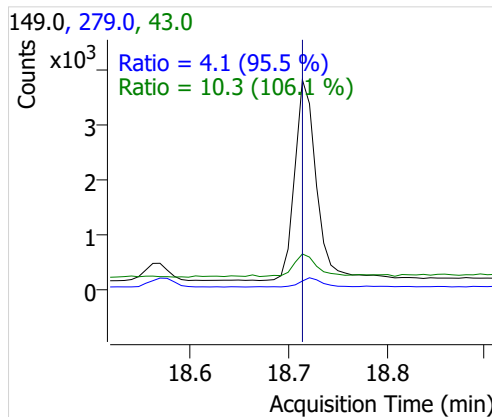
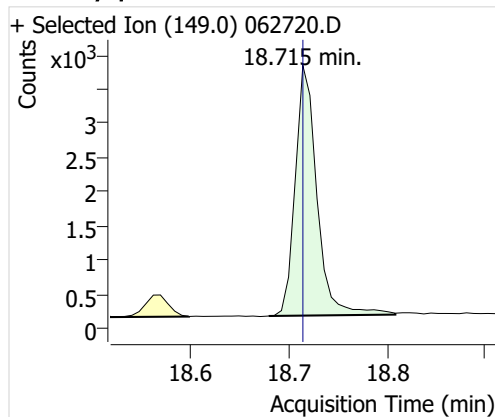
bis(2-Ethylhexyl) phthalate



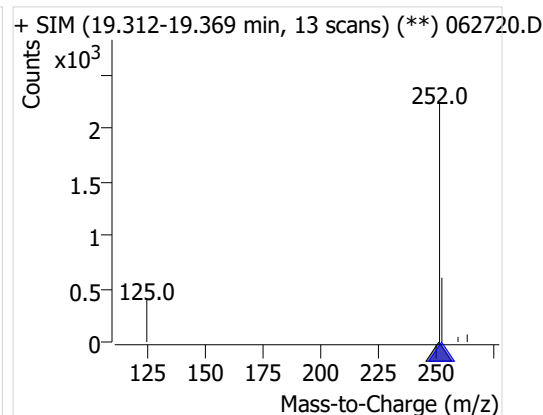
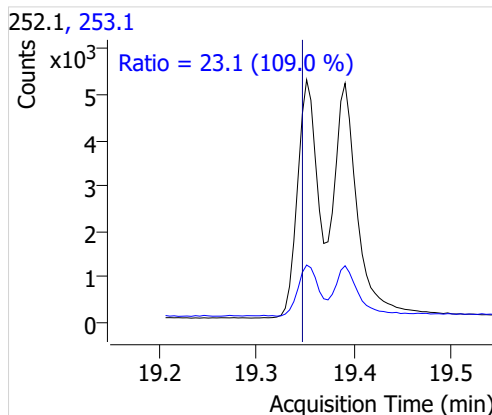
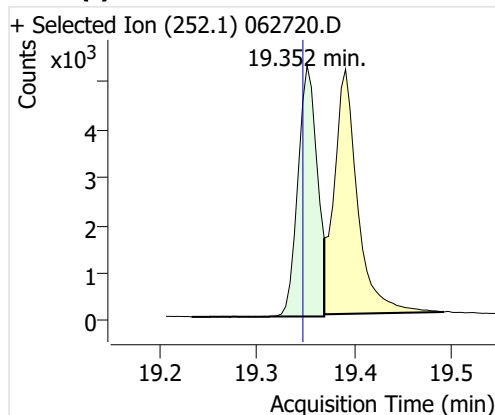
Chrysene



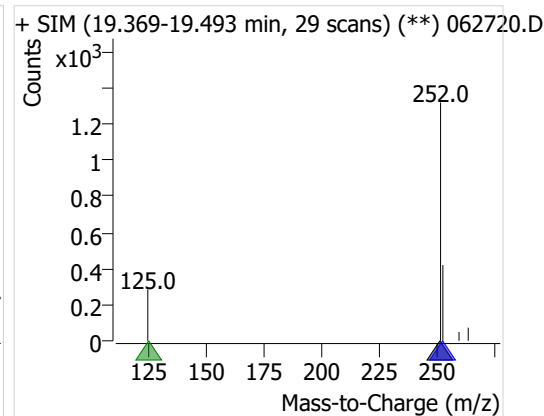
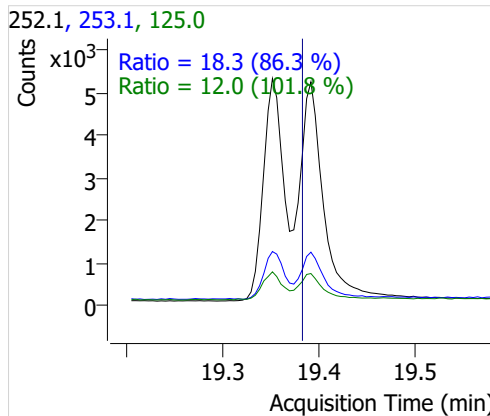
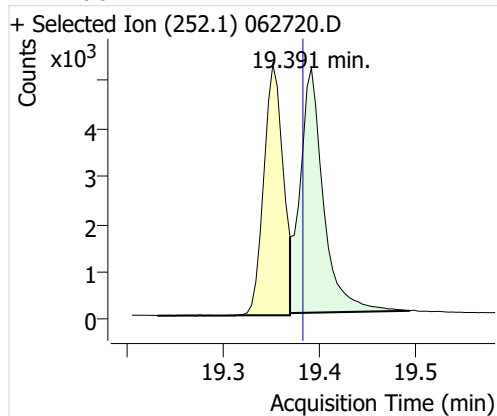
Di-n-octyl phthalate



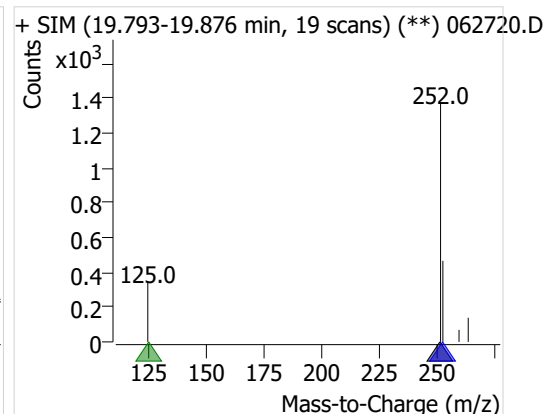
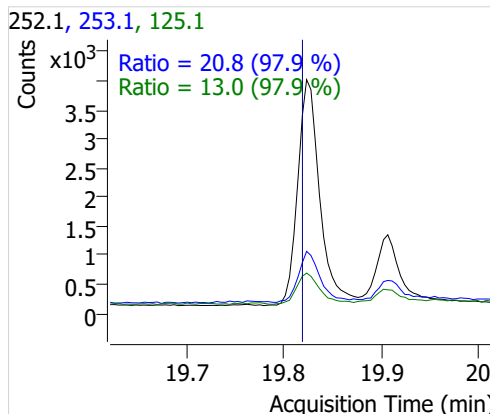
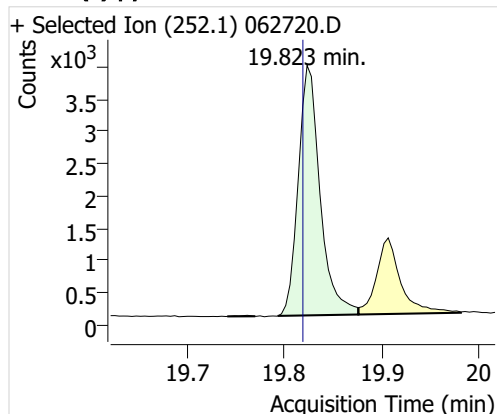
benzo (b) fluoranthene



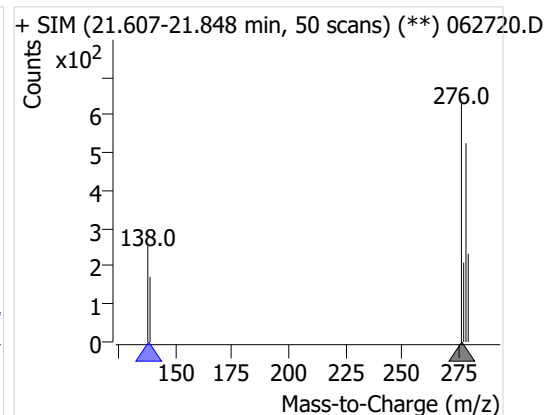
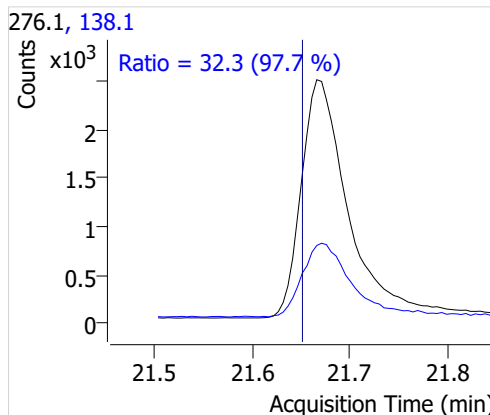
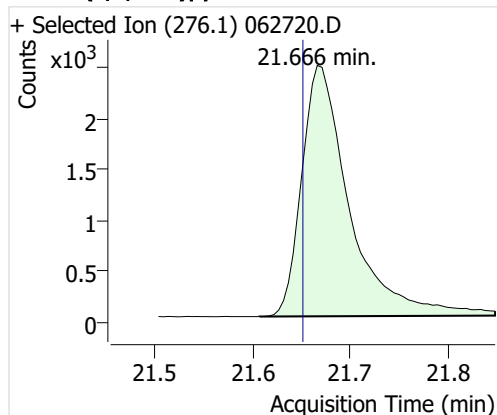
benzo (k) fluoranthene



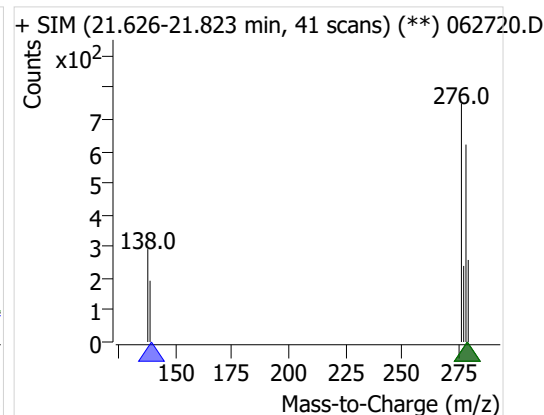
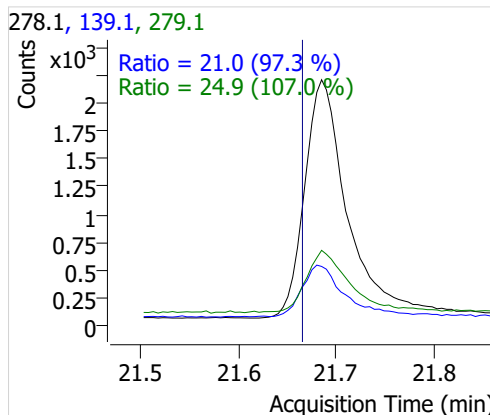
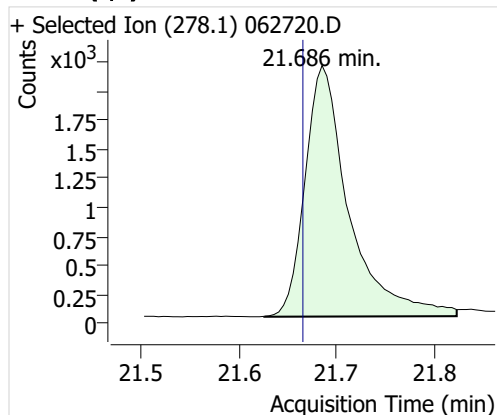
benzo (a) pyrene



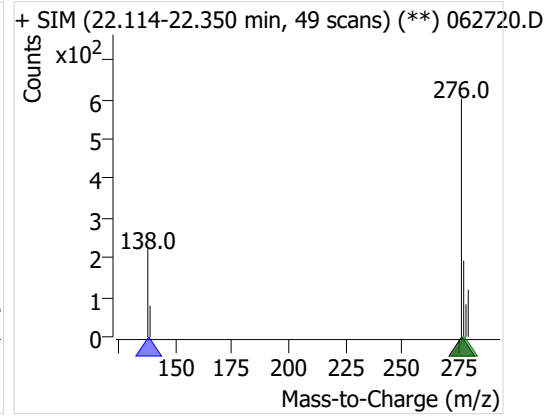
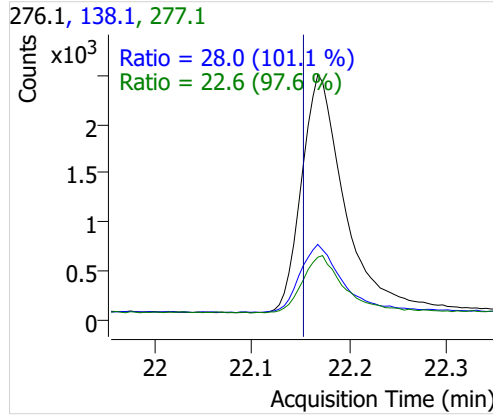
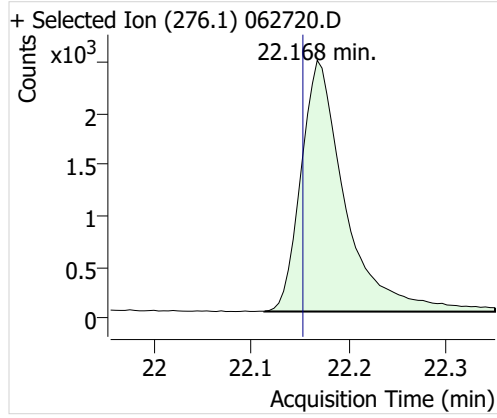
Indeno(1,2,3-cd)pyrene



Dibenz (a,h) anthracene



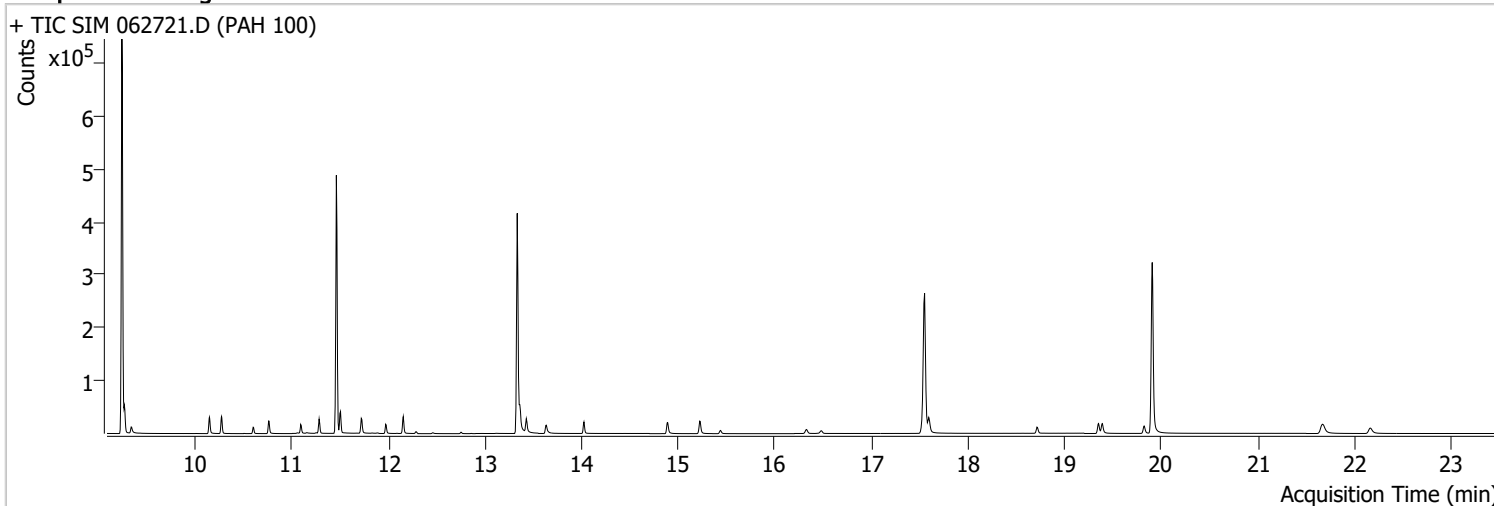
Benzo (g,h,i) perylene



Quantitative Analysis Complete Report

Batch Path	C:\GC-14\Data\2023\062723\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	6/29/2023 12:01 PM	Reporter Name	FA\GC14
Report Time	6/29/2023 12:02:01 PM	Batch State	Processed
Last Calib Update	6/29/2023 12:00 PM	Quant Report Version	10.0
Quant Batch Version	10.0		
Acq. Time	6/27/2023 7:08 PM	Data File	062721.D
Sample Type	Cal	Sample Name	PAH 100
Dilution	1	Acq. Method	8270E_SIM_625

Sample Chromatogram

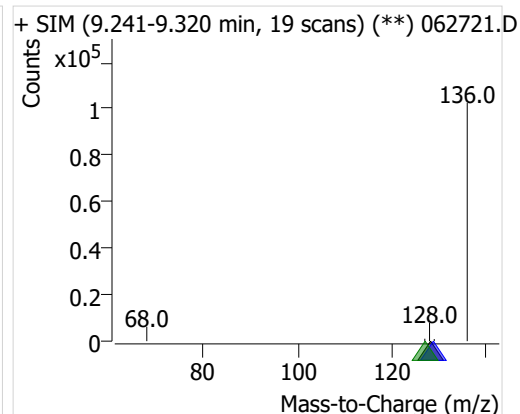
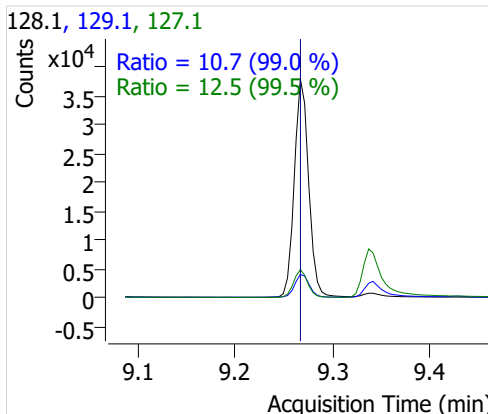
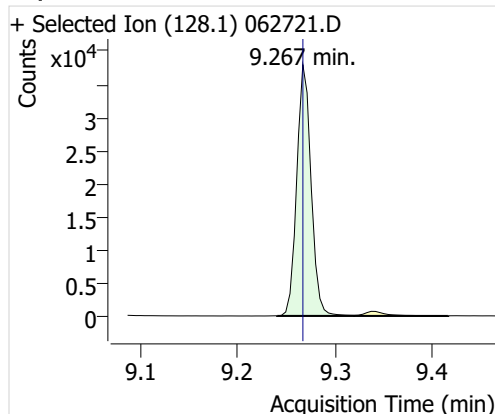


Compound	ISTD	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Units
Naphthalene	Naphthalene-d8 (IS)	9.267	38734	693591	0.0558	106.5234	µg/L
2-Methylnaphthalene	Naphthalene-d8 (IS)	10.147	15365	693591	0.0222	85.3912	µg/L
1-Methylnaphthalene	Naphthalene-d8 (IS)	10.273	14818	693591	0.0214	86.5235	µg/L
2-Fluorobiphenyl (surr)	Naphthalene-d8 (IS)	10.600	9395	693591	0.0135	41.4035	µg/L
2-Chloronaphthalene	Naphthalene-d8 (IS)	10.760	15754	693591	0.0227	80.9065	µg/L
Dimethyl phthalate	Naphthalene-d8 (IS)	11.092	14692	693591	0.0212	75.3242	µg/L
Acenaphthylene	Naphthalene-d8 (IS)	11.283	20162	693591	0.0291	77.2379	µg/L
Acenaphthene	Acenaphthene-d10 (IS)	11.504	16377	228701	0.0716	103.5501	µg/L
Dibenzofuran	Acenaphthene-d10 (IS)	11.725	22214	228701	0.0971	97.5349	µg/L
Diethylphthalate	Acenaphthene-d10 (IS)	11.972	14070	228701	0.0615	80.6374	µg/L
Fluorene	Acenaphthene-d10 (IS)	12.154	16217	228701	0.0709	91.6535	µg/L
2,4,6-Tribromophenol	Acenaphthene-d10 (IS)	12.459	1108	228701	0.0048	75.0143	µg/L
Pentachlorophenol	Acenaphthene-d10 (IS)	13.119	567	228701	0.0025	59.1778	µg/L
Phenanthrene	Phenanthrene-d10 (IS)	13.360	26628	436244	0.0610	99.1915	µg/L
Anthracene	Phenanthrene-d10 (IS)	13.427	22060	436244	0.0506	81.3734	µg/L
Carbazole	Phenanthrene-d10 (IS)	13.634	19202	436244	0.0440	76.5777	µg/L
Di-n-butyl phthalate	Phenanthrene-d10 (IS)	14.024	19814	436244	0.0454	70.0780	µg/L
Fluoranthene	Phenanthrene-d10 (IS)	14.890	23349	436244	0.0535	80.6314	µg/L
Pyrene	Phenanthrene-d10 (IS)	15.224	25184	436244	0.0577	81.5707	µg/L
Terphenyl-d14 (surr)	Phenanthrene-d10 (IS)	15.437	7317	436244	0.0168	40.2256	µg/L
Benzyl Butyl phthalate	Phenanthrene-d10 (IS)	16.328	6874	436244	0.0158	83.9366	µg/L
bis (2-Ethylhexyl) adipate	Phenanthrene-d10 (IS)	16.480	5240	436244	0.0120	65.4950	µg/L
Benzo (a) anthracene	Phenanthrene-d10 (IS)	17.529	21607	436244	0.0495	83.8036	µg/L
bis(2-Ethylhexyl) phthalate	Chrysene-d12 (IS)	17.558	10847	331899	0.0327	71.8861	µg/L
Chrysene	Chrysene-d12 (IS)	17.594	28383	331899	0.0855	107.5459	µg/L
Di-n-octyl phthalate	Chrysene-d12 (IS)	18.714	14348	331899	0.0432	89.2618	µg/L
benzo (b) fluoranthene	Chrysene-d12 (IS)	19.351	19592	331899	0.0590	83.6165	µg/L
benzo (k) fluoranthene	Chrysene-d12 (IS)	19.391	23227	331899	0.0700	85.8105	µg/L
benzo (a) pyrene	Chrysene-d12 (IS)	19.823	15880	331899	0.0478	78.6063	µg/L
Indeno(1,2,3-cd)pyrene	Perylene-d12 (IS)	21.661	22512	389811	0.0578	82.9473	µg/L

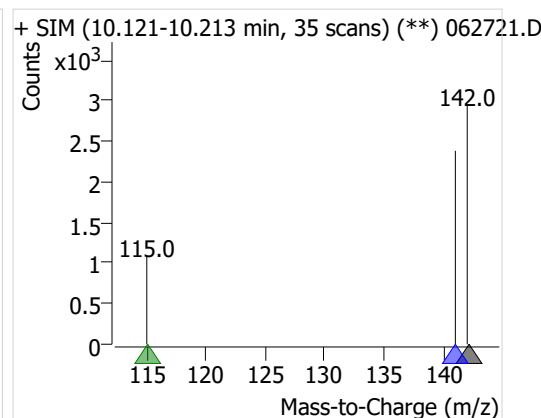
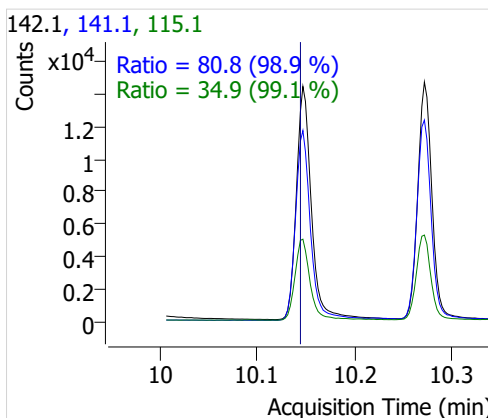
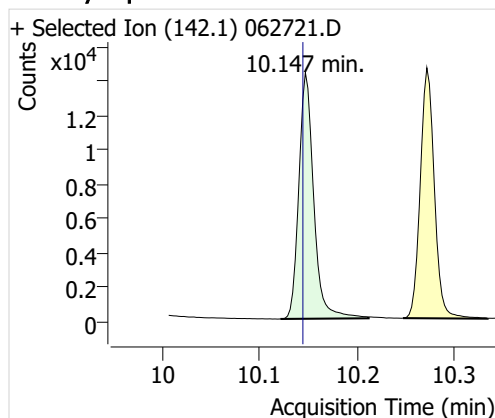
Quantitative Analysis Complete Report

Compound	ISTD	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Units
Dibenz (a,h) anthracene	Perylene-d12 (IS)	21.681	18187	389811	0.0467	79.3949	µg/L
Benzo (g,h,i) perylene	Perylene-d12 (IS)	22.163	19908	389811	0.0511	85.8832	µg/L

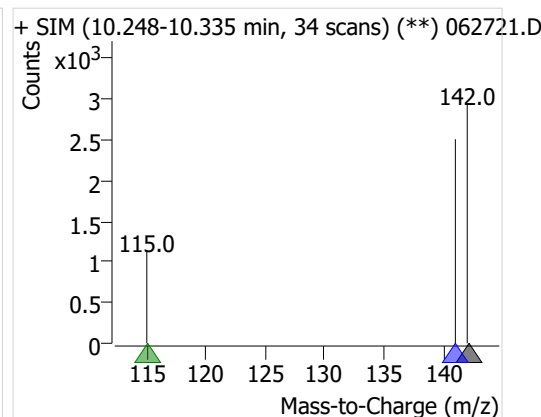
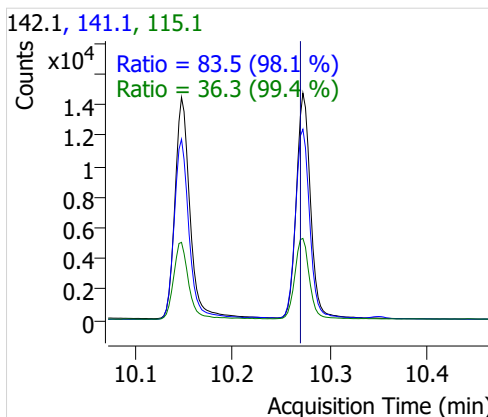
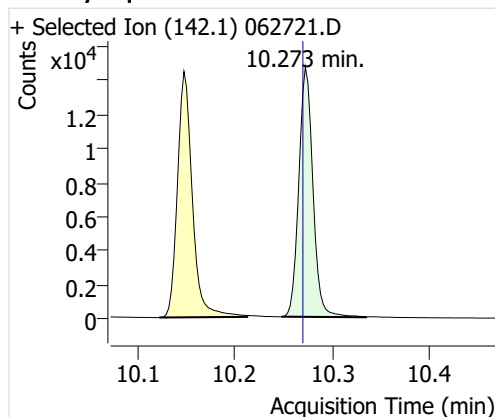
Naphthalene



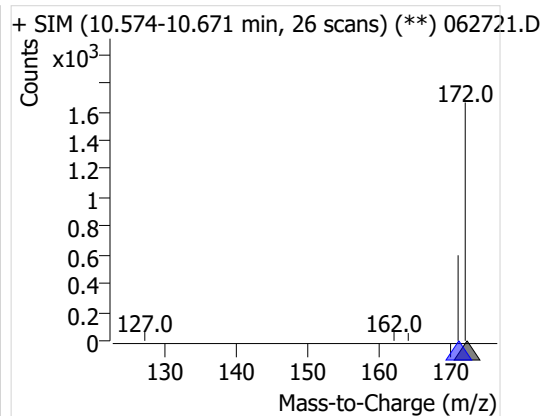
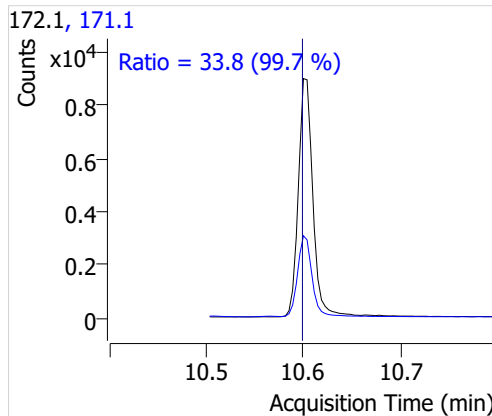
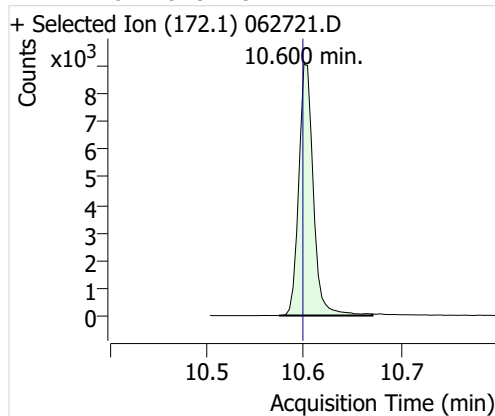
2-Methylnaphthalene



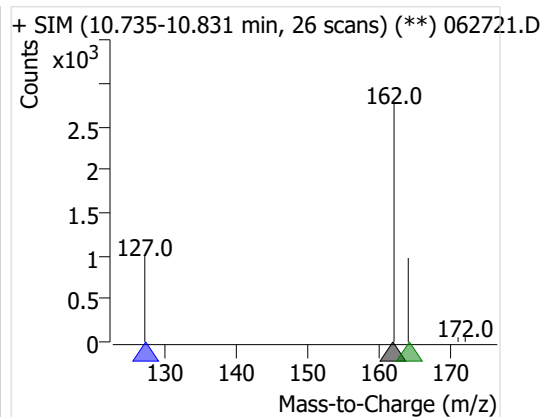
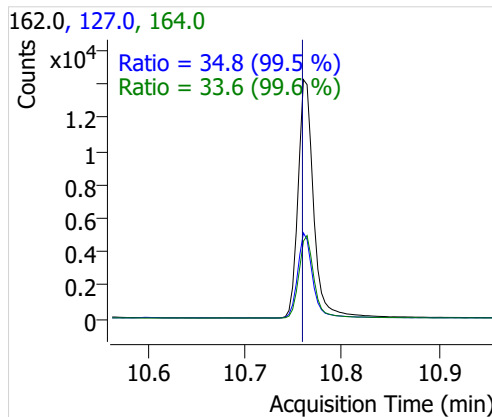
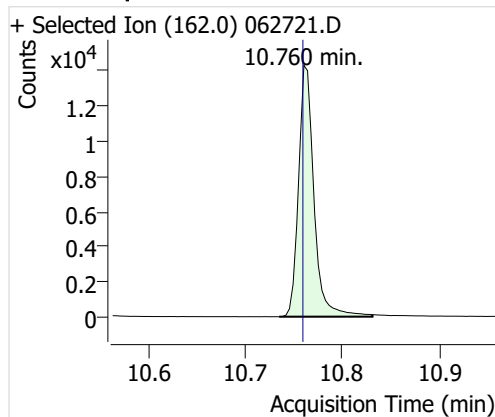
1-Methylnaphthalene



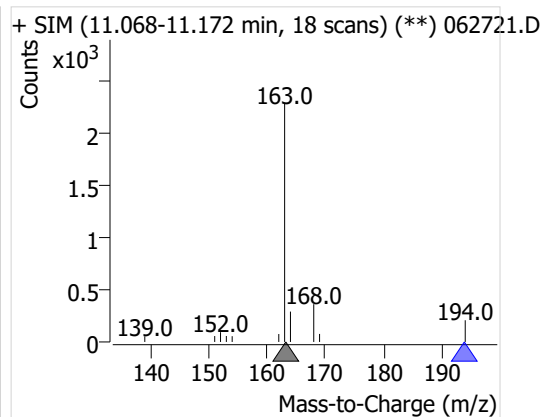
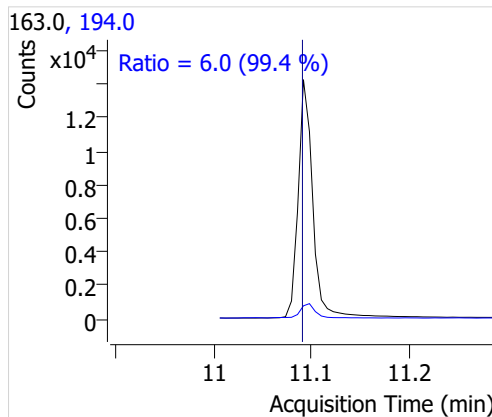
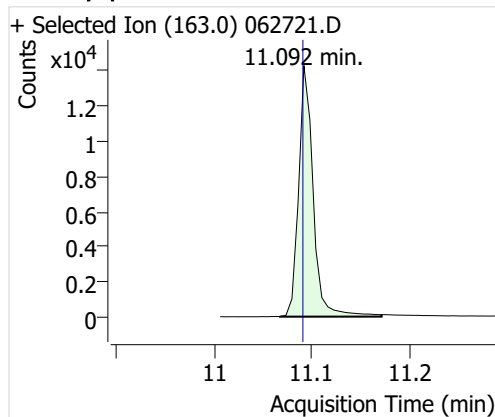
2-Fluorobiphenyl (surr)



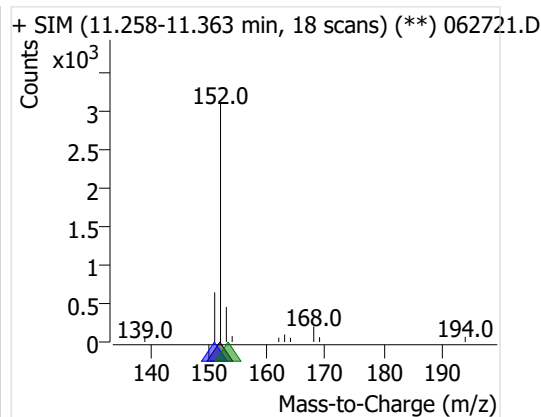
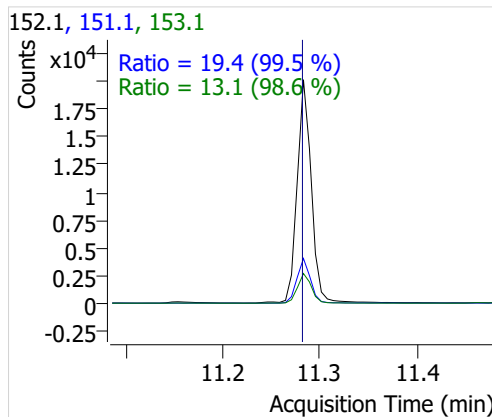
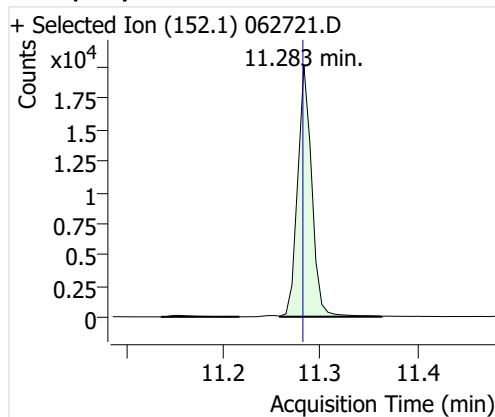
2-Chloronaphthalene



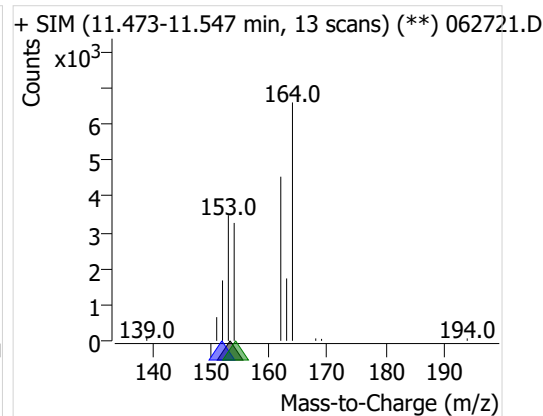
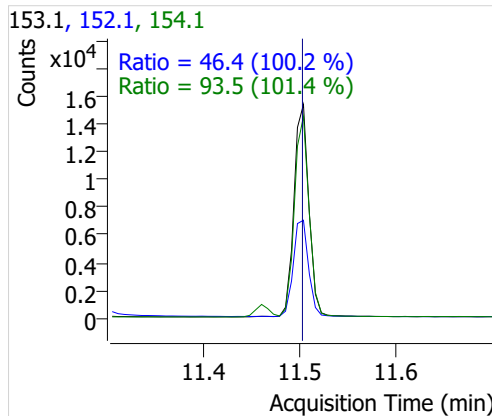
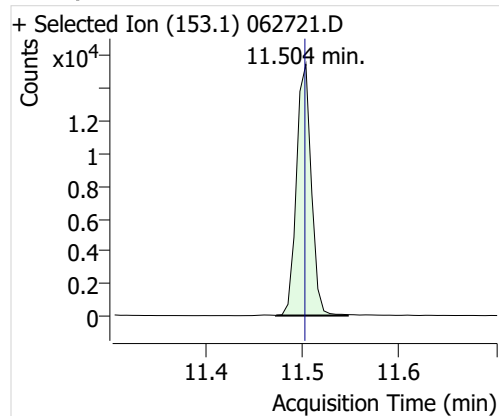
Dimethyl phthalate



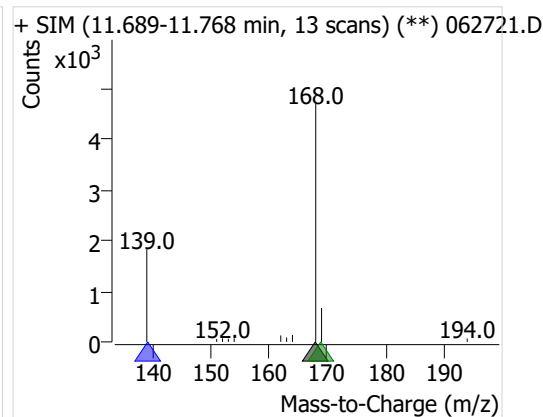
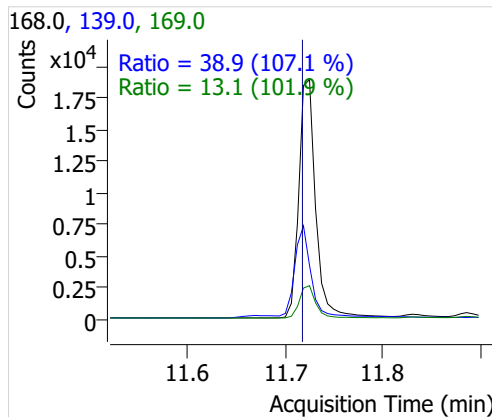
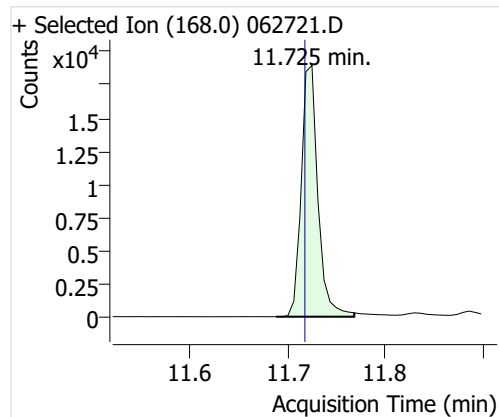
Acenaphthylene



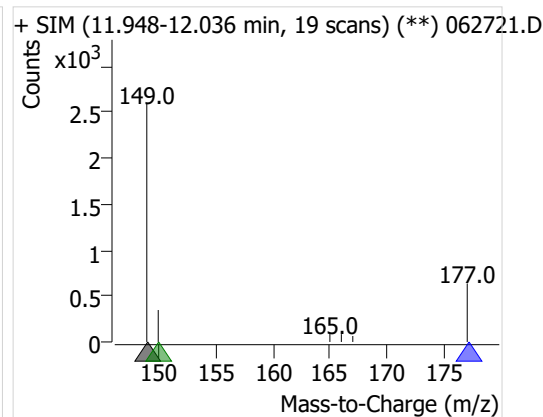
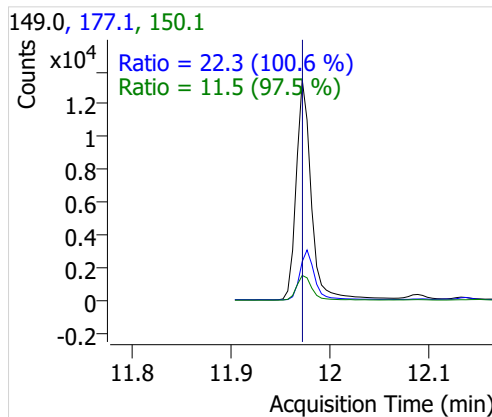
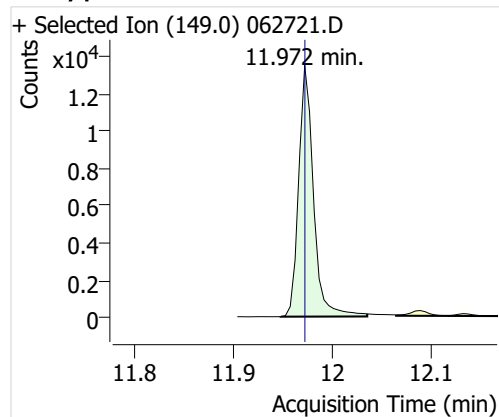
Acenaphthene



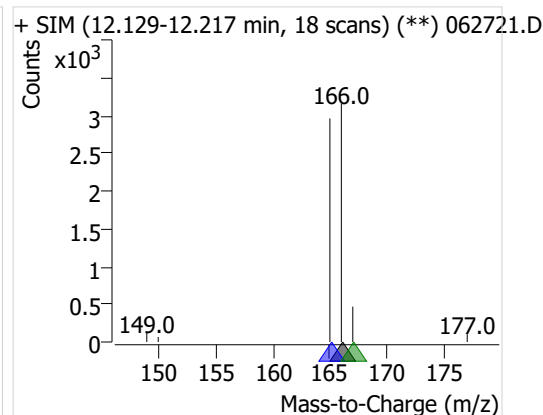
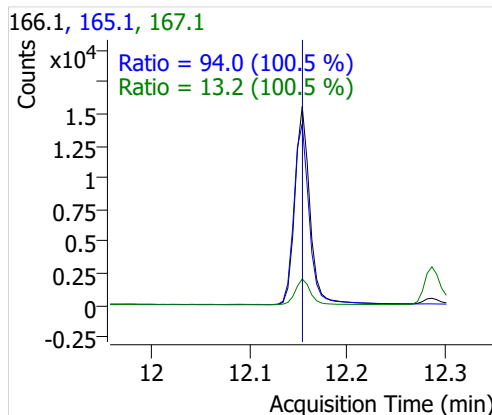
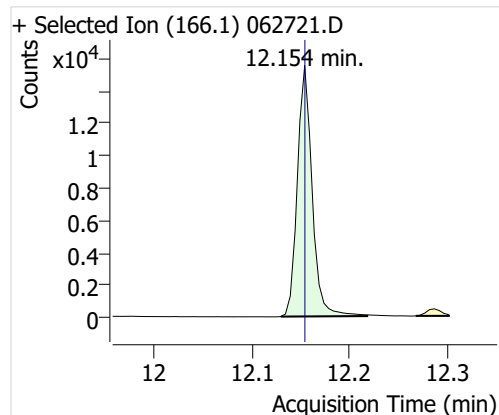
Dibenzofuran



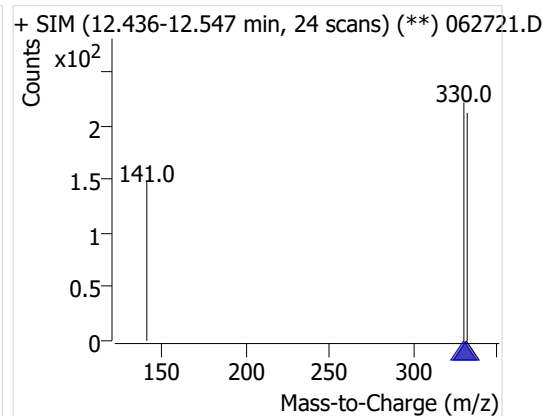
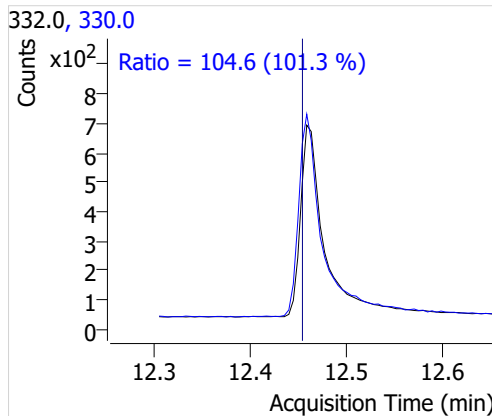
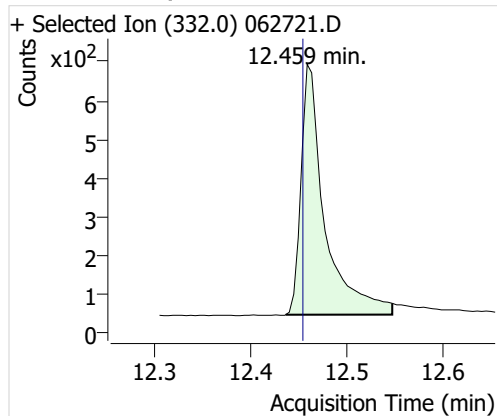
Diethylphthalate



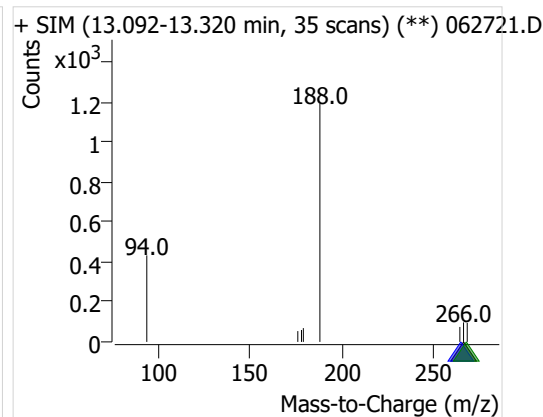
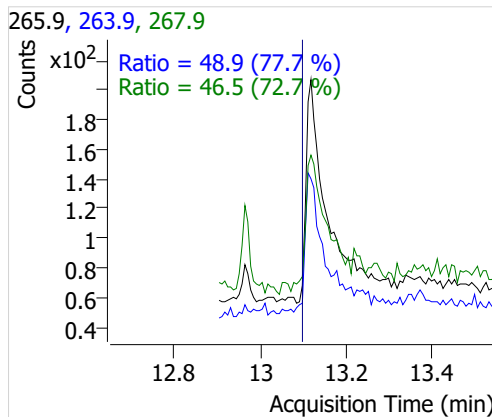
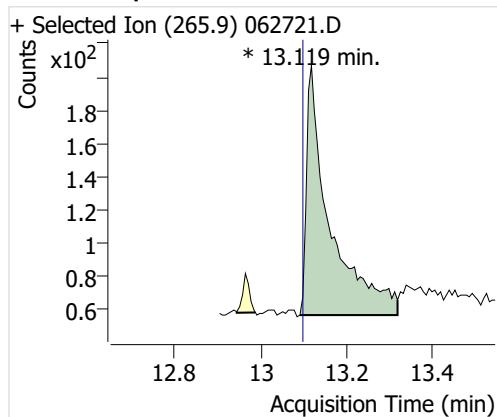
Fluorene



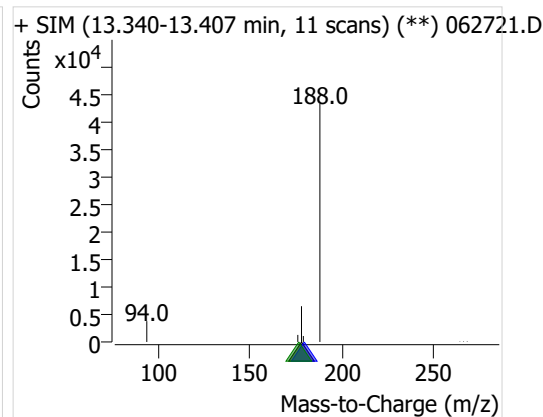
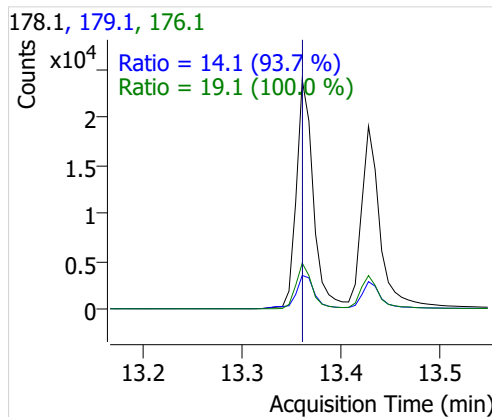
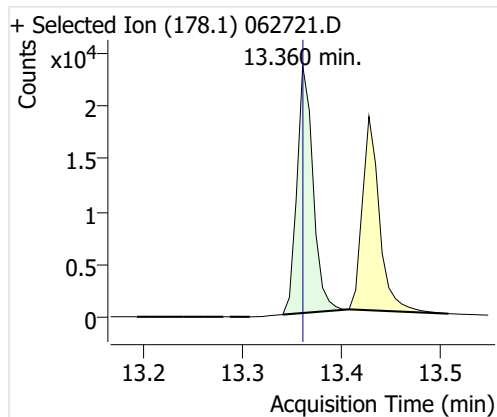
2,4,6-Tribromophenol



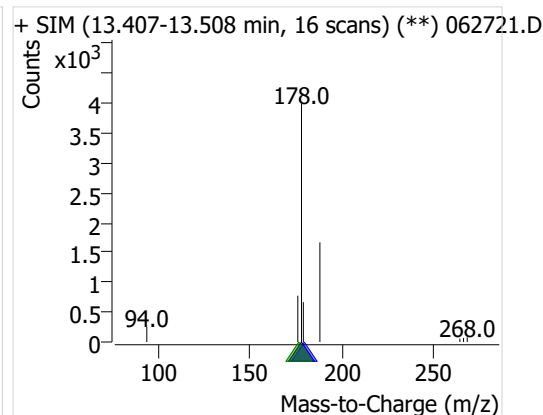
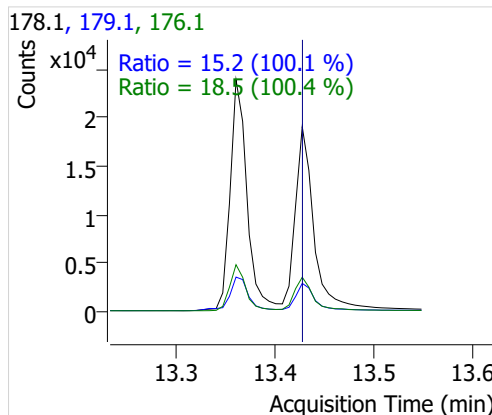
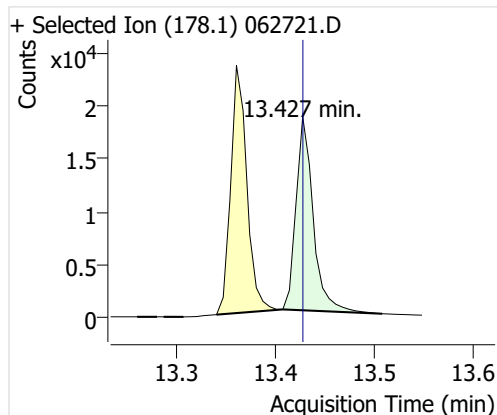
Pentachlorophenol



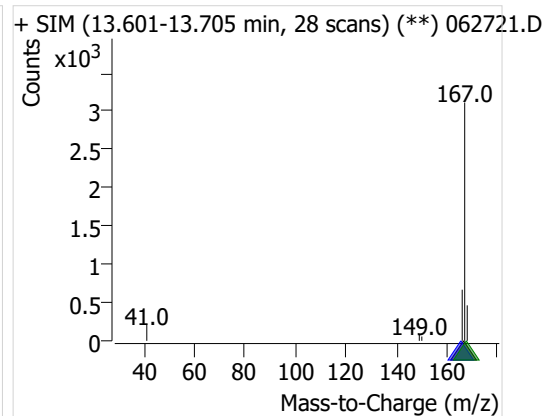
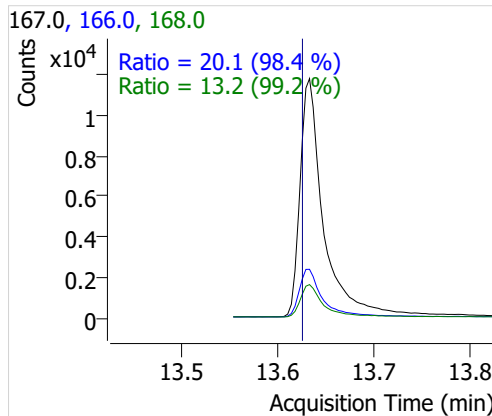
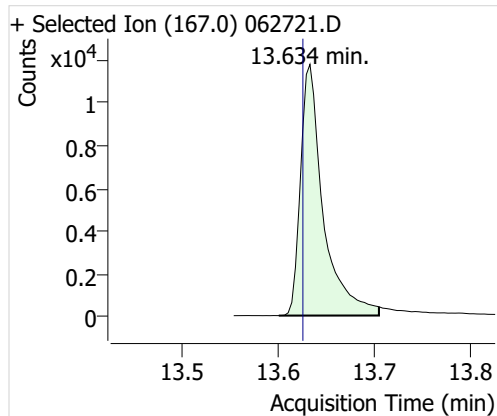
Phenanthrene



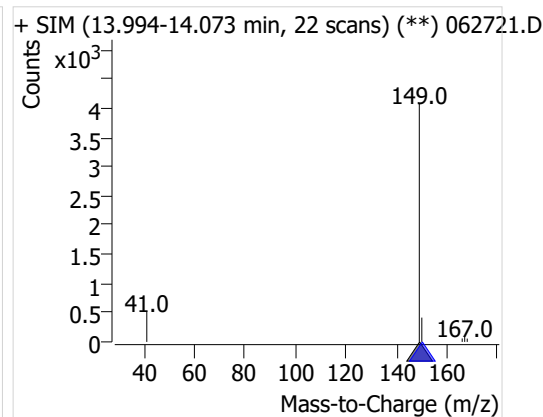
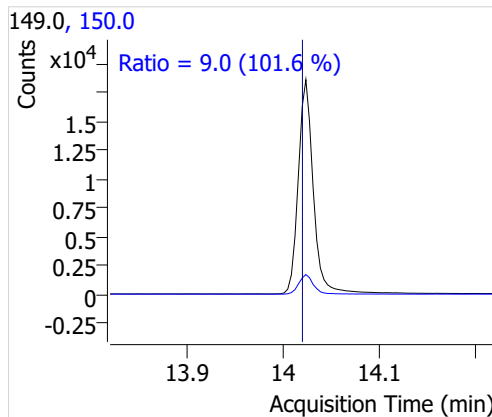
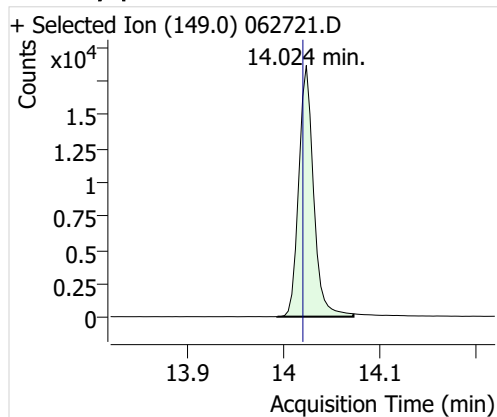
Anthracene



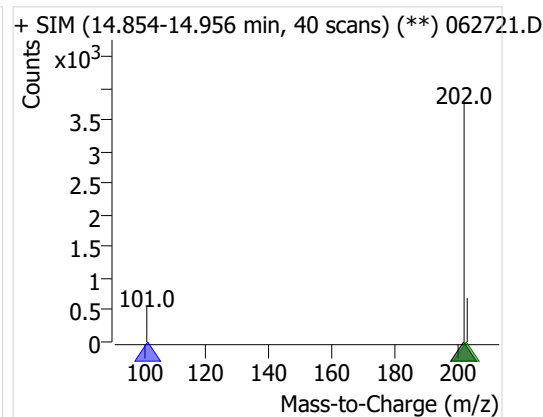
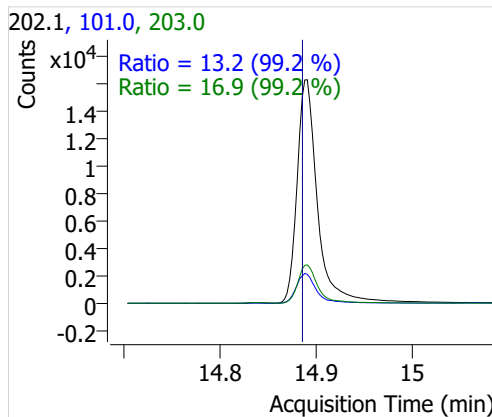
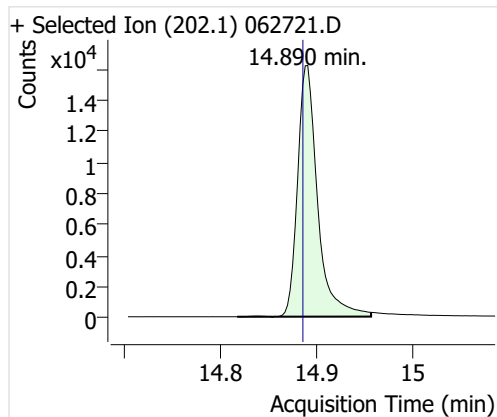
Carbazole



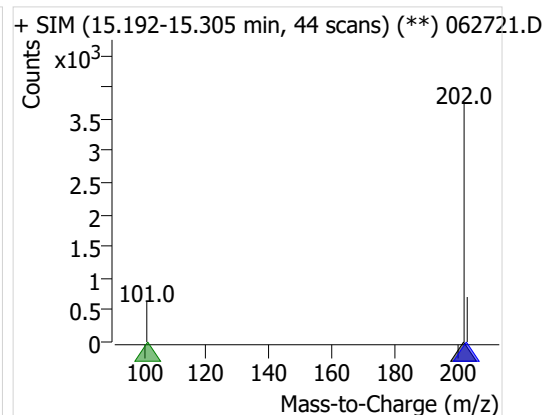
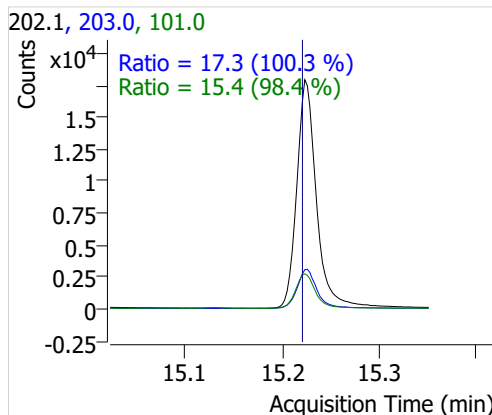
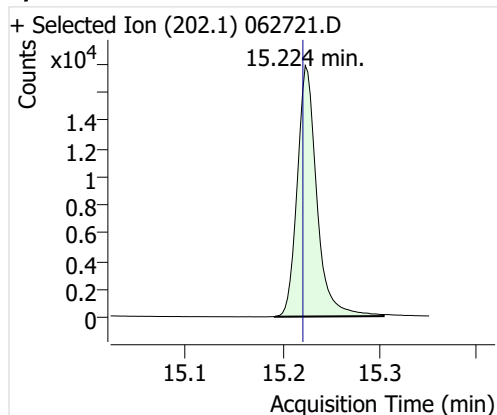
Di-n-butyl phthalate



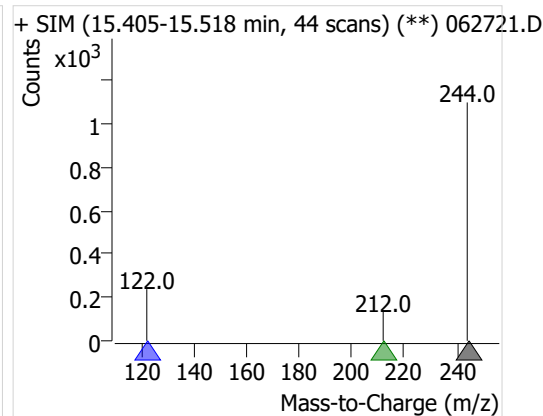
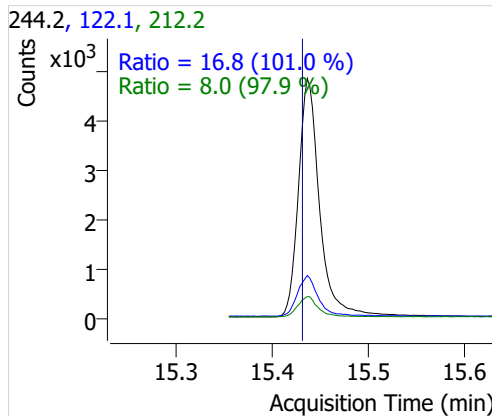
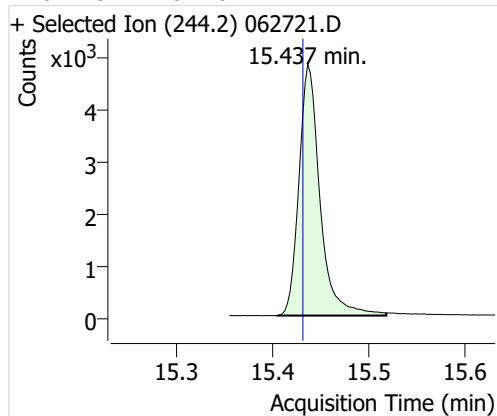
Fluoranthene



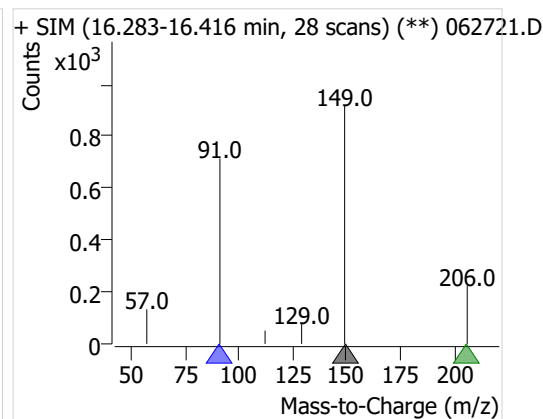
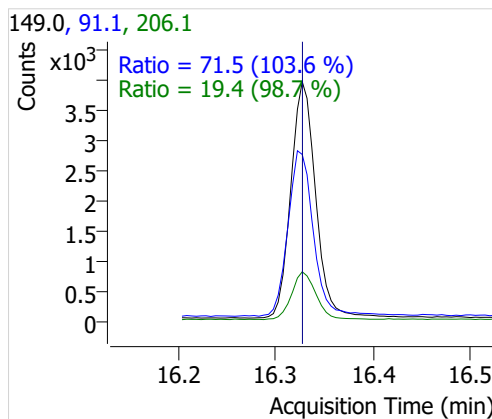
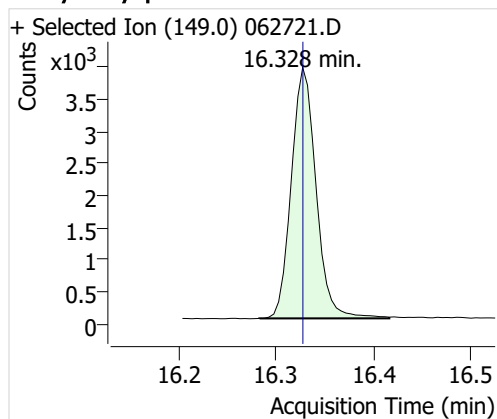
Pyrene



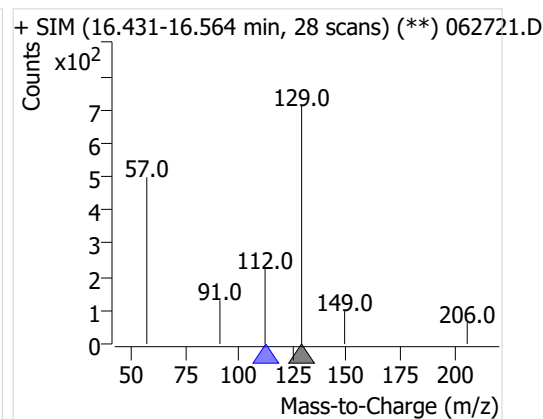
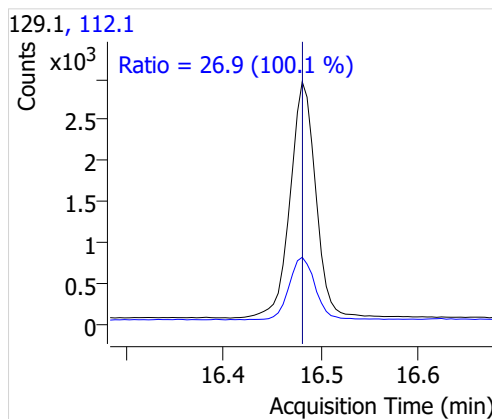
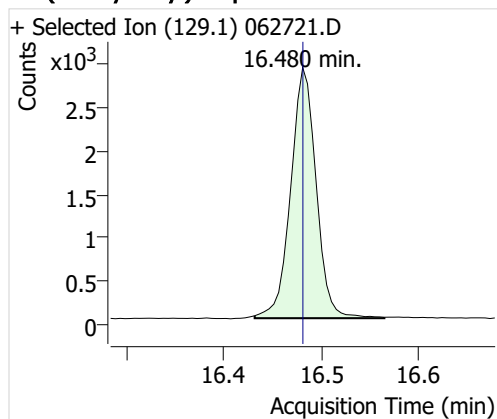
Terphenyl-d14 (surr)



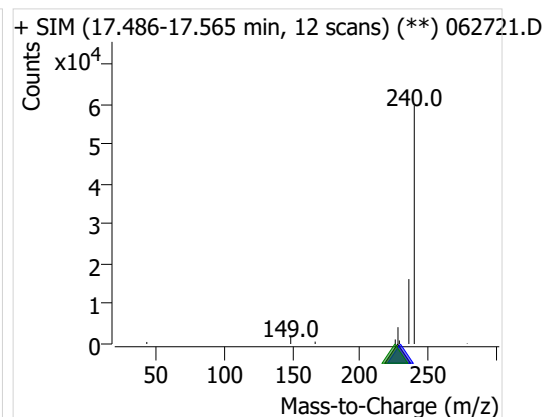
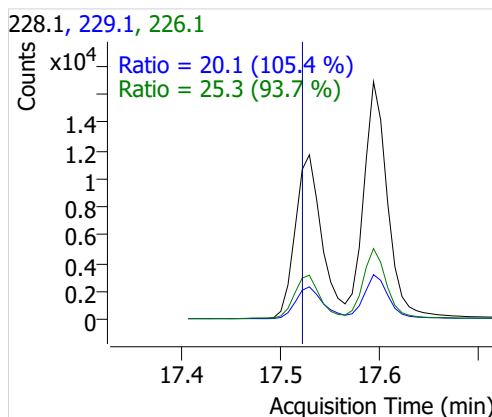
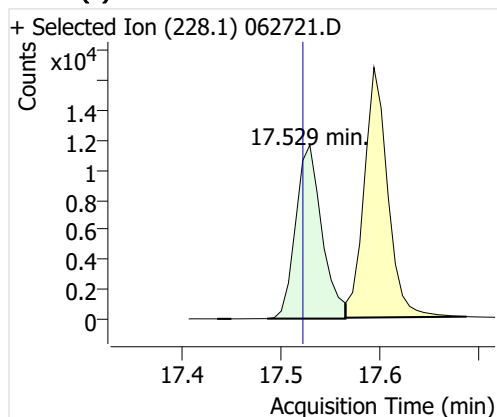
Benzyl Butyl phthalate



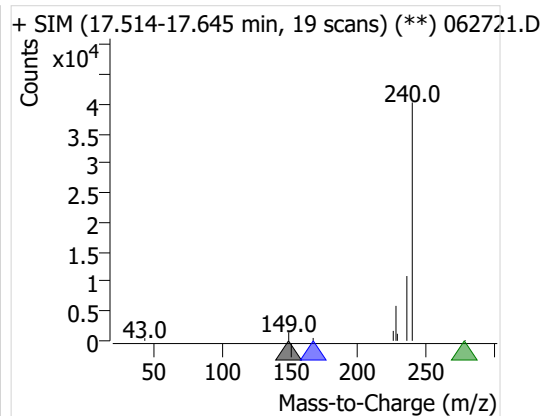
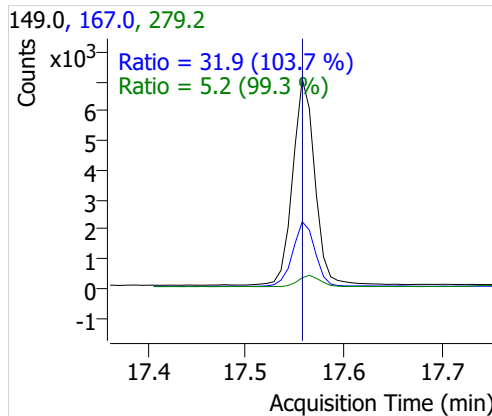
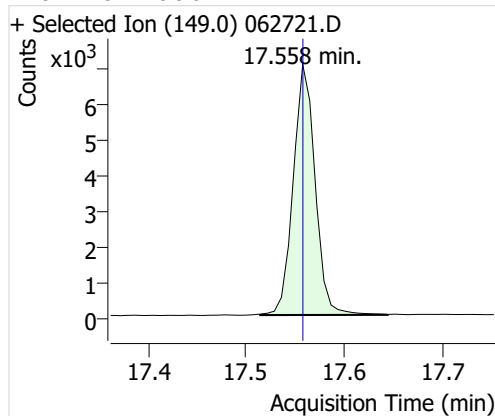
bis (2-Ethylhexyl) adipate



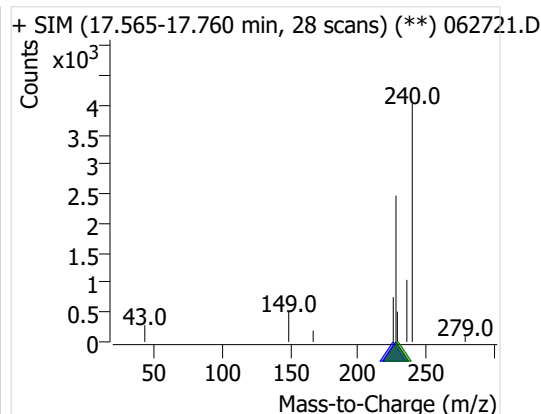
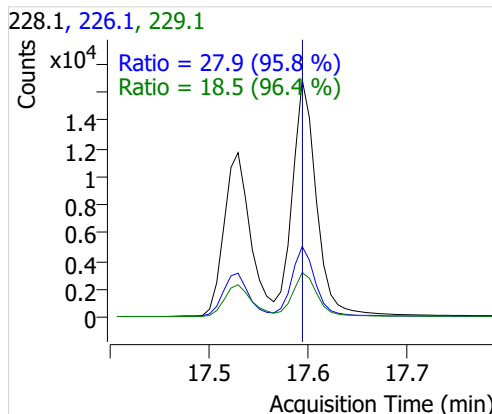
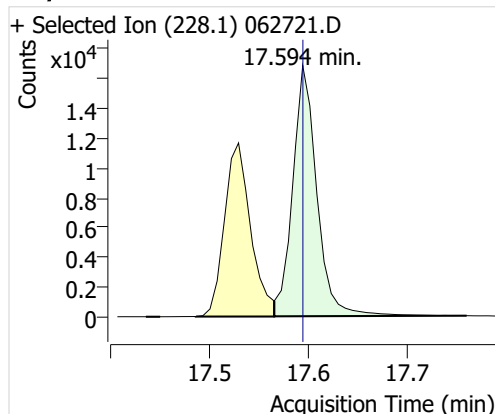
Benzo (a) anthracene



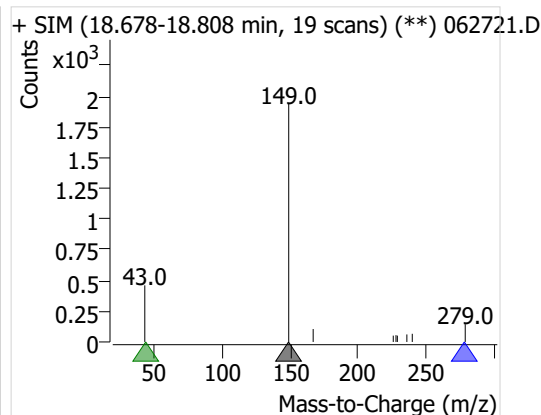
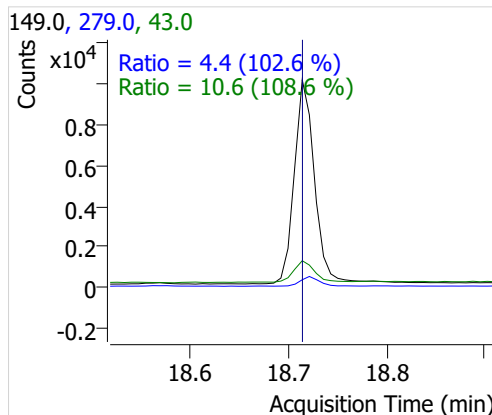
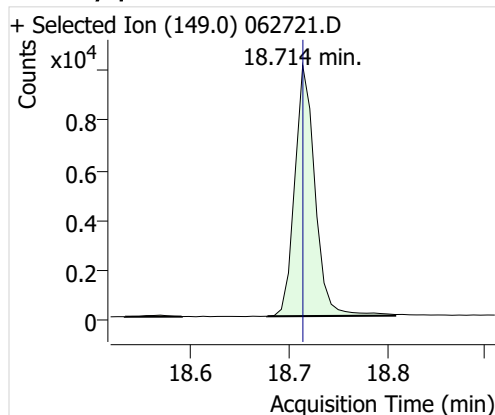
bis(2-Ethylhexyl) phthalate



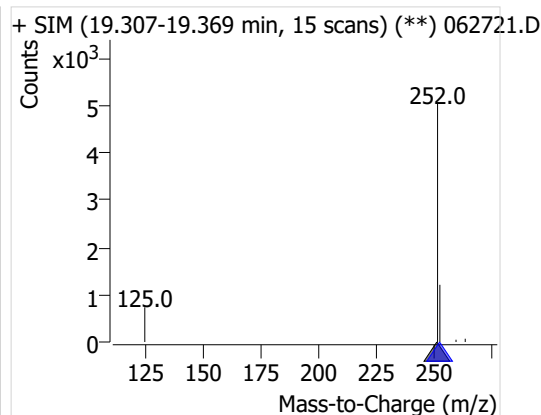
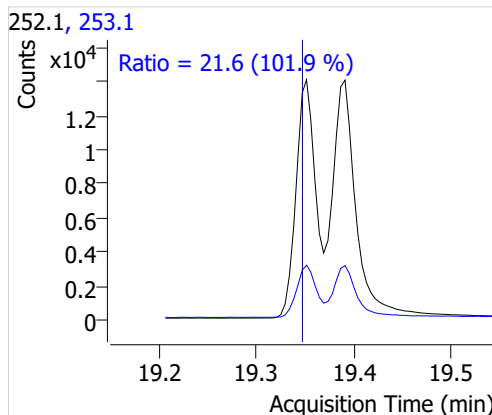
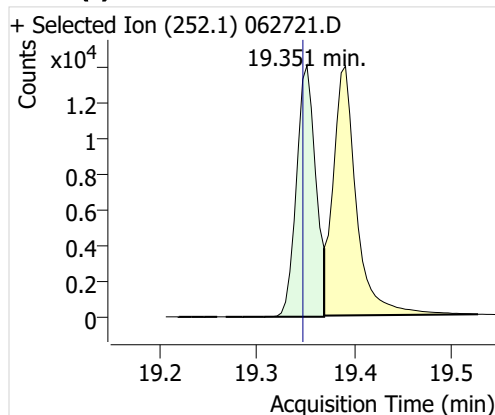
Chrysene



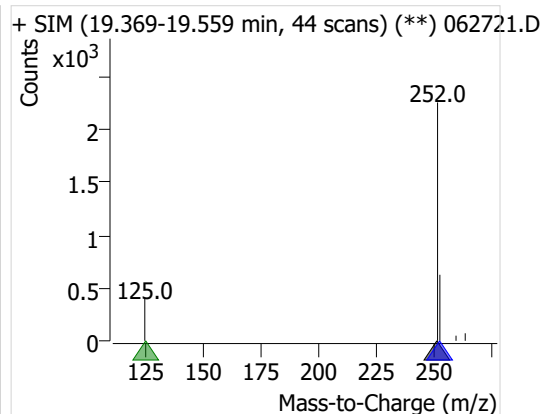
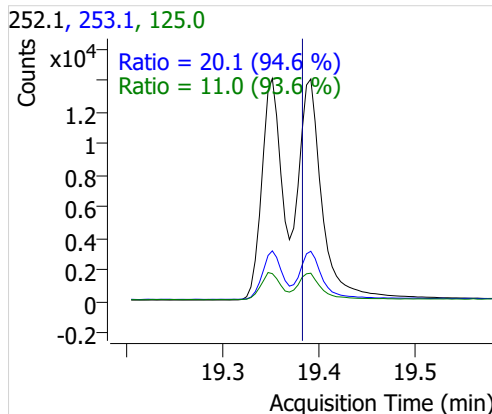
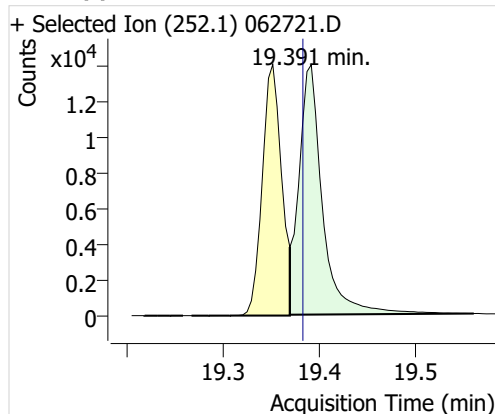
Di-n-octyl phthalate



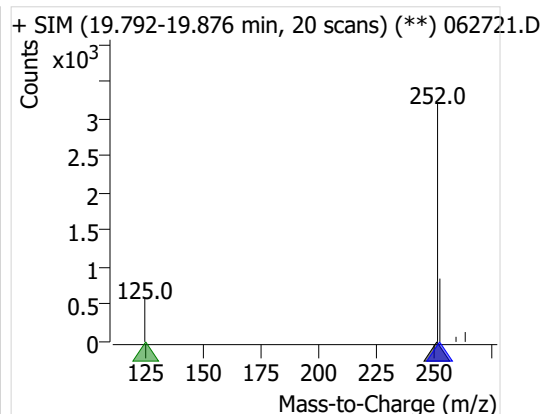
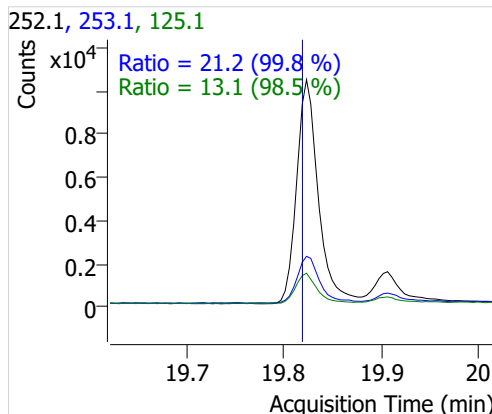
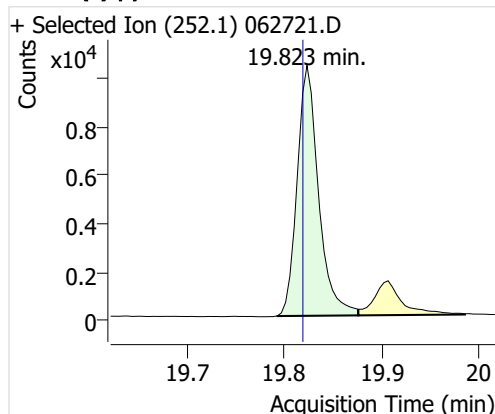
benzo (b) fluoranthene



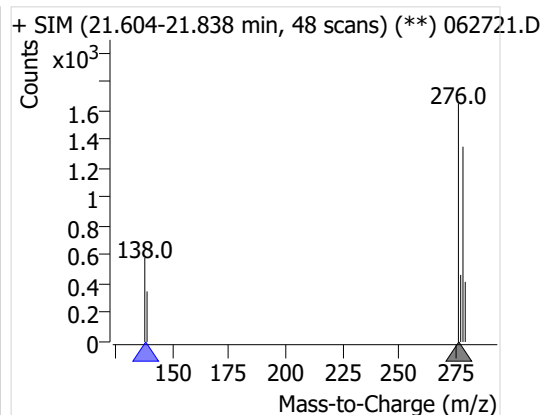
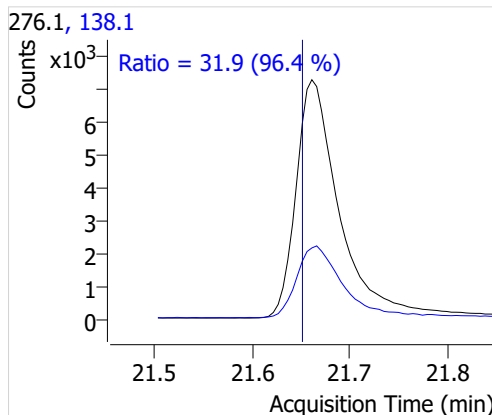
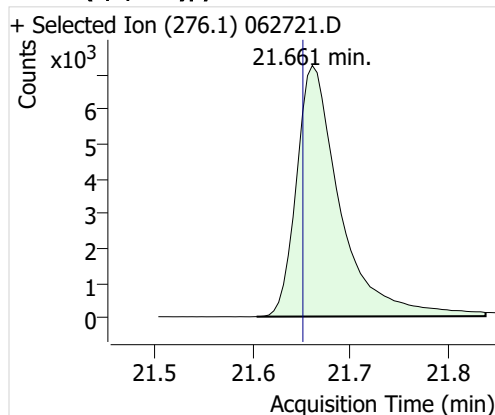
benzo (k) fluoranthene



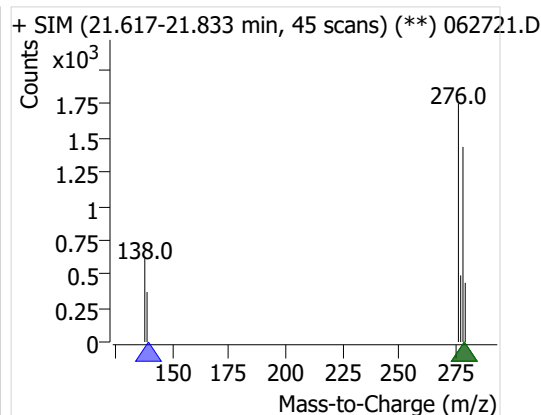
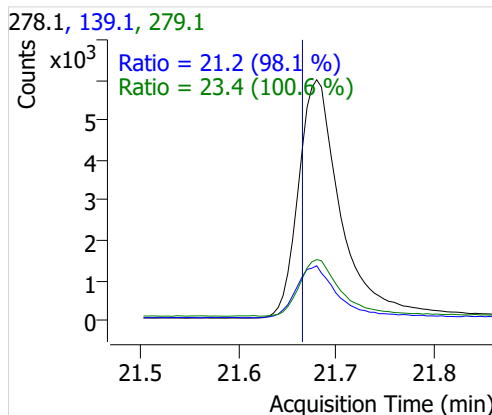
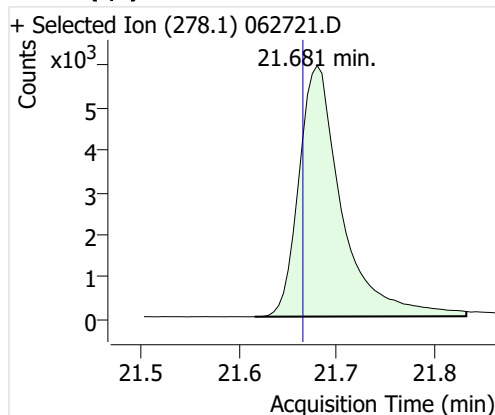
benzo (a) pyrene



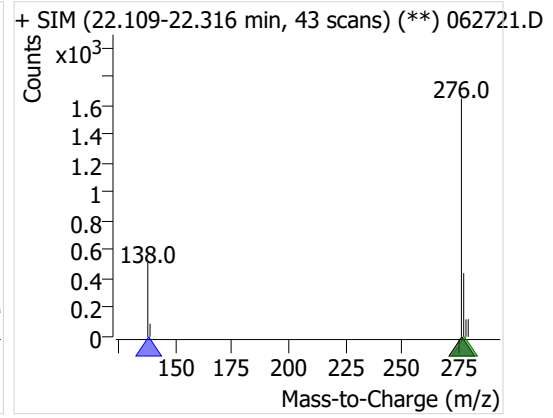
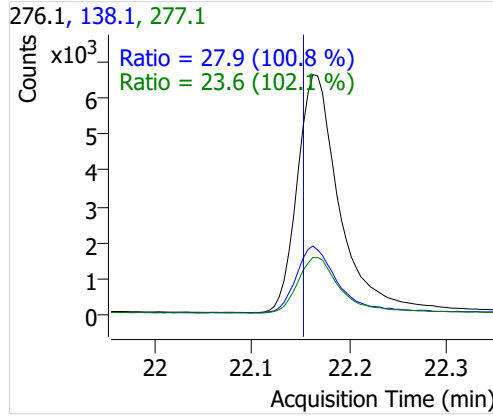
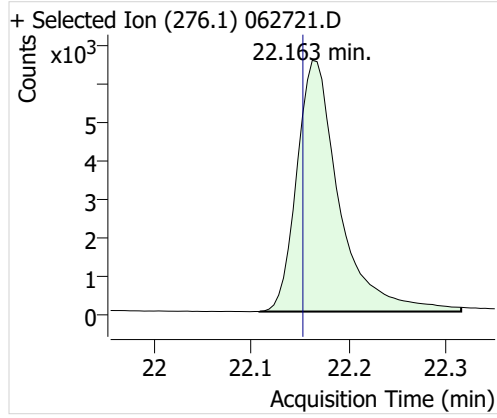
Indeno(1,2,3-cd)pyrene



Dibenz (a,h) anthracene



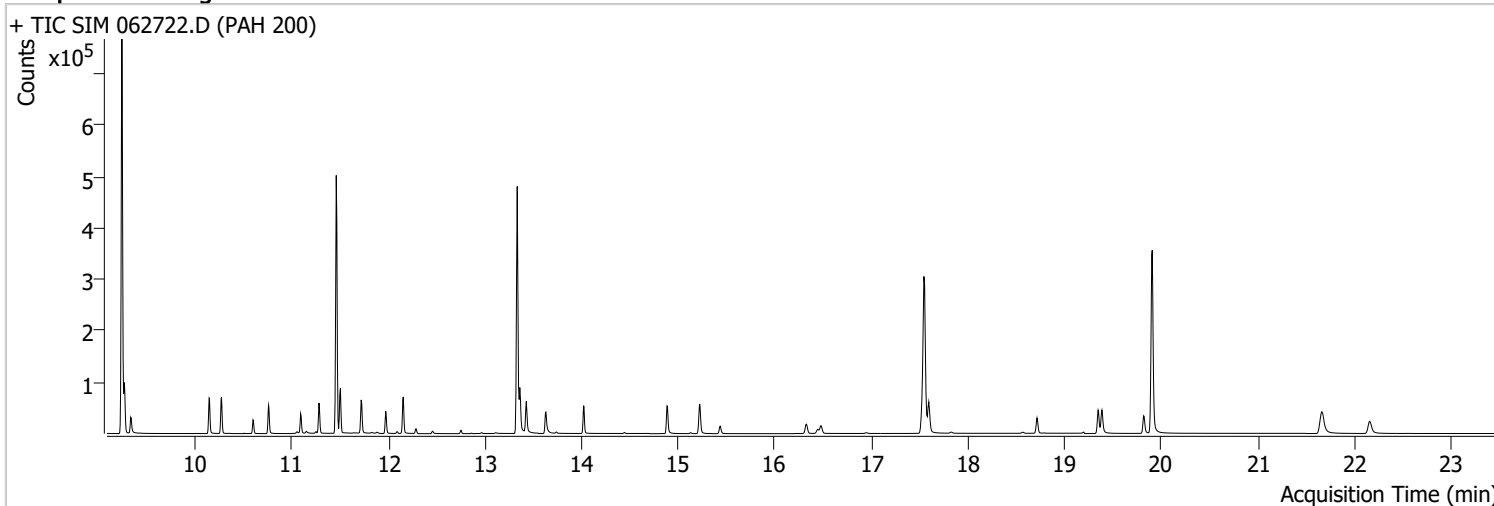
Benzo (g,h,i) perylene



Quantitative Analysis Complete Report

Batch Path	C:\GC-14\Data\2023\062723\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	6/29/2023 12:01 PM	Reporter Name	FA\GC14
Report Time	6/29/2023 12:02:04 PM	Batch State	Processed
Last Calib Update	6/29/2023 12:00 PM	Quant Report Version	10.0
Quant Batch Version	10.0		
Acq. Time	6/27/2023 7:36 PM	Data File	062722.D
Sample Type	Cal	Sample Name	PAH 200
Dilution	1	Acq. Method	8270E_SIM_625

Sample Chromatogram

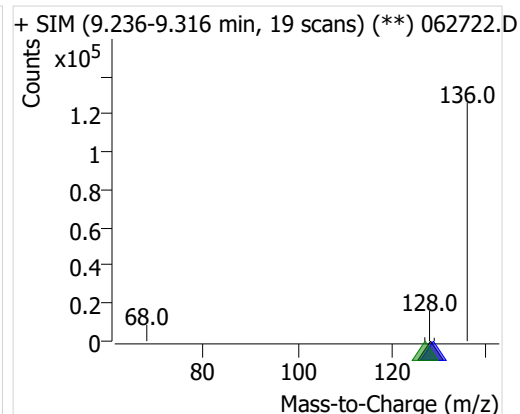
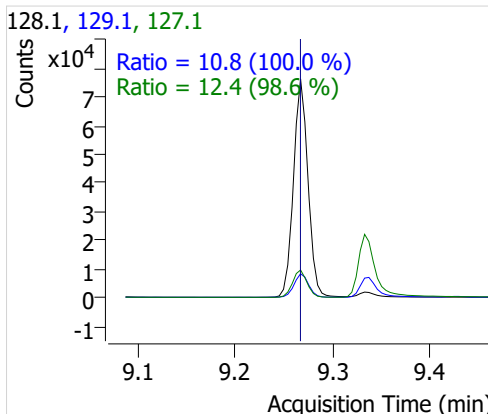
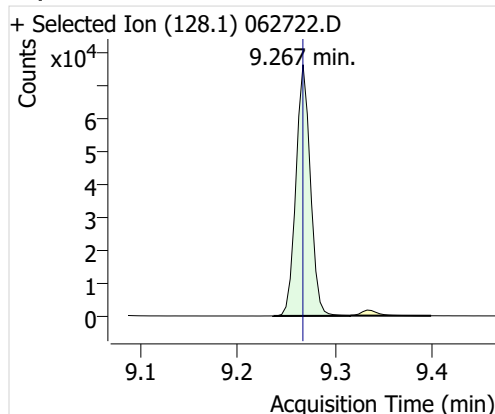


Compound	ISTD	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Units
Naphthalene	Naphthalene-d8 (IS)	9.267	79057	718177	0.1101	209.9736	µg/L
2-Methylnaphthalene	Naphthalene-d8 (IS)	10.147	32870	718177	0.0458	176.4232	µg/L
1-Methylnaphthalene	Naphthalene-d8 (IS)	10.270	32035	718177	0.0446	180.6488	µg/L
2-Fluorobiphenyl (surr)	Naphthalene-d8 (IS)	10.599	20086	718177	0.0280	85.4867	µg/L
2-Chloronaphthalene	Naphthalene-d8 (IS)	10.759	33926	718177	0.0472	168.2601	µg/L
Dimethyl phthalate	Naphthalene-d8 (IS)	11.091	33627	718177	0.0468	166.1577	µg/L
Acenaphthylene	Naphthalene-d8 (IS)	11.282	44005	718177	0.0613	162.5847	µg/L
Acenaphthene	Acenaphthene-d10 (IS)	11.503	35009	242931	0.1441	208.3919	µg/L
Dibenzofuran	Acenaphthene-d10 (IS)	11.718	49255	242931	0.2028	203.5939	µg/L
Diethylphthalate	Acenaphthene-d10 (IS)	11.972	32784	242931	0.1350	176.7393	µg/L
Fluorene	Acenaphthene-d10 (IS)	12.154	36826	242931	0.1516	195.9369	µg/L
2,4,6-Tribromophenol	Acenaphthene-d10 (IS)	12.459	2575	242931	0.0106	163.2883	µg/L
Pentachlorophenol	Acenaphthene-d10 (IS)	13.113	1564	242931	0.0064	150.1958	µg/L
Phenanthrene	Phenanthrene-d10 (IS)	13.361	58696	477881	0.1228	199.5971	µg/L
Anthracene	Phenanthrene-d10 (IS)	13.428	51110	477881	0.1070	172.1046	µg/L
Carbazole	Phenanthrene-d10 (IS)	13.630	45154	477881	0.0945	164.3840	µg/L
Di-n-butyl phthalate	Phenanthrene-d10 (IS)	14.021	47607	477881	0.0996	153.3224	µg/L
Fluoranthene	Phenanthrene-d10 (IS)	14.885	53121	477881	0.1112	167.4629	µg/L
Pyrene	Phenanthrene-d10 (IS)	15.224	59145	477881	0.1238	174.8792	µg/L
Terphenyl-d14 (surr)	Phenanthrene-d10 (IS)	15.434	16665	477881	0.0349	83.6308	µg/L
Benzyl Butyl phthalate	Phenanthrene-d10 (IS)	16.328	16095	477881	0.0337	170.8995	µg/L
bis (2-Ethylhexyl) adipate	Phenanthrene-d10 (IS)	16.481	17629	477881	0.0369	198.6912	µg/L
Benzo (a) anthracene	Phenanthrene-d10 (IS)	17.522	49274	477881	0.1031	174.1173	µg/L
bis(2-Ethylhexyl) phthalate	Chrysene-d12 (IS)	17.558	26448	372919	0.0709	155.2821	µg/L
Chrysene	Chrysene-d12 (IS)	17.594	62481	372919	0.1675	210.7051	µg/L
Di-n-octyl phthalate	Chrysene-d12 (IS)	18.715	34275	372919	0.0919	181.8611	µg/L
benzo (b) fluoranthene	Chrysene-d12 (IS)	19.347	45273	372919	0.1214	171.6779	µg/L
benzo (k) fluoranthene	Chrysene-d12 (IS)	19.387	53882	372919	0.1445	177.1669	µg/L
benzo (a) pyrene	Chrysene-d12 (IS)	19.819	38570	372919	0.1034	169.4664	µg/L
Indeno(1,2,3-cd)pyrene	Perylene-d12 (IS)	21.656	50214	431976	0.1162	166.6968	µg/L

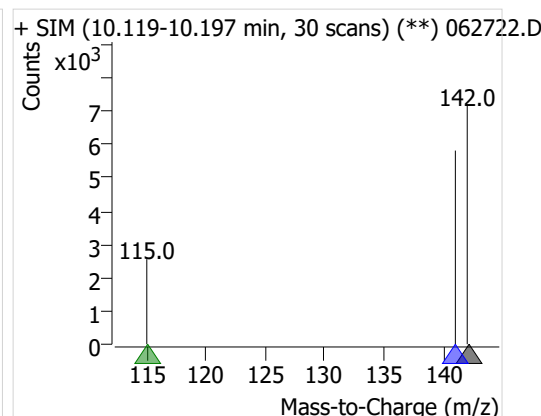
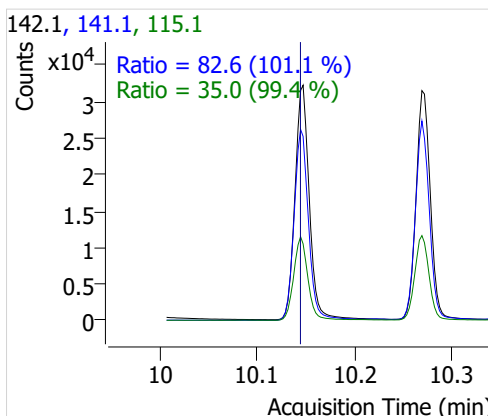
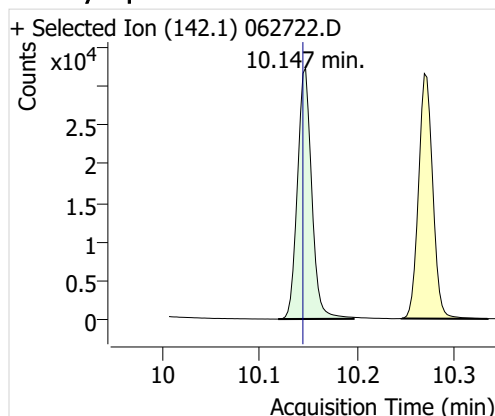
Quantitative Analysis Complete Report

Compound	ISTD	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Units
Dibenz (a,h) anthracene	Perylene-d12 (IS)	21.671	41346	431976	0.0957	162.7215	µg/L
Benzo (g,h,i) perylene	Perylene-d12 (IS)	22.158	43723	431976	0.1012	169.9936	µg/L

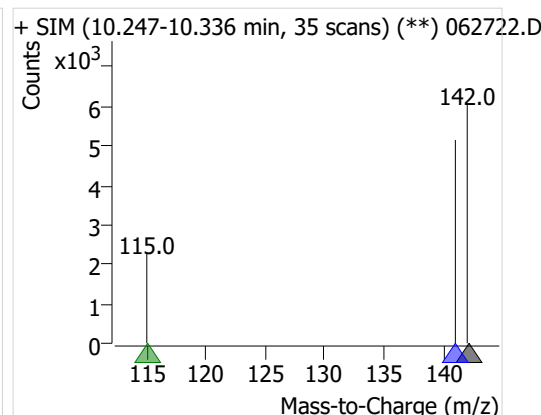
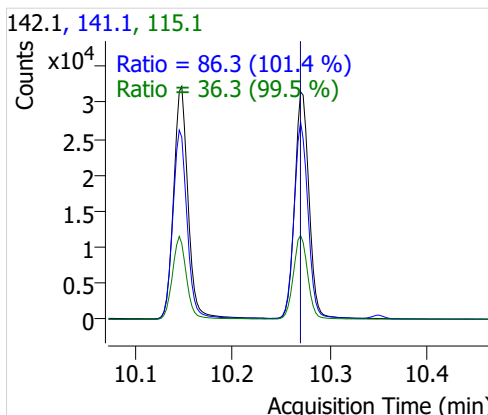
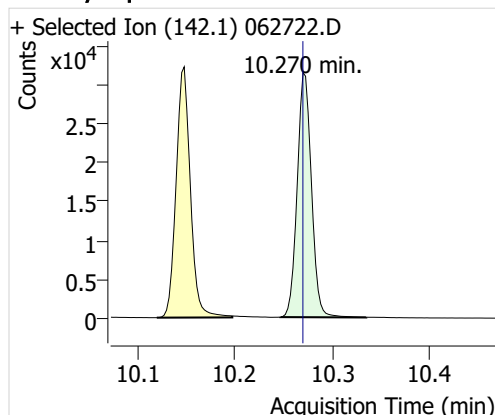
Naphthalene



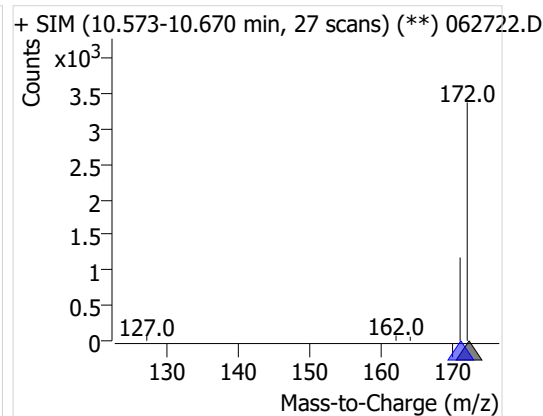
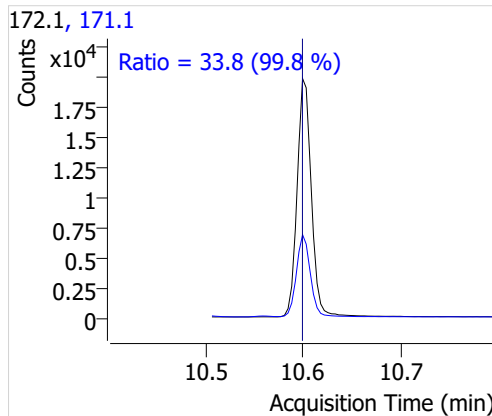
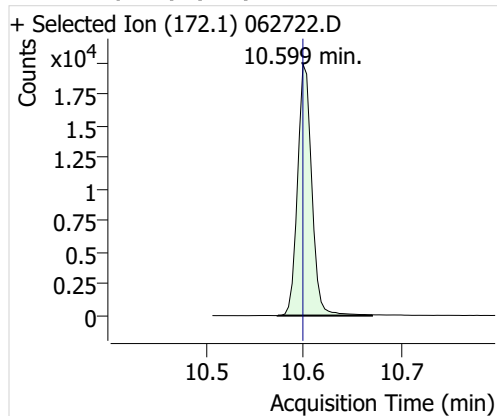
2-Methylnaphthalene



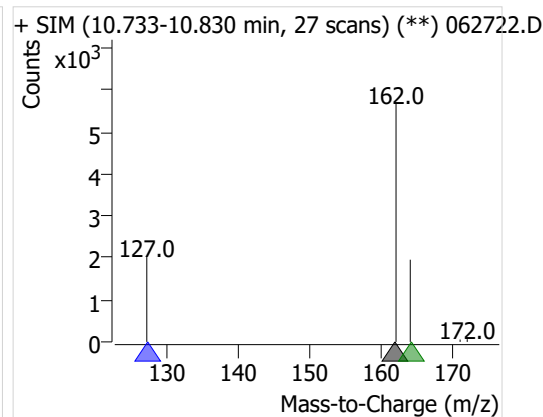
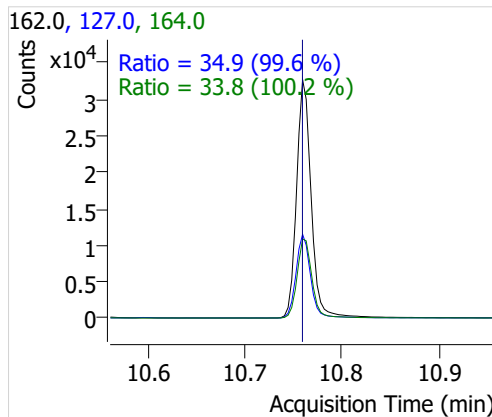
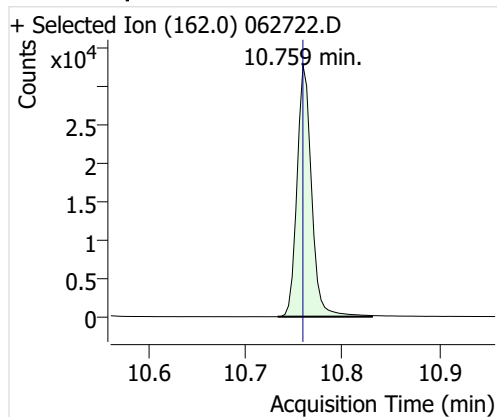
1-Methylnaphthalene



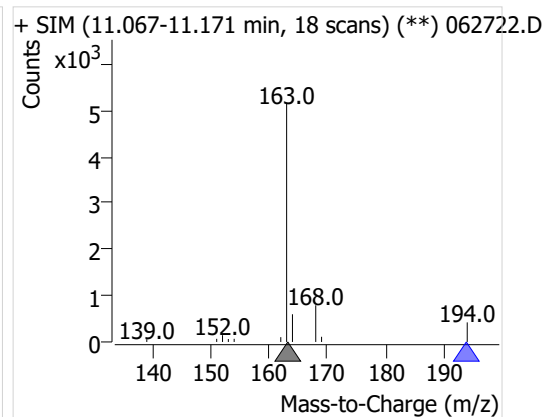
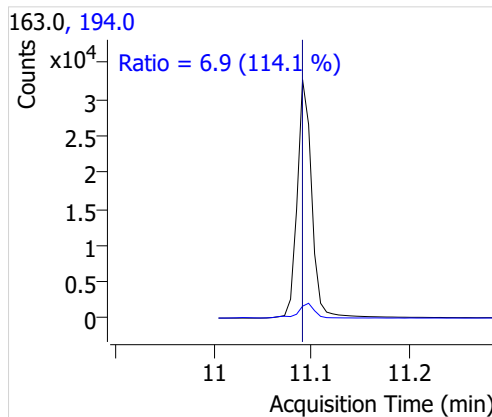
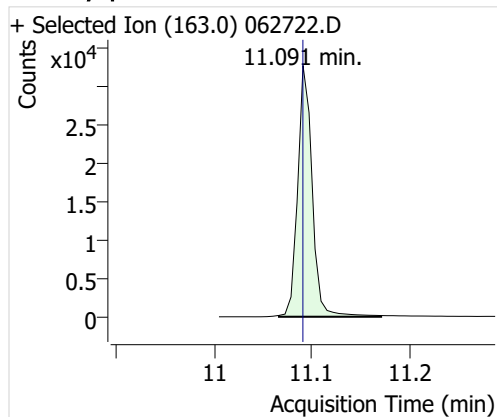
2-Fluorobiphenyl (surr)



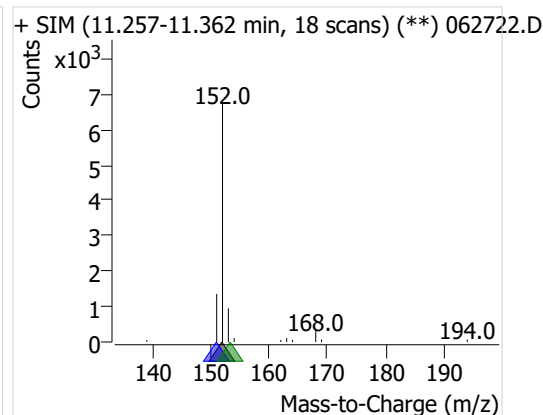
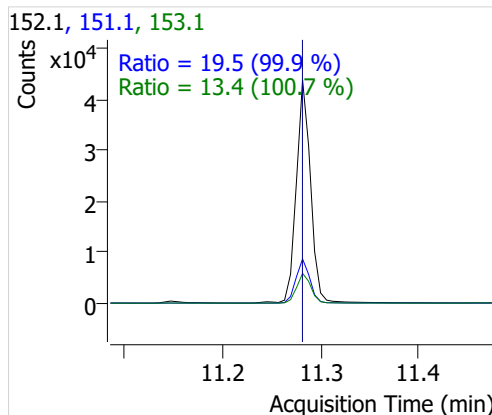
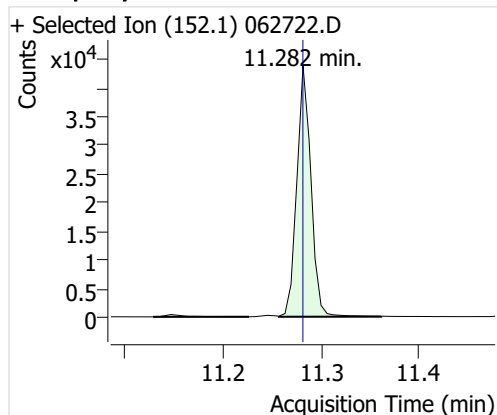
2-Chloronaphthalene



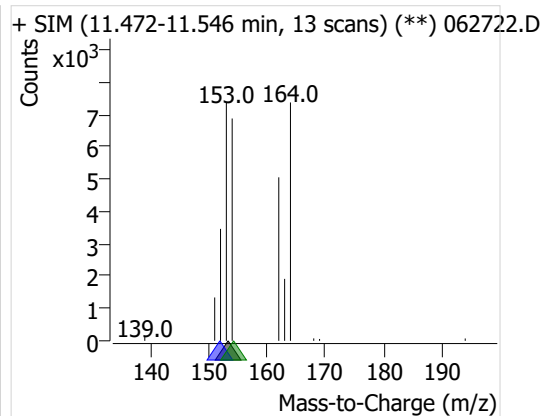
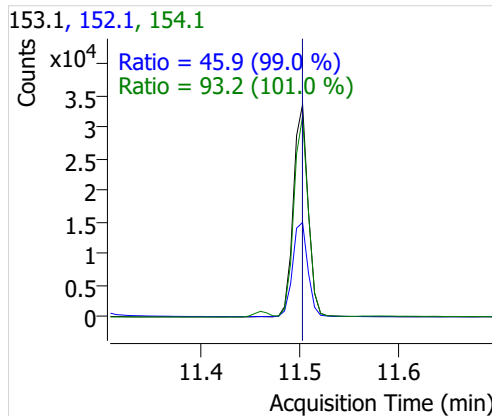
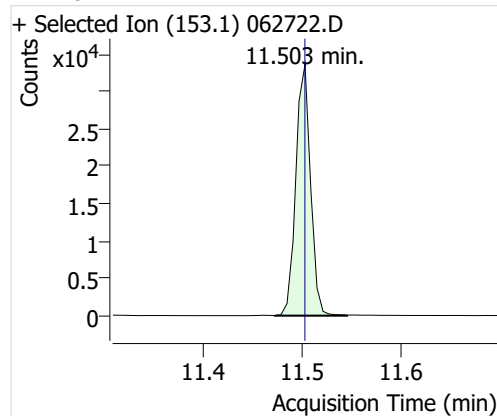
Dimethyl phthalate



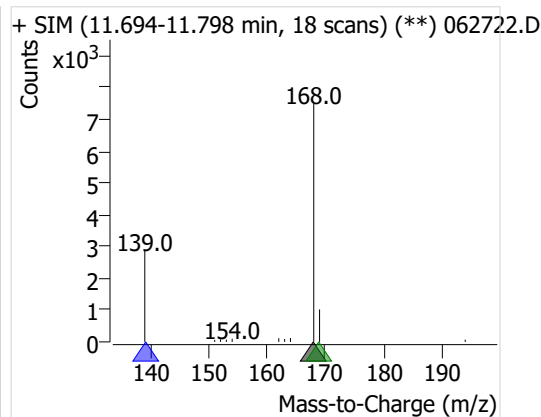
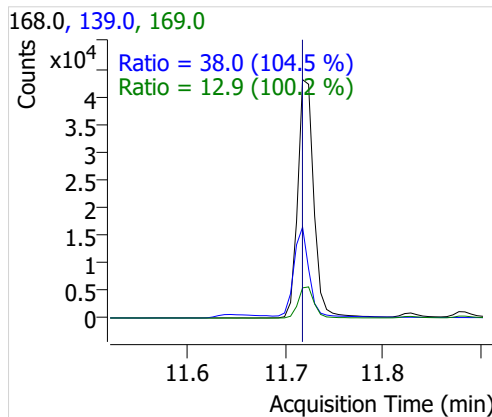
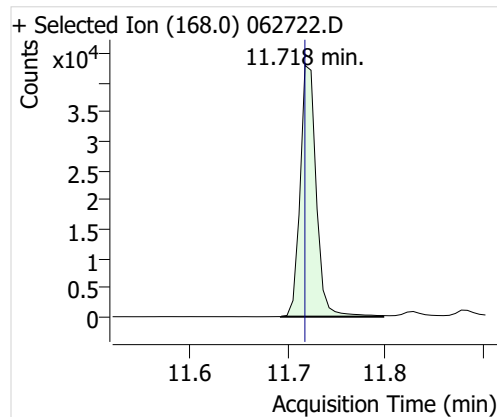
Acenaphthylene



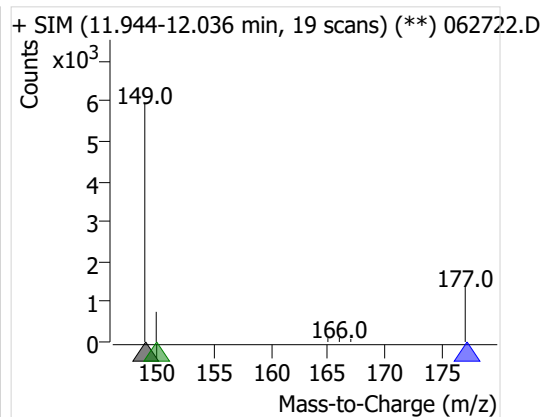
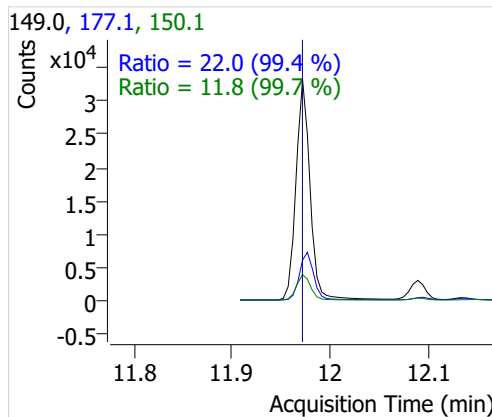
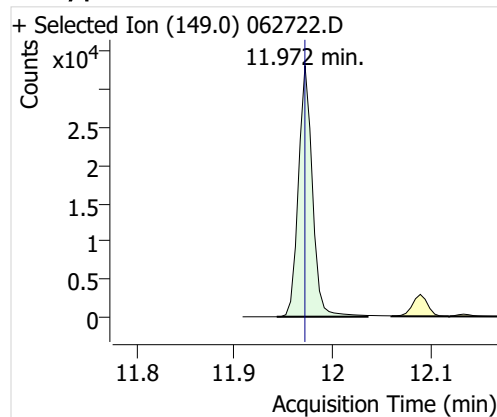
Acenaphthene



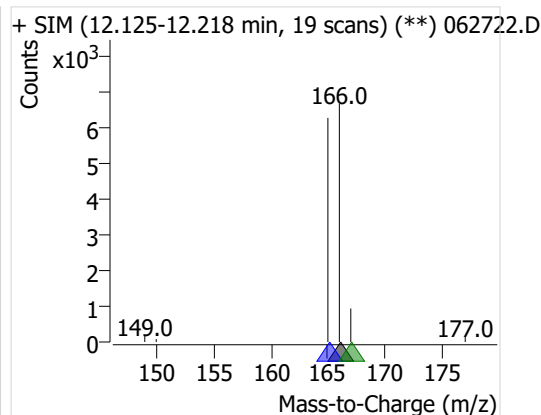
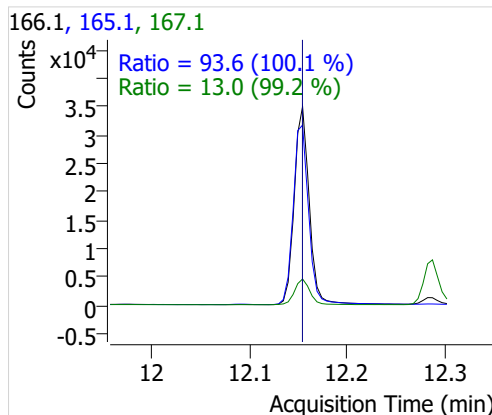
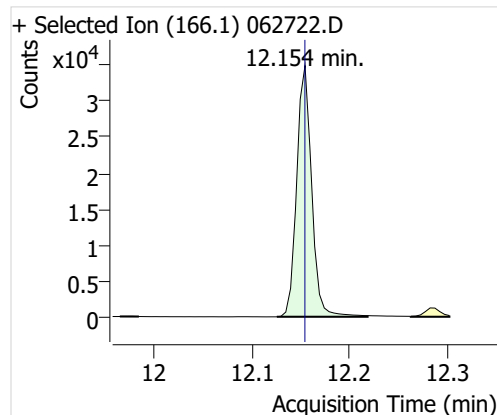
Dibenzofuran



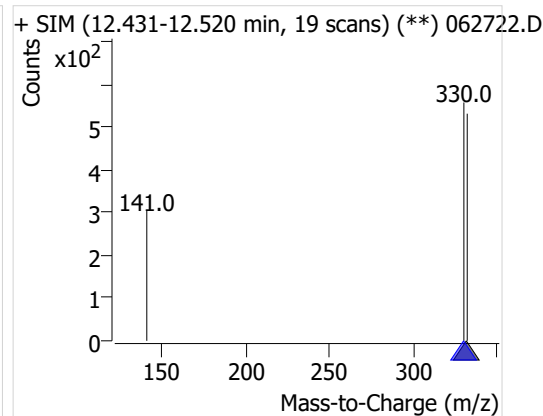
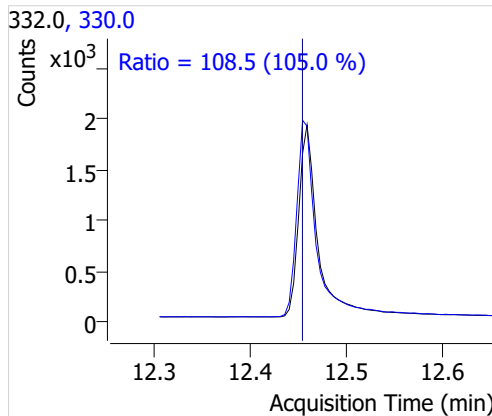
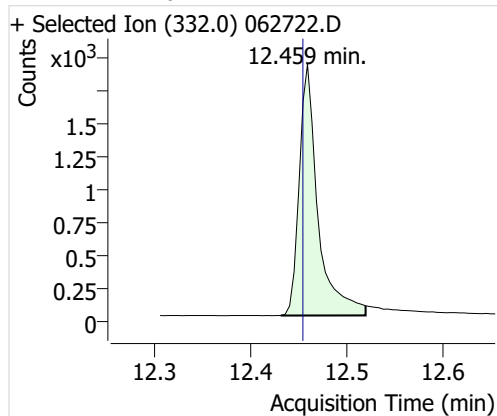
Diethylphthalate



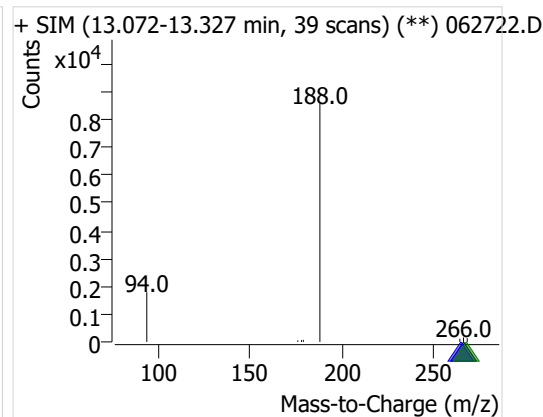
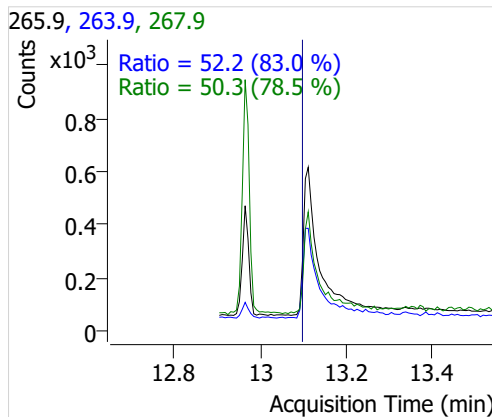
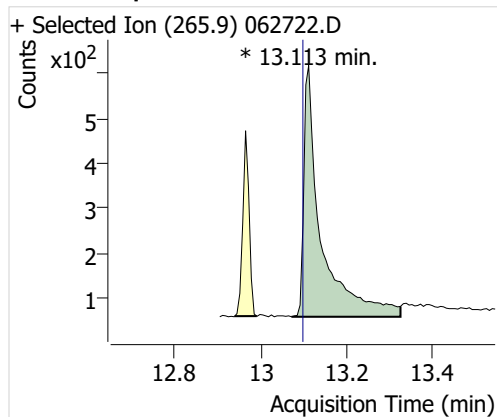
Fluorene



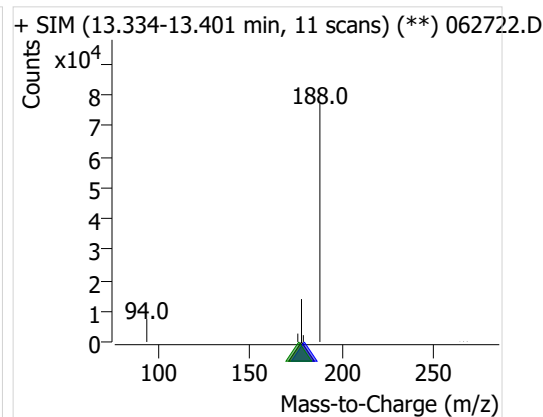
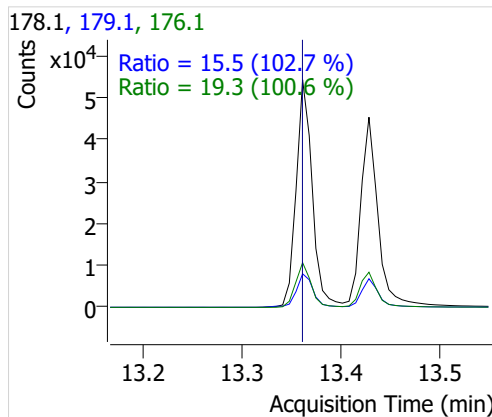
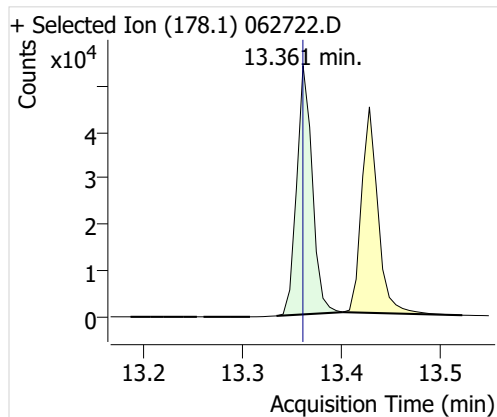
2,4,6-Tribromophenol



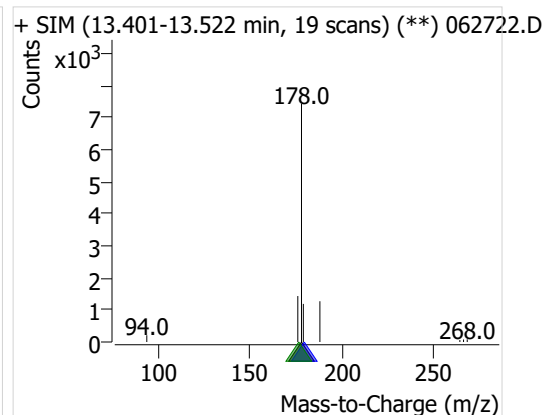
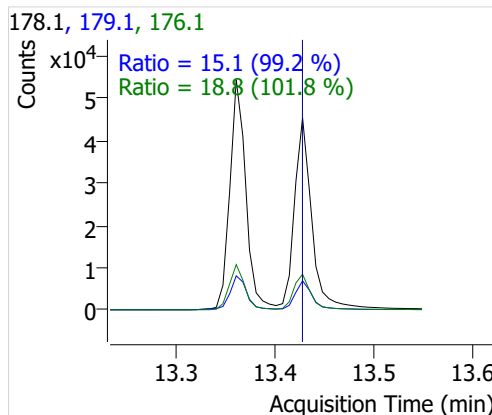
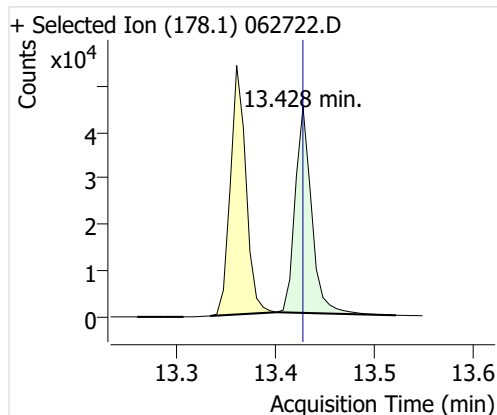
Pentachlorophenol



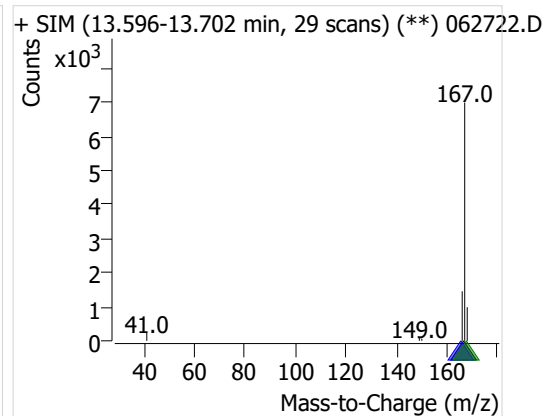
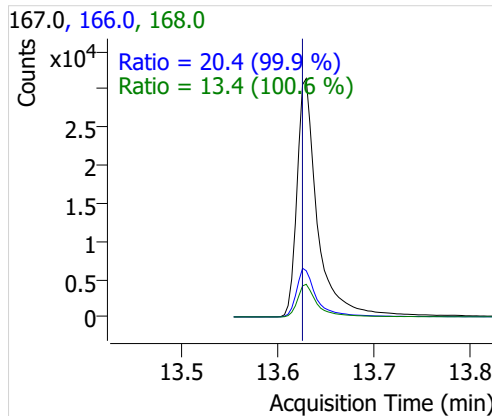
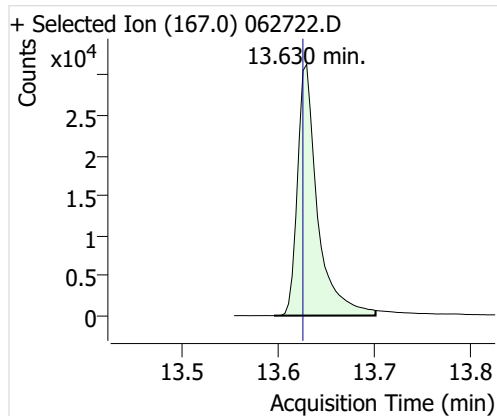
Phenanthrene



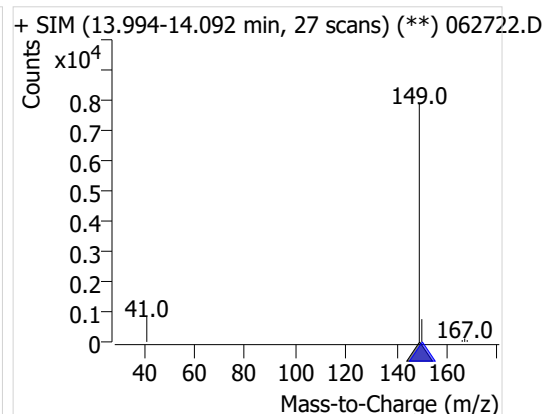
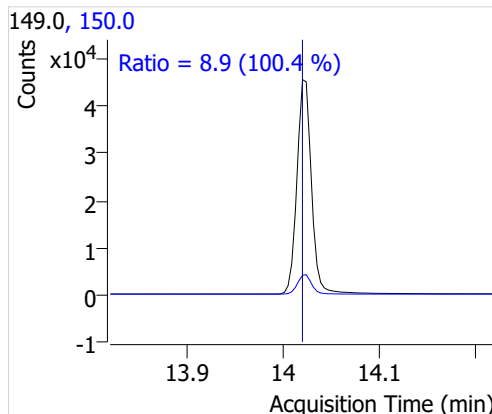
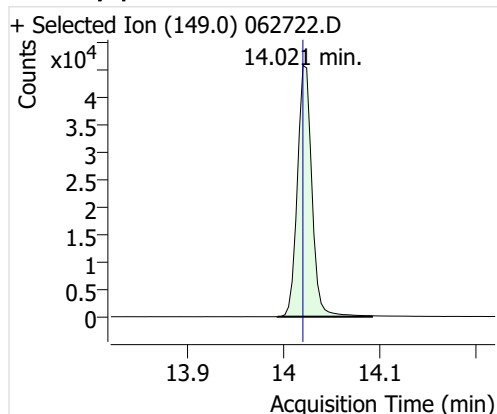
Anthracene



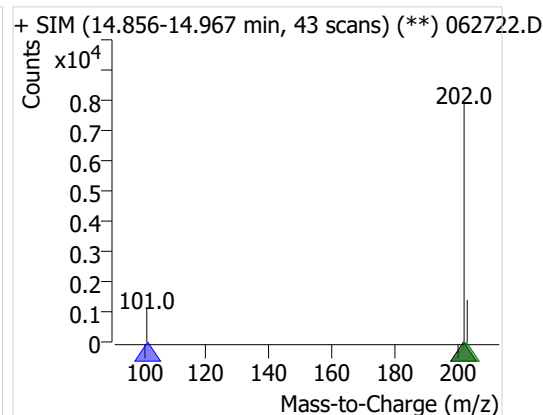
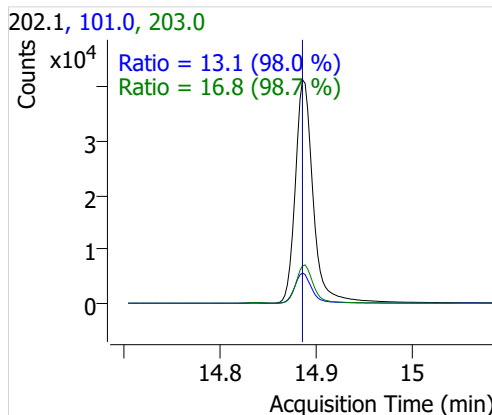
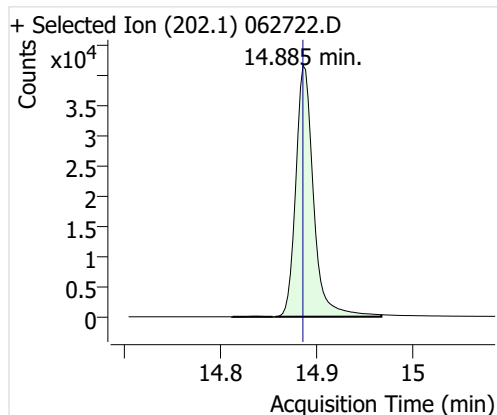
Carbazole



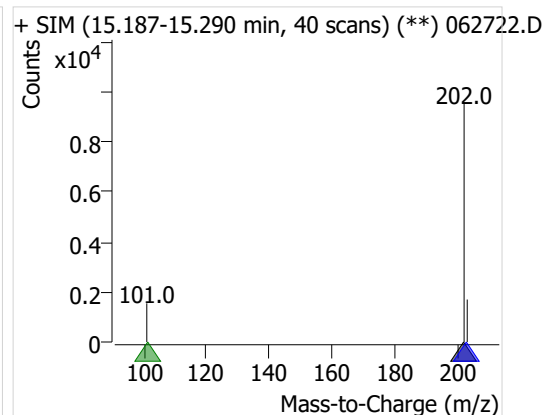
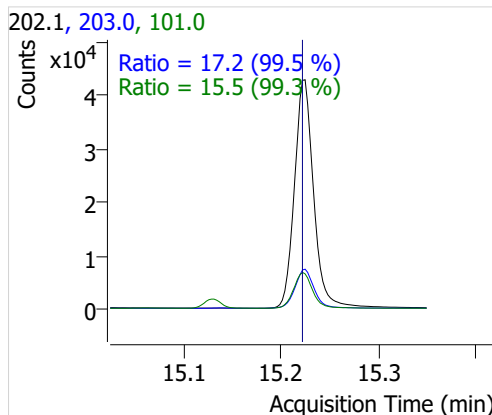
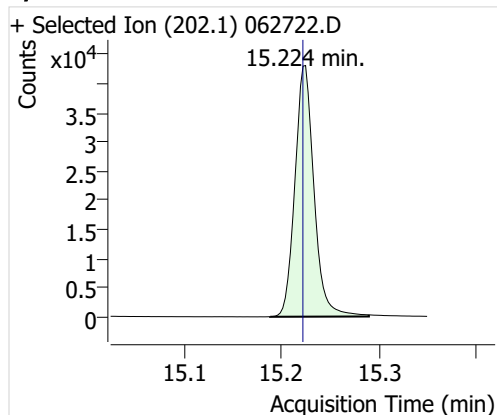
Di-n-butyl phthalate



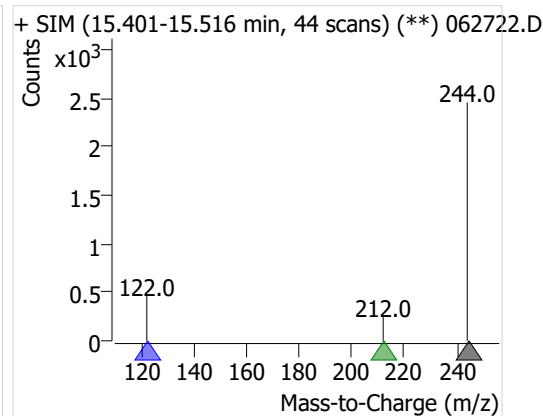
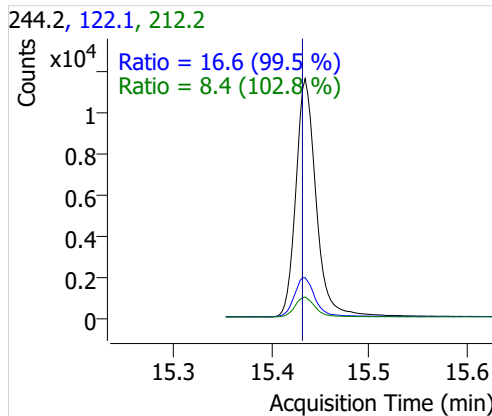
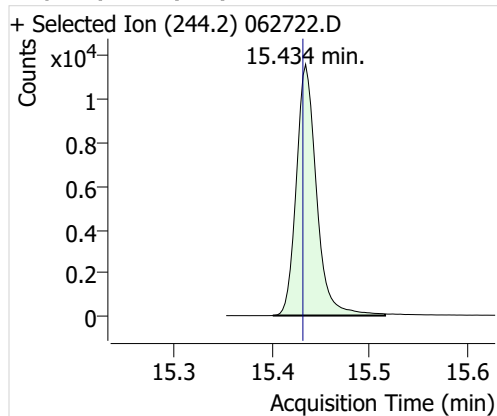
Fluoranthene



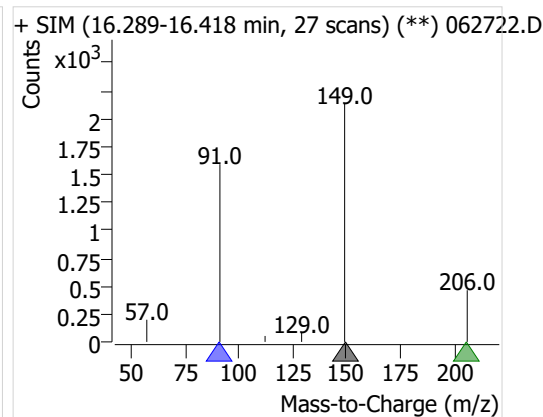
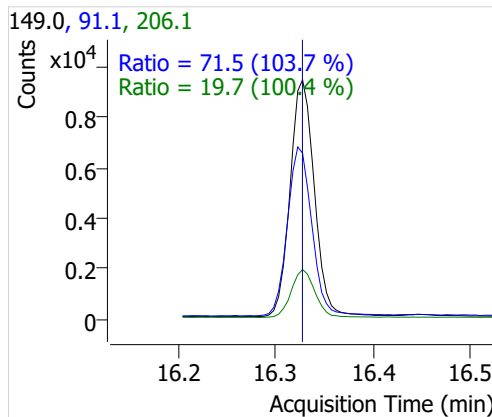
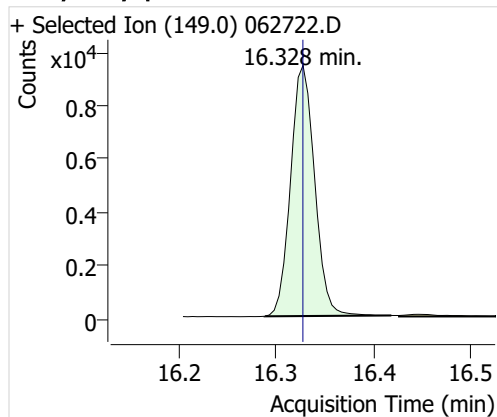
Pyrene



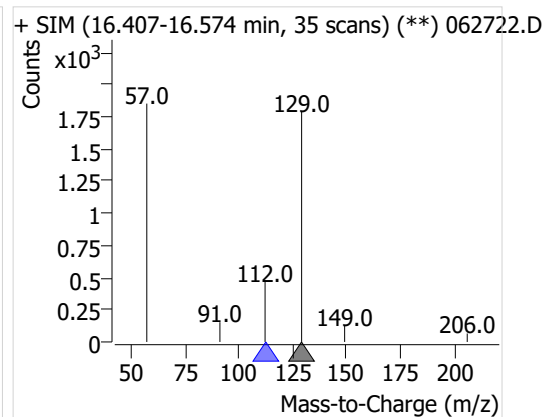
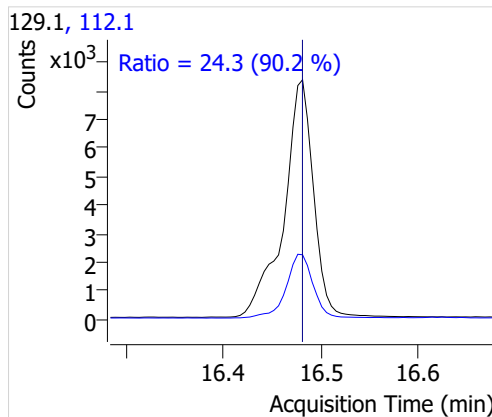
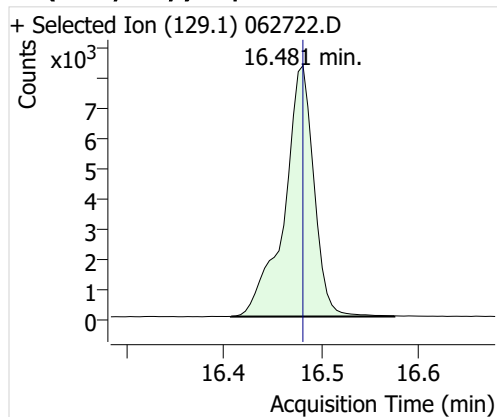
Terphenyl-d14 (surr)



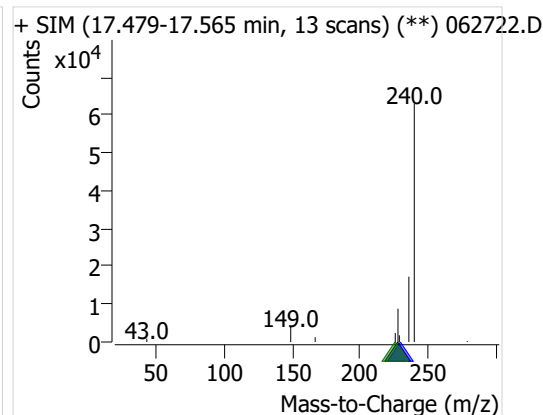
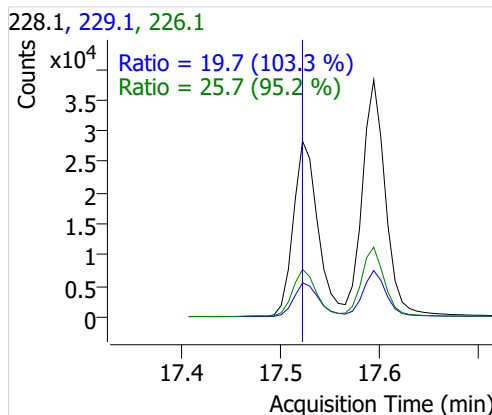
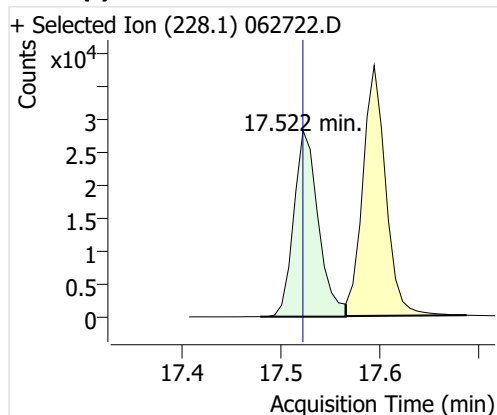
Benzyl Butyl phthalate



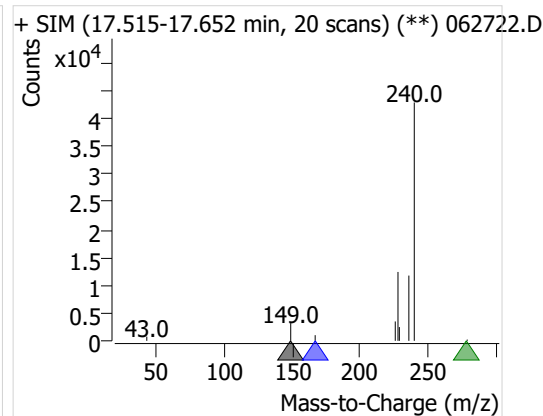
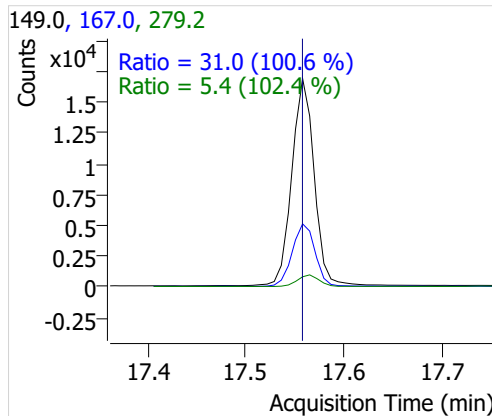
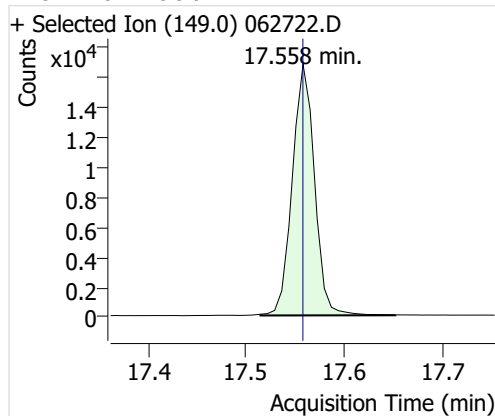
bis (2-Ethylhexyl) adipate



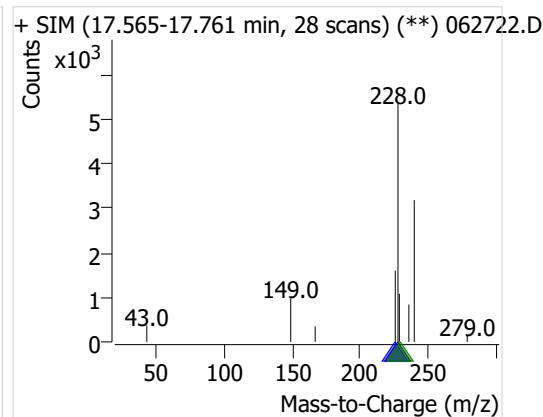
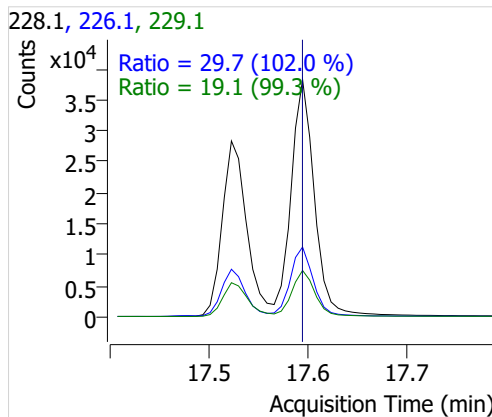
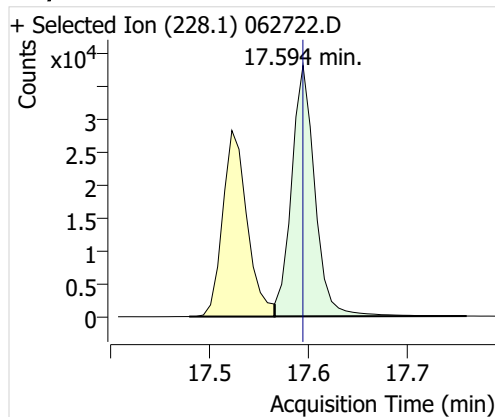
Benzo (a) anthracene



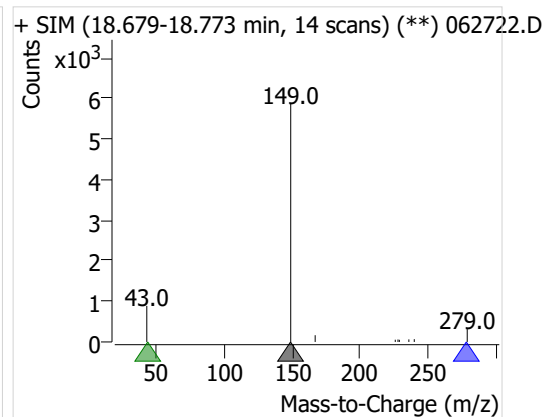
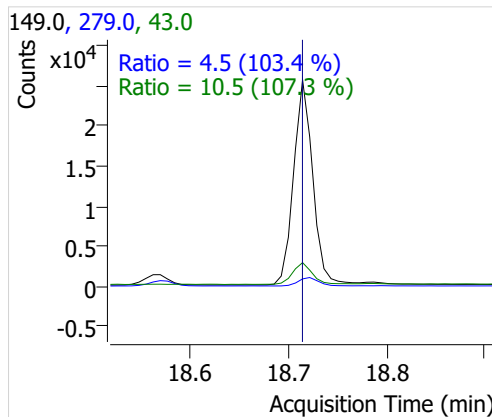
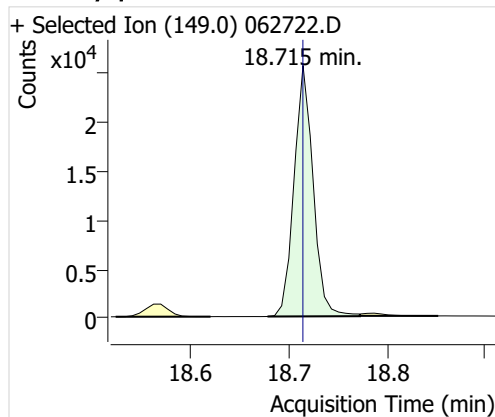
bis(2-Ethylhexyl) phthalate



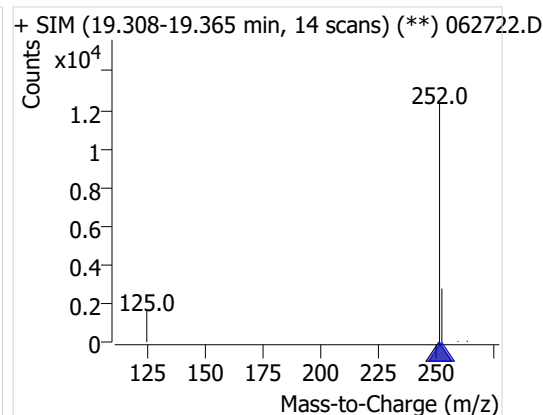
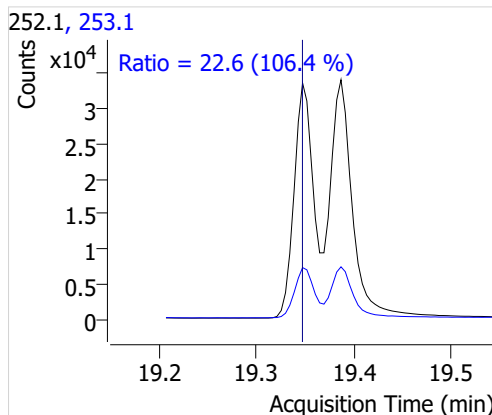
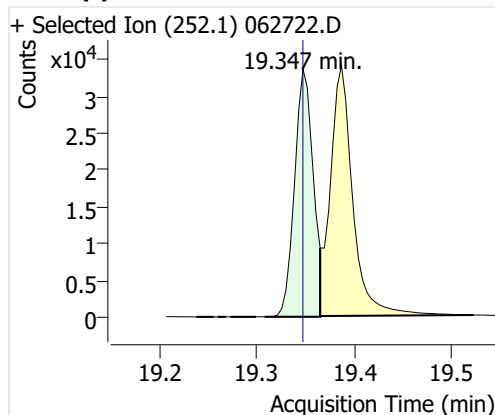
Chrysene



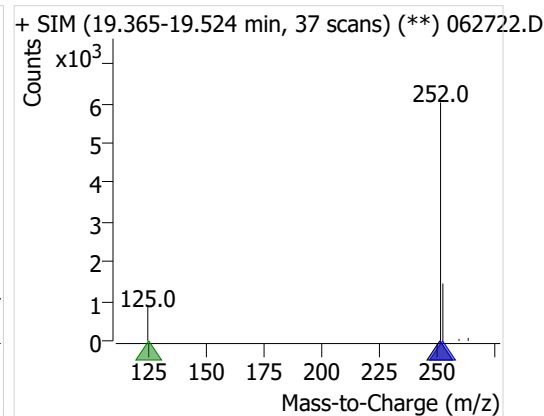
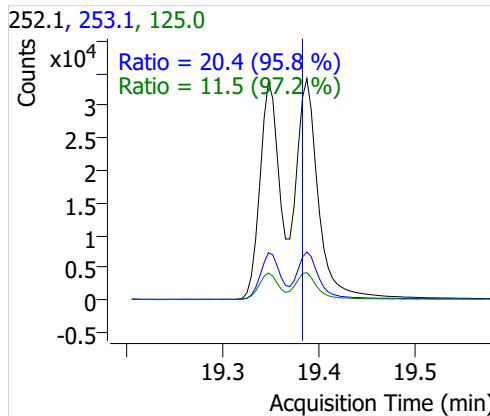
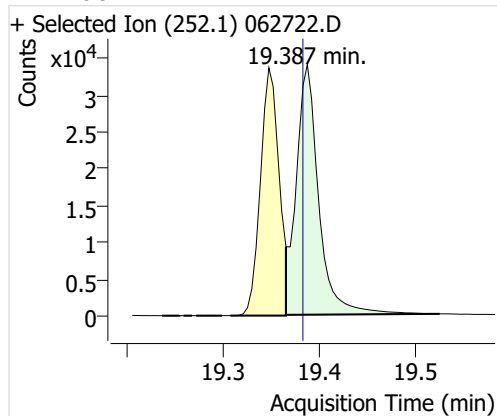
Di-n-octyl phthalate



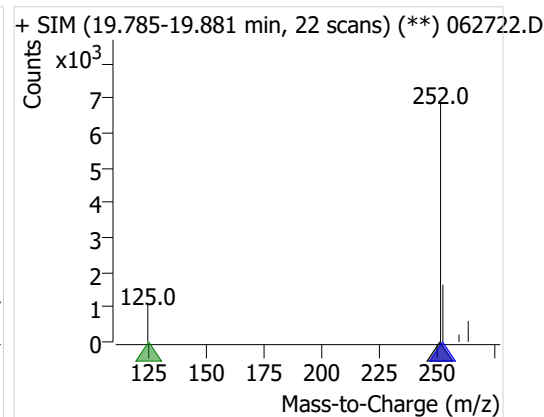
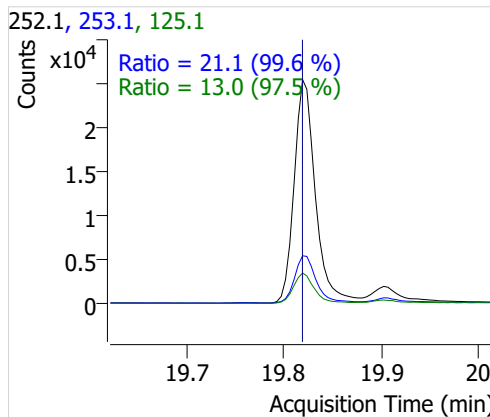
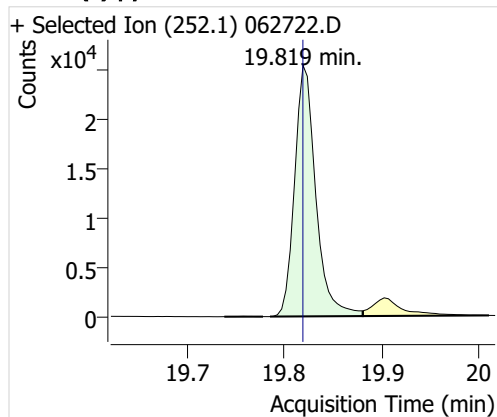
benzo (b) fluoranthene



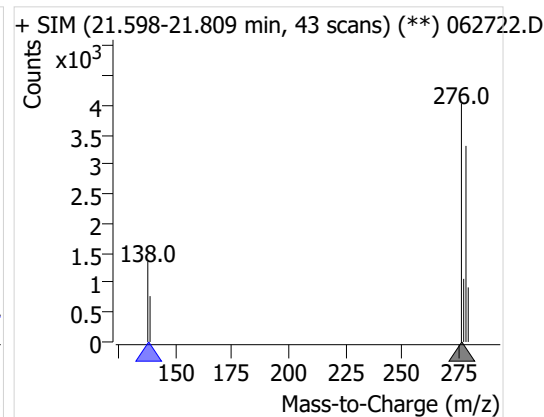
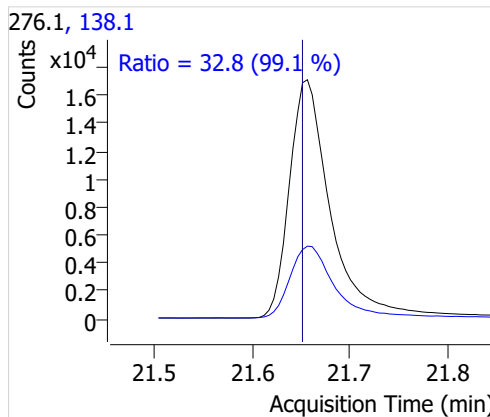
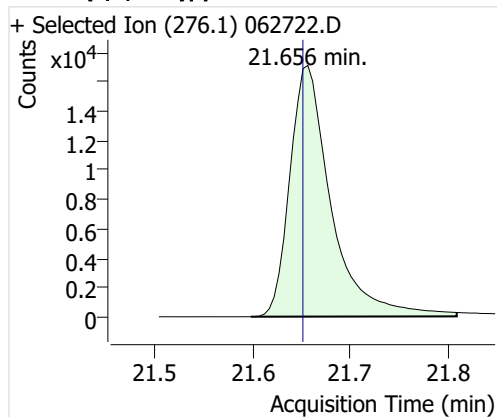
benzo (k) fluoranthene



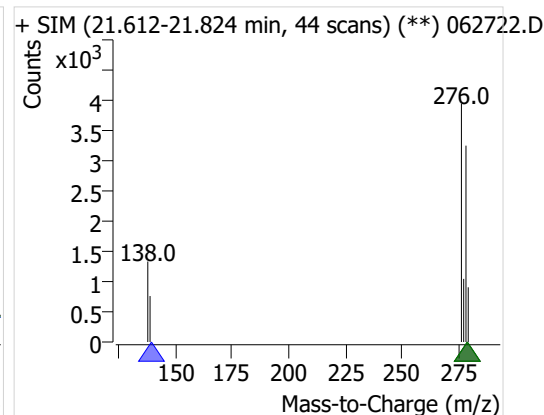
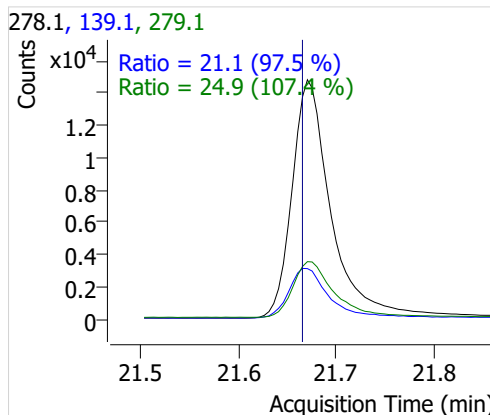
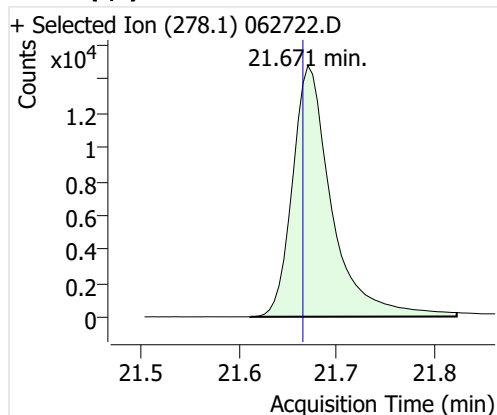
benzo (a) pyrene



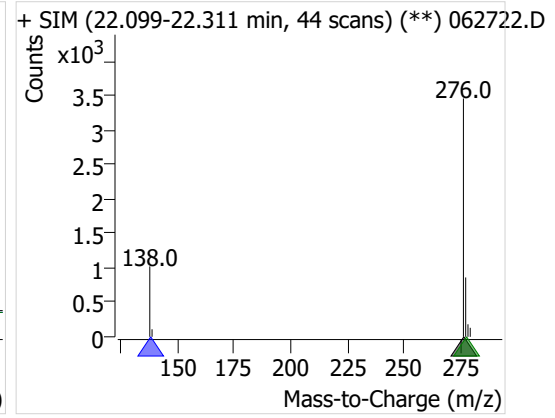
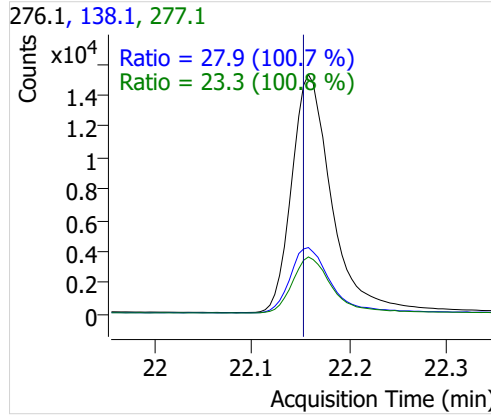
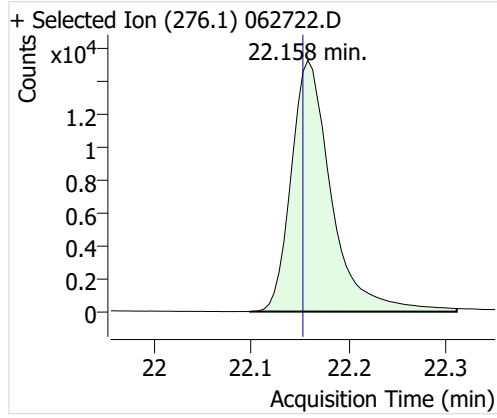
Indeno(1,2,3-cd)pyrene



Dibenz (a,h) anthracene



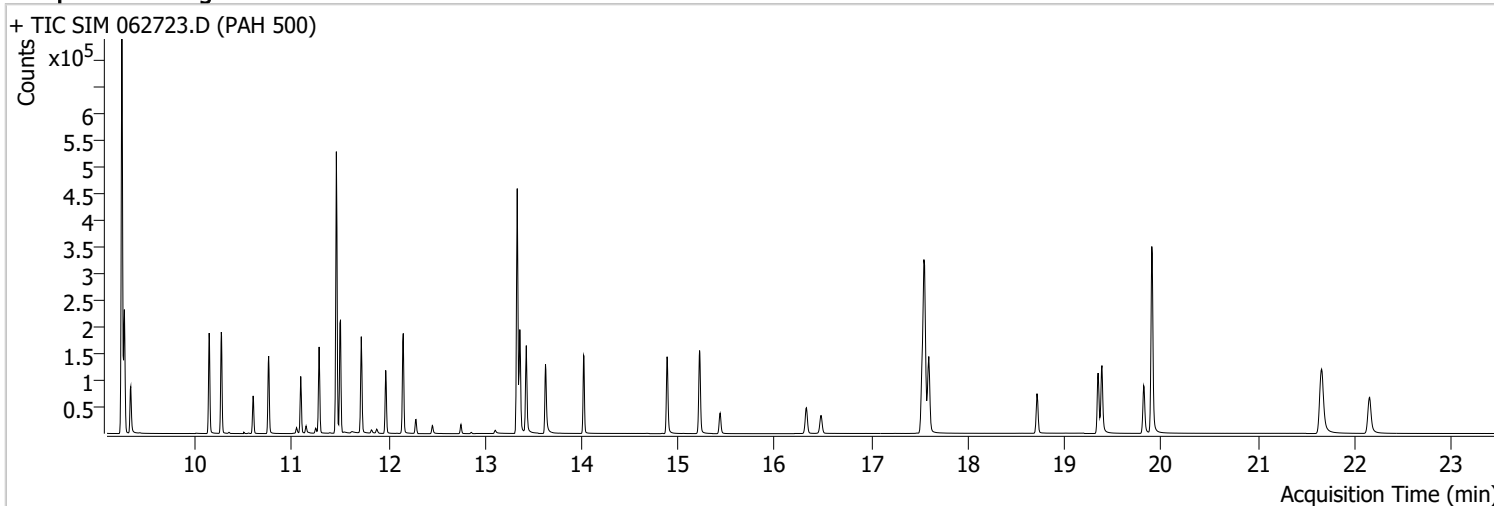
Benzo (g,h,i) perylene



Quantitative Analysis Complete Report

Batch Path	C:\GC-14\Data\2023\062723\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	6/29/2023 12:01 PM	Reporter Name	FA\GC14
Report Time	6/29/2023 12:02:08 PM	Batch State	Processed
Last Calib Update	6/29/2023 12:00 PM	Quant Report Version	10.0
Quant Batch Version	10.0		
Acq. Time	6/27/2023 8:04 PM	Data File	062723.D
Sample Type	Cal	Sample Name	PAH 500
Dilution	1	Acq. Method	8270E_SIM_625

Sample Chromatogram

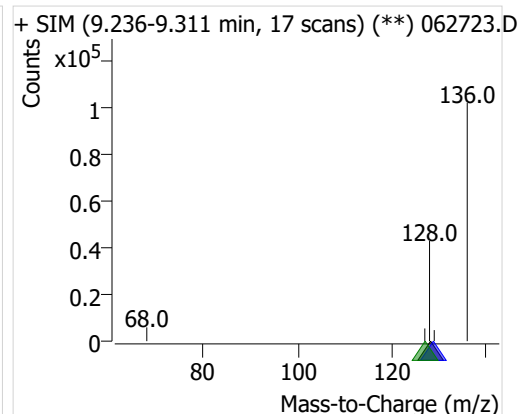
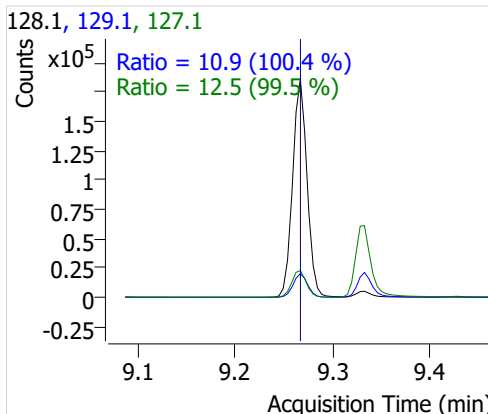
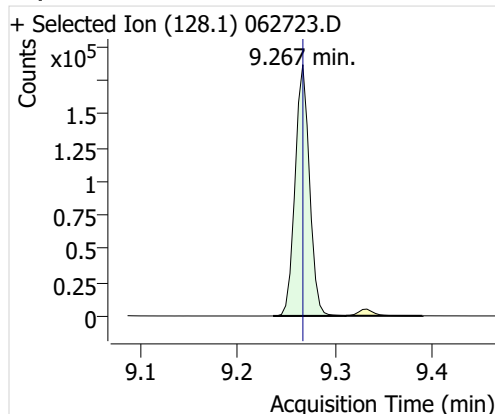


Compound	ISTD	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Units
Naphthalene	Naphthalene-d8 (IS)	9.267	191632	683869	0.2802	534.5027	µg/L
2-Methylnaphthalene	Naphthalene-d8 (IS)	10.144	85339	683869	0.1248	481.0191	µg/L
1-Methylnaphthalene	Naphthalene-d8 (IS)	10.270	85947	683869	0.1257	508.9829	µg/L
2-Fluorobiphenyl (surr)	Naphthalene-d8 (IS)	10.600	51553	683869	0.0754	230.4218	µg/L
2-Chloronaphthalene	Naphthalene-d8 (IS)	10.760	88388	683869	0.1292	460.3690	µg/L
Dimethyl phthalate	Naphthalene-d8 (IS)	11.092	87817	683869	0.1284	452.7246	µg/L
Acenaphthylene	Naphthalene-d8 (IS)	11.283	117930	683869	0.1724	455.4791	µg/L
Acenaphthene	Acenaphthene-d10 (IS)	11.504	88806	243610	0.3645	527.1394	µg/L
Dibenzofuran	Acenaphthene-d10 (IS)	11.719	126131	243610	0.5178	519.8997	µg/L
Diethylphthalate	Acenaphthene-d10 (IS)	11.972	87707	243610	0.3600	470.3004	µg/L
Fluorene	Acenaphthene-d10 (IS)	12.154	95960	243610	0.3939	509.1336	µg/L
2,4,6-Tribromophenol	Acenaphthene-d10 (IS)	12.459	7261	243610	0.0298	451.7663	µg/L
Pentachlorophenol	Acenaphthene-d10 (IS)	13.105	4411	243610	0.0181	397.8026	µg/L
Phenanthrene	Phenanthrene-d10 (IS)	13.360	144556	443700	0.3258	529.4336	µg/L
Anthracene	Phenanthrene-d10 (IS)	13.427	132671	443700	0.2990	481.1631	µg/L
Carbazole	Phenanthrene-d10 (IS)	13.626	119470	443700	0.2693	468.4353	µg/L
Di-n-butyl phthalate	Phenanthrene-d10 (IS)	14.020	125956	443700	0.2839	433.2870	µg/L
Fluoranthene	Phenanthrene-d10 (IS)	14.885	135308	443700	0.3050	459.4146	µg/L
Pyrene	Phenanthrene-d10 (IS)	15.221	152290	443700	0.3432	484.9763	µg/L
Terphenyl-d14 (surr)	Phenanthrene-d10 (IS)	15.434	43028	443700	0.0970	232.5594	µg/L
Benzyl Butyl phthalate	Phenanthrene-d10 (IS)	16.328	42041	443700	0.0948	455.2348	µg/L
bis (2-Ethylhexyl) adipate	Phenanthrene-d10 (IS)	16.480	33336	443700	0.0751	397.4697	µg/L
Benzo (a) anthracene	Phenanthrene-d10 (IS)	17.522	120002	443700	0.2705	453.9491	µg/L
bis(2-Ethylhexyl) phthalate	Chrysene-d12 (IS)	17.558	71139	354084	0.2009	433.3154	µg/L
Chrysene	Chrysene-d12 (IS)	17.594	155994	354084	0.4406	554.0417	µg/L
Di-n-octyl phthalate	Chrysene-d12 (IS)	18.714	89364	354084	0.2524	470.3966	µg/L
benzo (b) fluoranthene	Chrysene-d12 (IS)	19.347	115808	354084	0.3271	459.9821	µg/L
benzo (k) fluoranthene	Chrysene-d12 (IS)	19.387	142402	354084	0.4022	493.1310	µg/L
benzo (a) pyrene	Chrysene-d12 (IS)	19.819	100693	354084	0.2844	461.9428	µg/L
Indeno(1,2,3-cd)pyrene	Perylene-d12 (IS)	21.651	132903	407997	0.3257	464.5573	µg/L

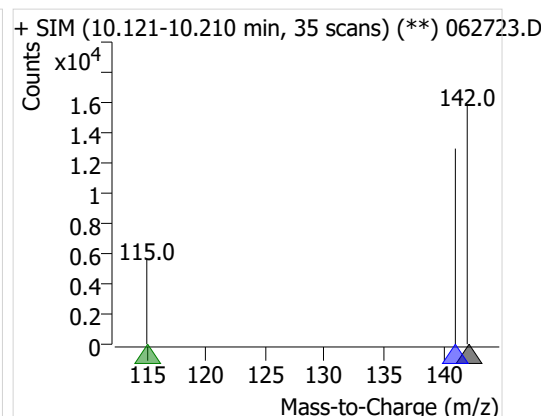
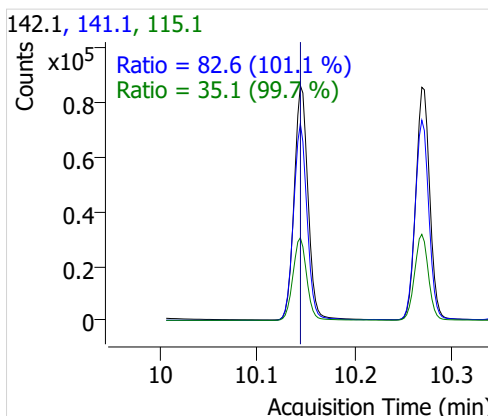
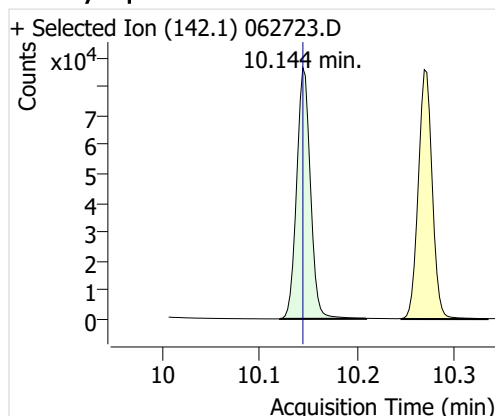
Quantitative Analysis Complete Report

Compound	ISTD	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Units
Dibenz (a,h) anthracene	Perylene-d12 (IS)	21.666	110333	407997	0.2704	458.2460	µg/L
Benzo (g,h,i) perylene	Perylene-d12 (IS)	22.158	112820	407997	0.2765	462.3247	µg/L

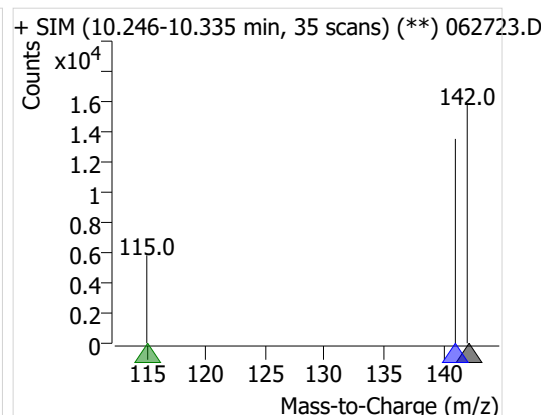
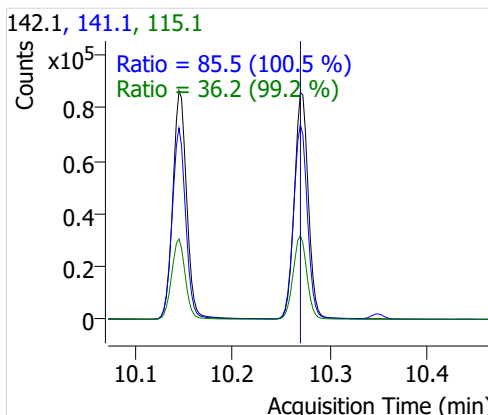
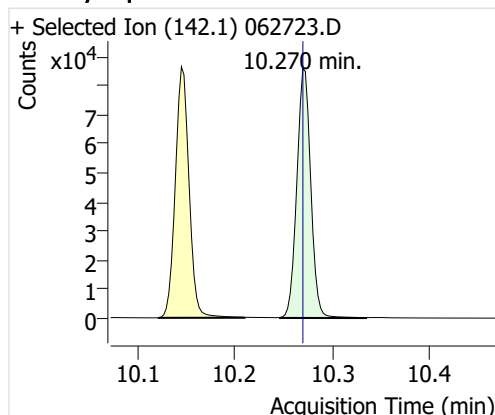
Naphthalene



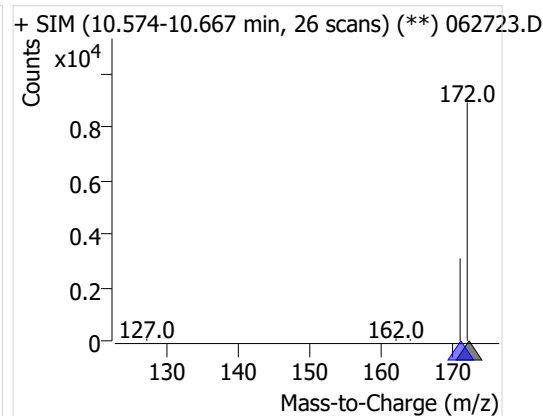
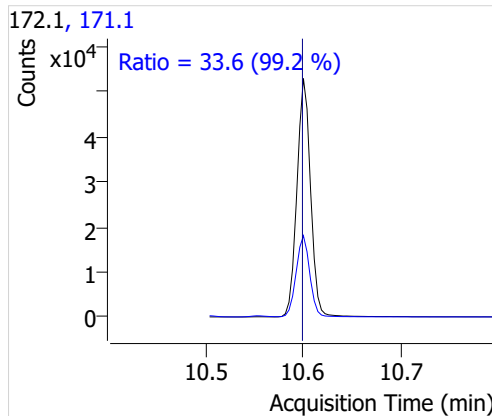
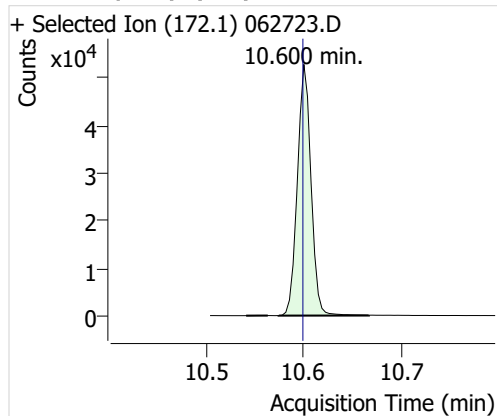
2-Methylnaphthalene



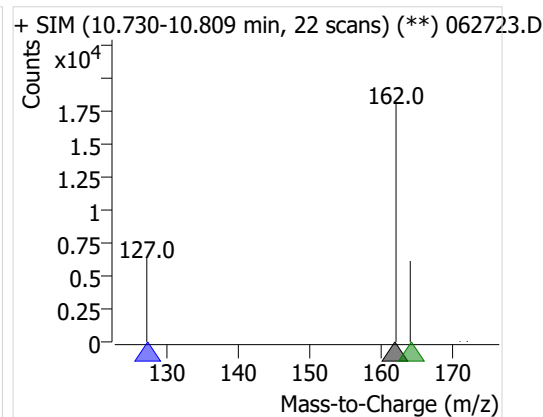
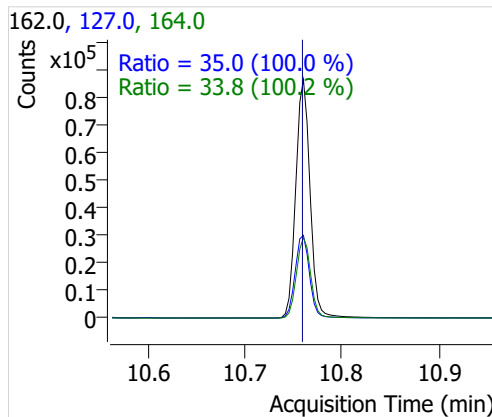
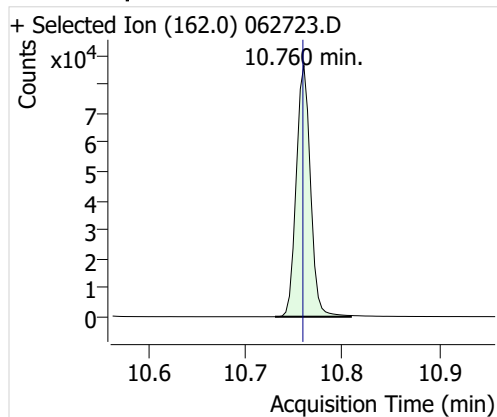
1-Methylnaphthalene



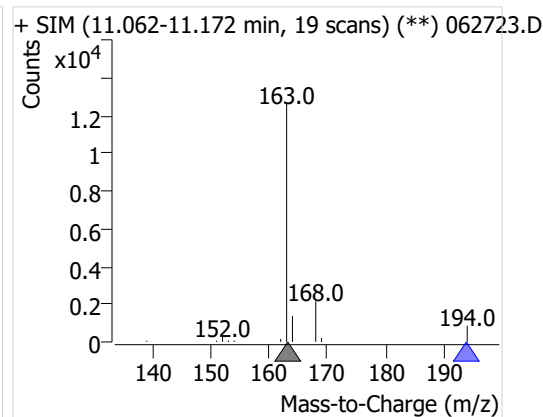
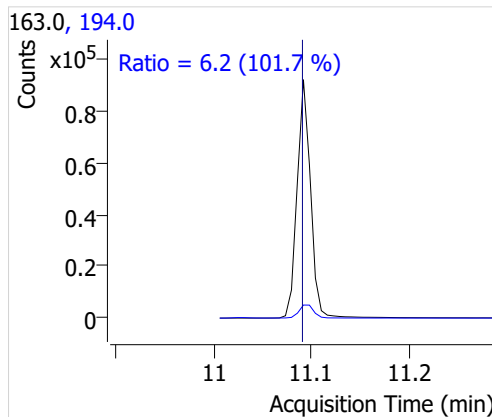
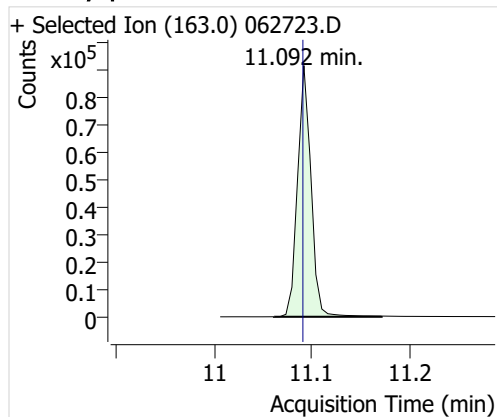
2-Fluorobiphenyl (surr)



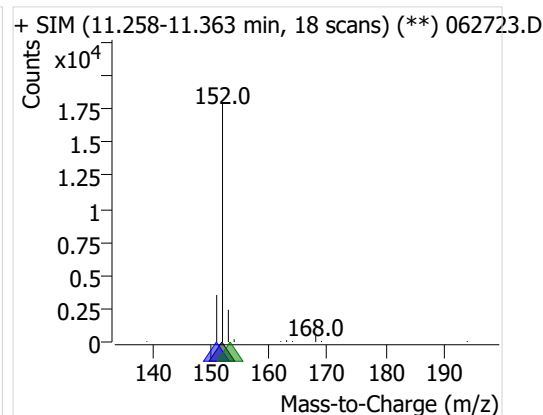
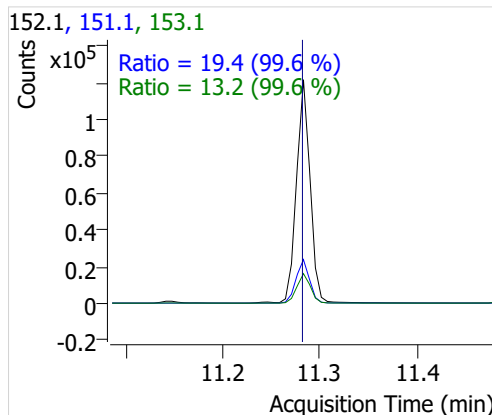
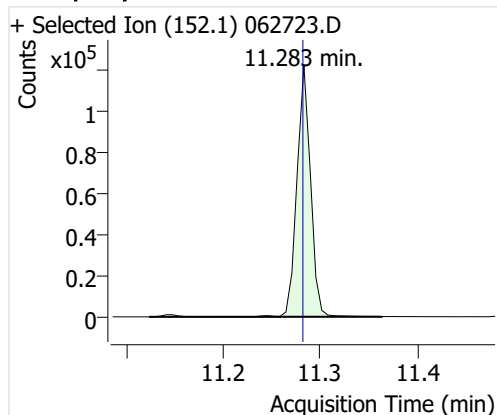
2-Chloronaphthalene



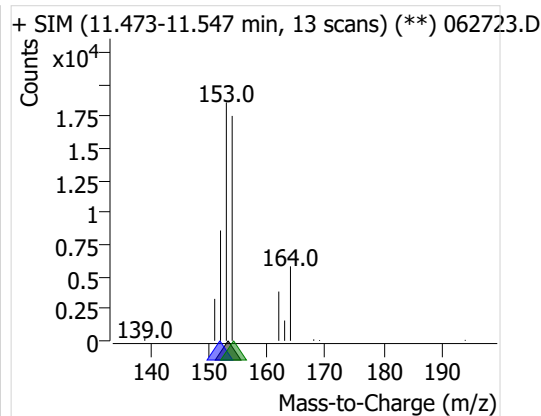
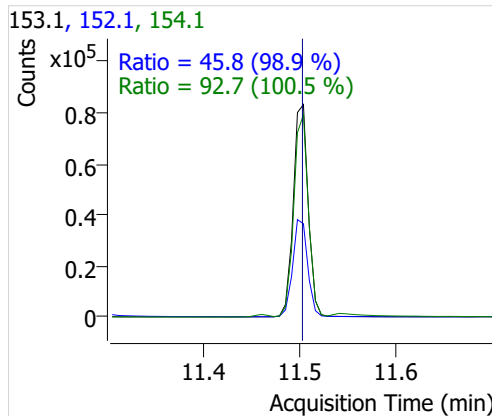
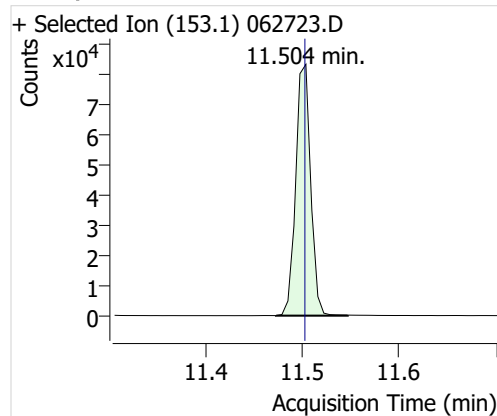
Dimethyl phthalate



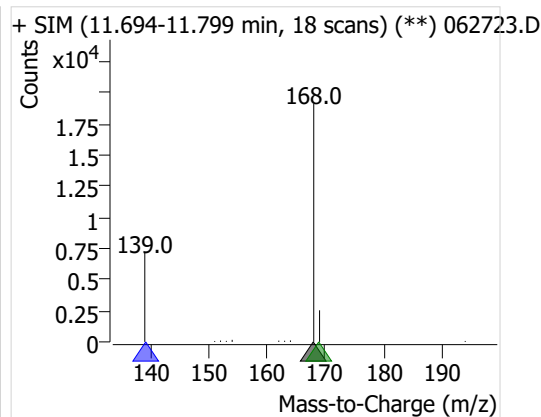
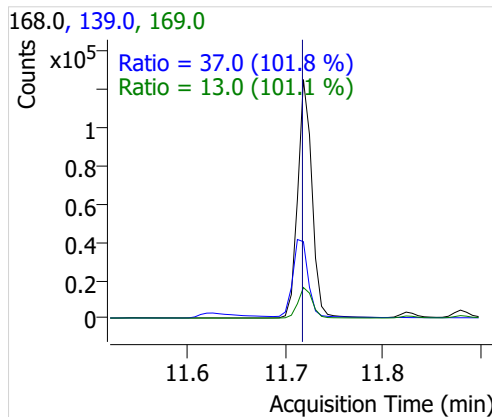
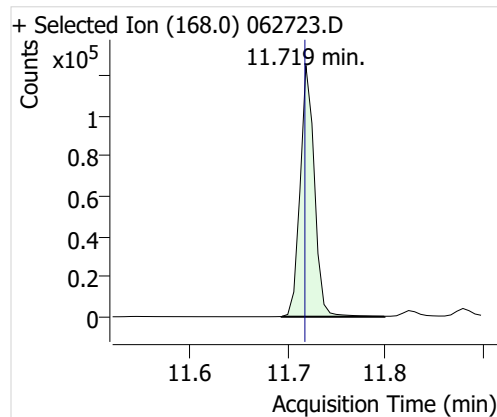
Acenaphthylene



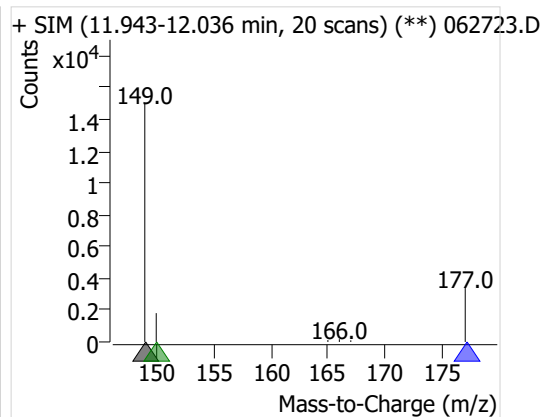
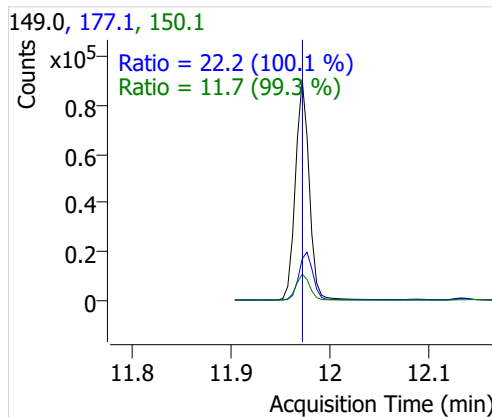
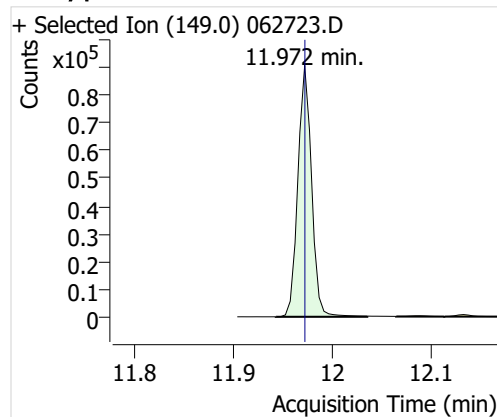
Acenaphthene



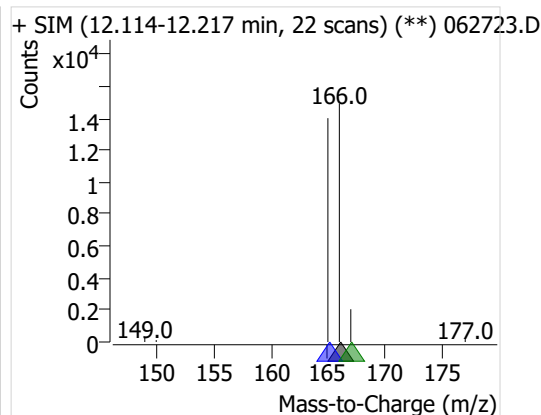
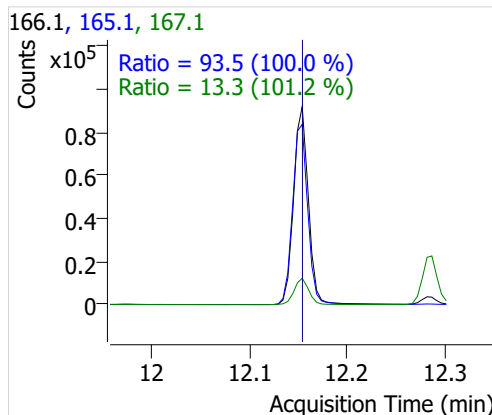
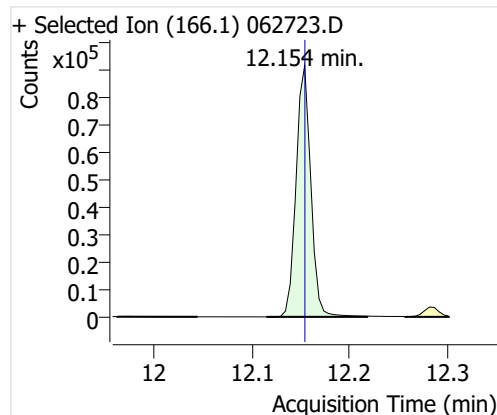
Dibenzofuran



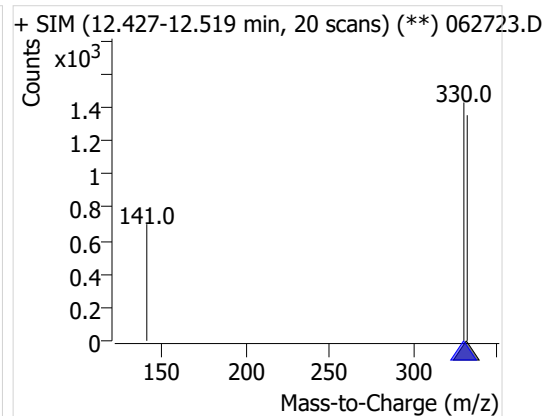
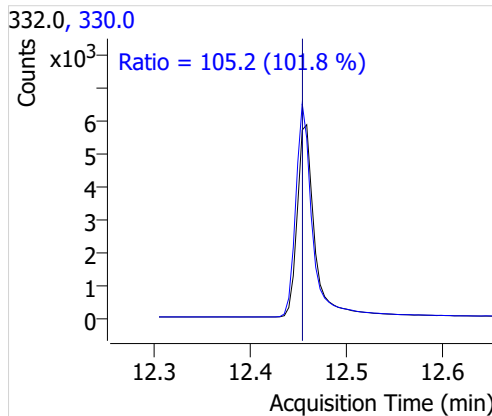
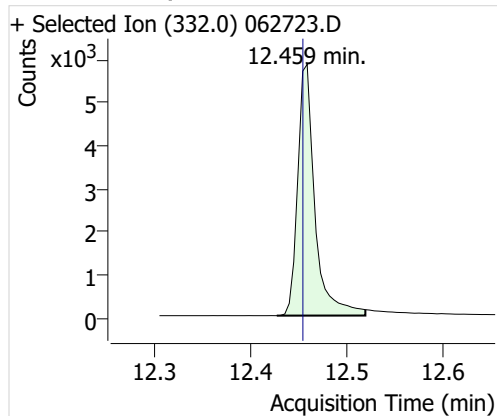
Diethylphthalate



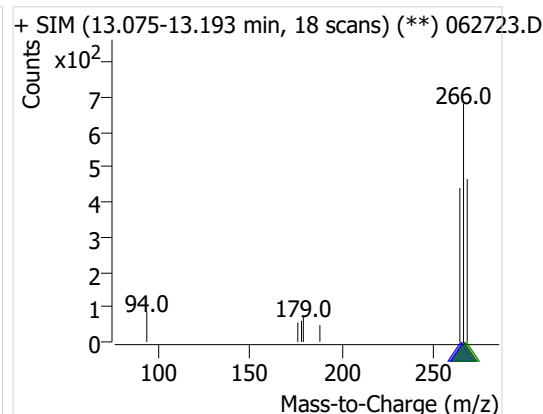
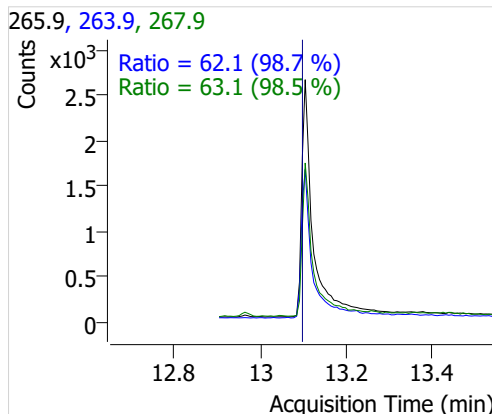
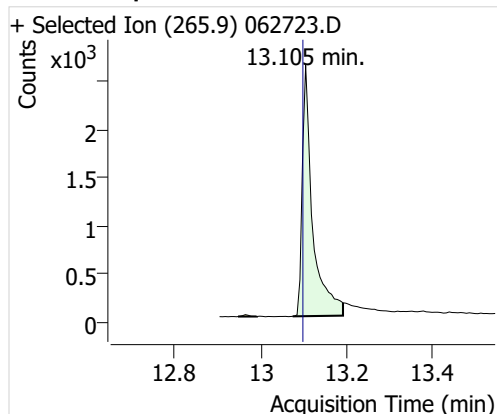
Fluorene



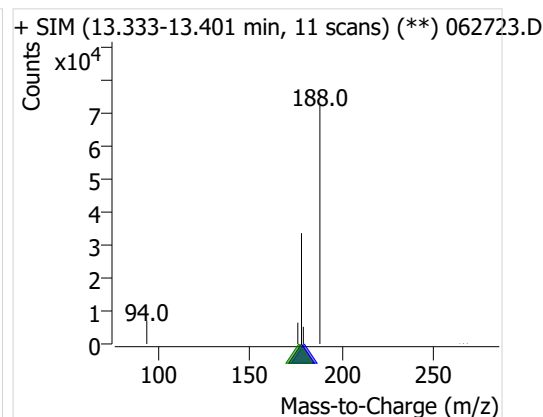
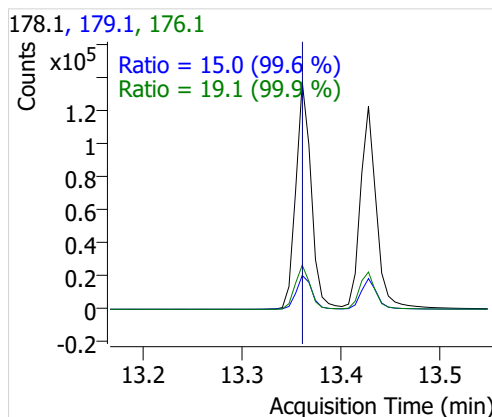
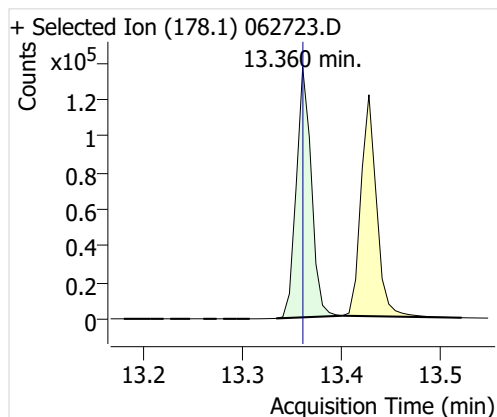
2,4,6-Tribromophenol



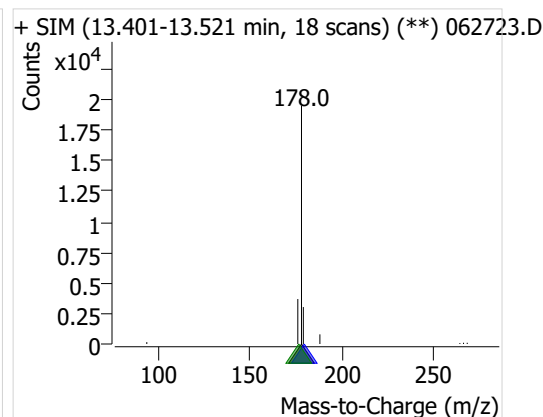
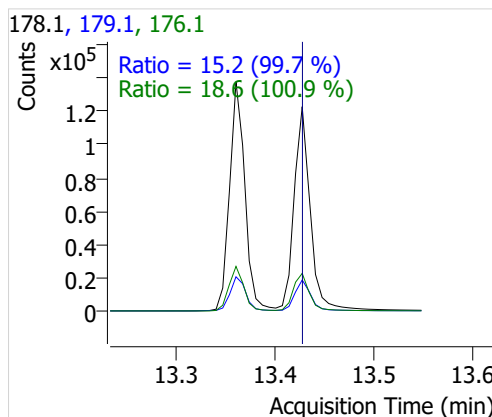
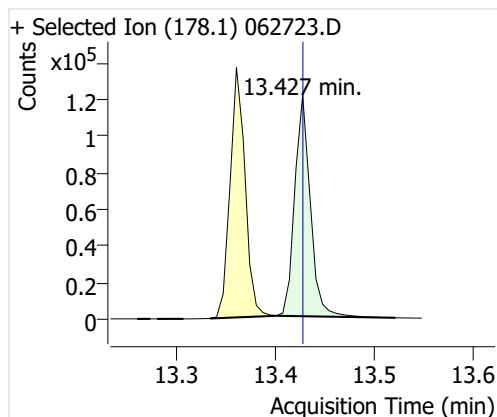
Pentachlorophenol



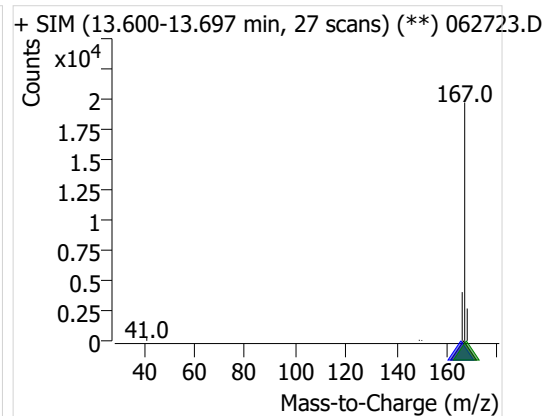
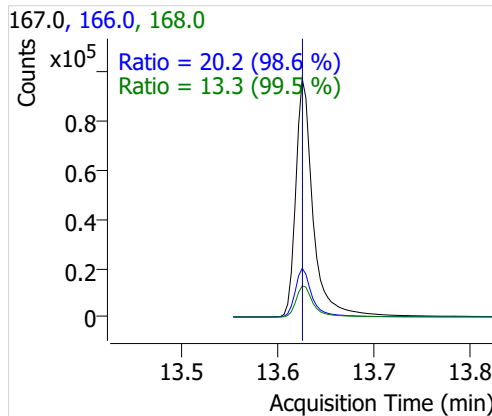
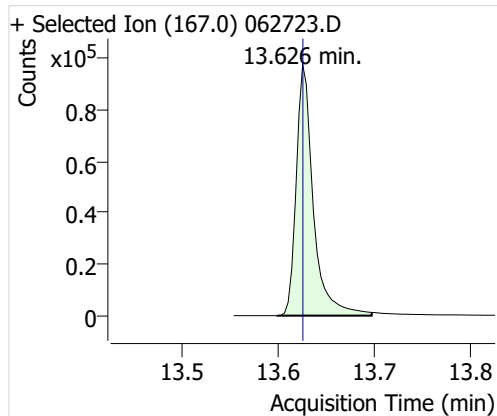
Phenanthrene



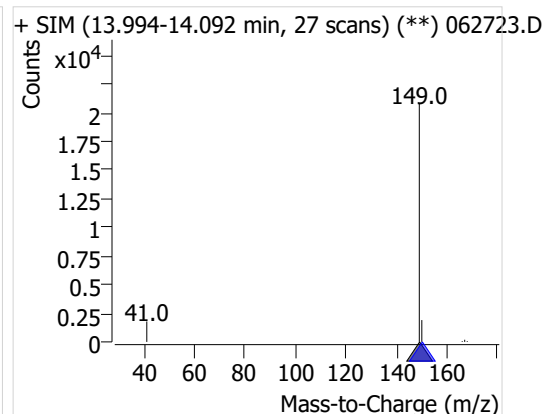
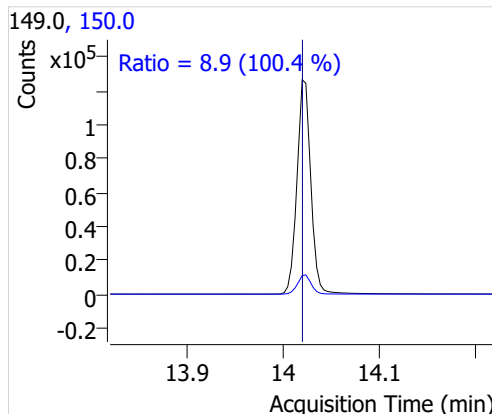
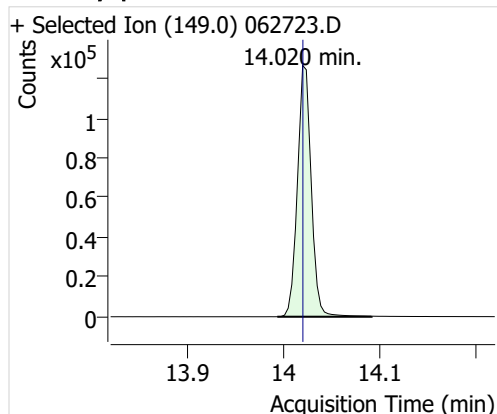
Anthracene



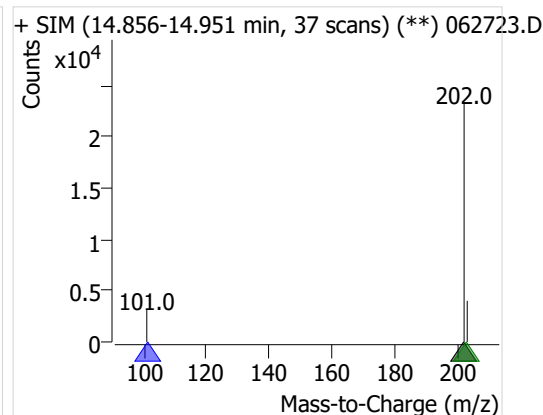
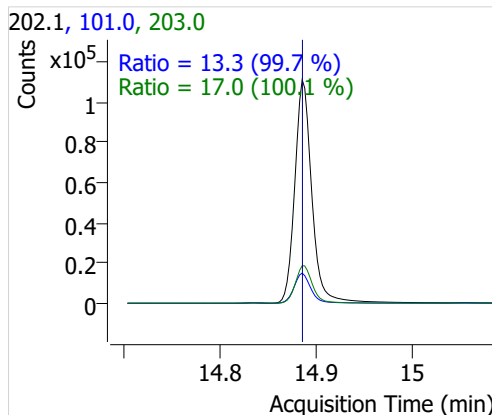
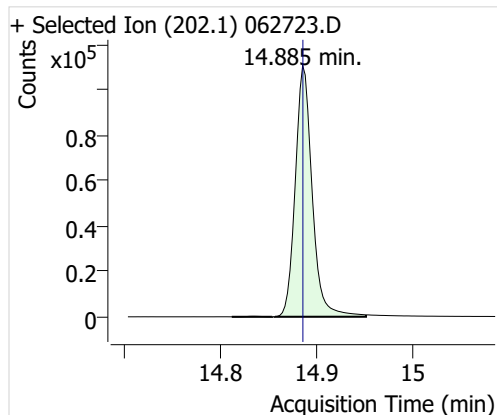
Carbazole



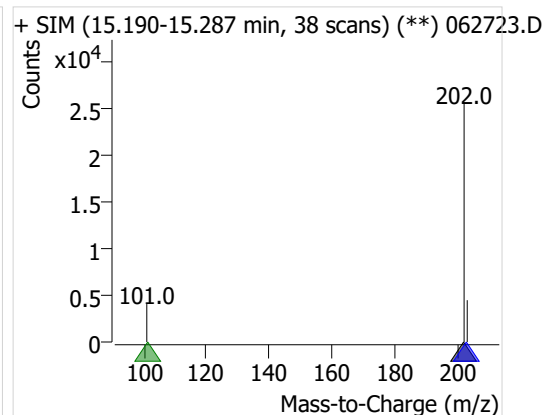
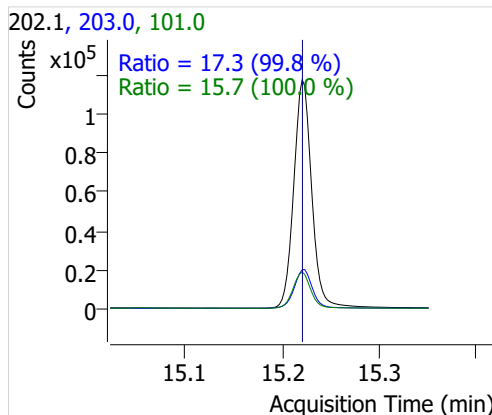
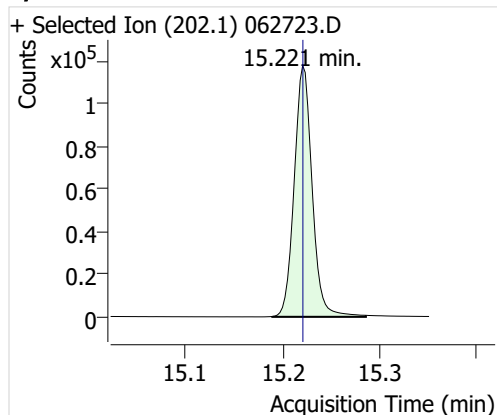
Di-n-butyl phthalate



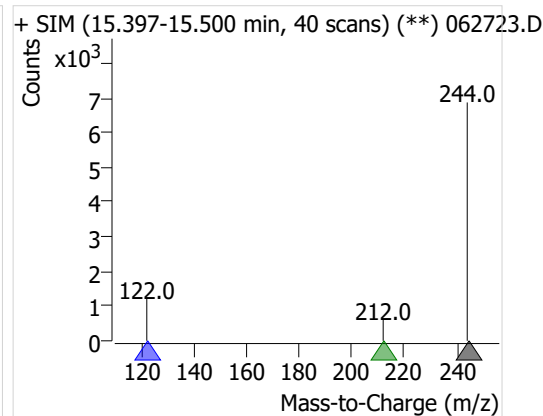
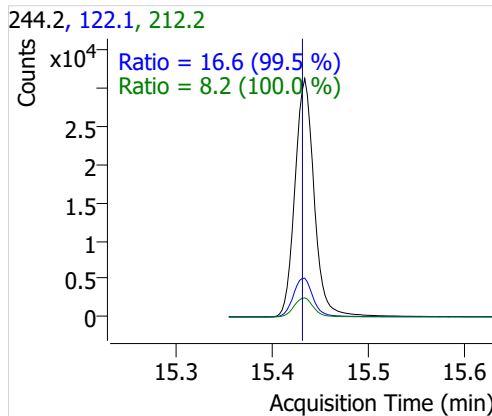
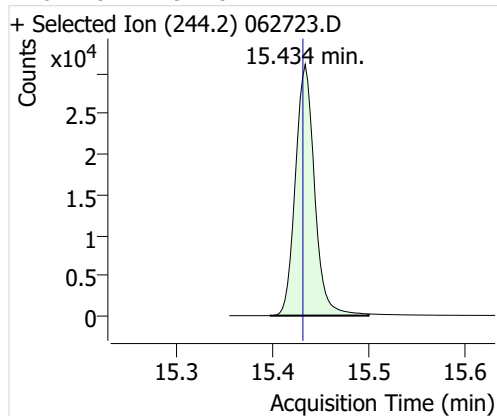
Fluoranthene



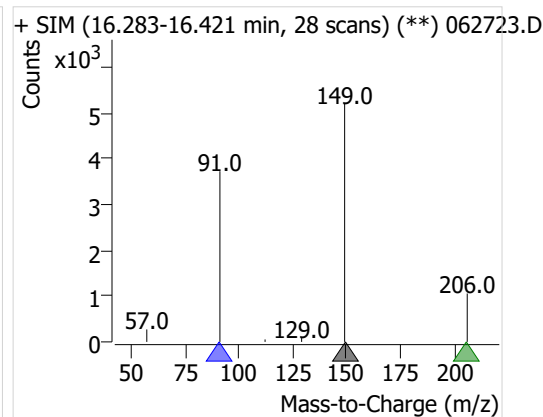
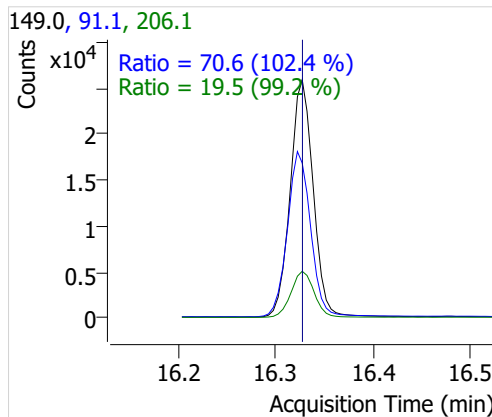
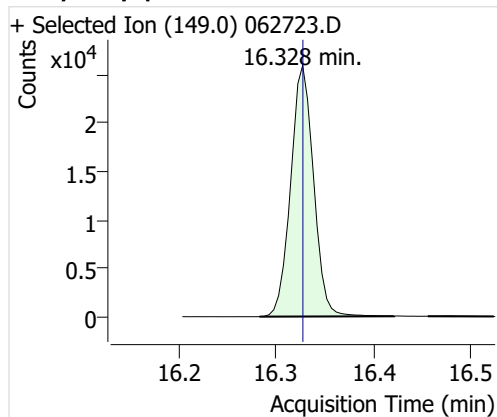
Pyrene



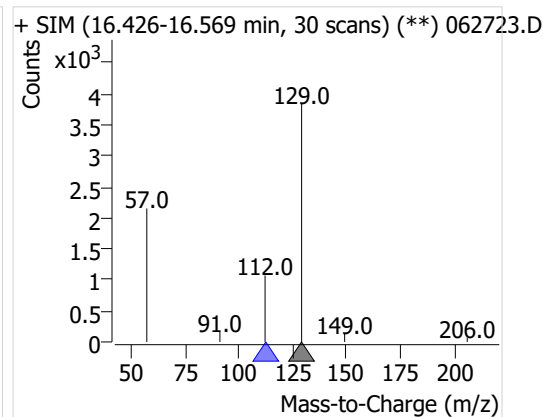
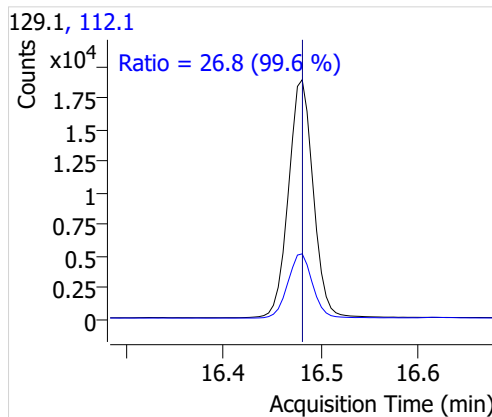
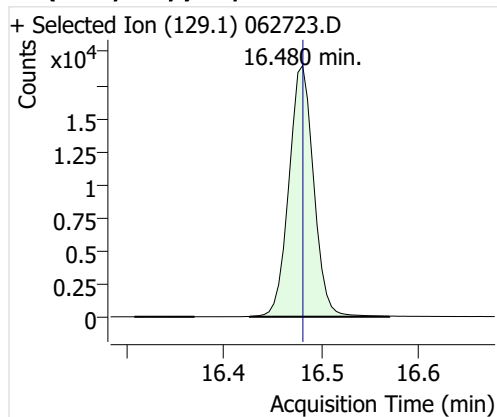
Terphenyl-d14 (surr)



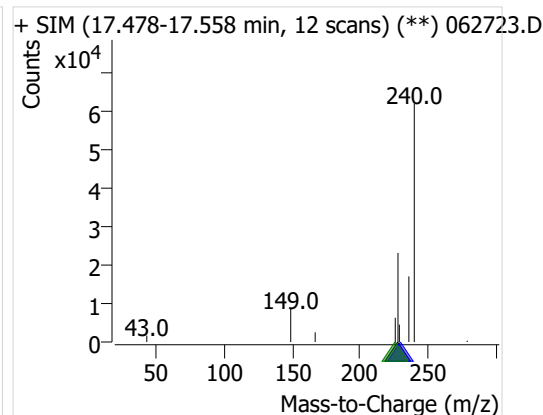
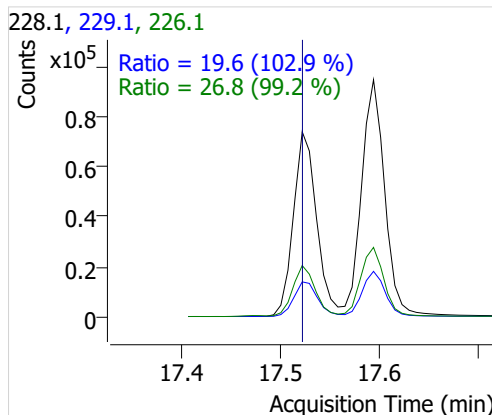
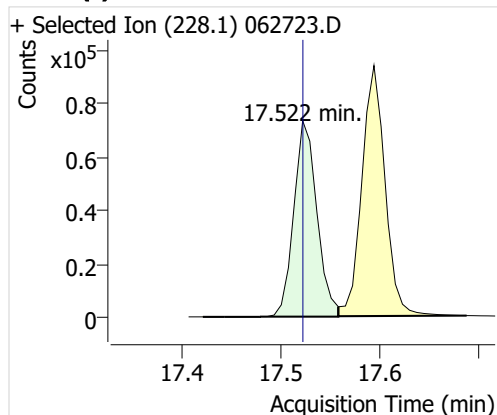
Benzyl Butyl phthalate



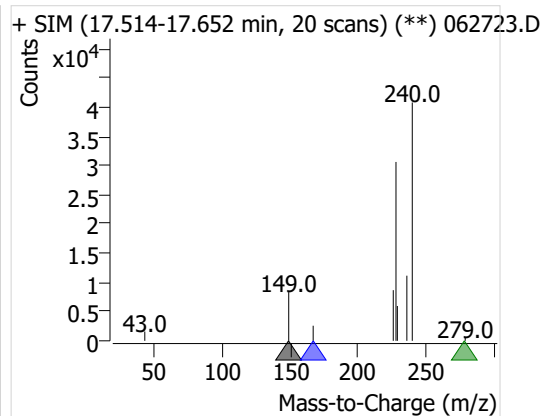
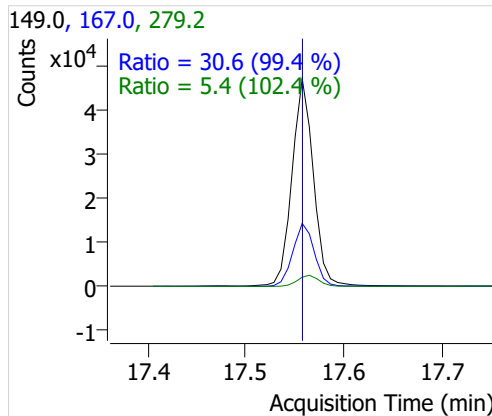
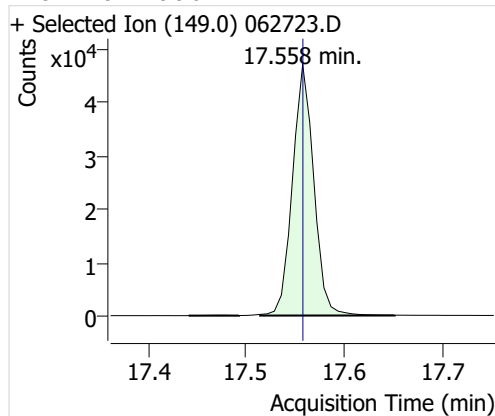
bis (2-Ethylhexyl) adipate



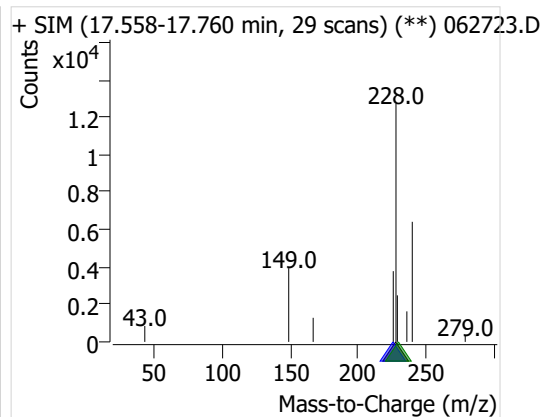
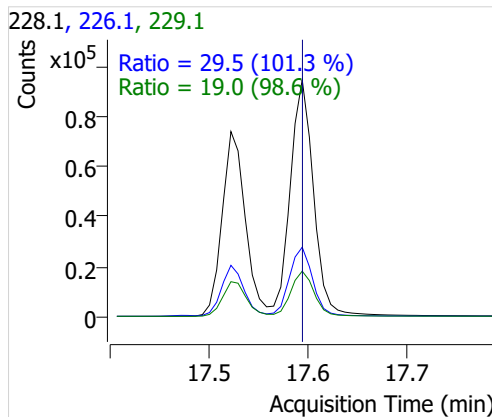
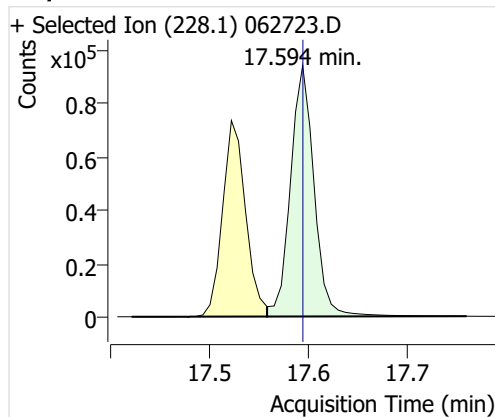
Benzo (a) anthracene



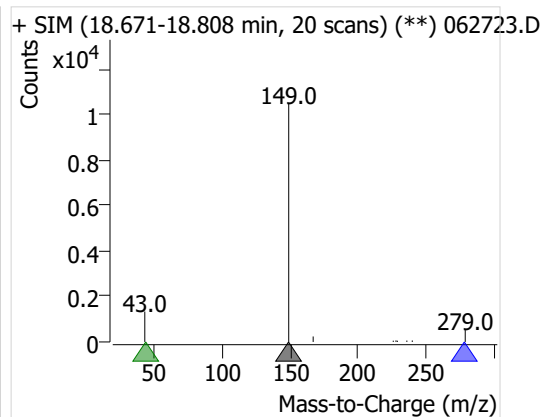
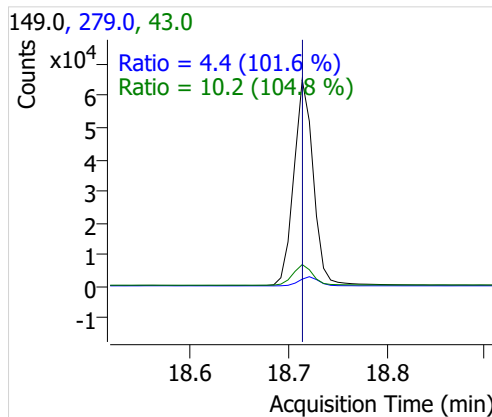
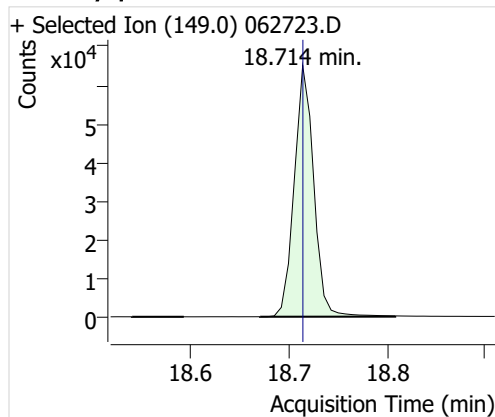
bis(2-Ethylhexyl) phthalate



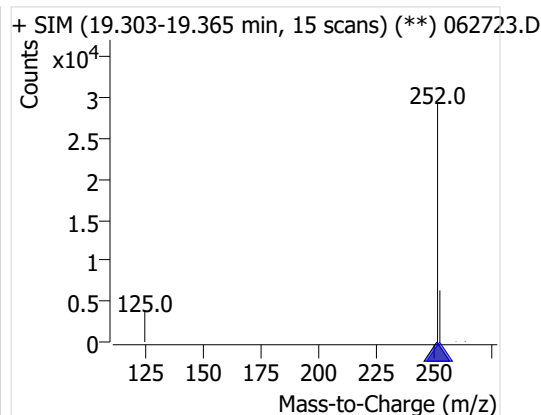
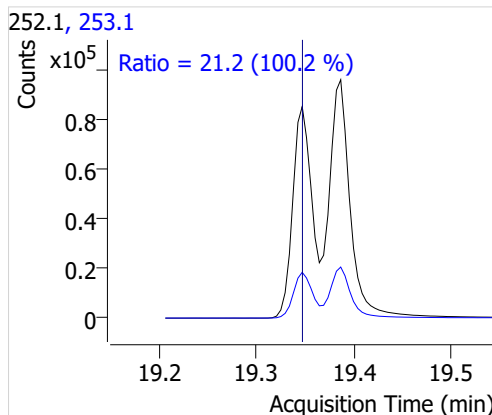
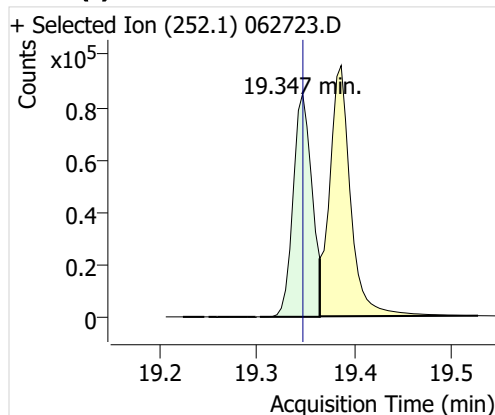
Chrysene



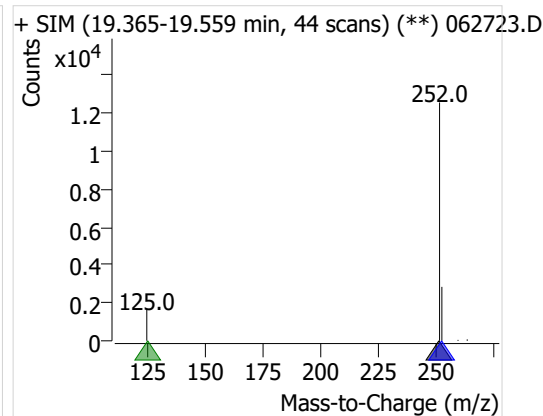
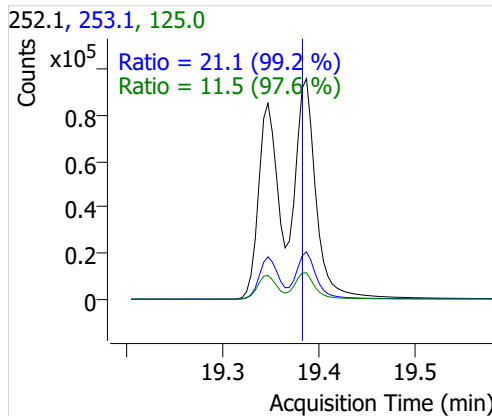
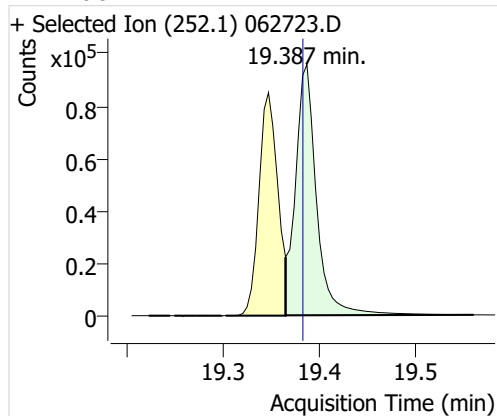
Di-n-octyl phthalate



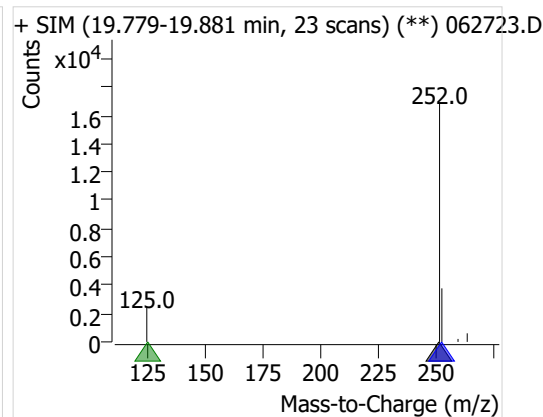
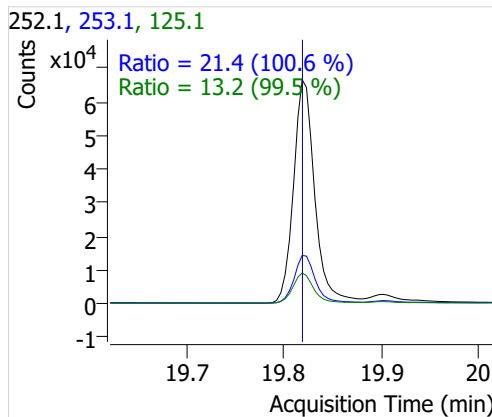
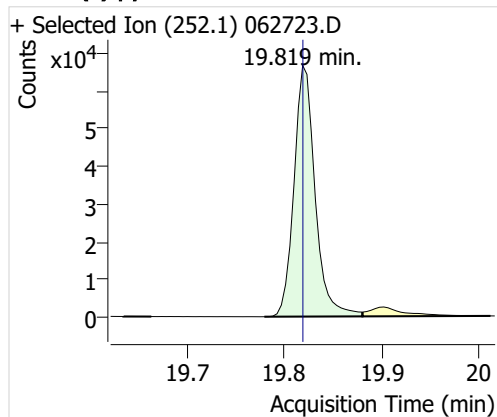
benzo (b) fluoranthene



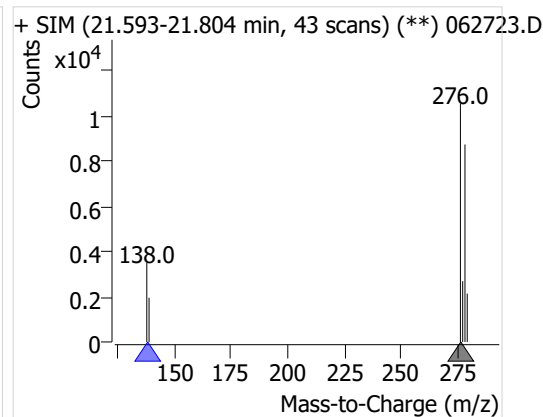
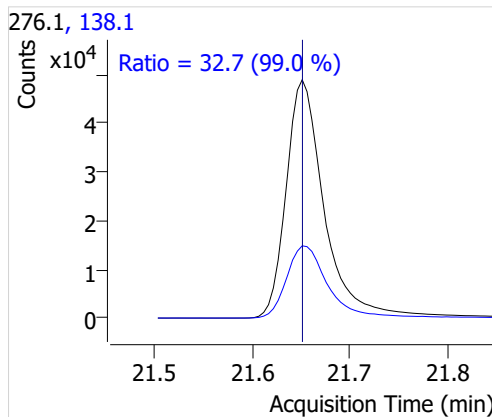
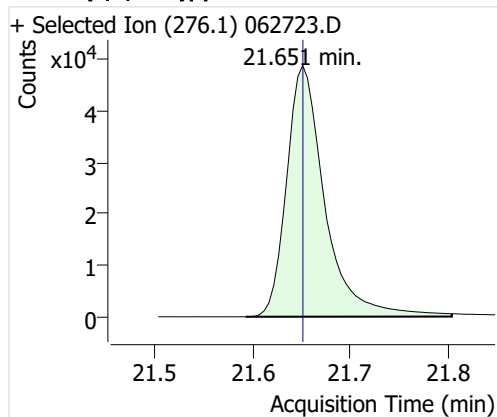
benzo (k) fluoranthene



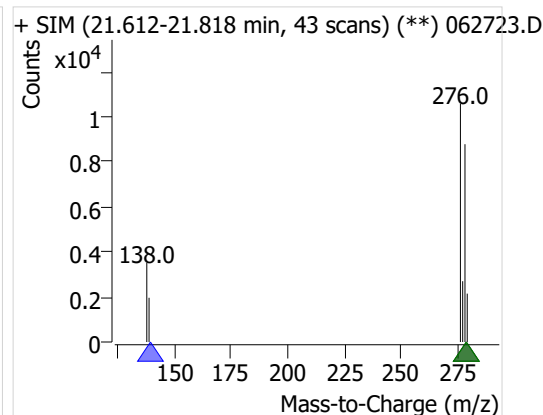
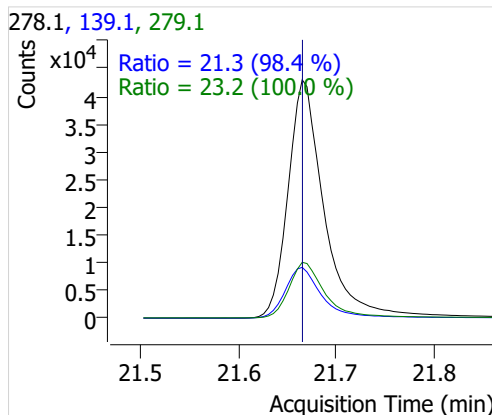
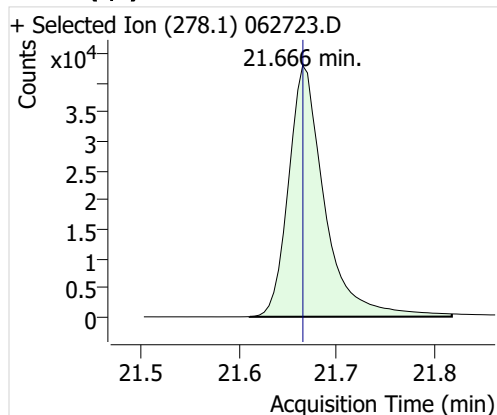
benzo (a) pyrene



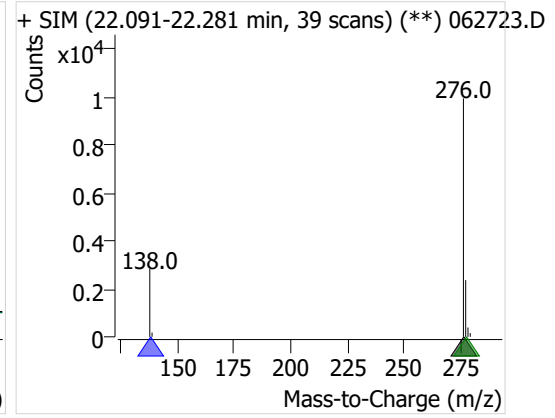
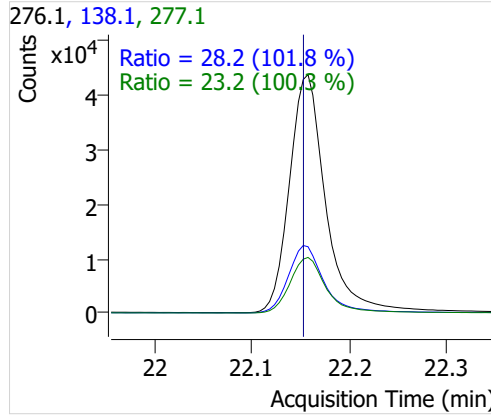
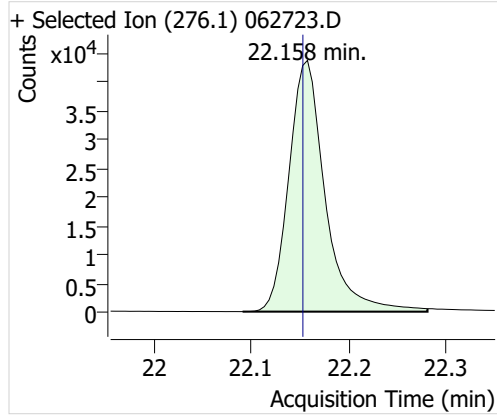
Indeno(1,2,3-cd)pyrene



Dibenz (a,h) anthracene



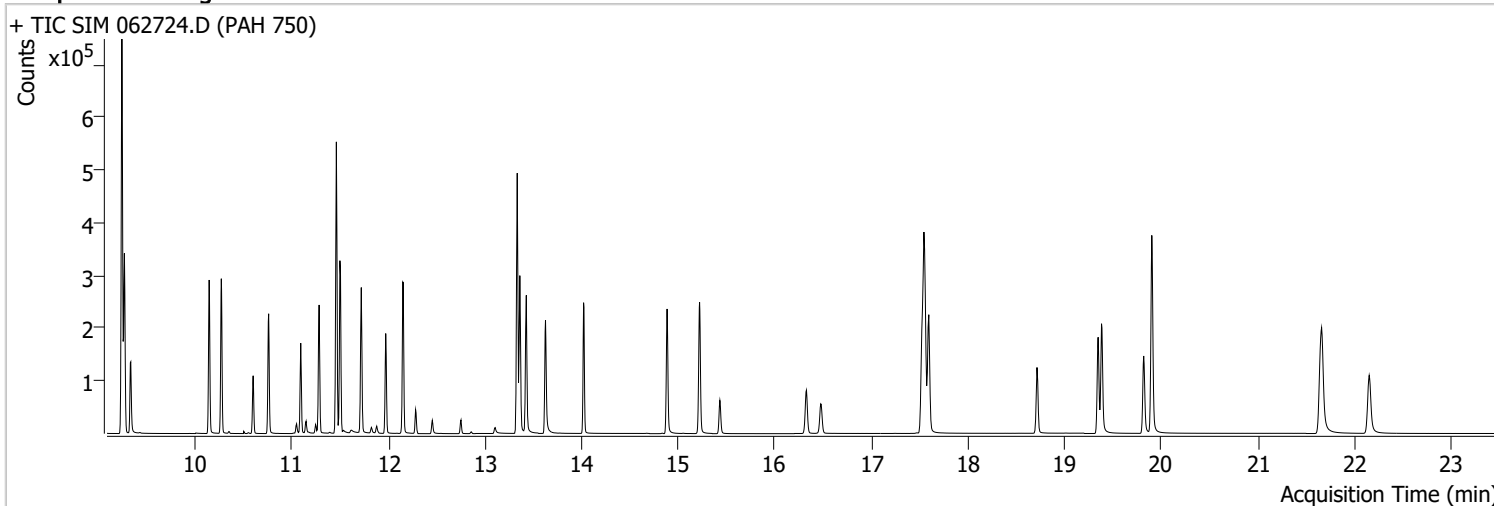
Benzo (g,h,i) perylene



Quantitative Analysis Complete Report

Batch Path	C:\GC-14\Data\2023\062723\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	6/29/2023 12:01 PM	Reporter Name	FA\GC14
Report Time	6/29/2023 12:02:11 PM	Batch State	Processed
Last Calib Update	6/29/2023 12:00 PM	Quant Report Version	10.0
Quant Batch Version	10.0		
Acq. Time	6/27/2023 8:32 PM	Data File	062724.D
Sample Type	Cal	Sample Name	PAH 750
Dilution	1	Acq. Method	8270E_SIM_625

Sample Chromatogram

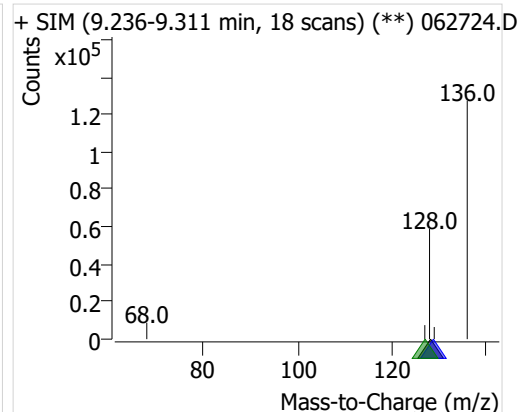
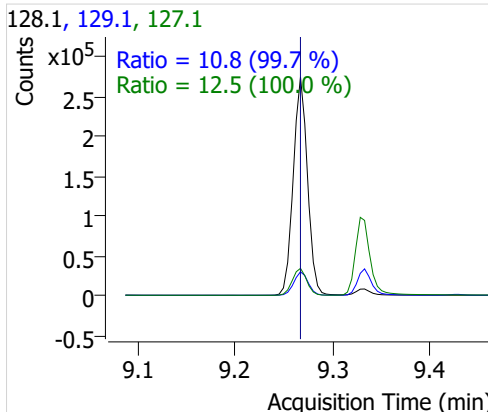
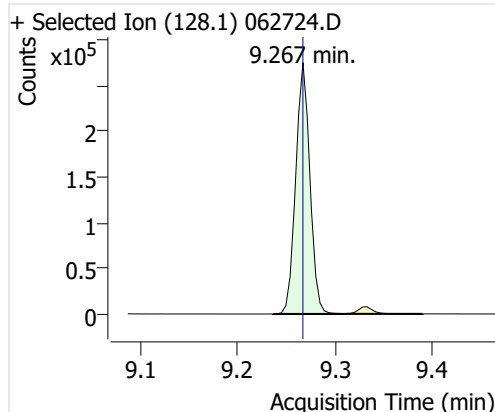


Compound	ISTD	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Units
Naphthalene	Naphthalene-d8 (IS)	9.267	278877	690376	0.4040	770.5184	µg/L
2-Methylnaphthalene	Naphthalene-d8 (IS)	10.145	128676	690376	0.1864	718.4542	µg/L
1-Methylnaphthalene	Naphthalene-d8 (IS)	10.270	127562	690376	0.1848	748.3077	µg/L
2-Fluorobiphenyl (surr)	Naphthalene-d8 (IS)	10.600	77646	690376	0.1125	343.7753	µg/L
2-Chloronaphthalene	Naphthalene-d8 (IS)	10.760	134155	690376	0.1943	692.1602	µg/L
Dimethyl phthalate	Naphthalene-d8 (IS)	11.092	136619	690376	0.1979	693.8768	µg/L
Acenaphthylene	Naphthalene-d8 (IS)	11.283	181349	690376	0.2627	691.2697	µg/L
Acenaphthene	Acenaphthene-d10 (IS)	11.498	135038	255247	0.5290	765.0237	µg/L
Dibenzofuran	Acenaphthene-d10 (IS)	11.719	191472	255247	0.7501	753.2491	µg/L
Diethylphthalate	Acenaphthene-d10 (IS)	11.972	137848	255247	0.5401	704.0252	µg/L
Fluorene	Acenaphthene-d10 (IS)	12.154	147253	255247	0.5769	745.6638	µg/L
2,4,6-Tribromophenol	Acenaphthene-d10 (IS)	12.454	11892	255247	0.0466	696.6736	µg/L
Pentachlorophenol	Acenaphthene-d10 (IS)	13.106	7961	255247	0.0312	647.2660	µg/L
Phenanthrene	Phenanthrene-d10 (IS)	13.360	218547	458131	0.4770	775.2123	µg/L
Anthracene	Phenanthrene-d10 (IS)	13.427	208111	458131	0.4543	730.9907	µg/L
Carbazole	Phenanthrene-d10 (IS)	13.626	188964	458131	0.4125	717.5781	µg/L
Di-n-butyl phthalate	Phenanthrene-d10 (IS)	14.021	204116	458131	0.4455	675.2067	µg/L
Fluoranthene	Phenanthrene-d10 (IS)	14.885	213190	458131	0.4653	701.0501	µg/L
Pyrene	Phenanthrene-d10 (IS)	15.221	239492	458131	0.5228	738.6523	µg/L
Terphenyl-d14 (surr)	Phenanthrene-d10 (IS)	15.432	66754	458131	0.1457	349.4310	µg/L
Benzyl Butyl phthalate	Phenanthrene-d10 (IS)	16.328	69392	458131	0.1515	704.7853	µg/L
bis (2-Ethylhexyl) adipate	Phenanthrene-d10 (IS)	16.475	56007	458131	0.1223	633.3871	µg/L
Benzo (a) anthracene	Phenanthrene-d10 (IS)	17.522	189142	458131	0.4129	689.4484	µg/L
bis(2-Ethylhexyl) phthalate	Chrysene-d12 (IS)	17.558	121714	377298	0.3226	686.4264	µg/L
Chrysene	Chrysene-d12 (IS)	17.594	239391	377298	0.6345	797.9300	µg/L
Di-n-octyl phthalate	Chrysene-d12 (IS)	18.715	147367	377298	0.3906	701.6352	µg/L
benzo (b) fluoranthene	Chrysene-d12 (IS)	19.347	184636	377298	0.4894	685.3146	µg/L
benzo (k) fluoranthene	Chrysene-d12 (IS)	19.382	227754	377298	0.6036	740.1754	µg/L
benzo (a) pyrene	Chrysene-d12 (IS)	19.819	164188	377298	0.4352	701.9327	µg/L
Indeno(1,2,3-cd)pyrene	Perylene-d12 (IS)	21.646	210969	431879	0.4885	693.7144	µg/L

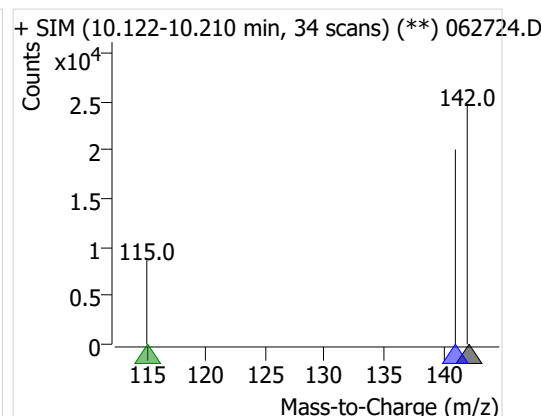
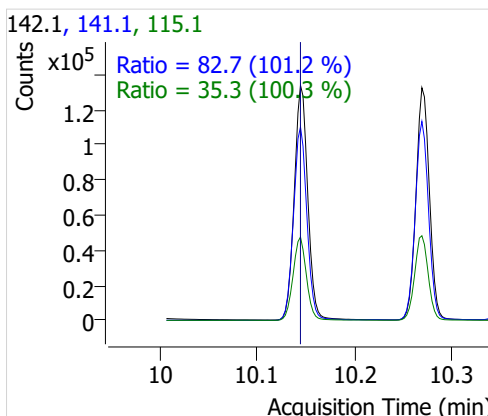
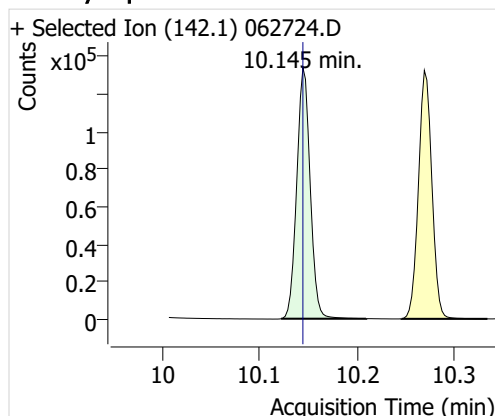
Quantitative Analysis Complete Report

Compound	ISTD	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Units
Dibenz (a,h) anthracene	Perylene-d12 (IS)	21.666	176751	431879	0.4093	691.7130	µg/L
Benzo (g,h,i) perylene	Perylene-d12 (IS)	22.153	177923	431879	0.4120	686.4220	µg/L

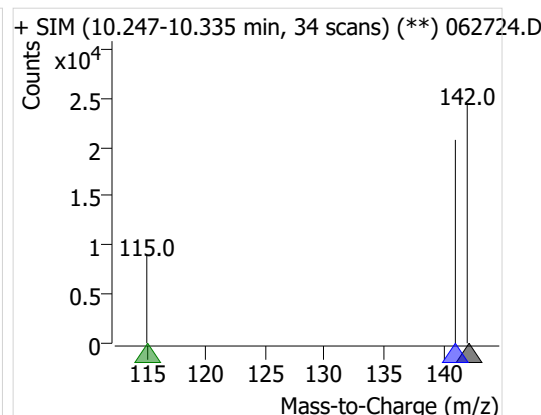
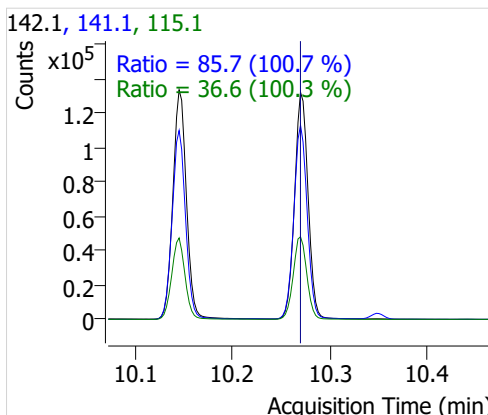
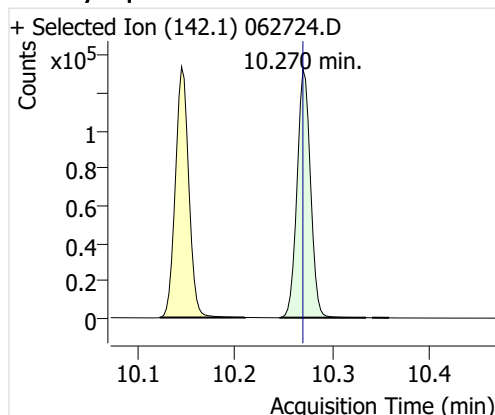
Naphthalene



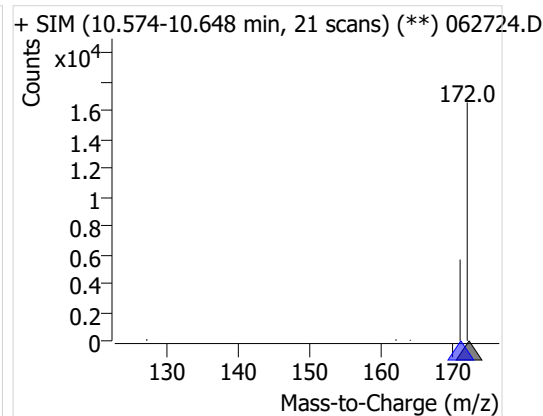
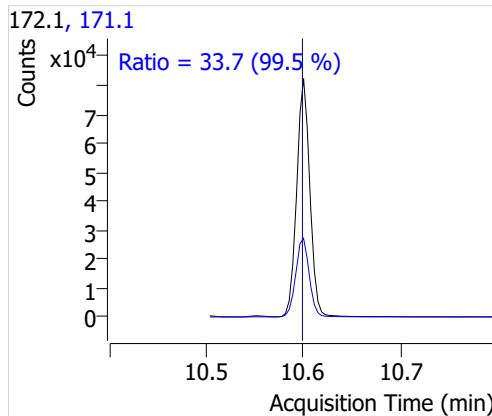
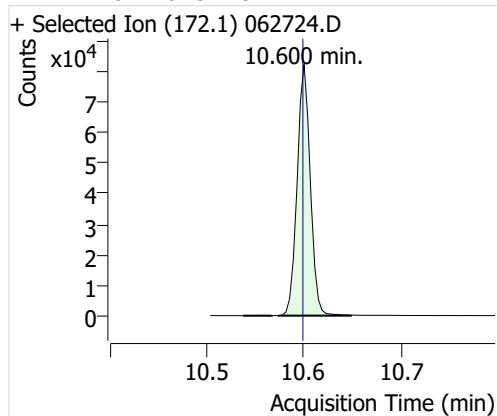
2-Methylnaphthalene



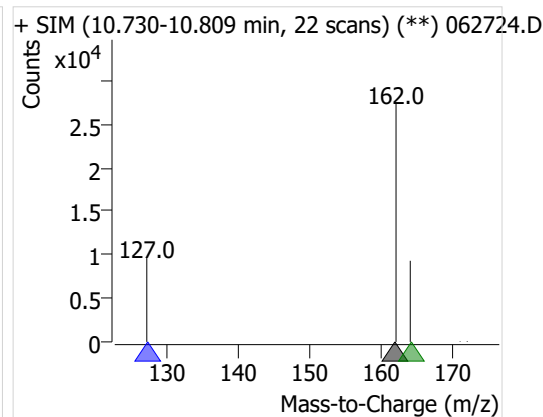
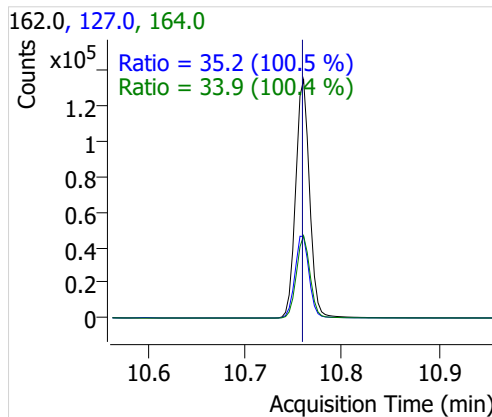
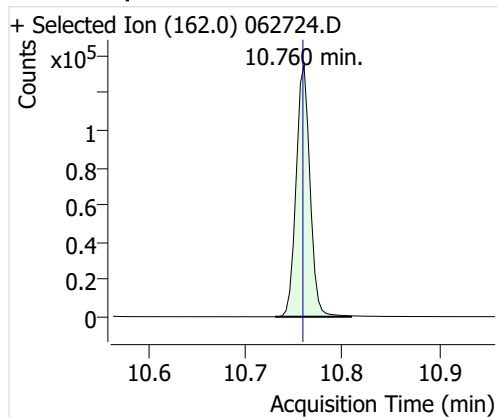
1-Methylnaphthalene



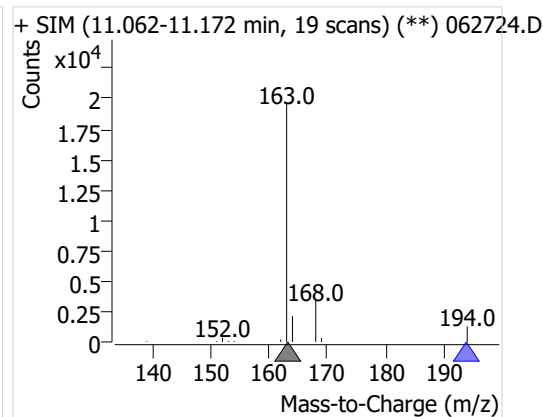
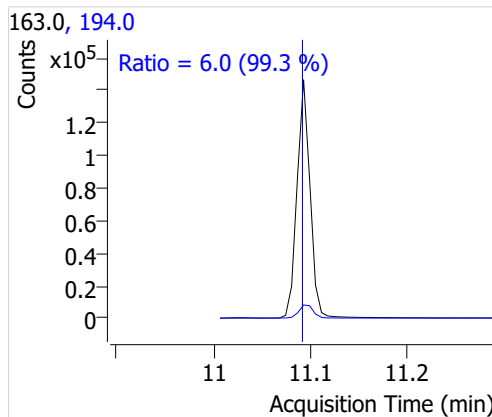
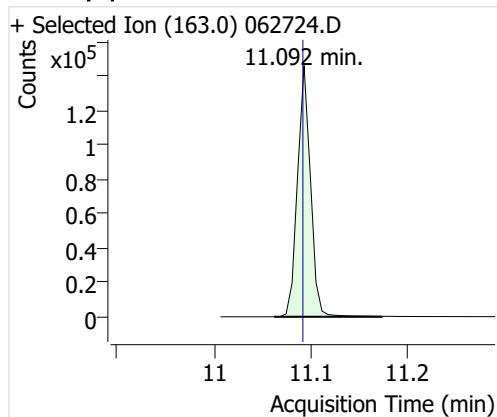
2-Fluorobiphenyl (surr)



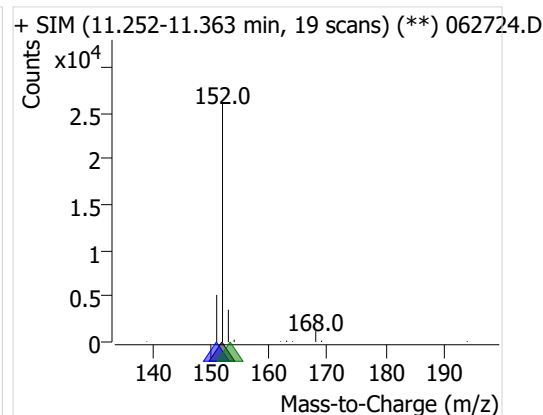
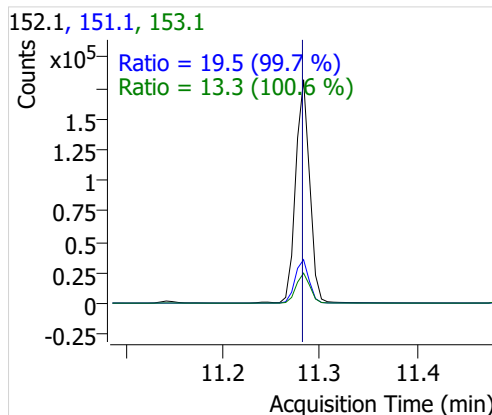
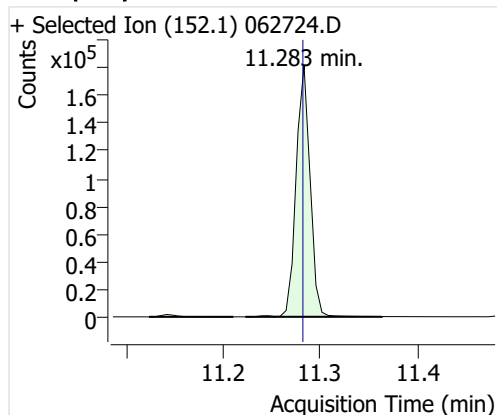
2-Chloronaphthalene



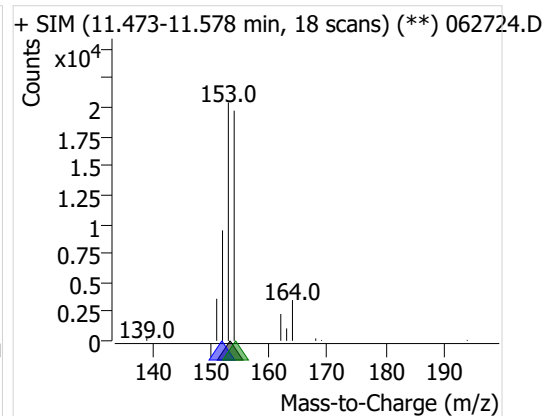
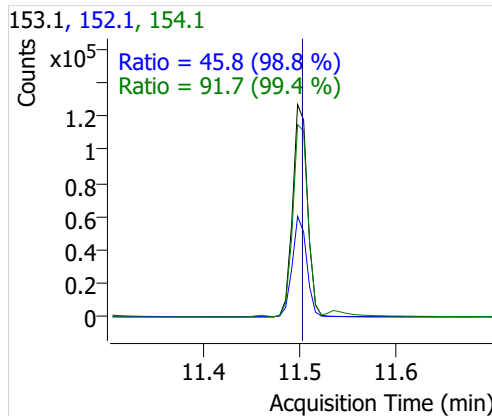
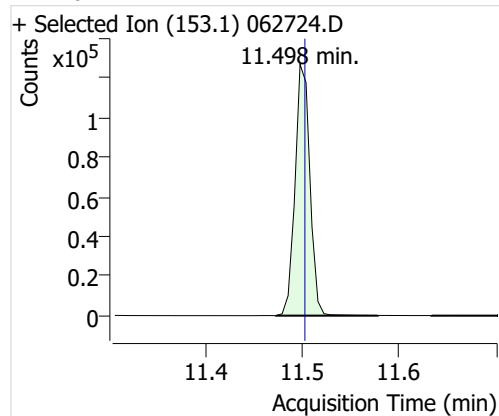
Dimethyl phthalate



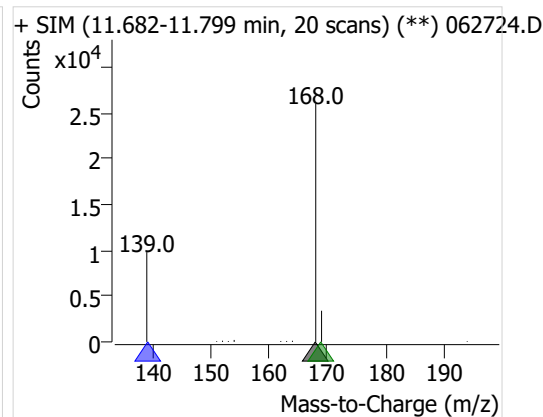
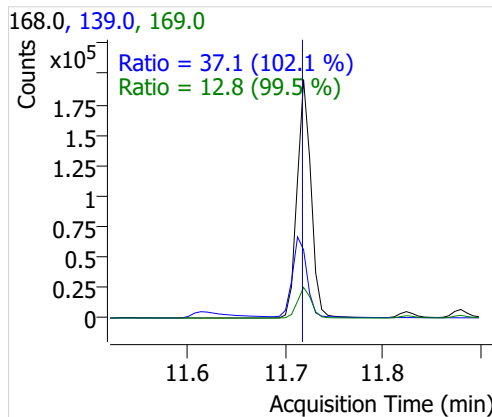
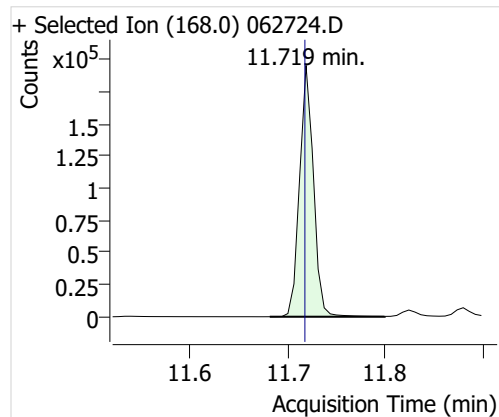
Acenaphthylene



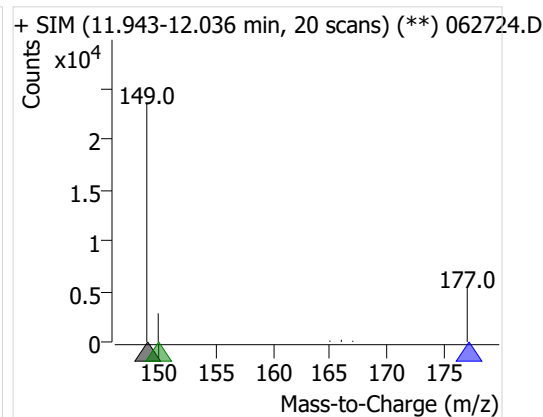
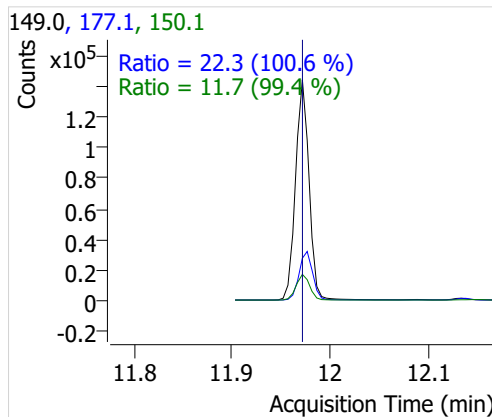
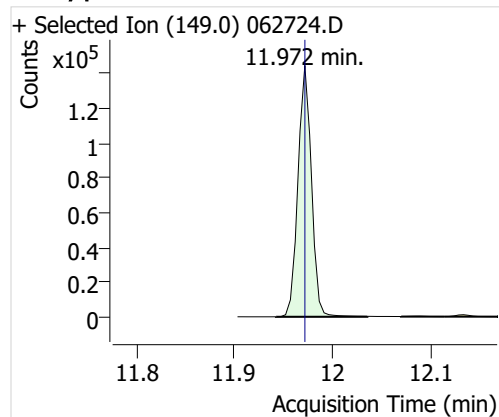
Acenaphthene



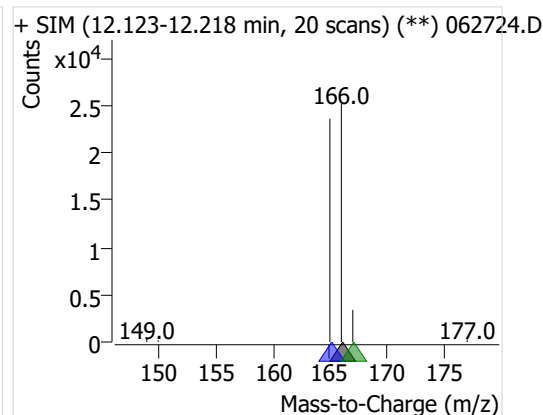
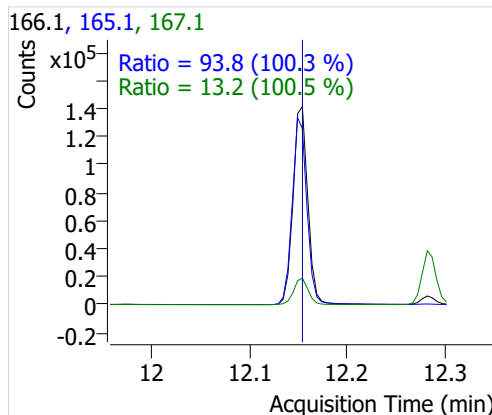
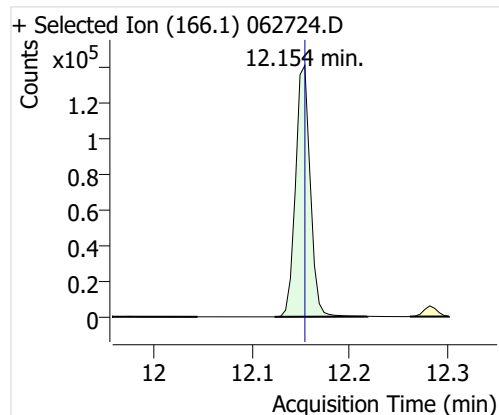
Dibenzofuran



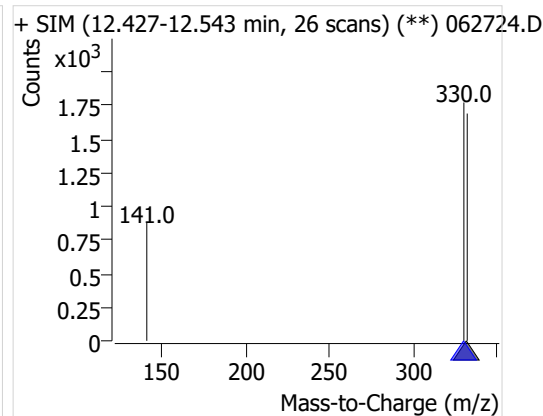
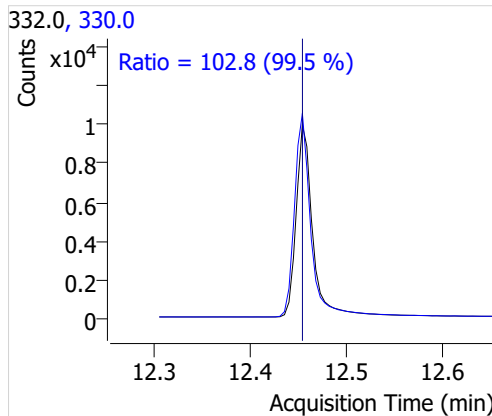
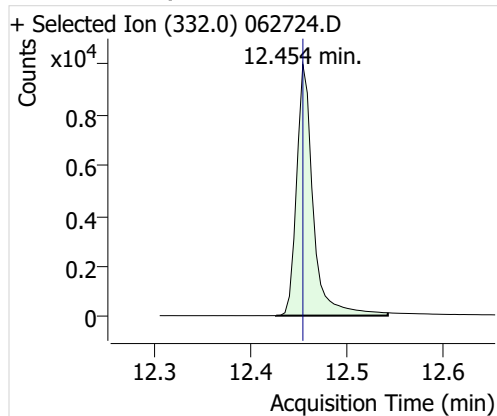
Diethylphthalate



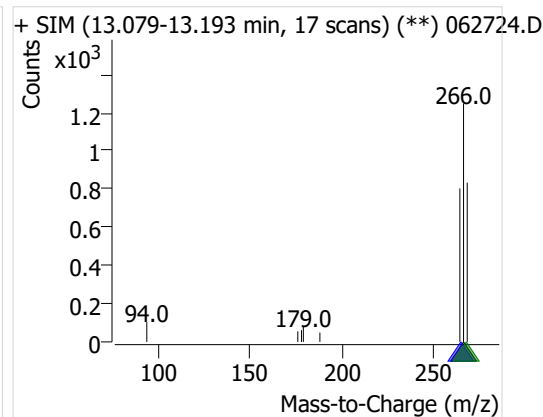
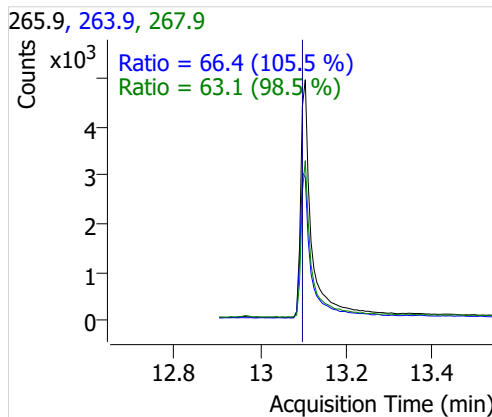
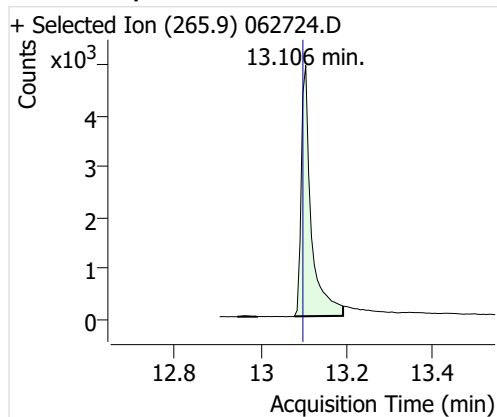
Fluorene



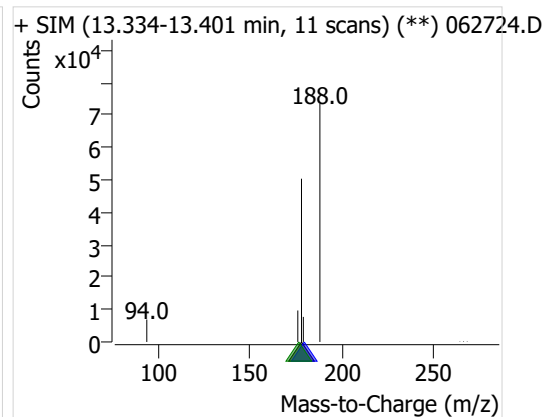
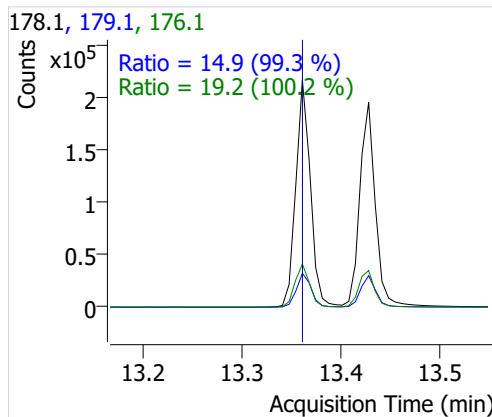
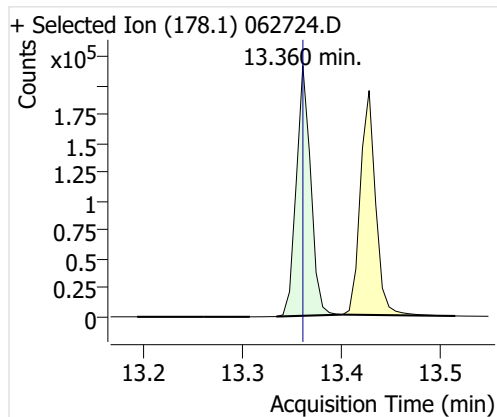
2,4,6-Tribromophenol



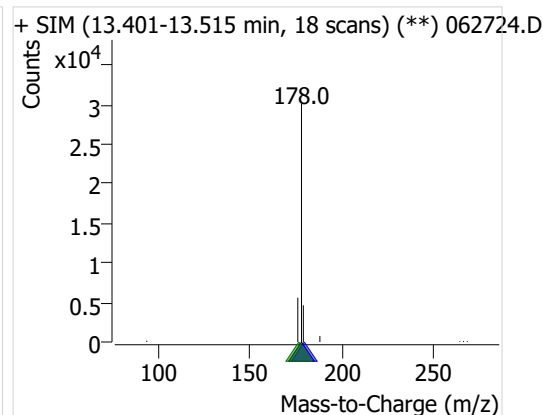
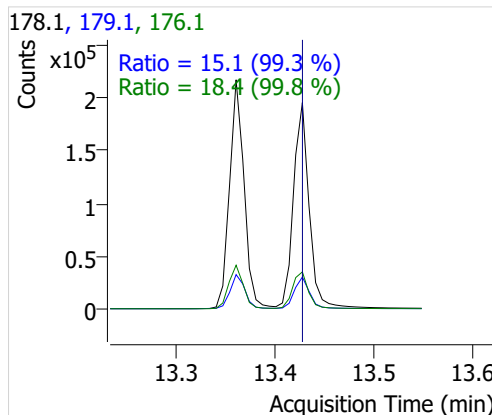
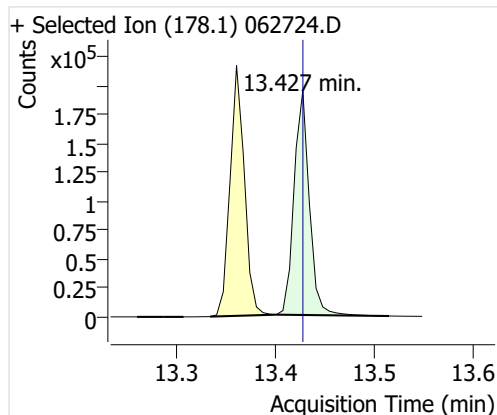
Pentachlorophenol



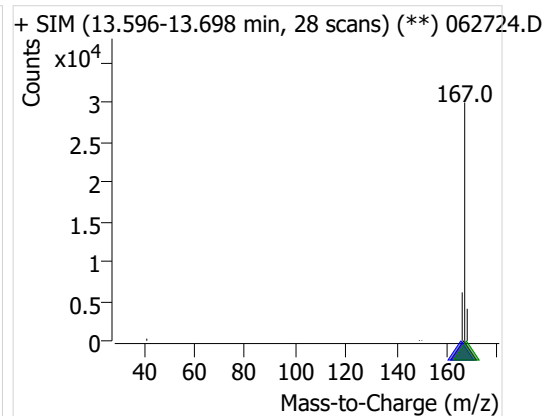
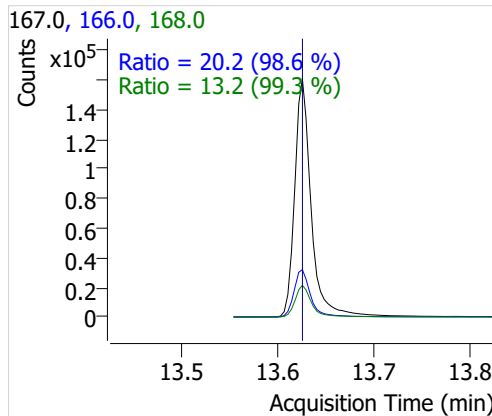
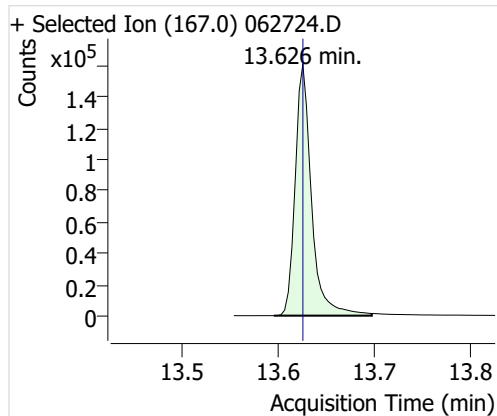
Phenanthrene



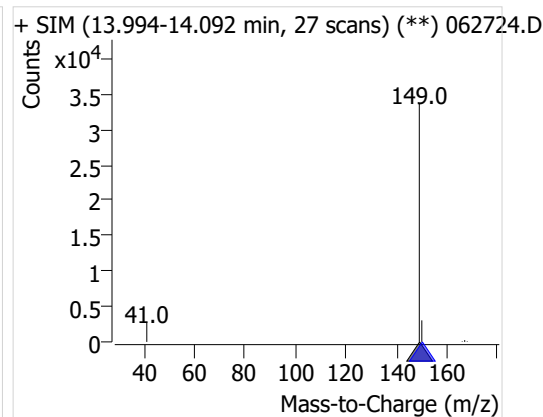
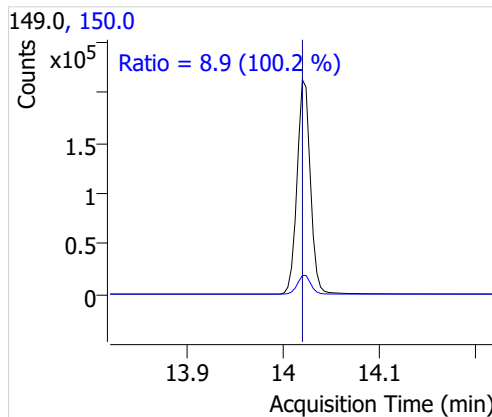
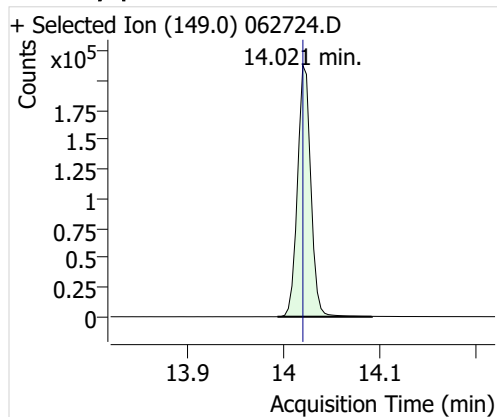
Anthracene



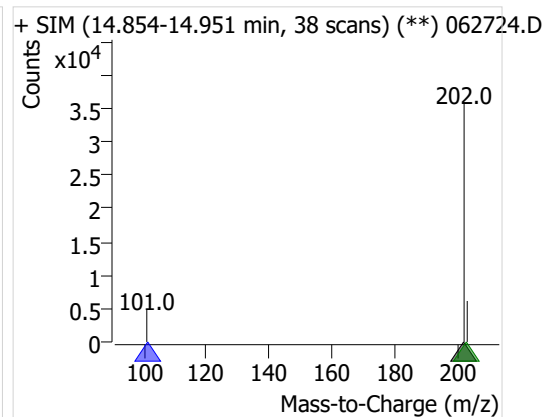
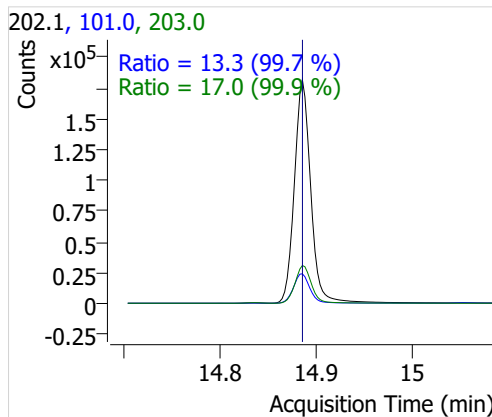
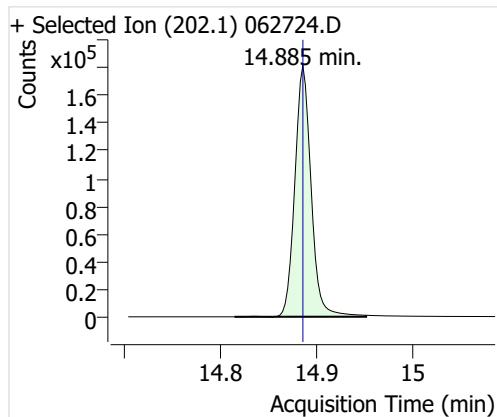
Carbazole



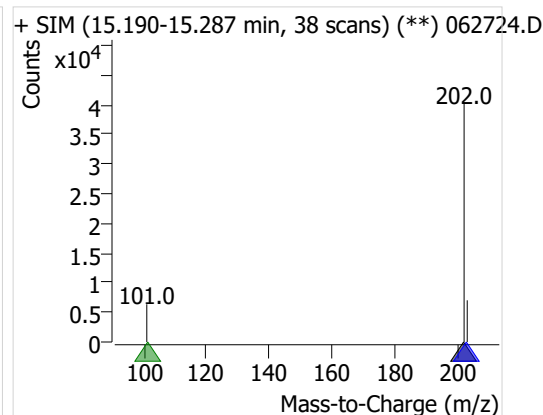
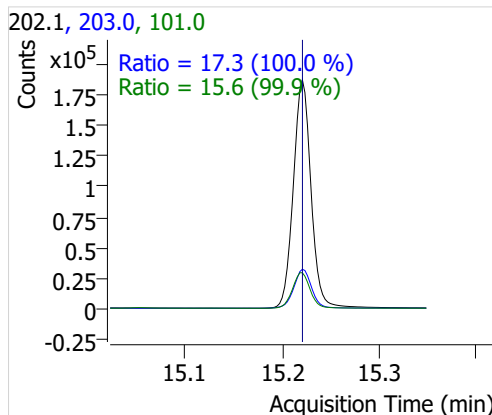
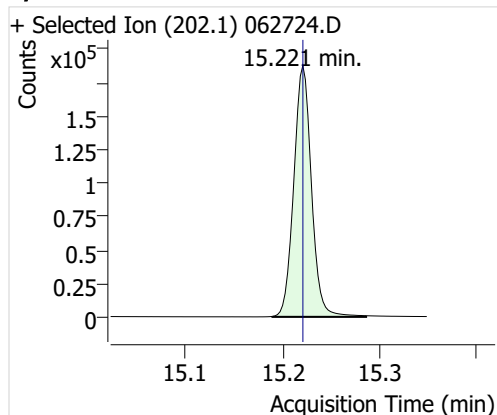
Di-n-butyl phthalate



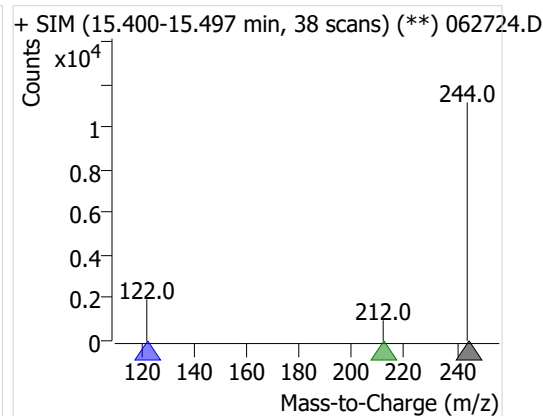
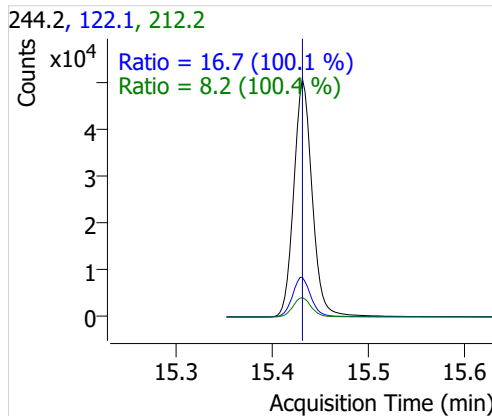
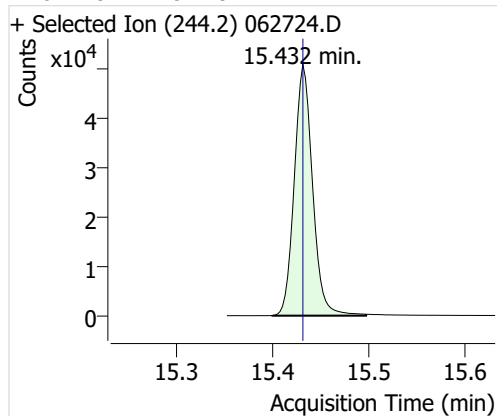
Fluoranthene



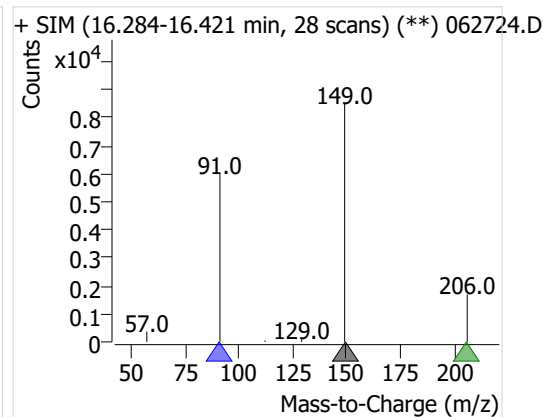
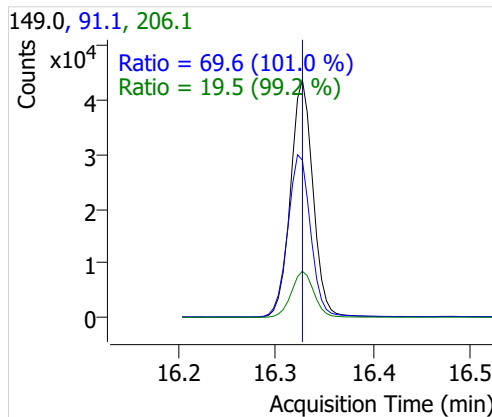
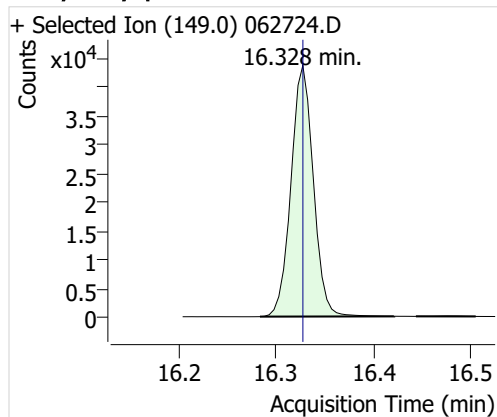
Pyrene



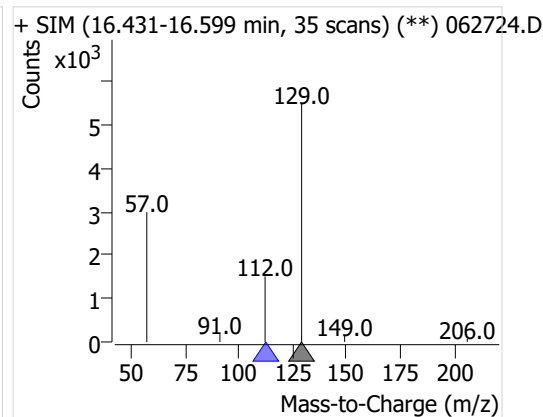
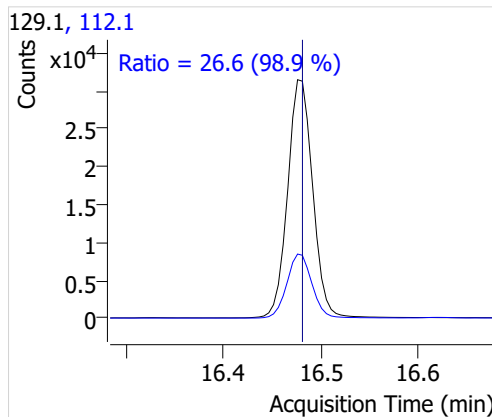
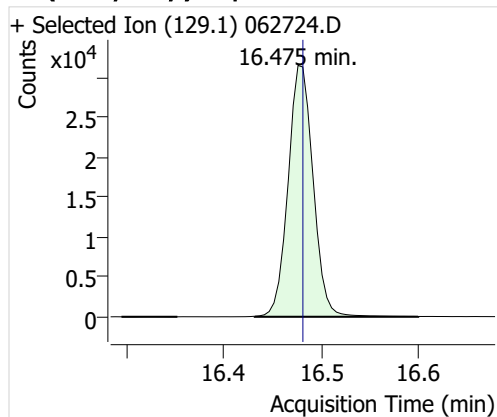
Terphenyl-d14 (surr)



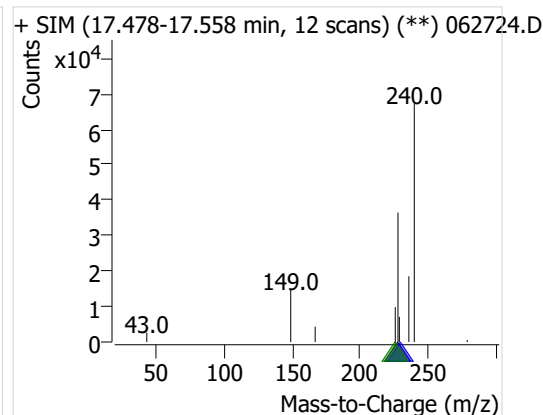
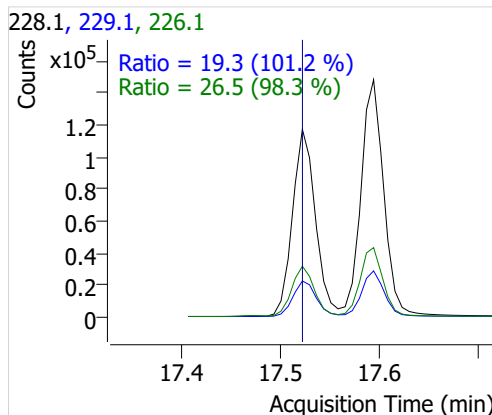
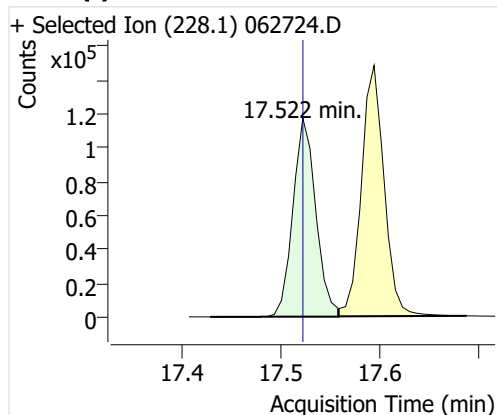
Benzyl Butyl phthalate



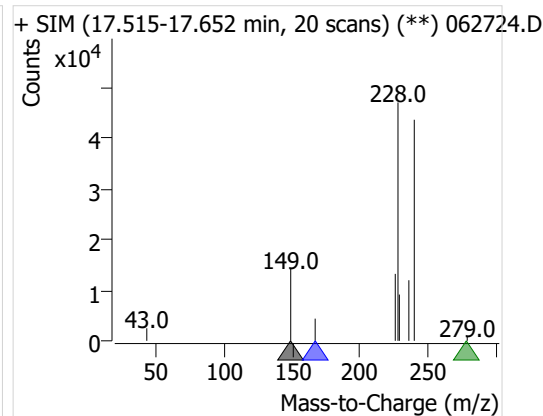
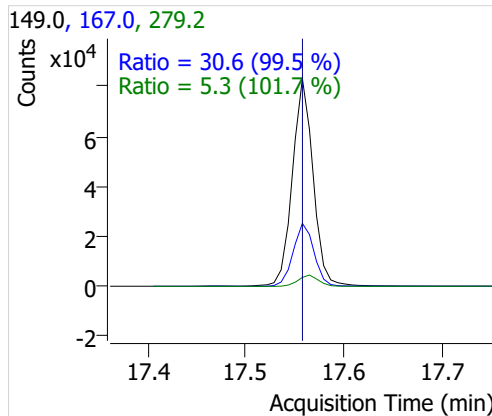
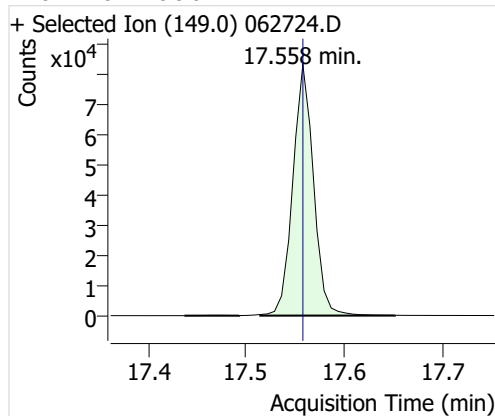
bis (2-Ethylhexyl) adipate



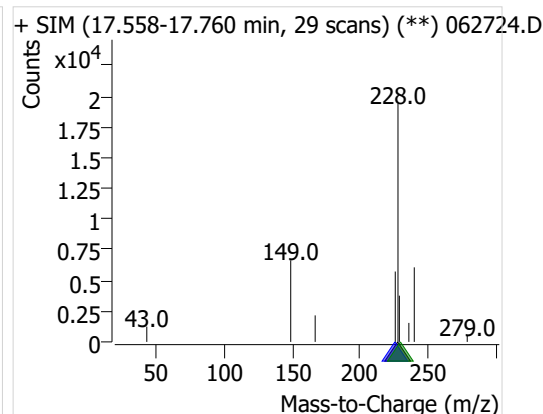
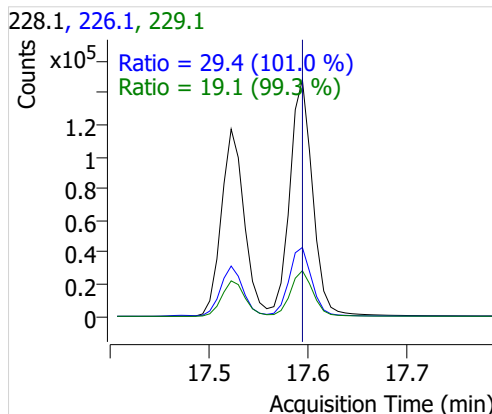
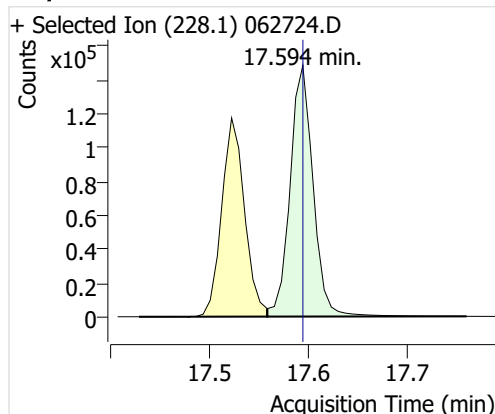
Benzo (a) anthracene



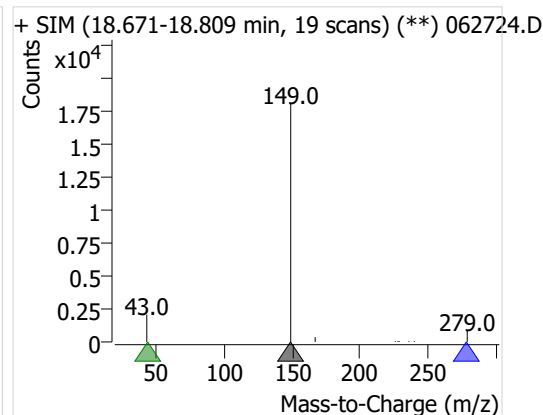
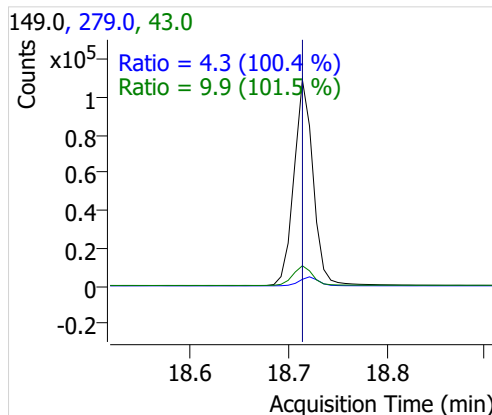
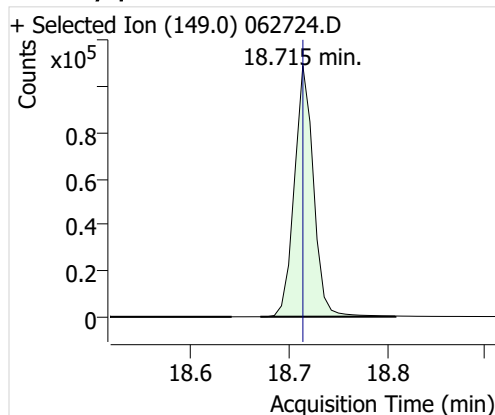
bis(2-Ethylhexyl) phthalate



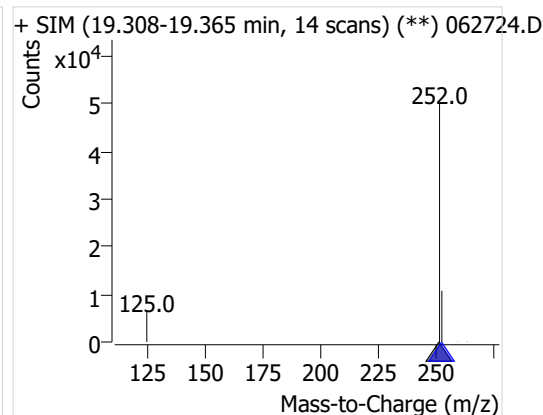
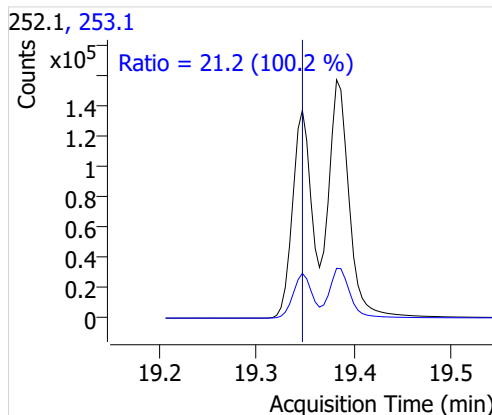
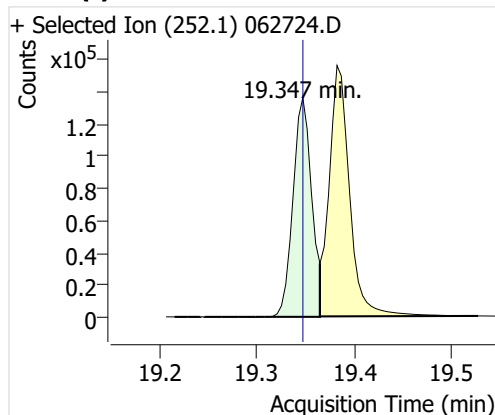
Chrysene



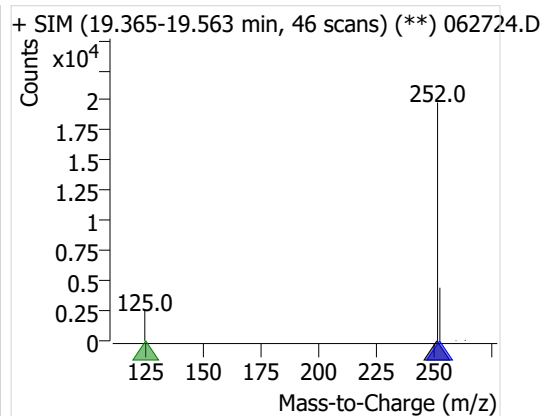
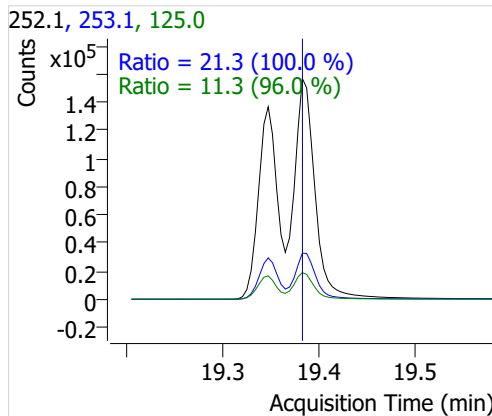
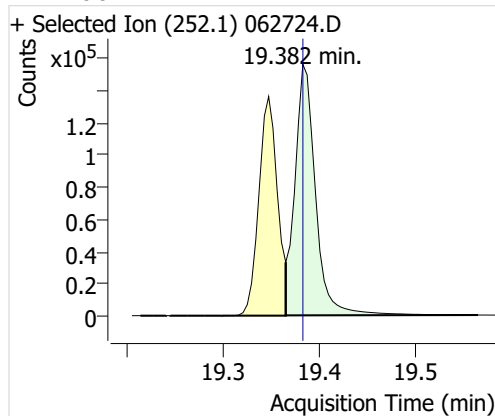
Di-n-octyl phthalate



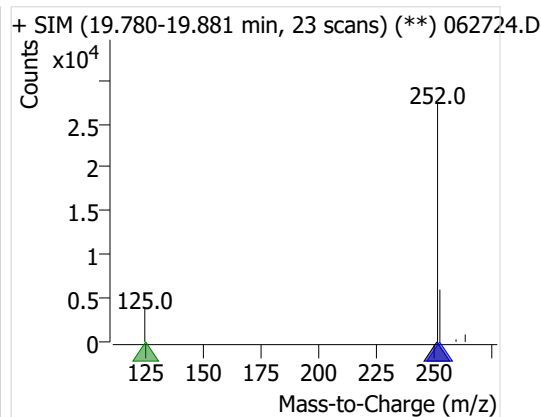
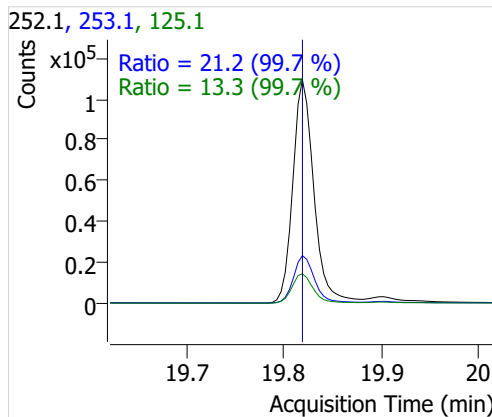
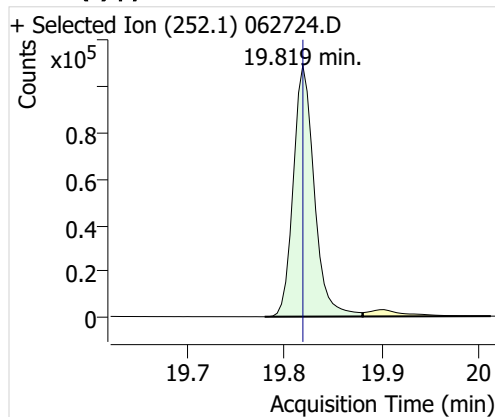
benzo (b) fluoranthene



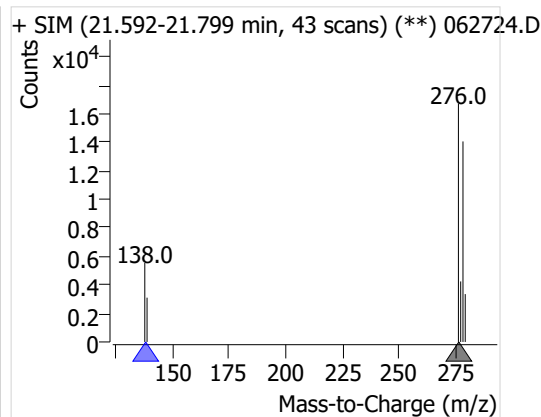
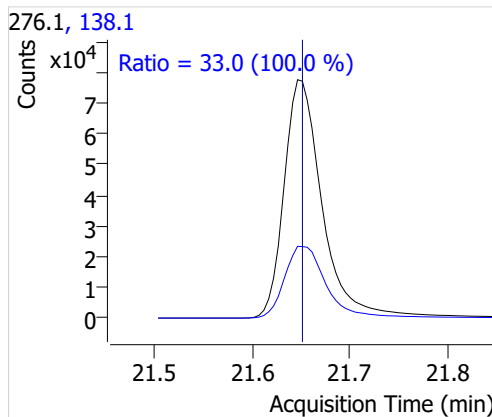
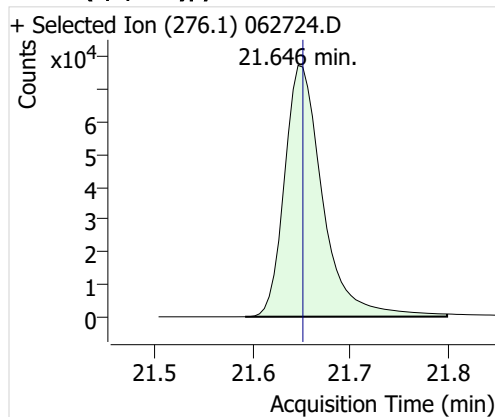
benzo (k) fluoranthene



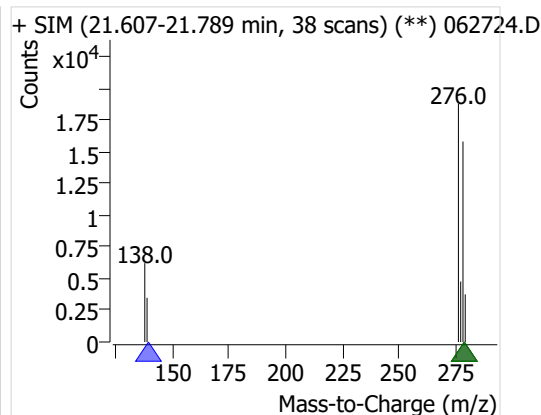
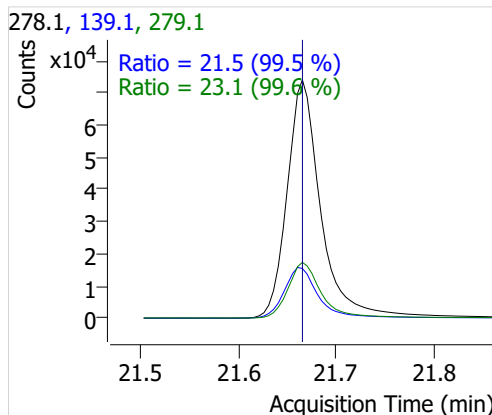
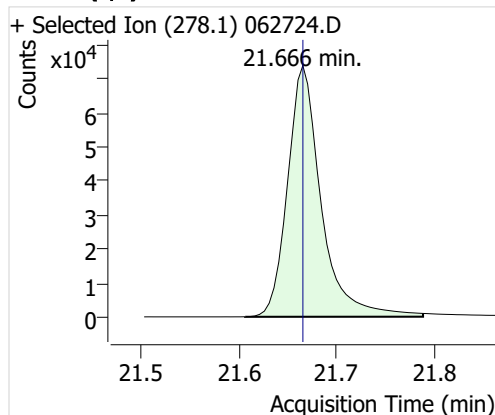
benzo (a) pyrene



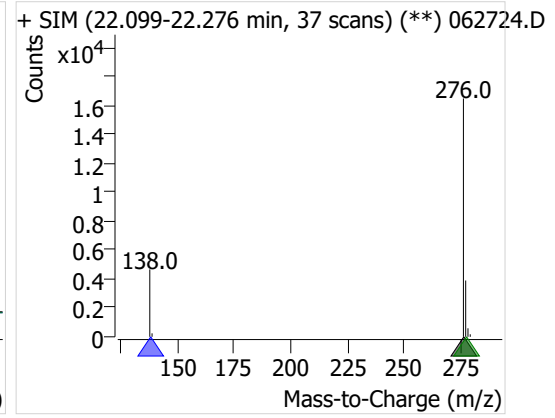
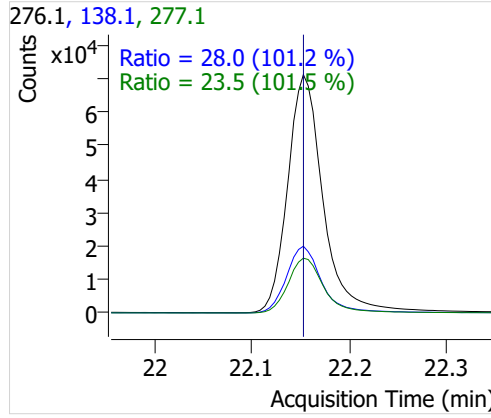
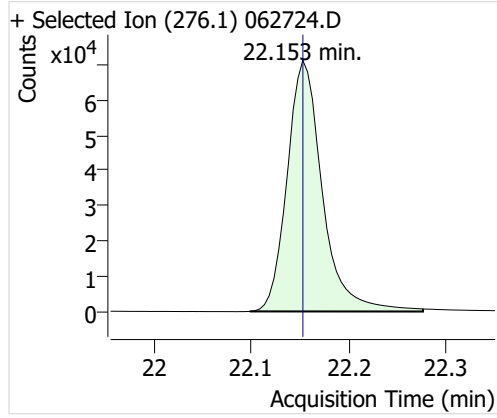
Indeno(1,2,3-cd)pyrene



Dibenz (a,h) anthracene



Benzo (g,h,i) perylene

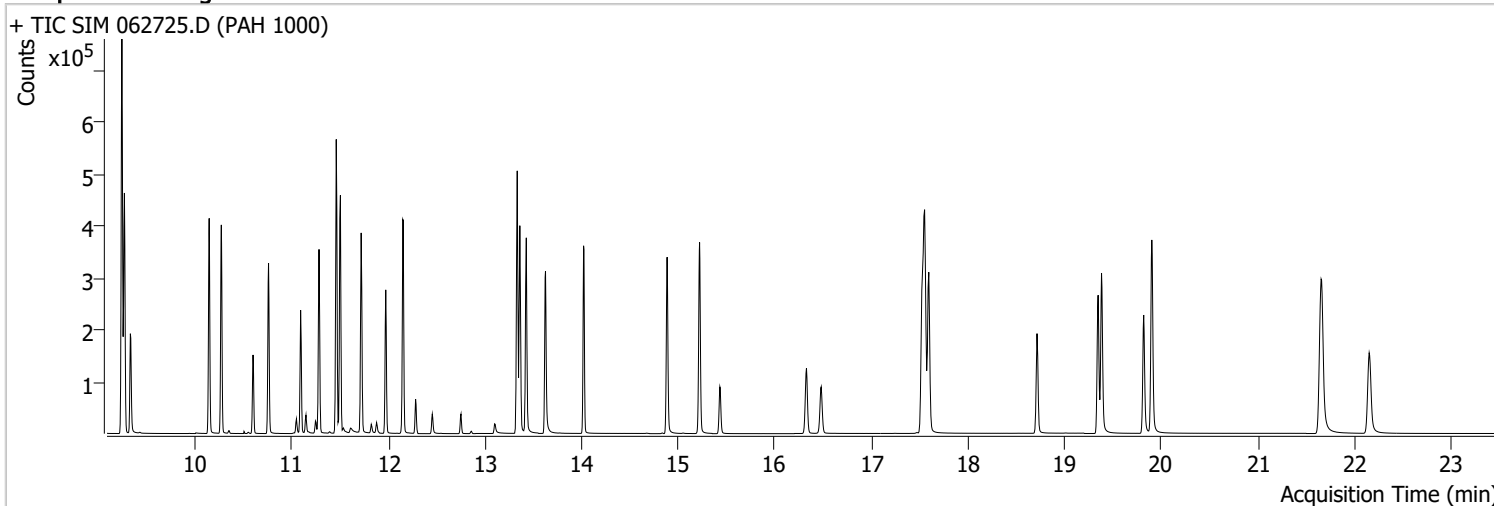


Quantitative Analysis Complete Report

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Analysis Time	6/29/2023 12:01 PM	Reporter Name	FA\GC14
Report Time	6/29/2023 12:02:15 PM	Batch State	Processed
Last Calib Update	6/29/2023 12:00 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

Acq. Time	6/27/2023 9:00 PM	Data File	062725.D
Sample Type	Cal	Sample Name	PAH 1000
Dilution	1	Acq. Method	8270E_SIM_625

Sample Chromatogram

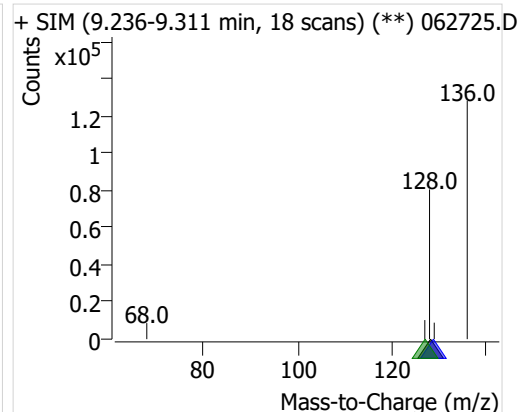
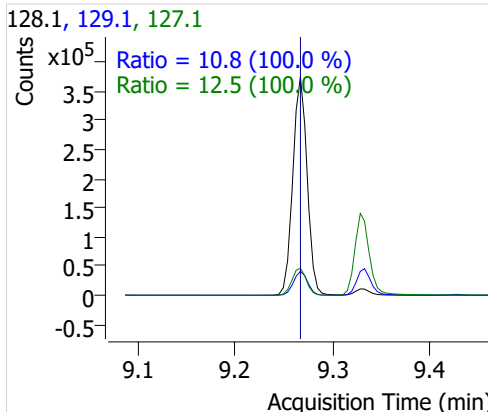
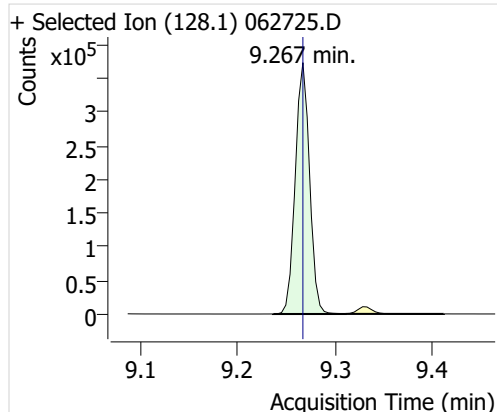


Compound	ISTD	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Units
Naphthalene	Naphthalene-d8 (IS)	9.267	381821	700252	0.5453	1040.0647	µg/L
2-Methylnaphthalene	Naphthalene-d8 (IS)	10.145	180736	700252	0.2581	994.8973	µg/L
1-Methylnaphthalene	Naphthalene-d8 (IS)	10.270	176335	700252	0.2518	1019.8298	µg/L
2-Fluorobiphenyl (surr)	Naphthalene-d8 (IS)	10.599	108574	700252	0.1551	473.9317	µg/L
2-Chloronaphthalene	Naphthalene-d8 (IS)	10.759	189895	700252	0.2712	965.9294	µg/L
Dimethyl phthalate	Naphthalene-d8 (IS)	11.091	195567	700252	0.2793	973.1198	µg/L
Acenaphthylene	Naphthalene-d8 (IS)	11.282	260780	700252	0.3724	975.7007	µg/L
Acenaphthene	Acenaphthene-d10 (IS)	11.503	184822	264944	0.6976	1008.7400	µg/L
Dibenzofuran	Acenaphthene-d10 (IS)	11.718	265868	264944	1.0035	1007.6435	µg/L
Diethylphthalate	Acenaphthene-d10 (IS)	11.972	198956	264944	0.7509	976.6065	µg/L
Fluorene	Acenaphthene-d10 (IS)	12.154	208112	264944	0.7855	1015.2683	µg/L
2,4,6-Tribromophenol	Acenaphthene-d10 (IS)	12.454	17379	264944	0.0656	966.5339	µg/L
Pentachlorophenol	Acenaphthene-d10 (IS)	13.099	12624	264944	0.0476	930.4986	µg/L
Phenanthrene	Phenanthrene-d10 (IS)	13.360	301492	470263	0.6411	1041.8372	µg/L
Anthracene	Phenanthrene-d10 (IS)	13.428	292230	470263	0.6214	999.9766	µg/L
Carbazole	Phenanthrene-d10 (IS)	13.626	266274	470263	0.5662	985.0714	µg/L
Di-n-butyl phthalate	Phenanthrene-d10 (IS)	14.021	301276	470263	0.6407	962.7652	µg/L
Fluoranthene	Phenanthrene-d10 (IS)	14.885	304623	470263	0.6478	975.8712	µg/L
Pyrene	Phenanthrene-d10 (IS)	15.221	337268	470263	0.7172	1013.3795	µg/L
Terphenyl-d14 (surr)	Phenanthrene-d10 (IS)	15.432	94483	470263	0.2009	481.8208	µg/L
Benzyl Butyl phthalate	Phenanthrene-d10 (IS)	16.328	104051	470263	0.2213	995.6695	µg/L
bis (2-Ethylhexyl) adipate	Phenanthrene-d10 (IS)	16.480	85502	470263	0.1818	919.0138	µg/L
Benzo (a) anthracene	Phenanthrene-d10 (IS)	17.522	272088	470263	0.5786	960.6073	µg/L
bis(2-Ethylhexyl) phthalate	Chrysene-d12 (IS)	17.558	184137	395428	0.4657	975.8772	µg/L
Chrysene	Chrysene-d12 (IS)	17.594	328878	395428	0.8317	1045.9443	µg/L
Di-n-octyl phthalate	Chrysene-d12 (IS)	18.715	226826	395428	0.5736	988.0682	µg/L
benzo (b) fluoranthene	Chrysene-d12 (IS)	19.347	270088	395428	0.6830	951.7372	µg/L
benzo (k) fluoranthene	Chrysene-d12 (IS)	19.383	326347	395428	0.8253	1011.9640	µg/L
benzo (a) pyrene	Chrysene-d12 (IS)	19.819	239905	395428	0.6067	970.9757	µg/L
Indeno(1,2,3-cd)pyrene	Perylene-d12 (IS)	21.651	304021	443932	0.6848	967.6665	µg/L

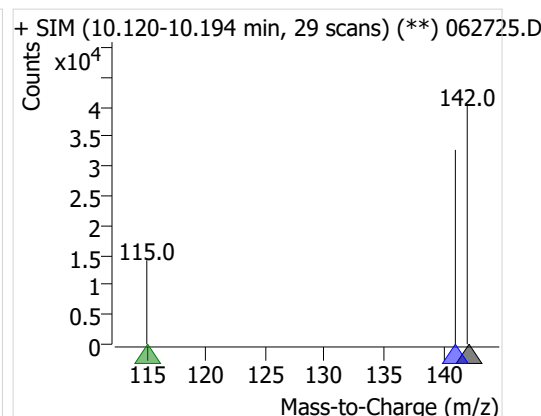
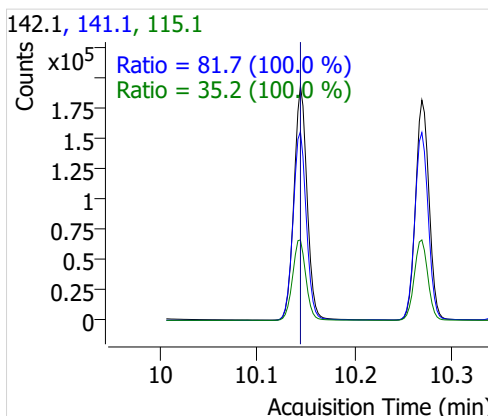
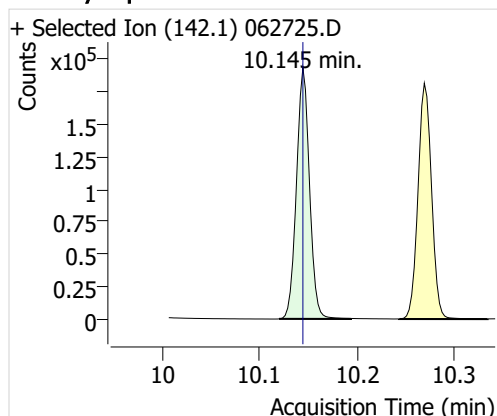
Quantitative Analysis Complete Report

Compound	ISTD	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Units
Dibenz (a,h) anthracene	Perylene-d12 (IS)	21.666	257002	443932	0.5789	975.4046	µg/L
Benzo (g,h,i) perylene	Perylene-d12 (IS)	22.153	259340	443932	0.5842	969.1536	µg/L

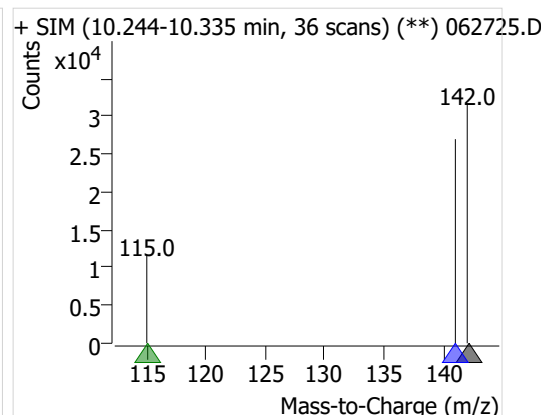
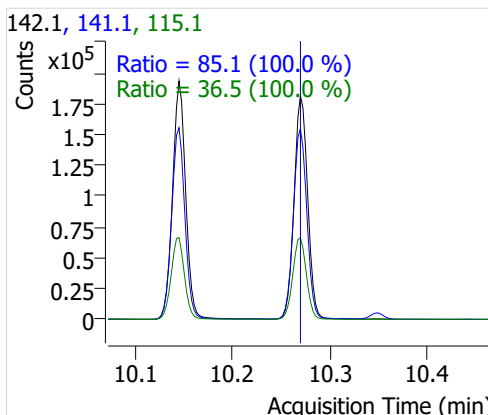
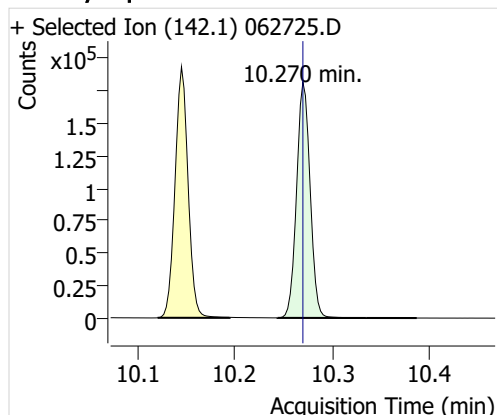
Naphthalene



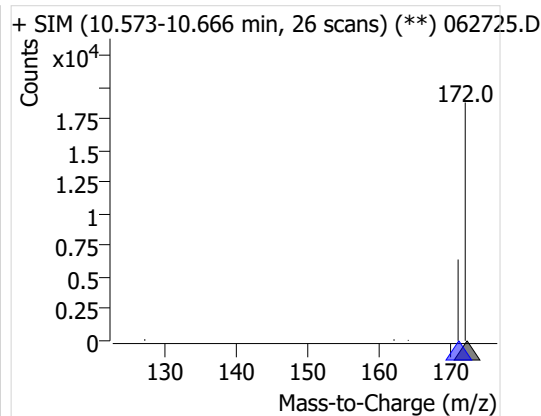
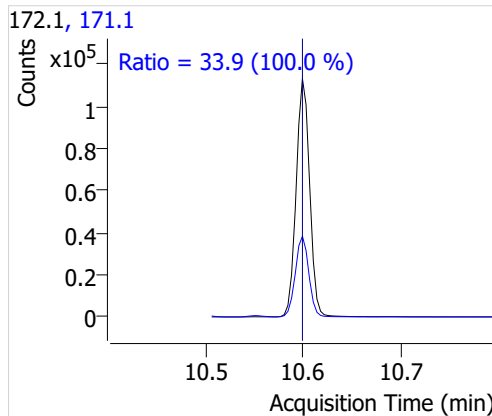
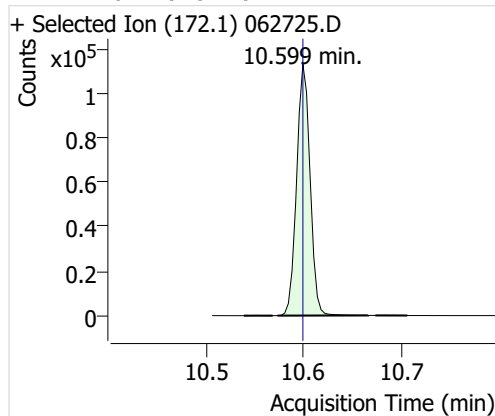
2-Methylnaphthalene



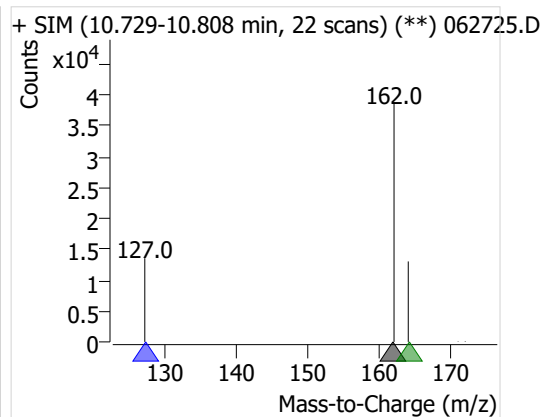
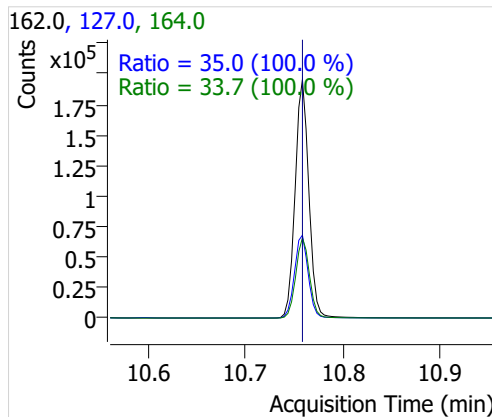
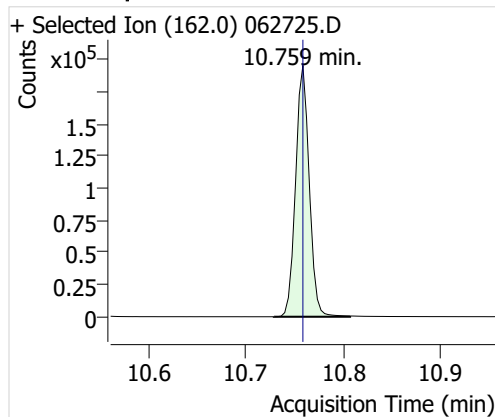
1-Methylnaphthalene



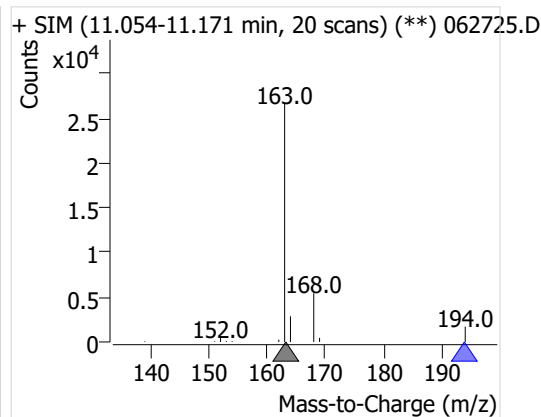
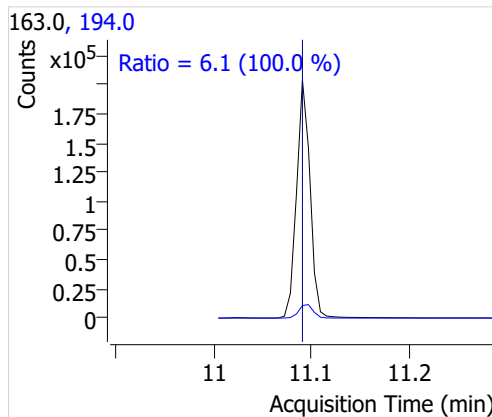
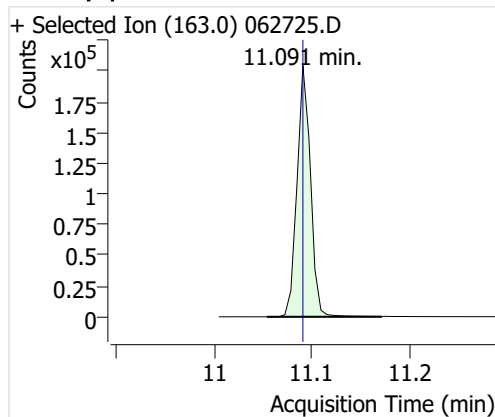
2-Fluorobiphenyl (surr)



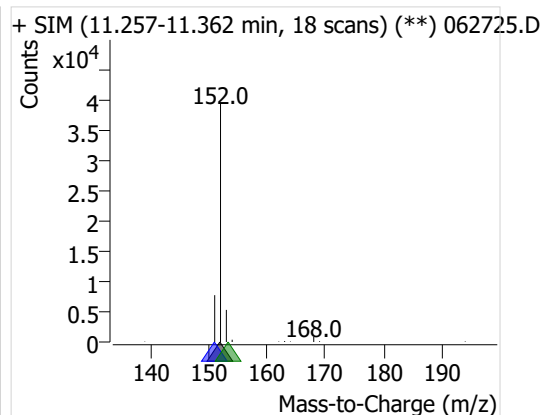
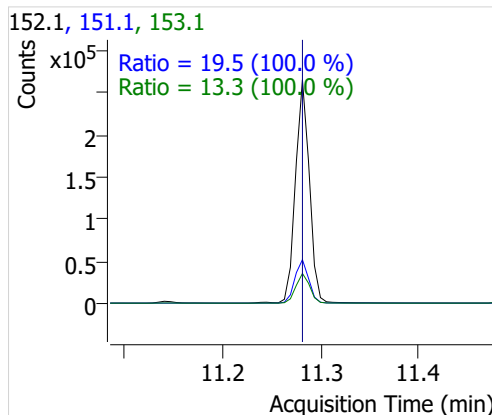
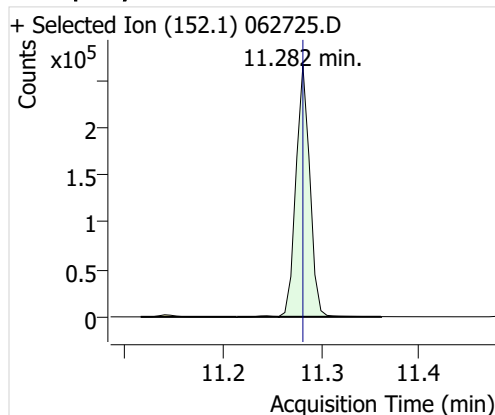
2-Chloronaphthalene



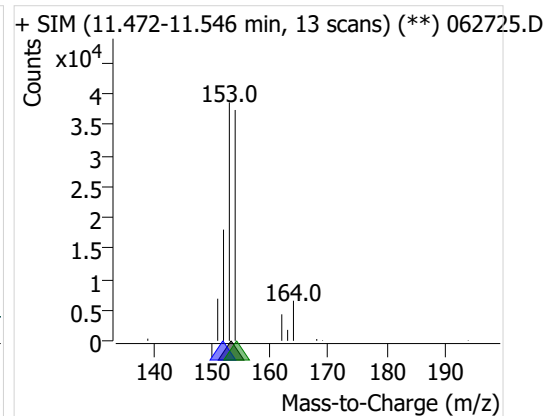
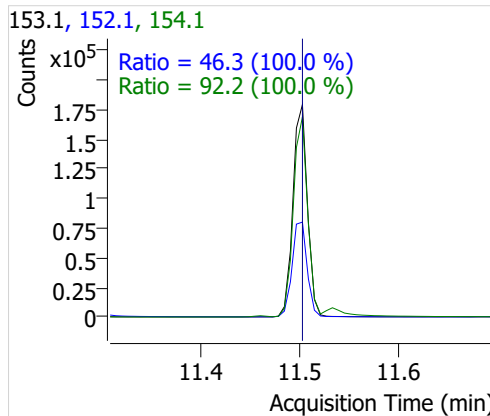
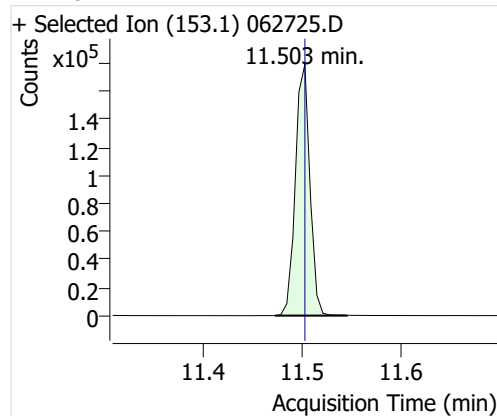
Dimethyl phthalate



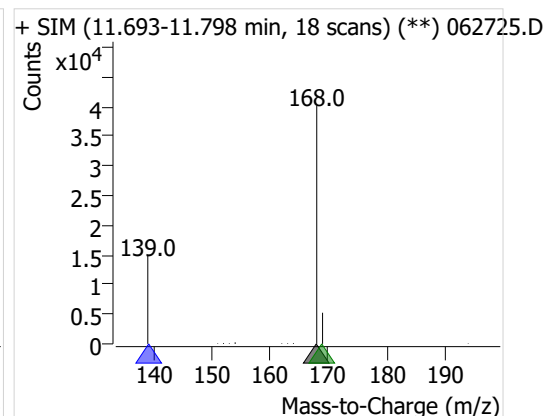
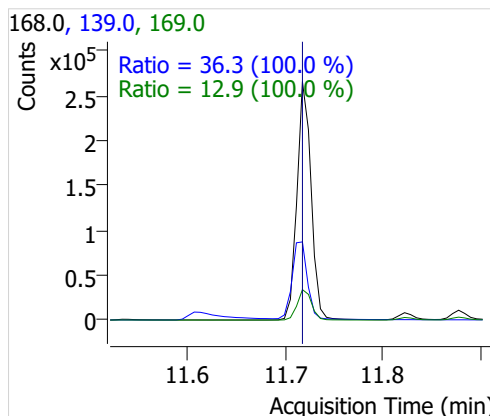
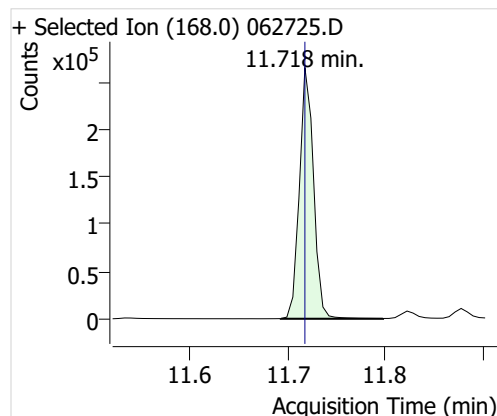
Acenaphthylene



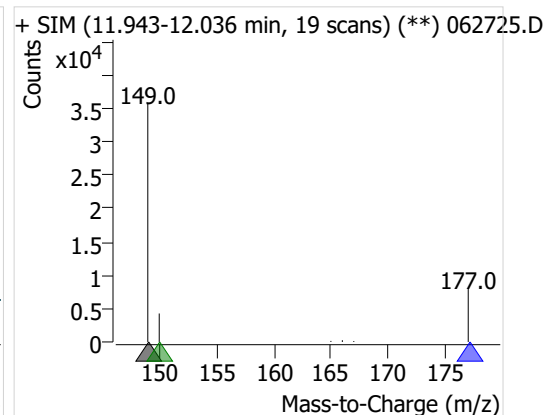
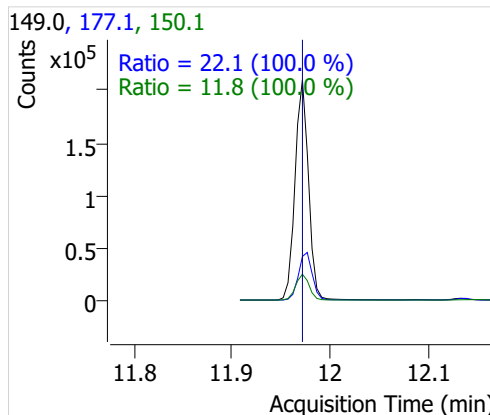
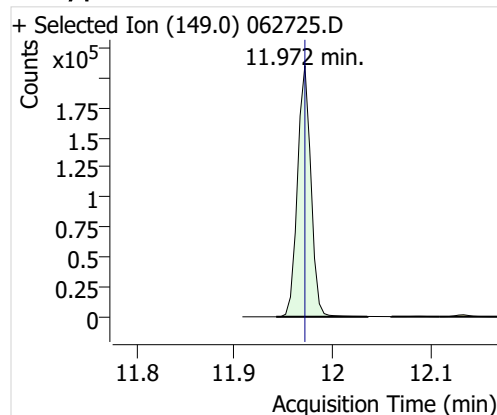
Acenaphthene



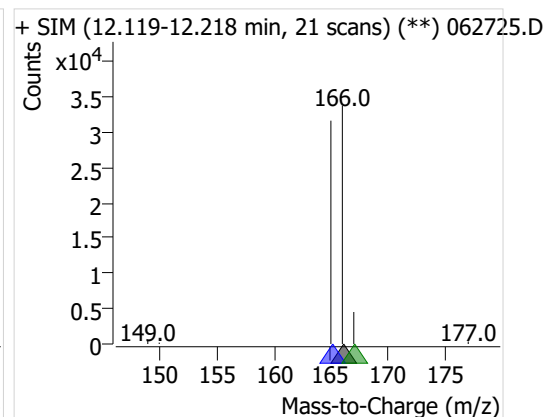
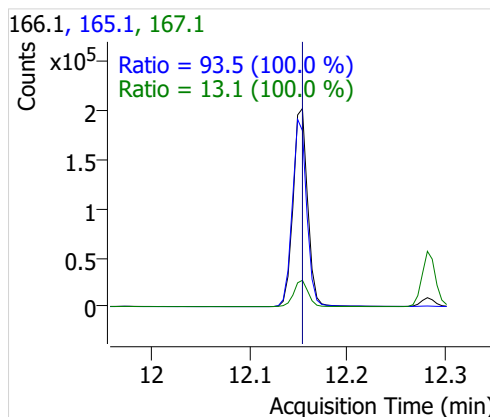
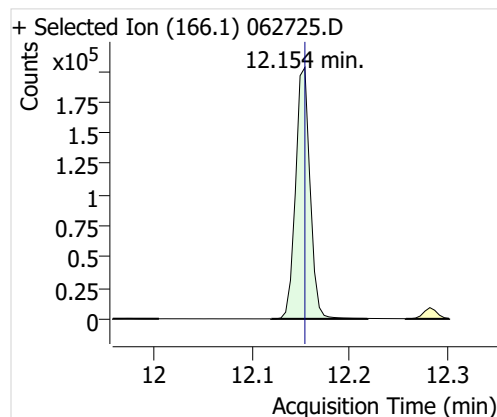
Dibenzofuran



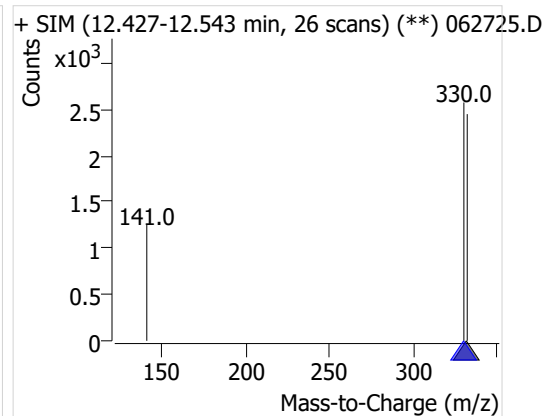
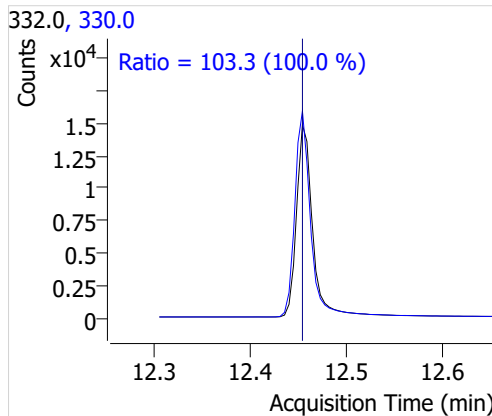
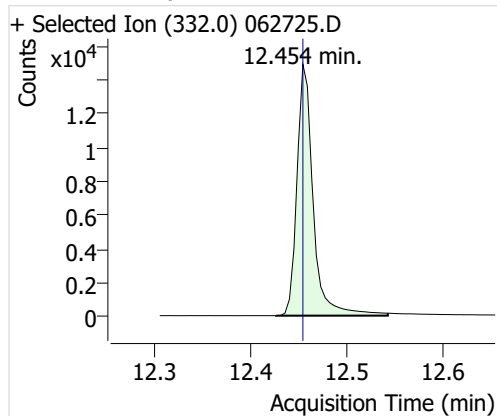
Diethylphthalate



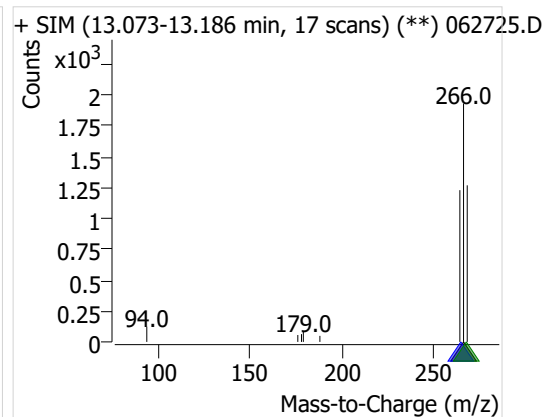
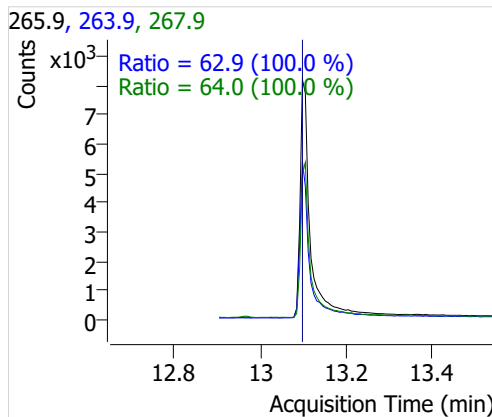
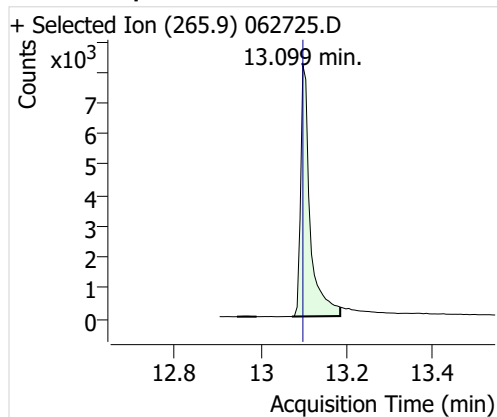
Fluorene



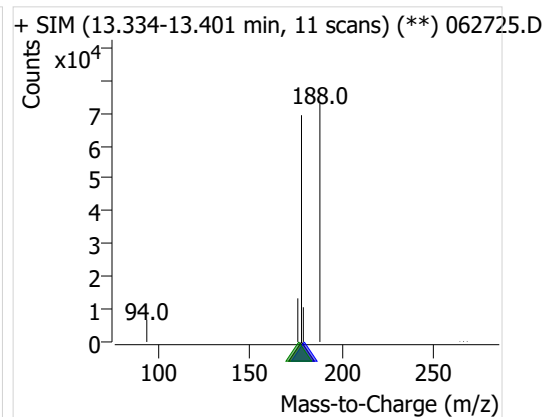
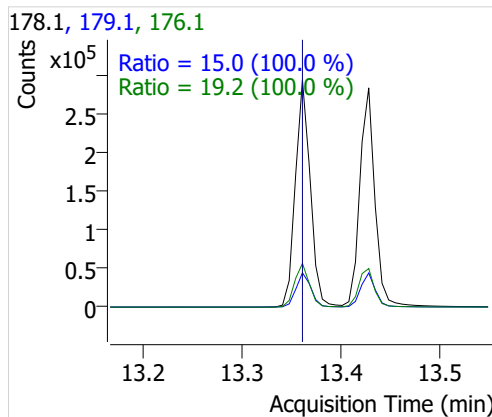
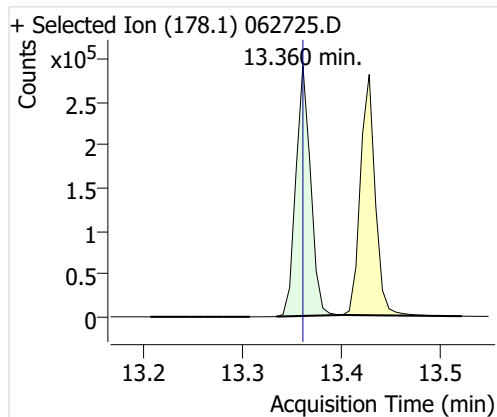
2,4,6-Tribromophenol



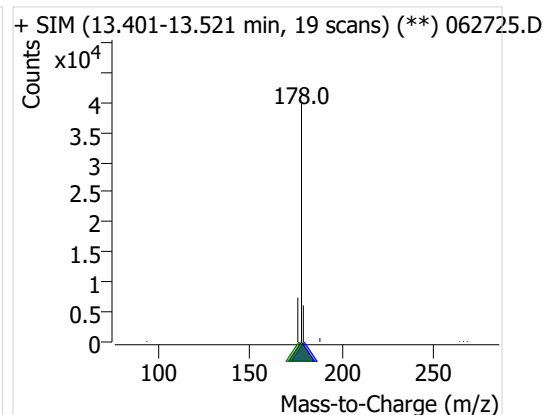
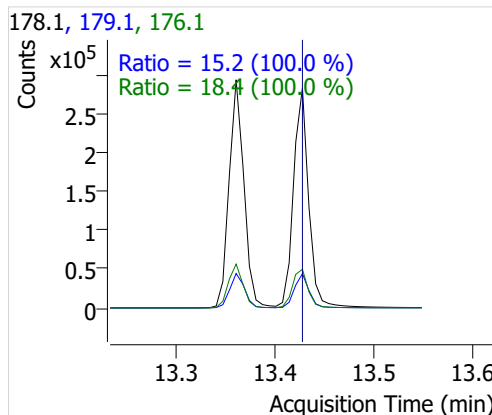
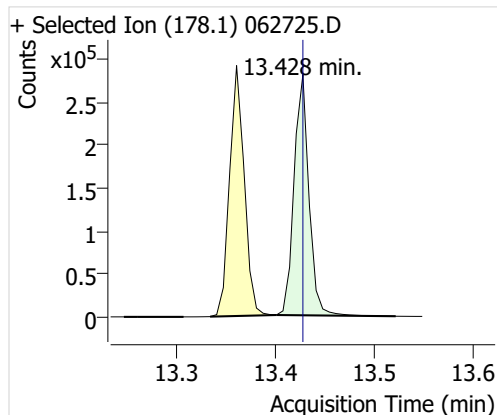
Pentachlorophenol



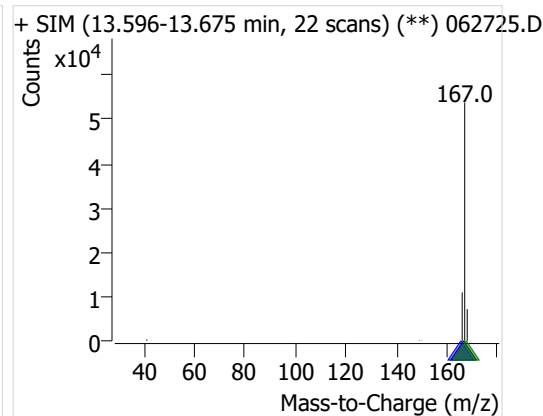
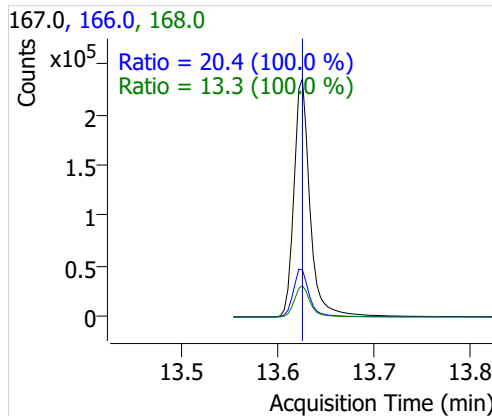
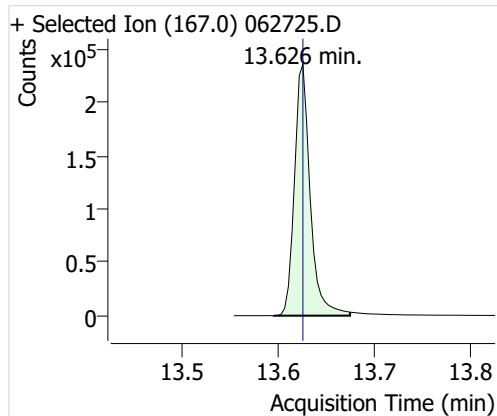
Phenanthrene



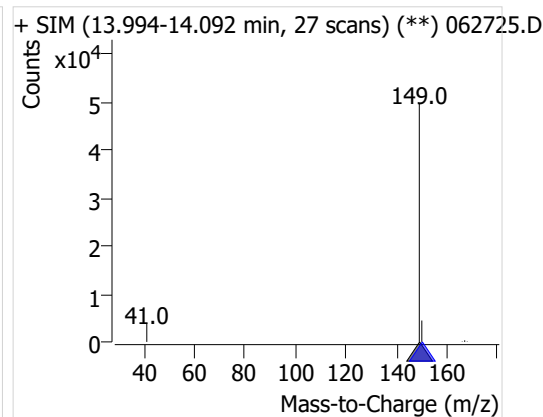
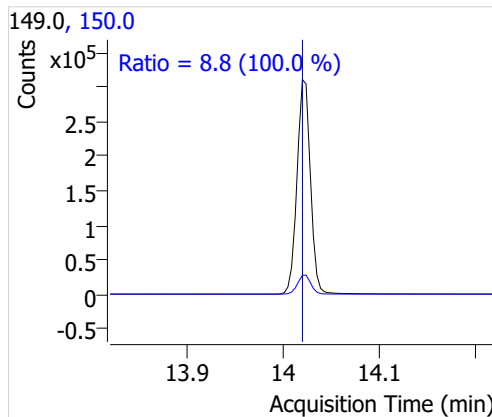
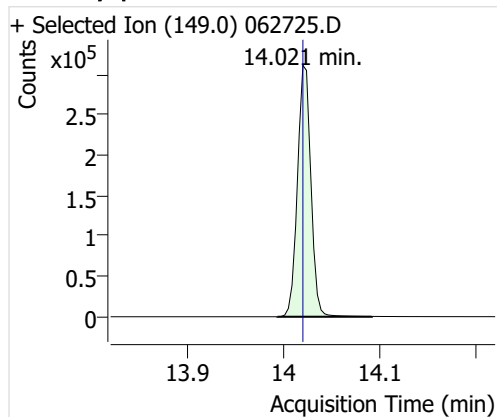
Anthracene



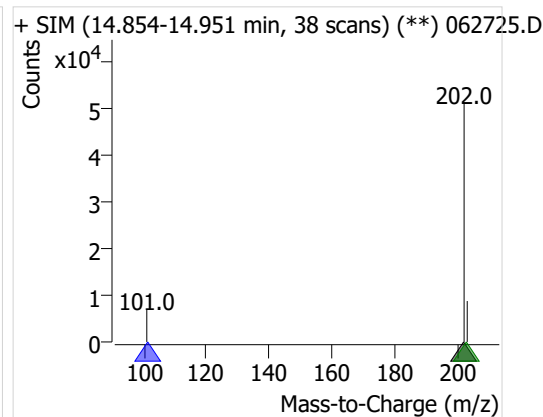
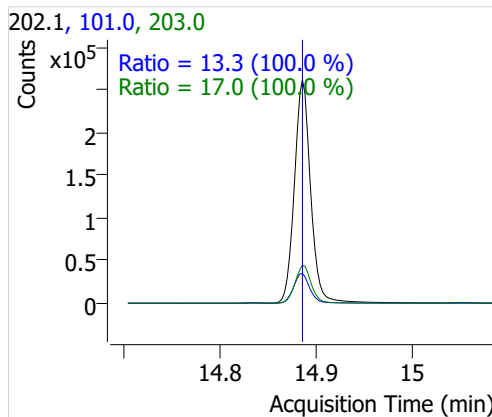
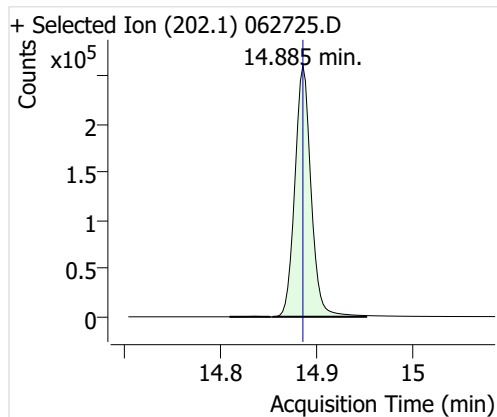
Carbazole



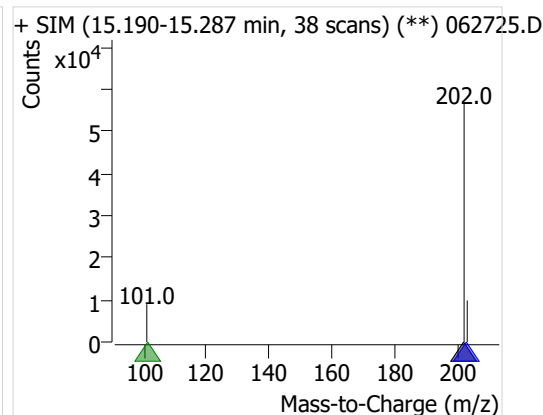
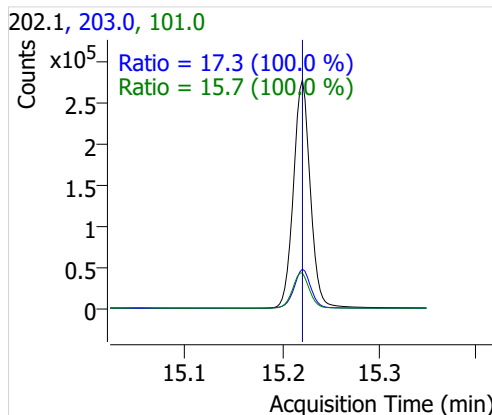
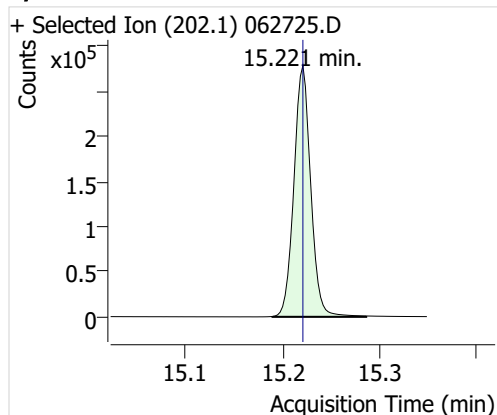
Di-n-butyl phthalate



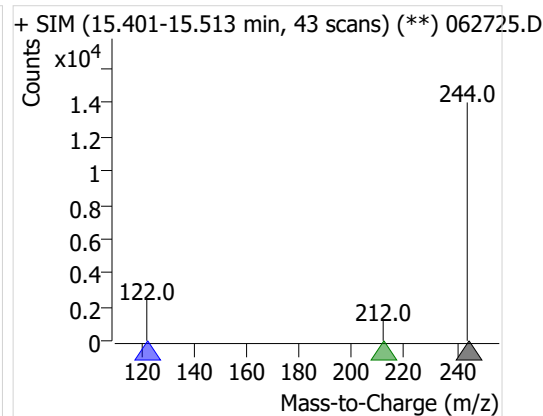
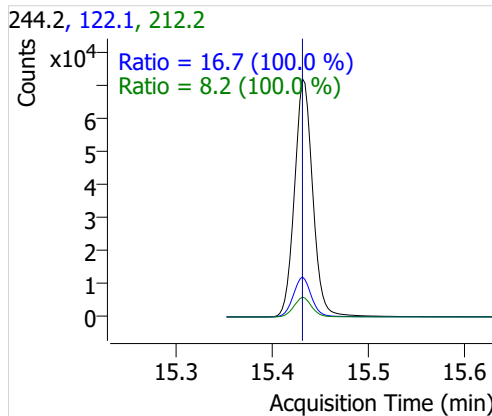
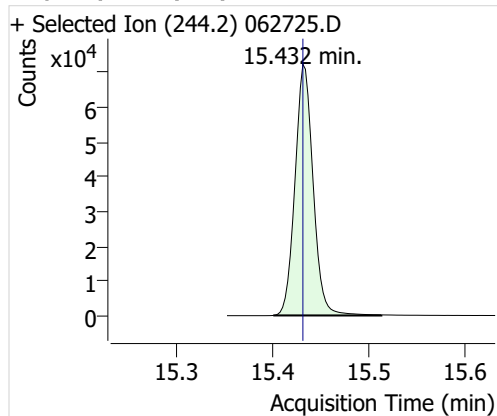
Fluoranthene



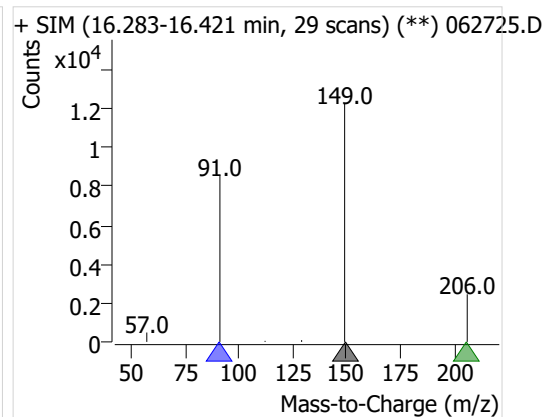
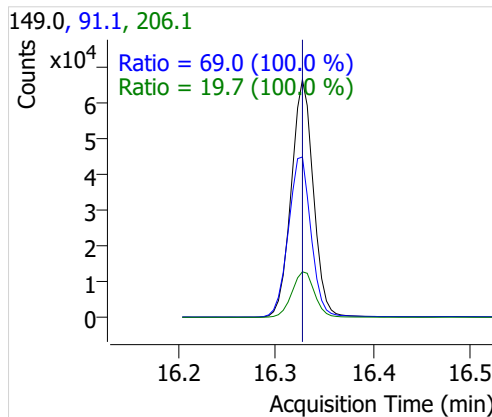
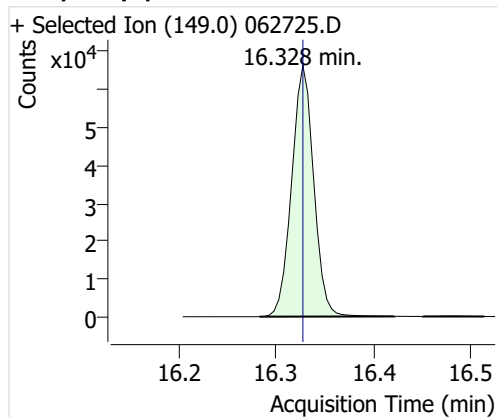
Pyrene



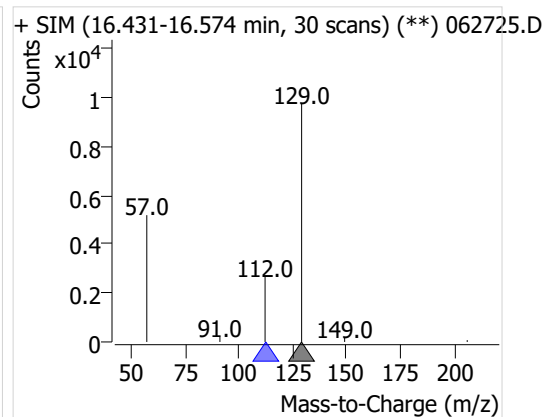
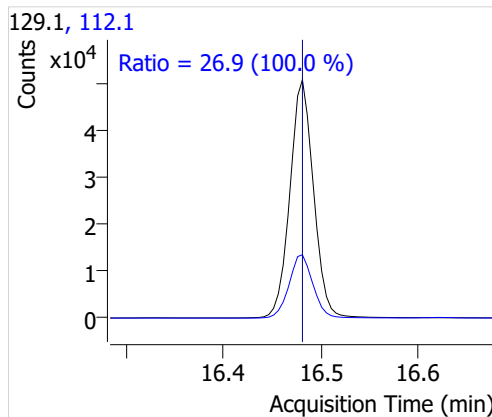
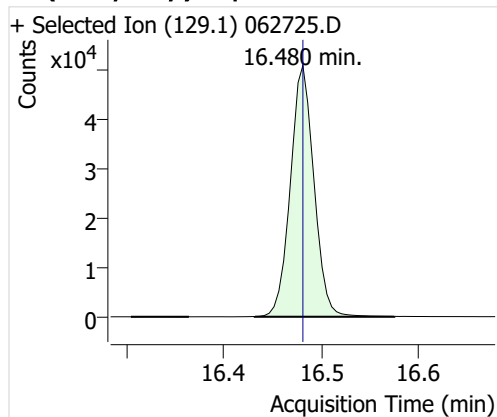
Terphenyl-d14 (surr)



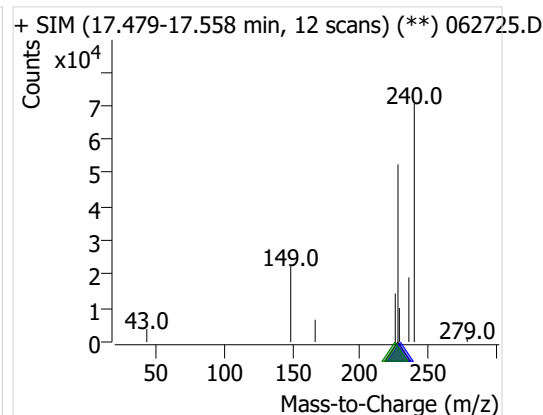
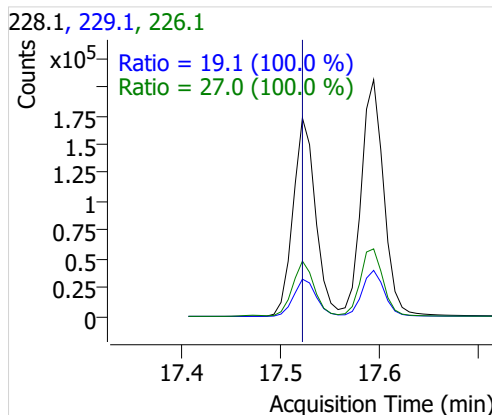
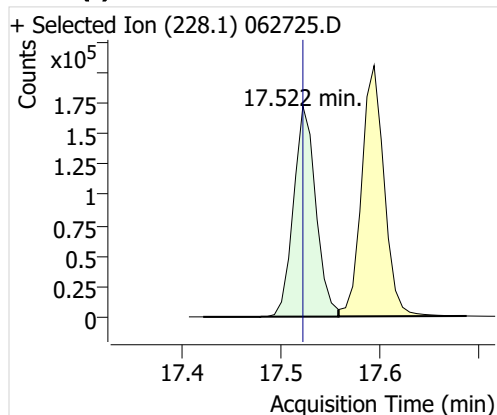
Benzyl Butyl phthalate



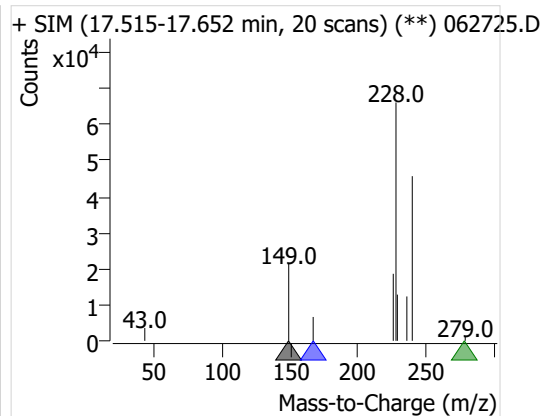
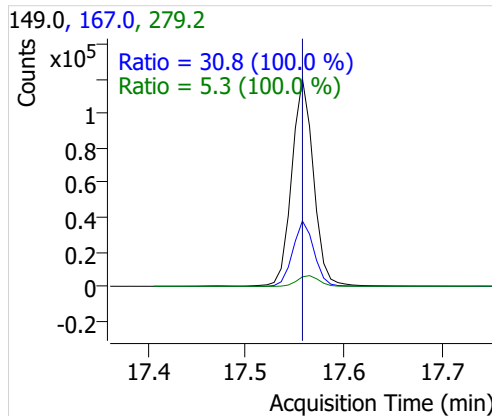
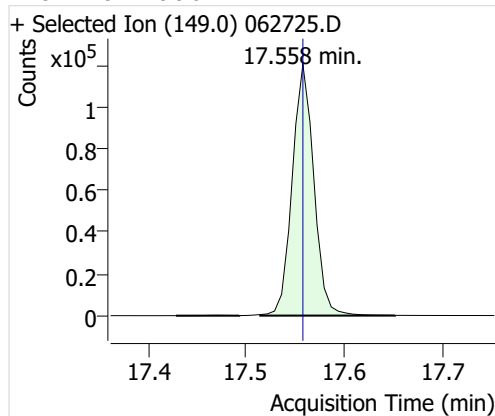
bis (2-Ethylhexyl) adipate



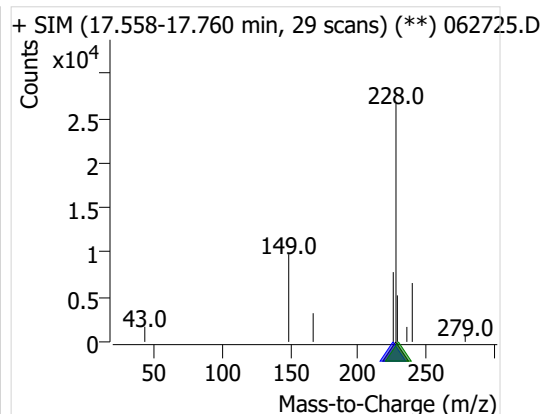
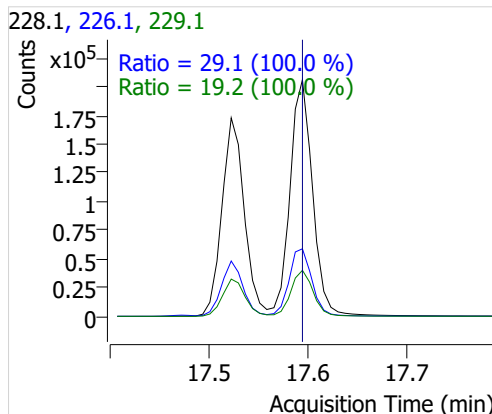
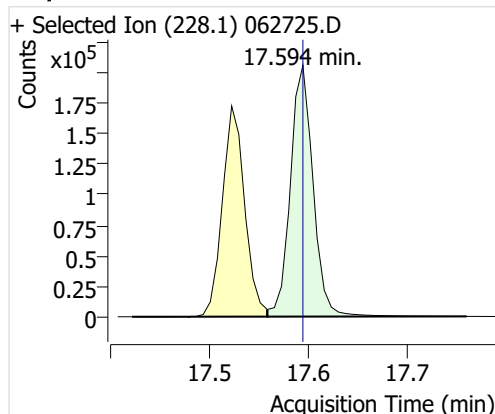
Benzo (a) anthracene



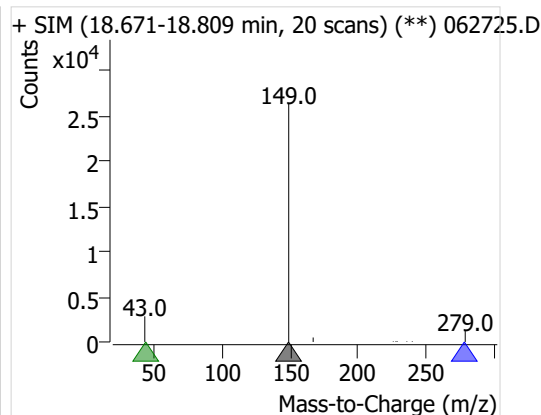
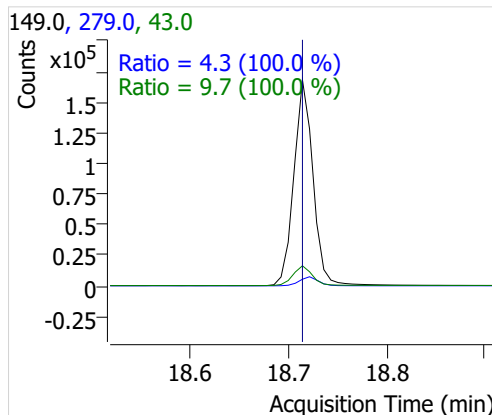
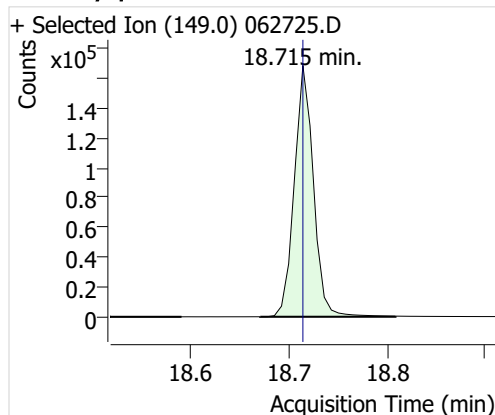
bis(2-Ethylhexyl) phthalate



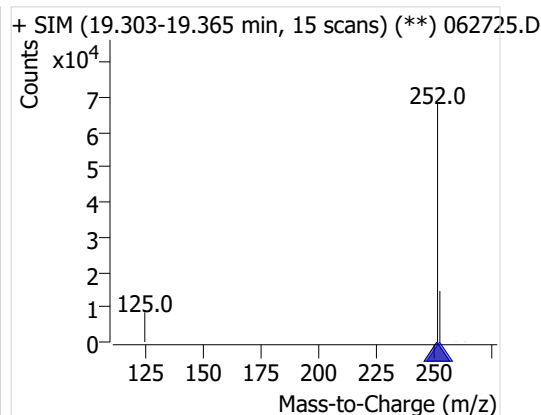
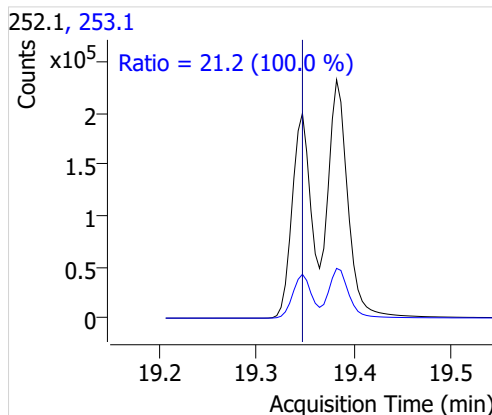
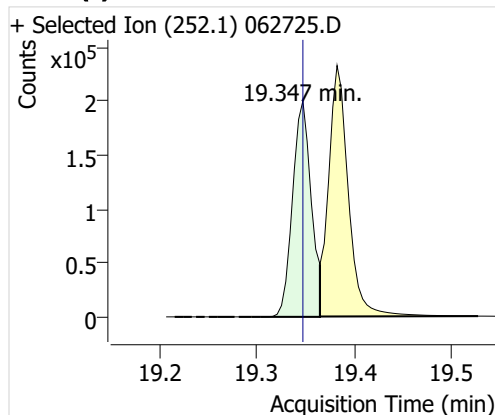
Chrysene



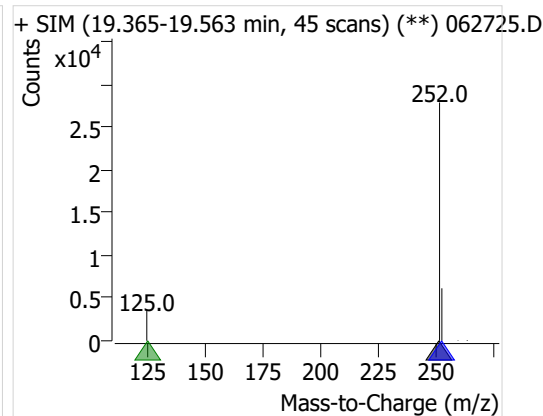
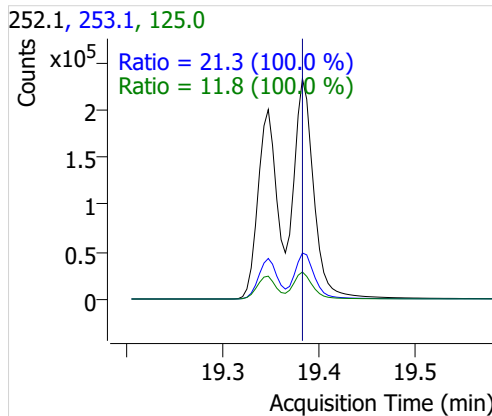
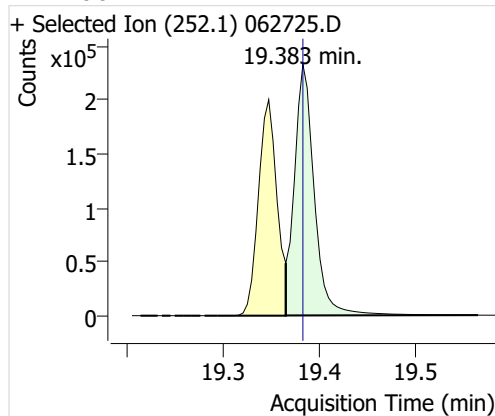
Di-n-octyl phthalate



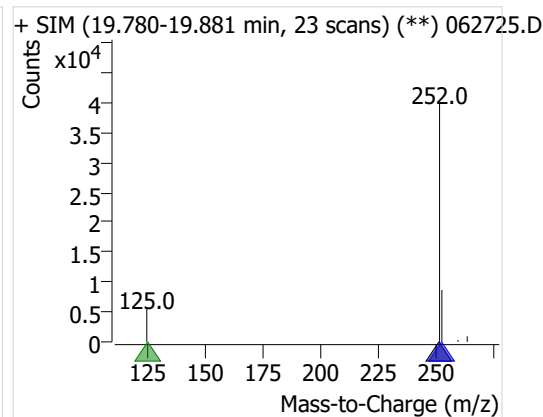
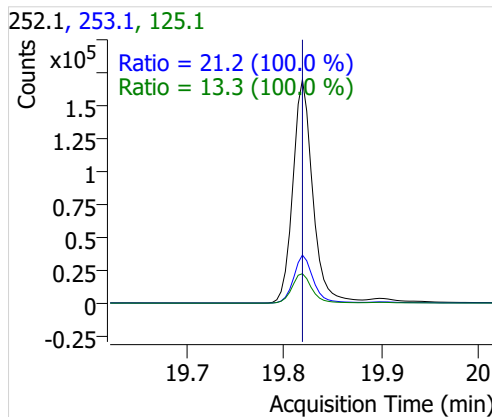
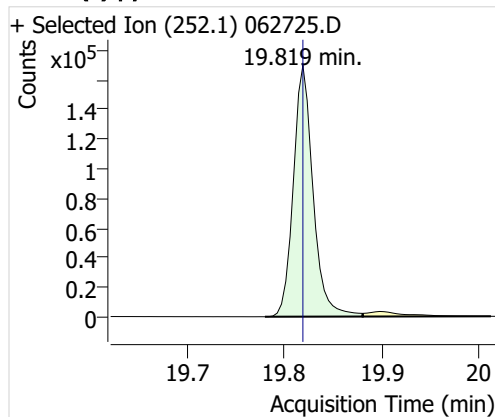
benzo (b) fluoranthene



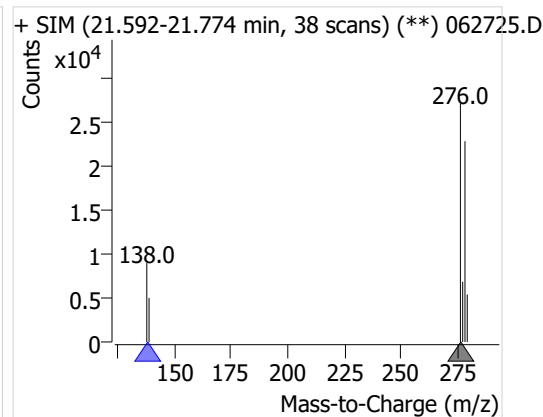
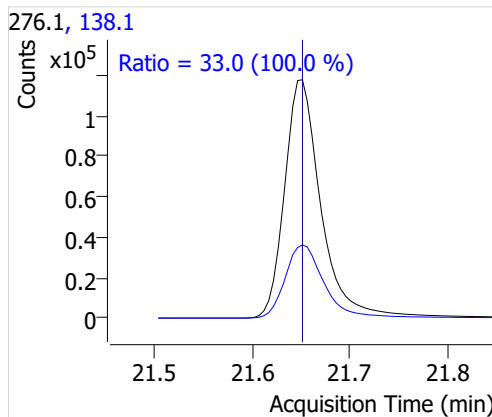
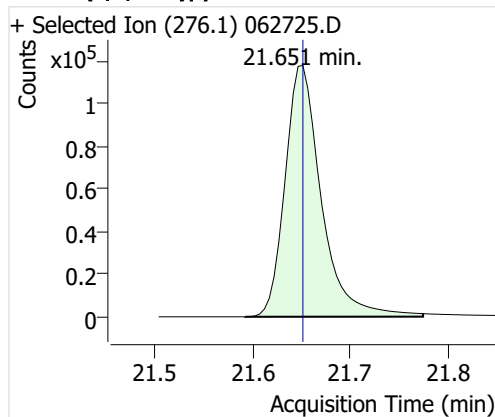
benzo (k) fluoranthene



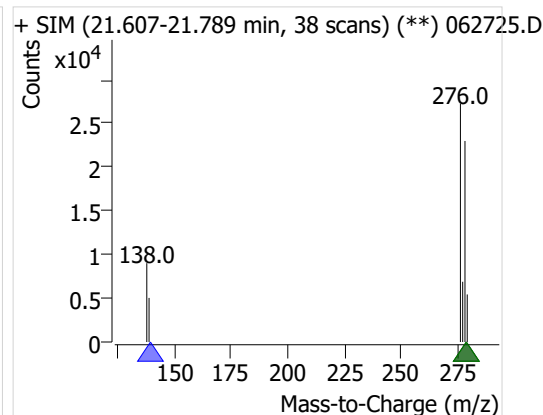
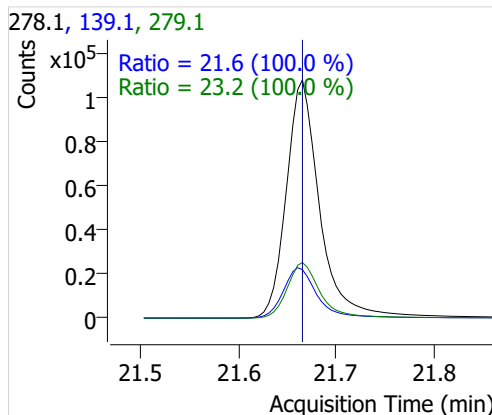
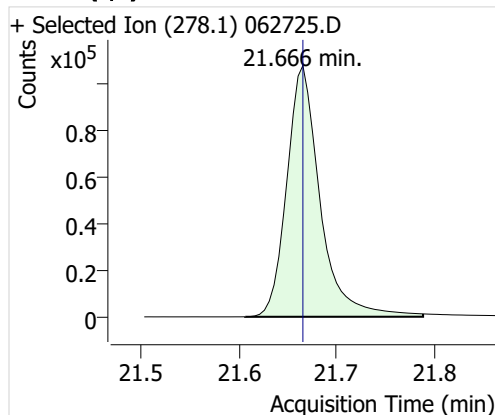
benzo (a) pyrene



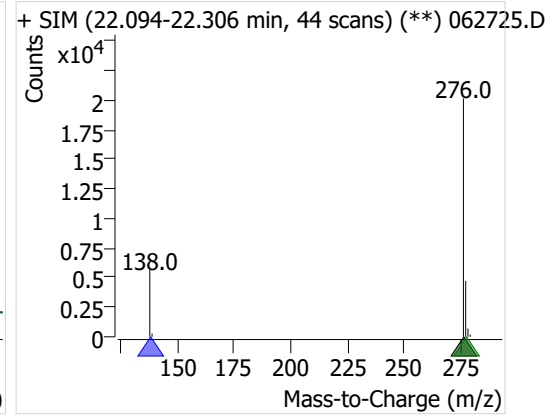
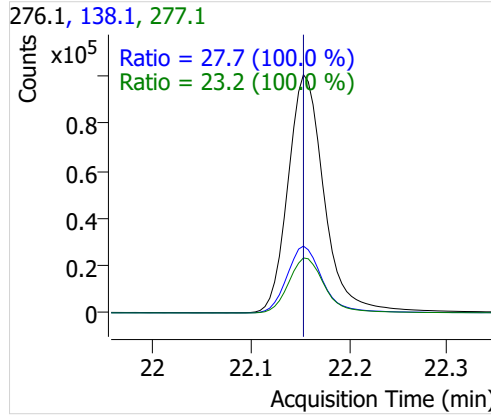
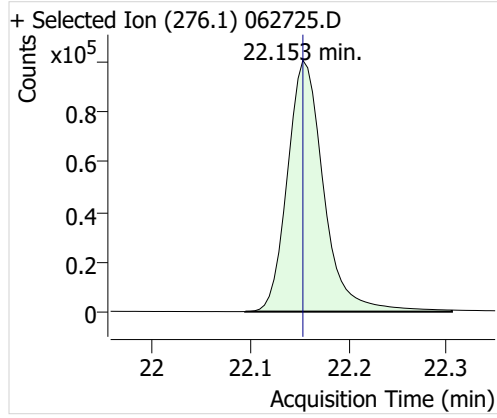
Indeno(1,2,3-cd)pyrene



Dibenz (a,h) anthracene



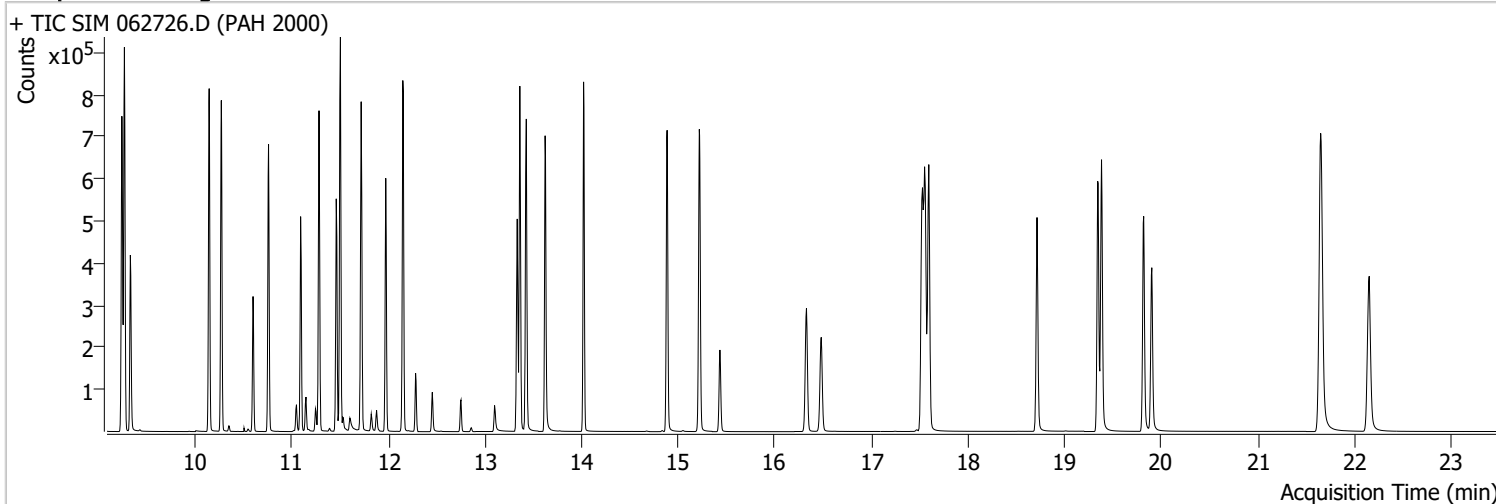
Benzo (g,h,i) perylene



Quantitative Analysis Complete Report

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Analysis Time	6/29/2023 12:01 PM	Reporter Name	FA\GC14
Report Time	6/29/2023 12:02:19 PM	Batch State	Processed
Last Calib Update	6/29/2023 12:00 PM	Quant Report Version	10.0
Quant Batch Version	10.0		
Acq. Time	6/27/2023 9:28 PM	Data File	062726.D
Sample Type	Cal	Sample Name	PAH 2000
Dilution	1	Acq. Method	8270E_SIM_625

Sample Chromatogram

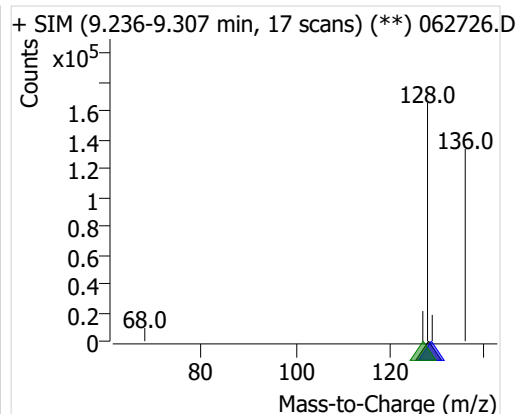
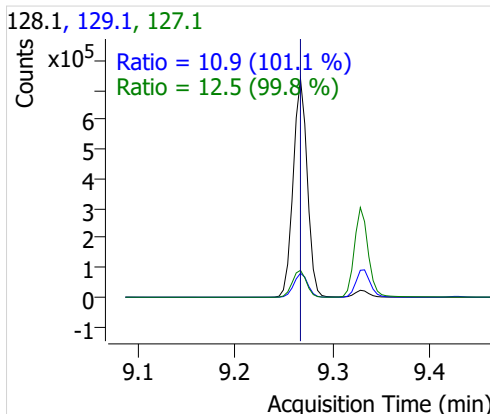
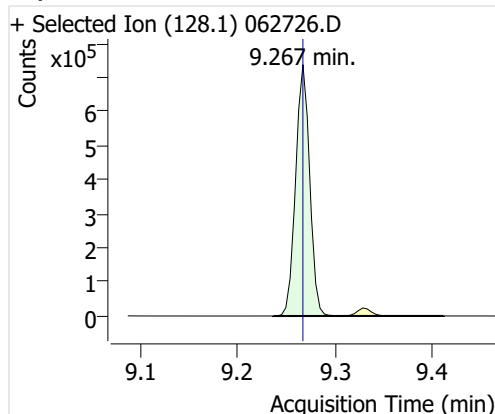


Compound	ISTD	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Units
Naphthalene	Naphthalene-d8 (IS)	9.267	742119	680146	1.0911	2081.2614	µg/L
2-Methylnaphthalene	Naphthalene-d8 (IS)	10.145	362756	680146	0.5334	2055.8913	µg/L
1-Methylnaphthalene	Naphthalene-d8 (IS)	10.270	346913	680146	0.5101	2065.6744	µg/L
2-Fluorobiphenyl (surr)	Naphthalene-d8 (IS)	10.599	222189	680146	0.3267	998.5342	µg/L
2-Chloronaphthalene	Naphthalene-d8 (IS)	10.759	387559	680146	0.5698	2029.6541	µg/L
Dimethyl phthalate	Naphthalene-d8 (IS)	11.091	413833	680146	0.6084	2069.1363	µg/L
Acenaphthylene	Naphthalene-d8 (IS)	11.282	546343	680146	0.8033	2069.4271	µg/L
Acenaphthene	Acenaphthene-d10 (IS)	11.503	370515	260982	1.4197	2052.9390	µg/L
Dibenzofuran	Acenaphthene-d10 (IS)	11.718	541645	260982	2.0754	2084.0057	µg/L
Diethylphthalate	Acenaphthene-d10 (IS)	11.972	416375	260982	1.5954	2055.5371	µg/L
Fluorene	Acenaphthene-d10 (IS)	12.154	416297	260982	1.5951	2061.7303	µg/L
2,4,6-Tribromophenol	Acenaphthene-d10 (IS)	12.454	38793	260982	0.1486	2067.3570	µg/L
Pentachlorophenol	Acenaphthene-d10 (IS)	13.099	34886	260982	0.1337	2098.9761	µg/L
Phenanthrene	Phenanthrene-d10 (IS)	13.361	592651	460595	1.2867	2090.9561	µg/L
Anthracene	Phenanthrene-d10 (IS)	13.428	596225	460595	1.2945	2083.0373	µg/L
Carbazole	Phenanthrene-d10 (IS)	13.623	556681	460595	1.2086	2102.6523	µg/L
Di-n-butyl phthalate	Phenanthrene-d10 (IS)	14.021	662471	460595	1.4383	2092.5937	µg/L
Fluoranthene	Phenanthrene-d10 (IS)	14.885	631548	460595	1.3712	2065.6547	µg/L
Pyrene	Phenanthrene-d10 (IS)	15.219	685861	460595	1.4891	2104.0458	µg/L
Terphenyl-d14 (surr)	Phenanthrene-d10 (IS)	15.432	195699	460595	0.4249	1018.9288	µg/L
Benzyl Butyl phthalate	Phenanthrene-d10 (IS)	16.328	247946	460595	0.5383	2153.5033	µg/L
bis (2-Ethylhexyl) adipate	Phenanthrene-d10 (IS)	16.481	214060	460595	0.4647	2129.0511	µg/L
Benzo (a) anthracene	Phenanthrene-d10 (IS)	17.522	589960	460595	1.2809	2076.9934	µg/L
bis(2-Ethylhexyl) phthalate	Chrysene-d12 (IS)	17.558	417506	398975	1.0464	2074.0360	µg/L
Chrysene	Chrysene-d12 (IS)	17.594	645009	398975	1.6167	2033.1102	µg/L
Di-n-octyl phthalate	Chrysene-d12 (IS)	18.715	568967	398975	1.4261	2121.0535	µg/L
benzo (b) fluoranthene	Chrysene-d12 (IS)	19.343	609292	398975	1.5271	2083.6400	µg/L
benzo (k) fluoranthene	Chrysene-d12 (IS)	19.383	653930	398975	1.6390	2009.7318	µg/L
benzo (a) pyrene	Chrysene-d12 (IS)	19.819	530149	398975	1.3288	2061.4310	µg/L
Indeno(1,2,3-cd)pyrene	Perylene-d12 (IS)	21.646	660335	442161	1.4934	2068.4756	µg/L

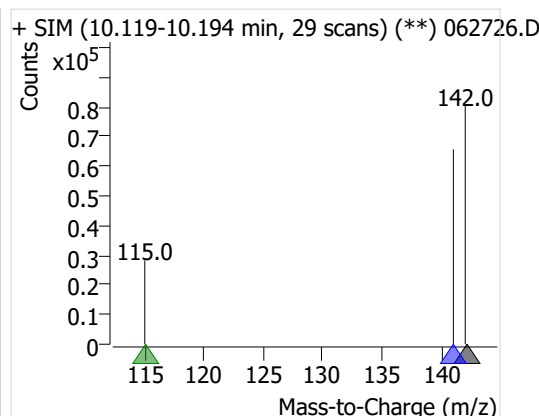
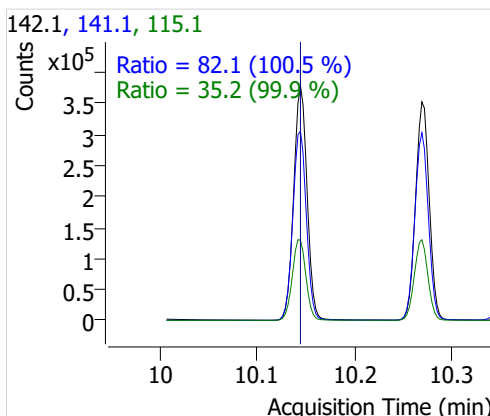
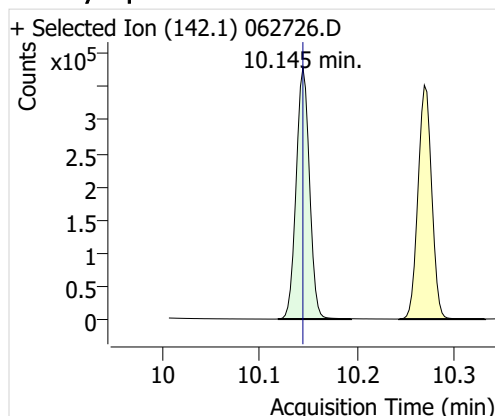
Quantitative Analysis Complete Report

Compound	ISTD	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Units
Dibenz (a,h) anthracene	Perylene-d12 (IS)	21.661	549516	442161	1.2428	2068.9995	µg/L
Benzo (g,h,i) perylene	Perylene-d12 (IS)	22.153	561476	442161	1.2698	2071.7251	µg/L

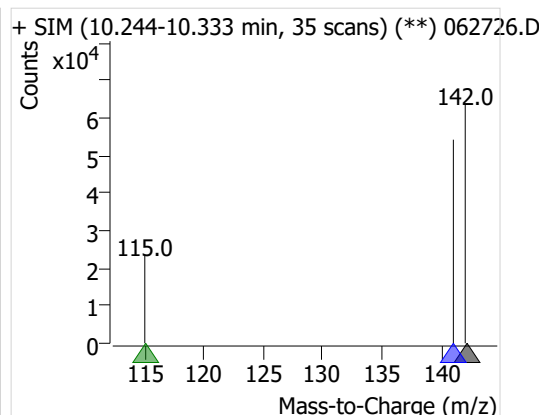
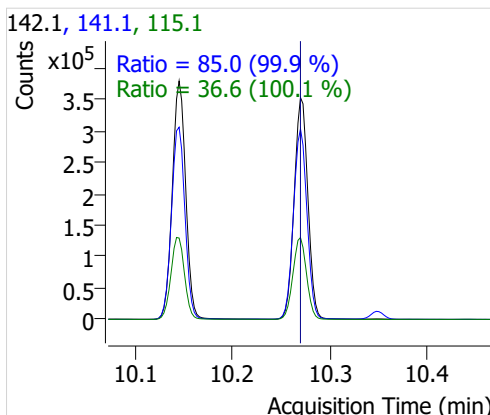
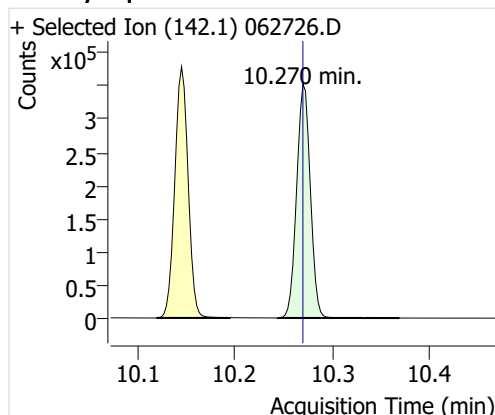
Naphthalene



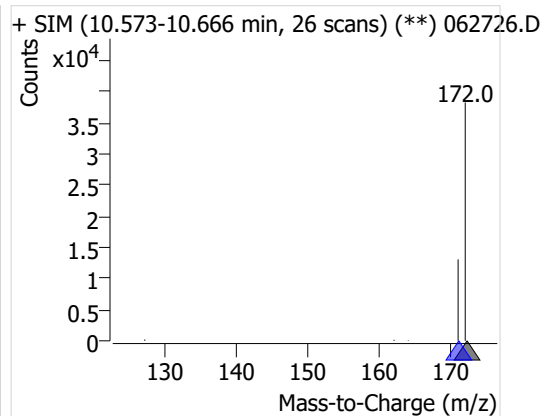
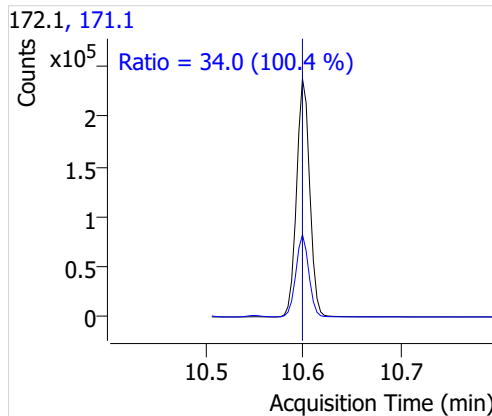
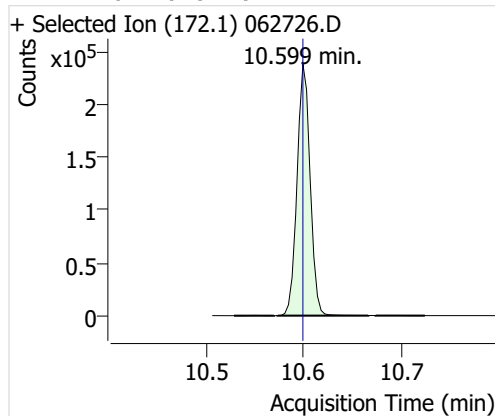
2-Methylnaphthalene



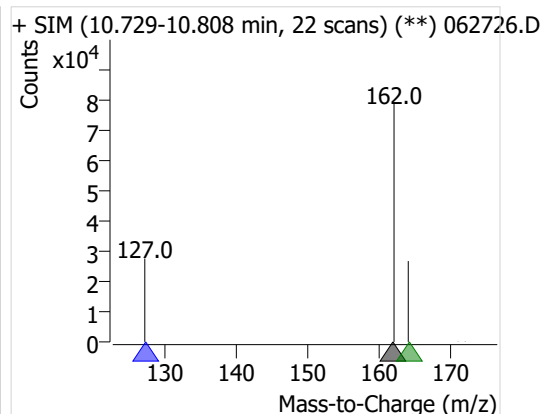
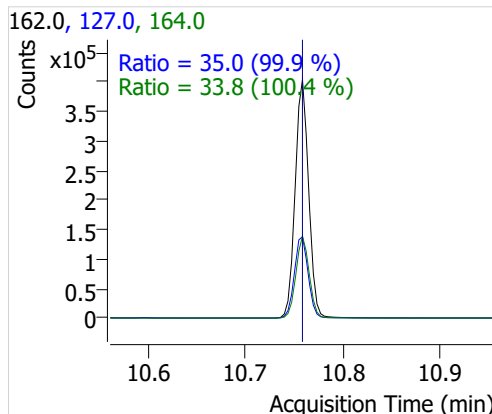
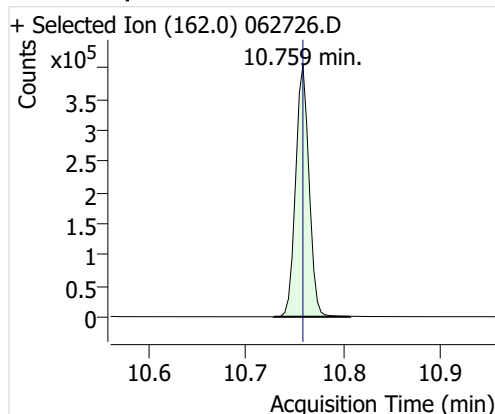
1-Methylnaphthalene



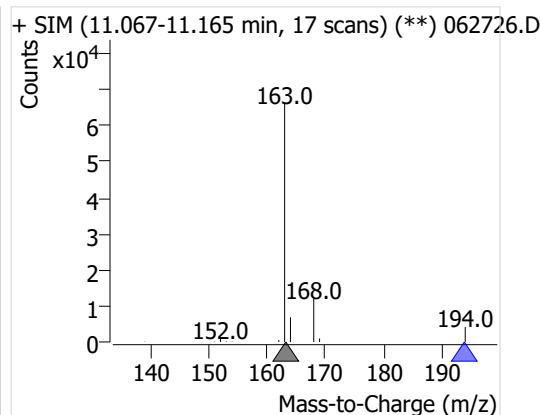
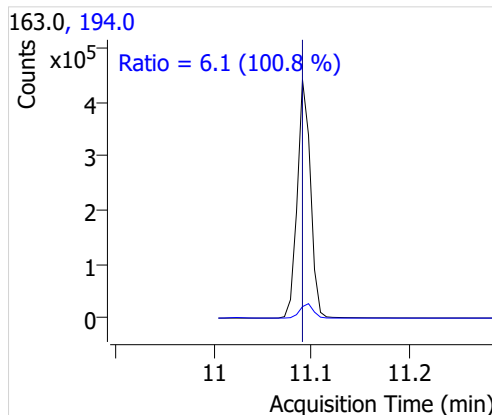
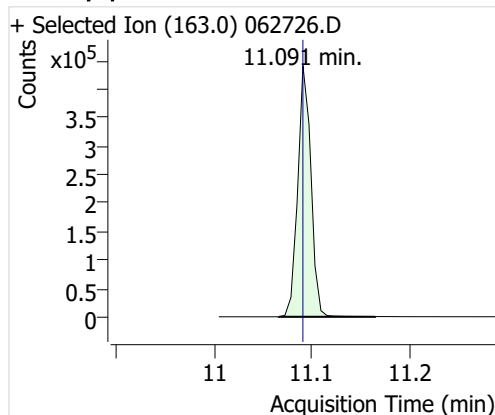
2-Fluorobiphenyl (surr)



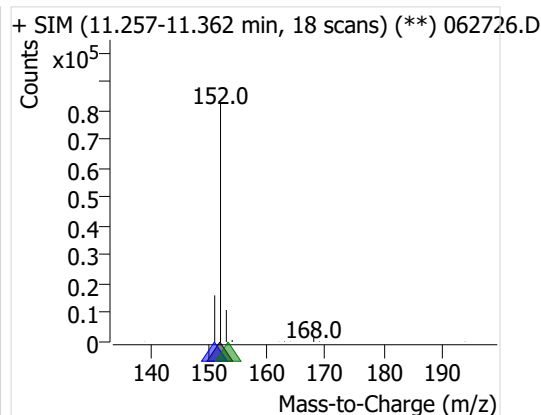
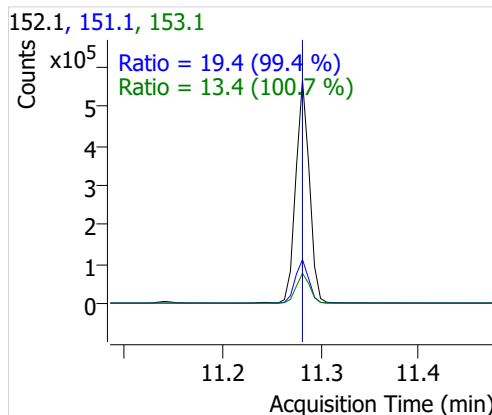
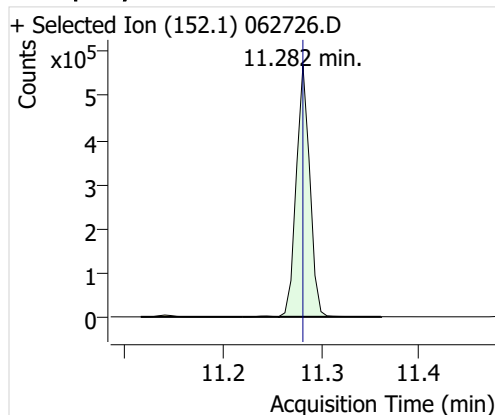
2-Chloronaphthalene



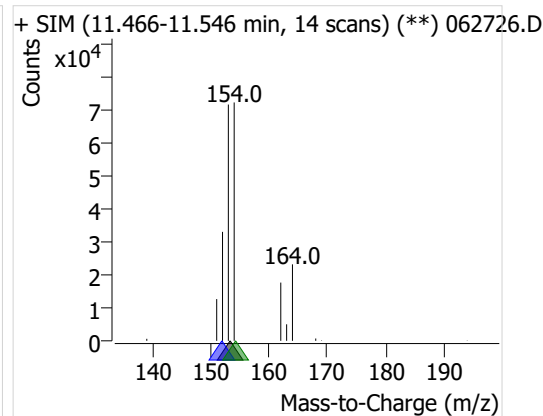
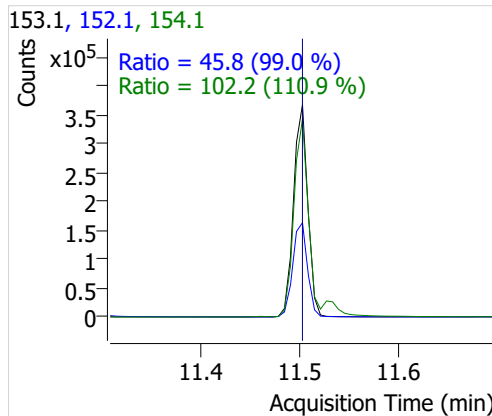
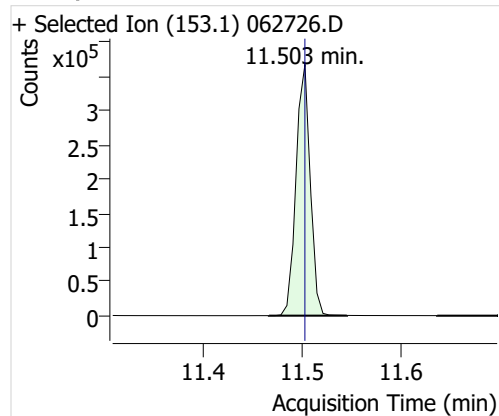
Dimethyl phthalate



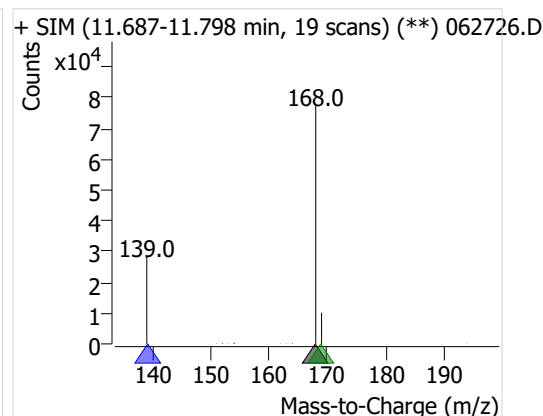
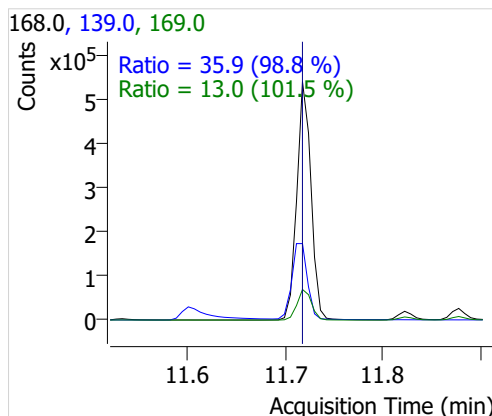
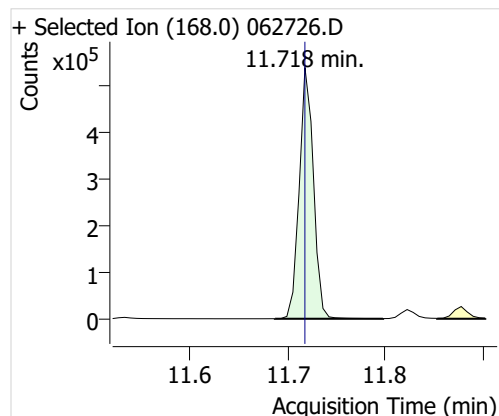
Acenaphthylene



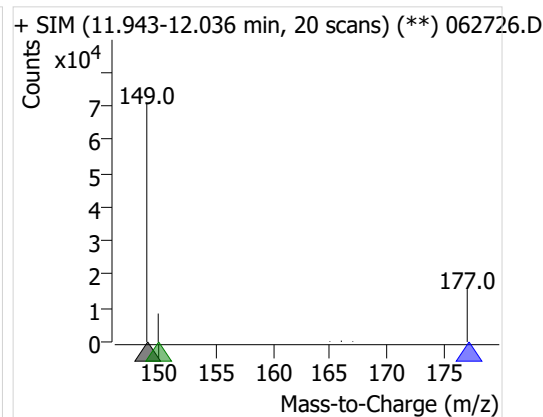
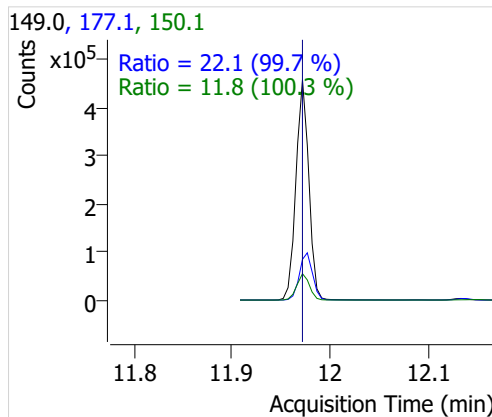
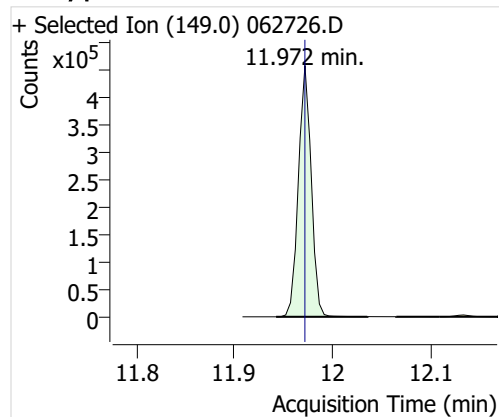
Acenaphthene



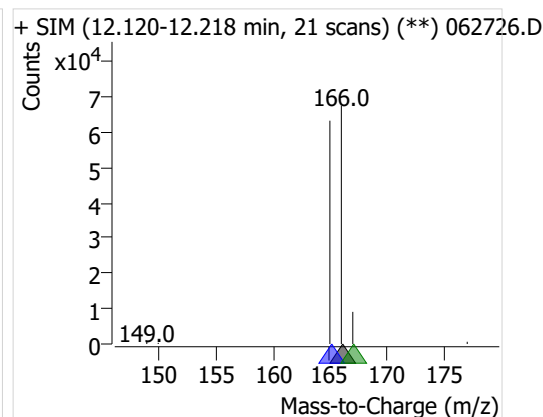
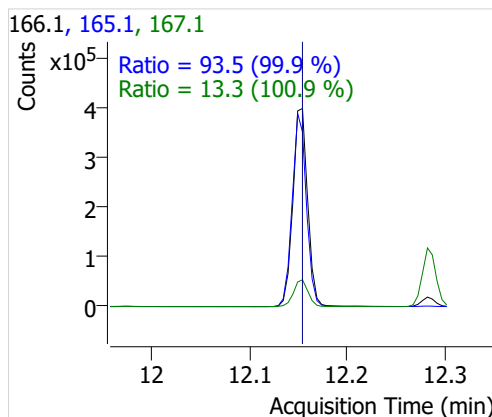
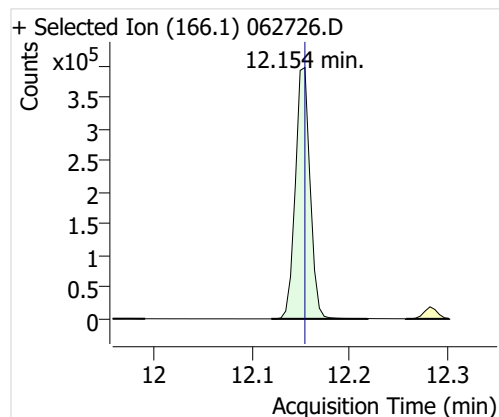
Dibenzofuran



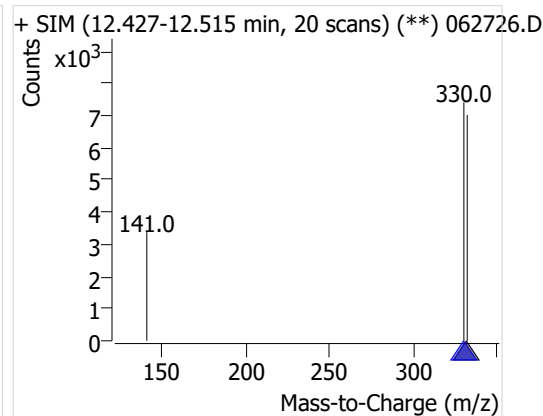
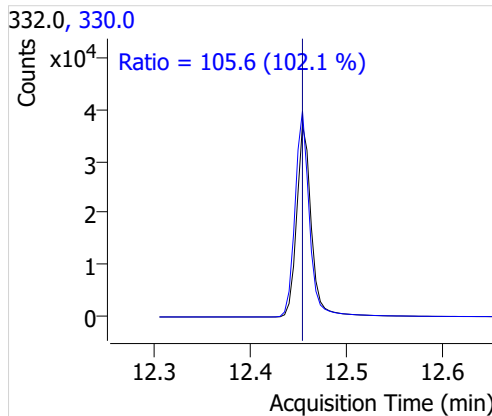
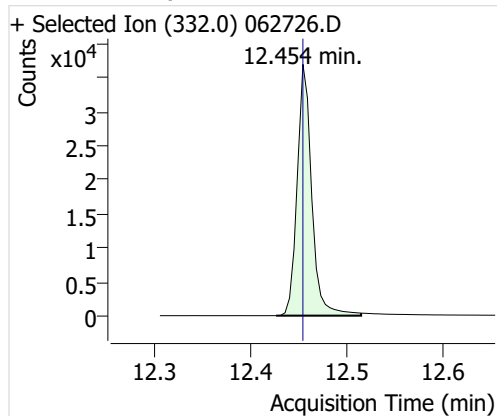
Diethylphthalate



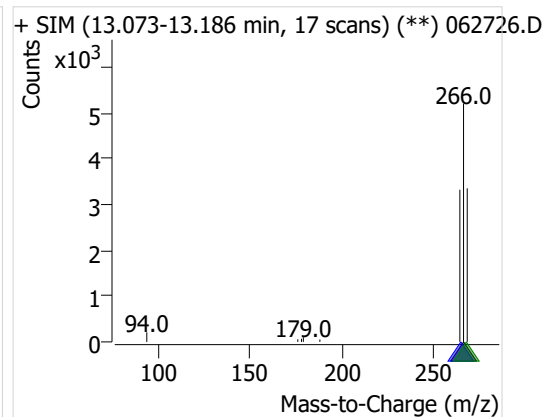
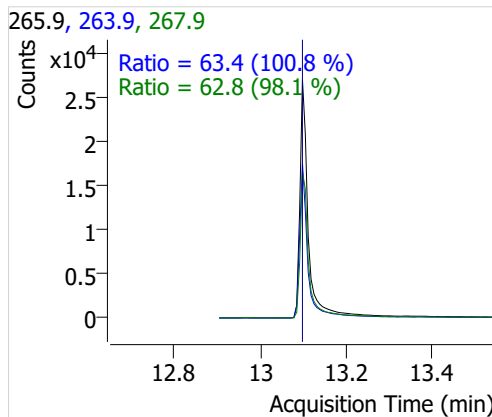
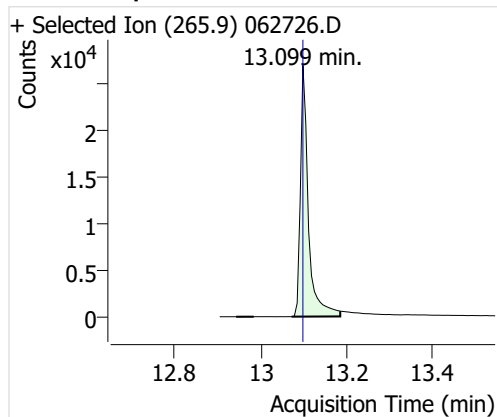
Fluorene



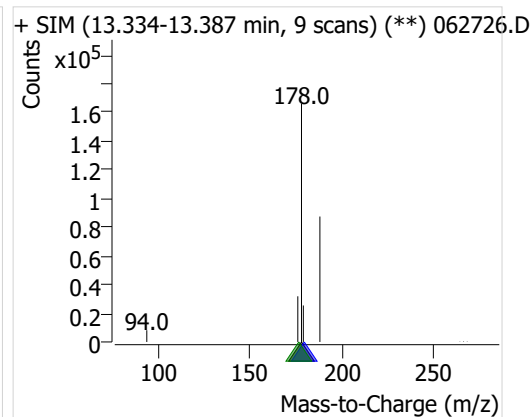
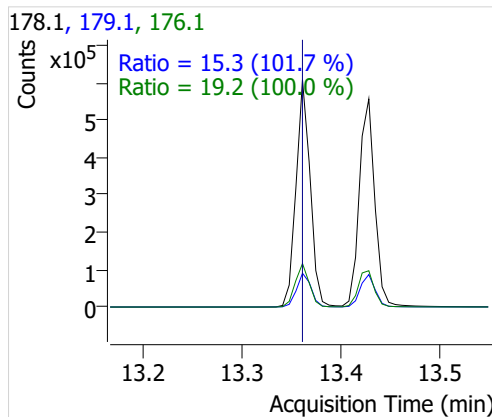
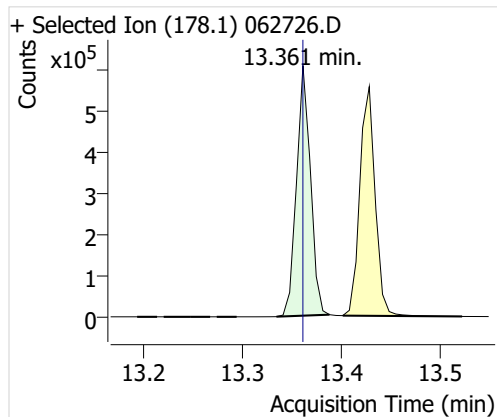
2,4,6-Tribromophenol



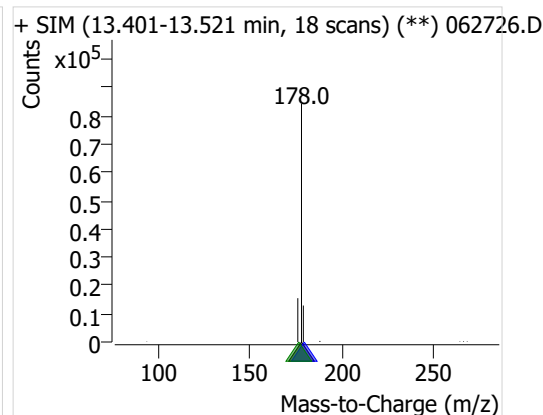
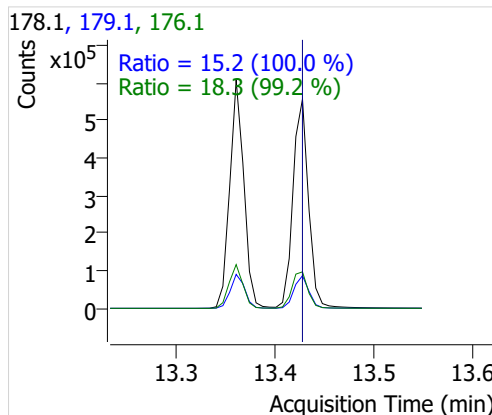
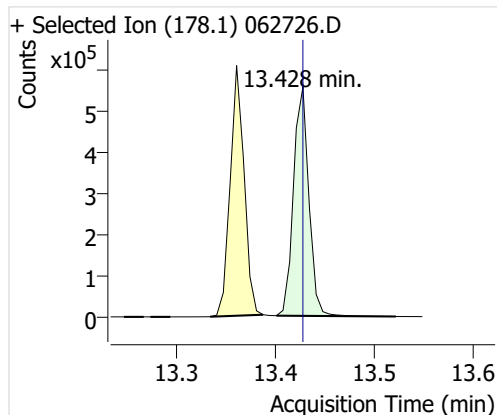
Pentachlorophenol



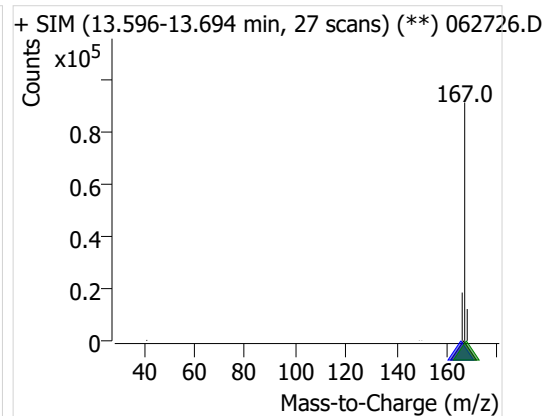
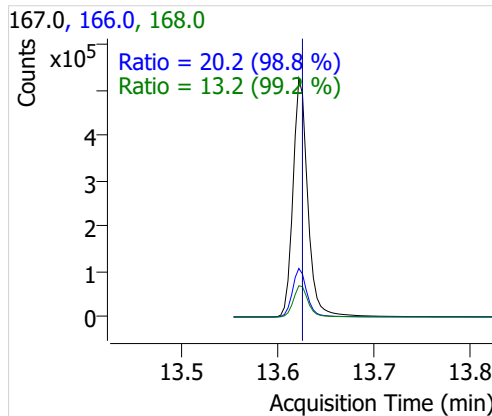
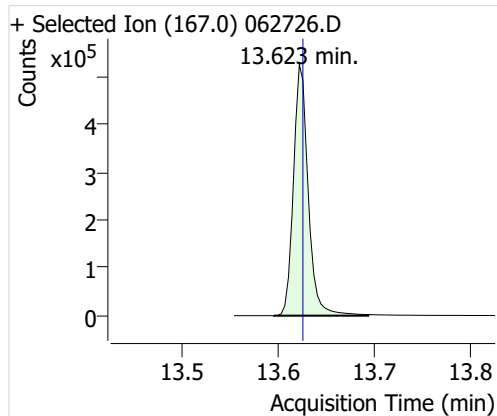
Phenanthrene



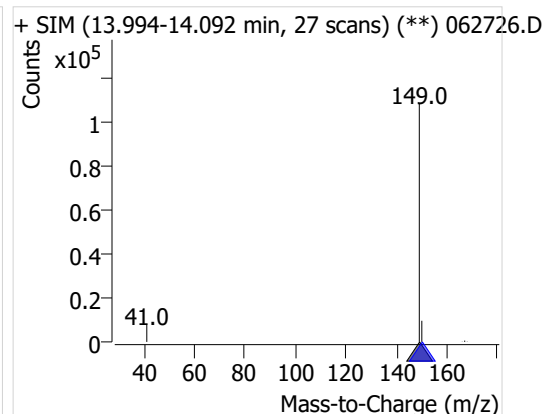
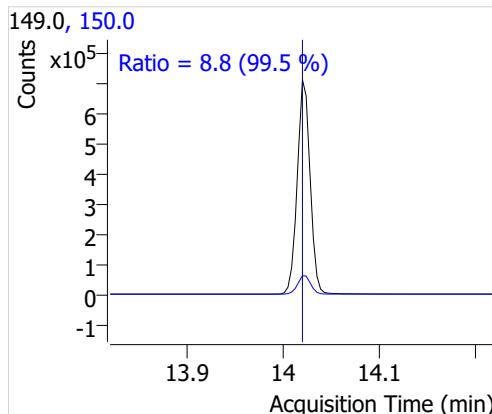
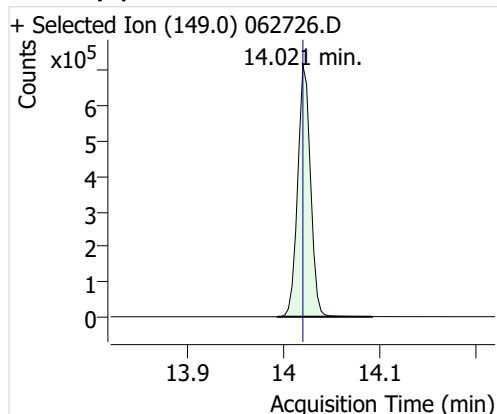
Anthracene



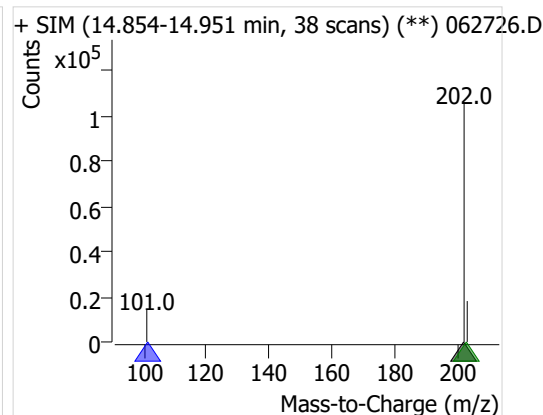
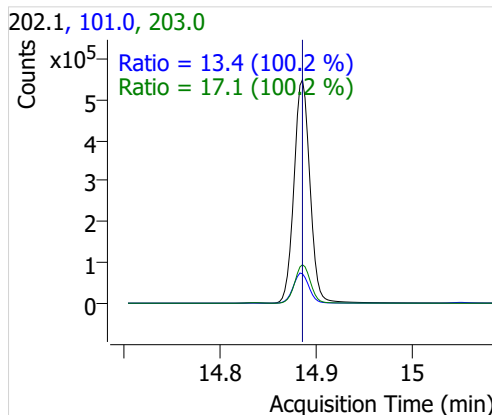
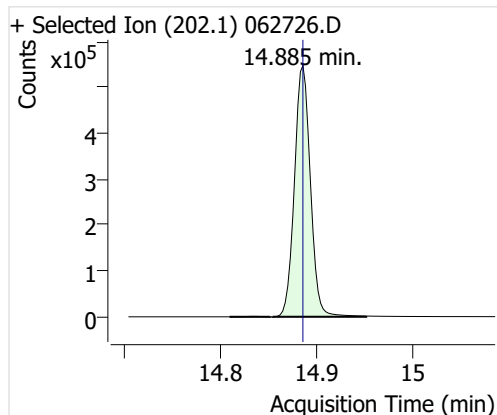
Carbazole



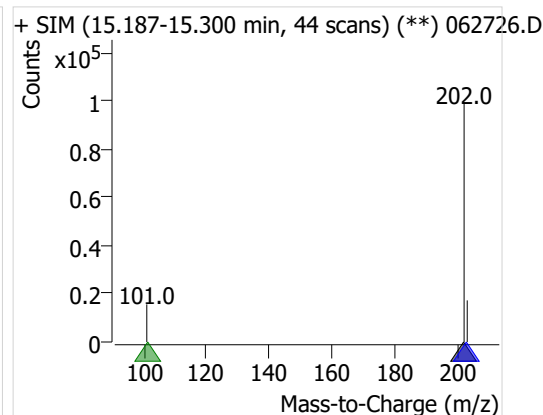
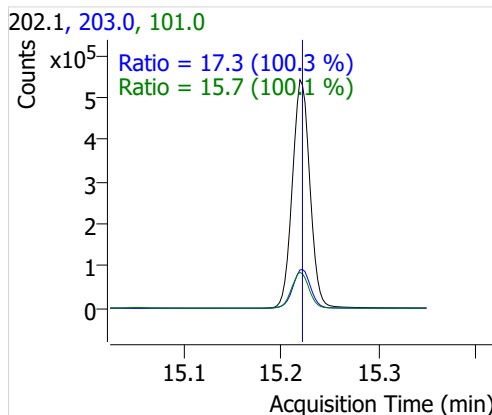
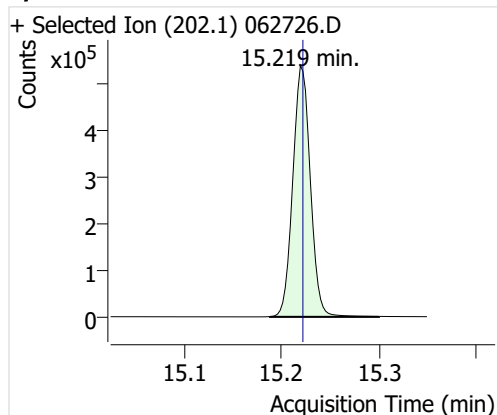
Di-n-butyl phthalate



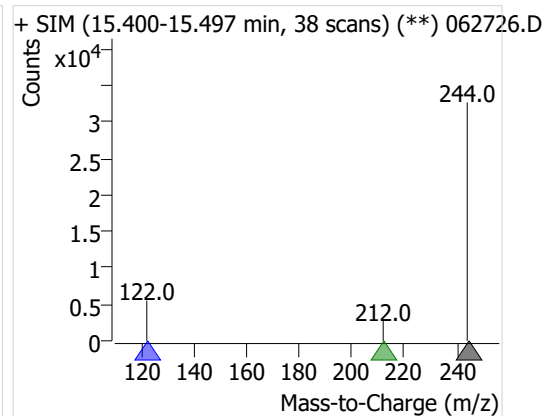
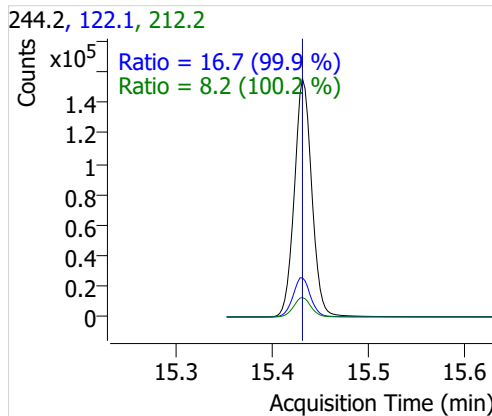
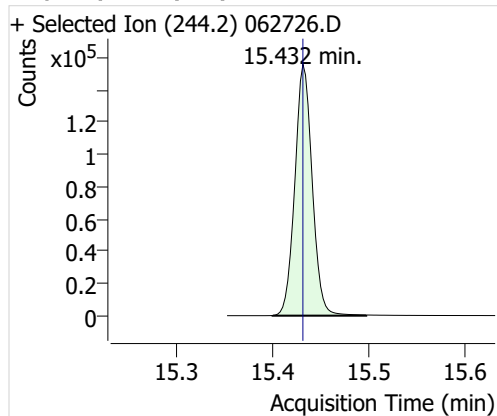
Fluoranthene



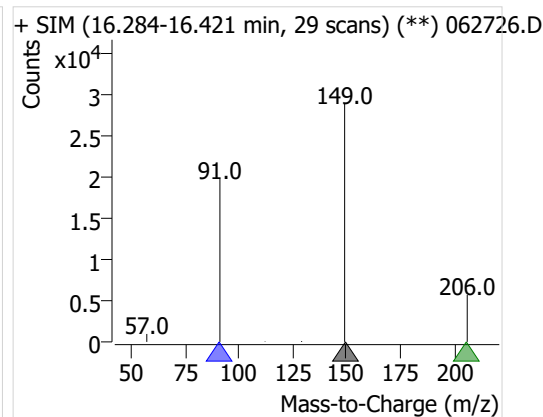
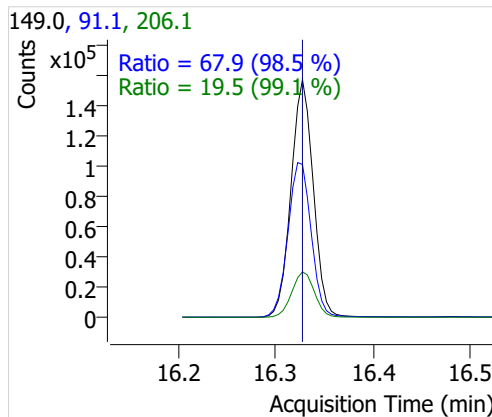
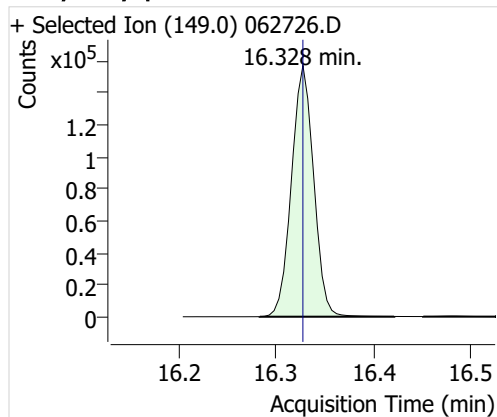
Pyrene



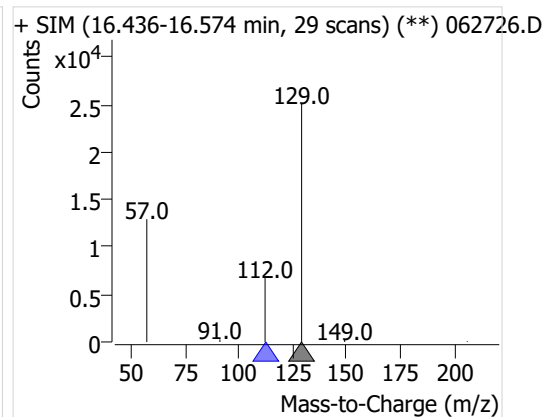
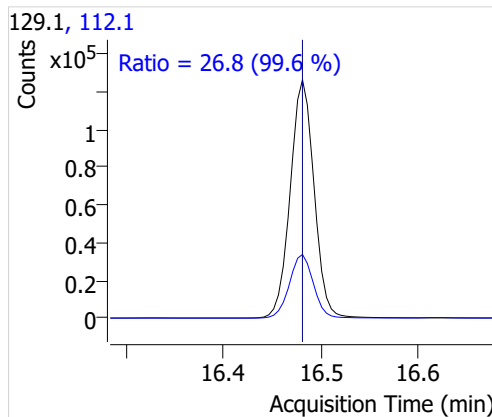
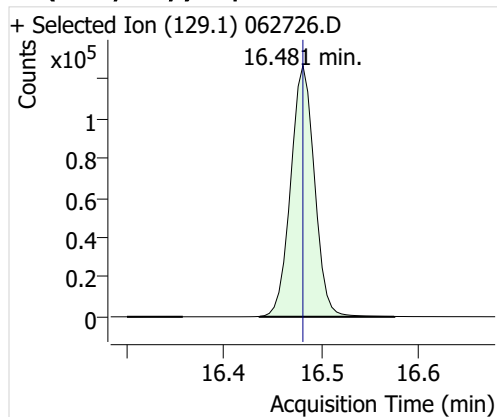
Terphenyl-d14 (surr)



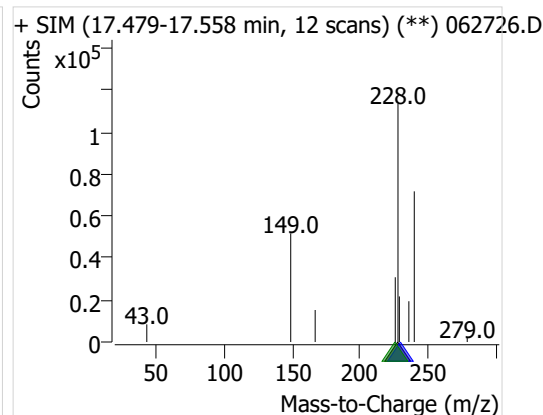
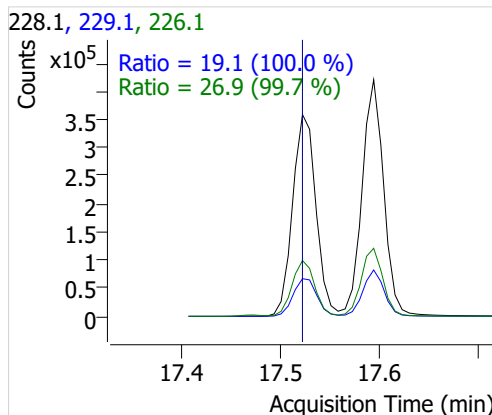
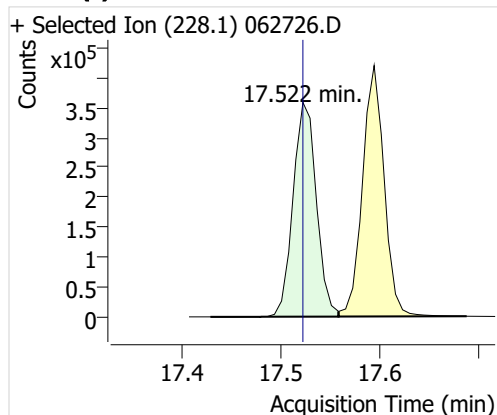
Benzyl Butyl phthalate



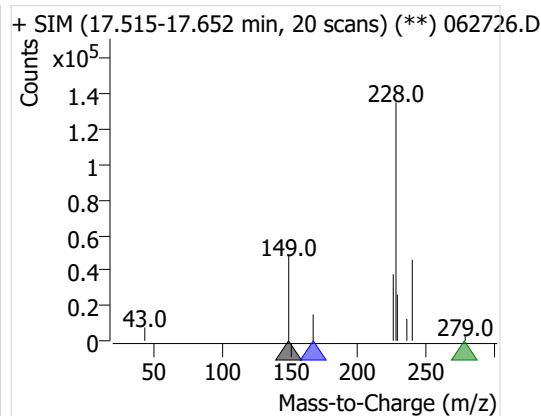
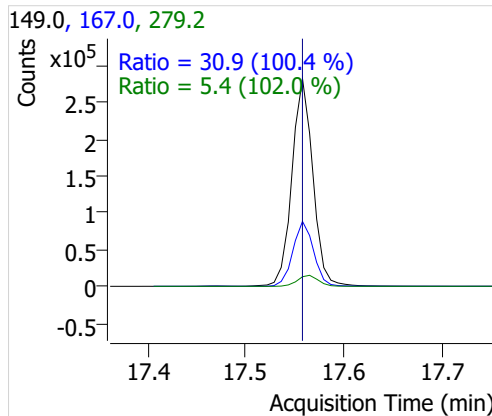
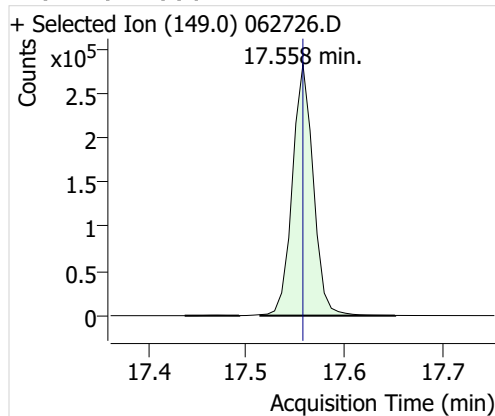
bis (2-Ethylhexyl) adipate



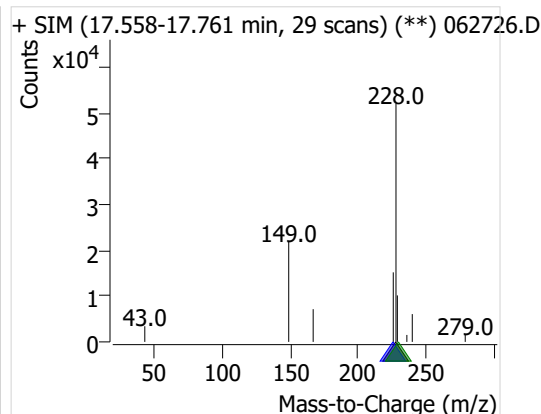
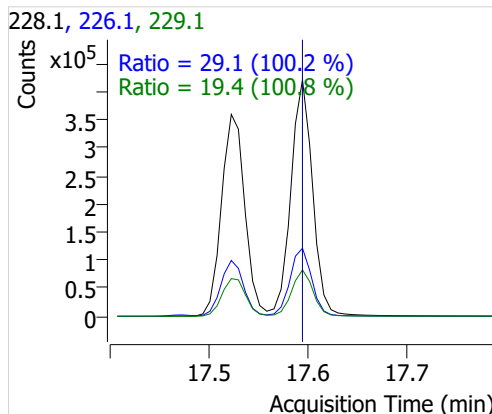
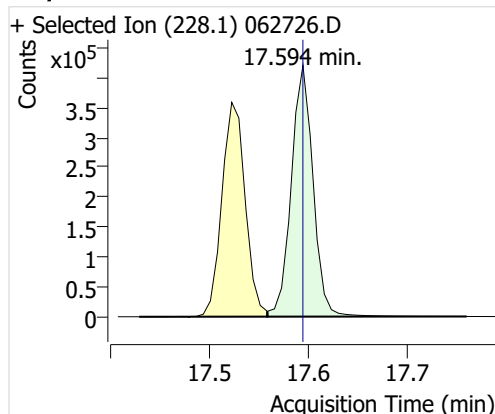
Benzo (a) anthracene



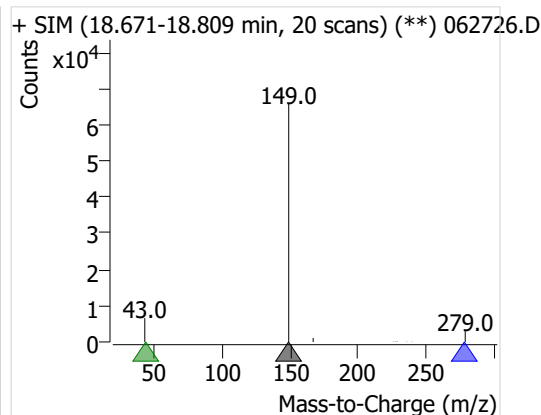
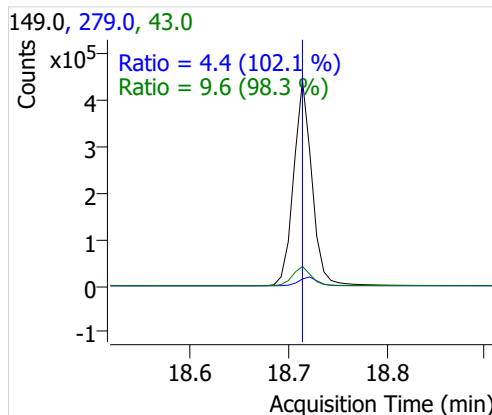
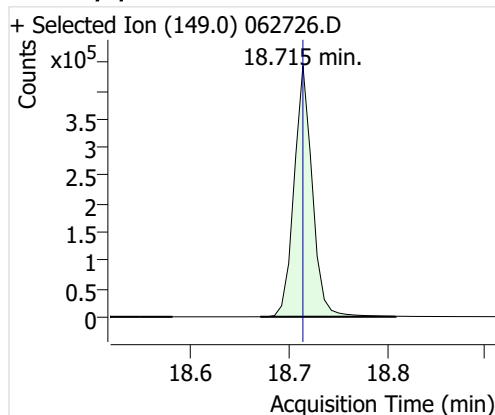
bis(2-Ethylhexyl) phthalate



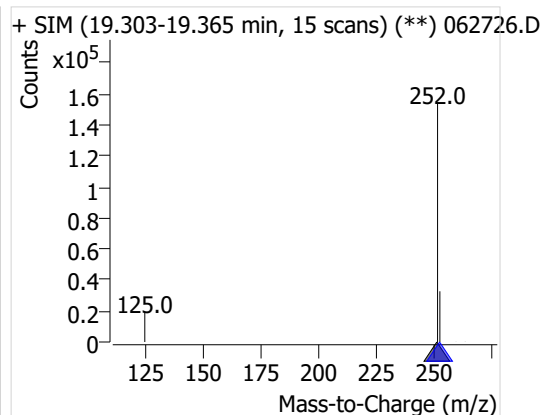
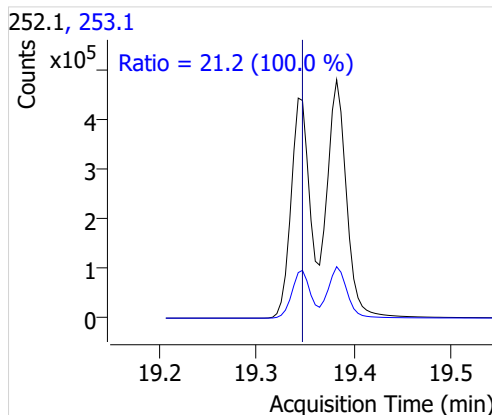
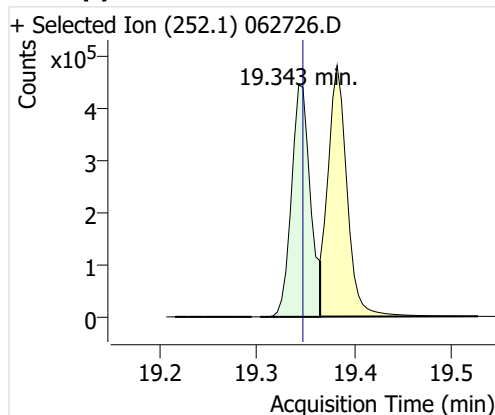
Chrysene



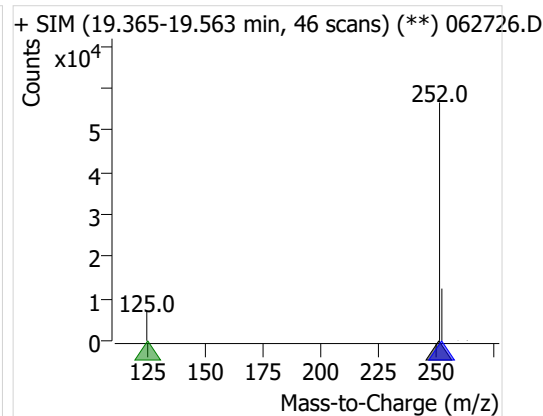
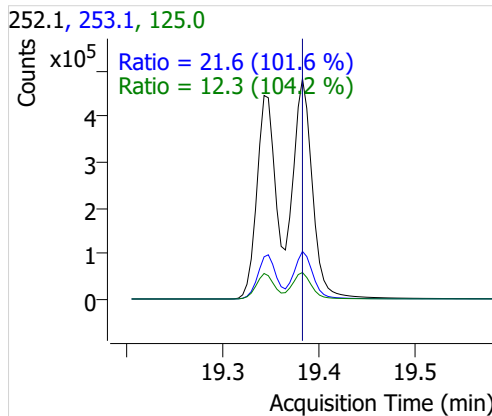
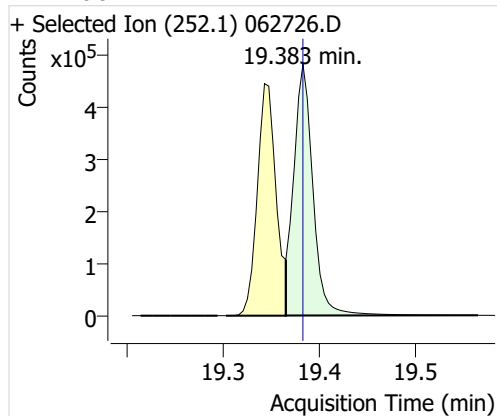
Di-n-octyl phthalate



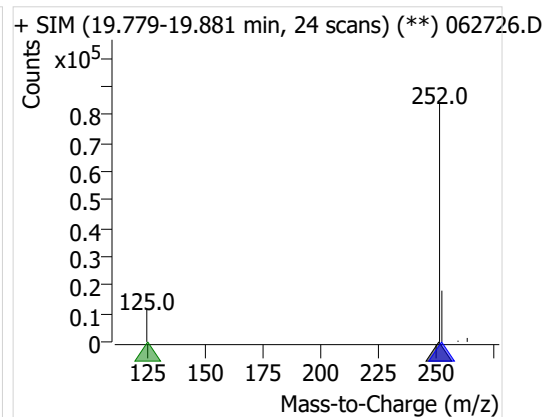
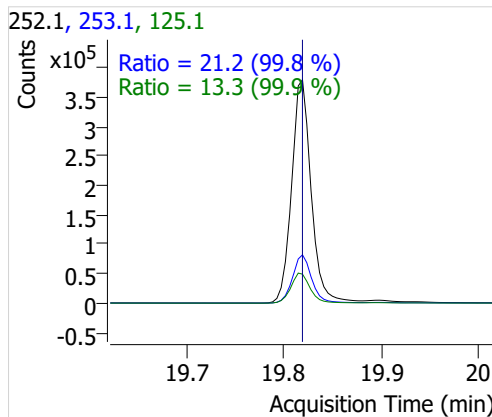
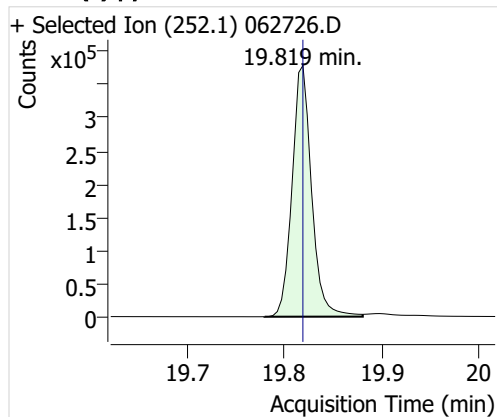
benzo (b) fluoranthene



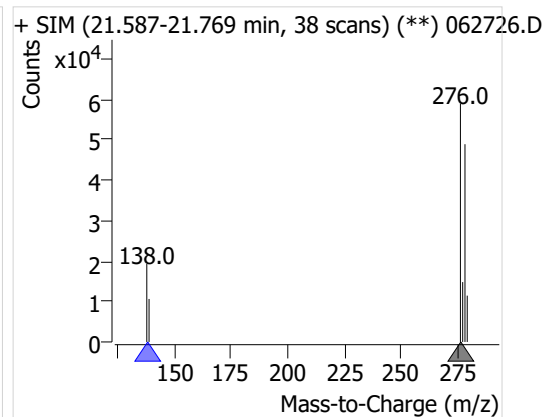
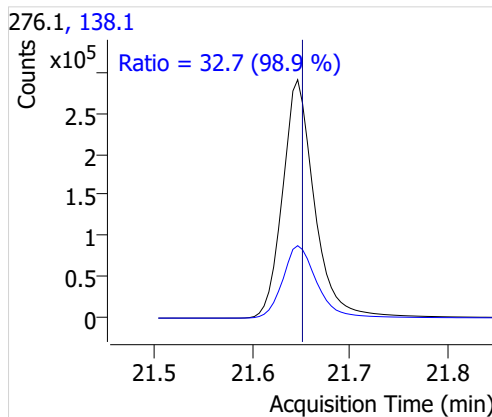
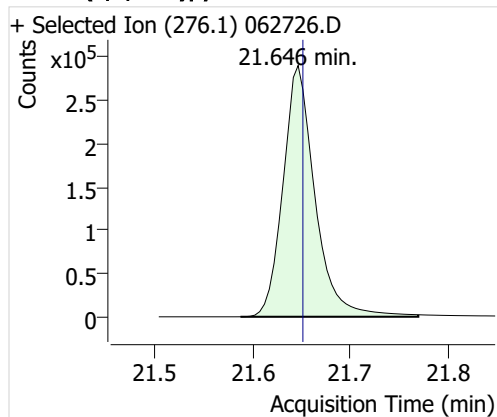
benzo (k) fluoranthene



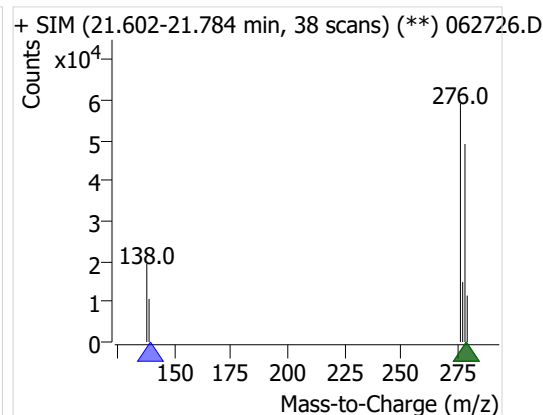
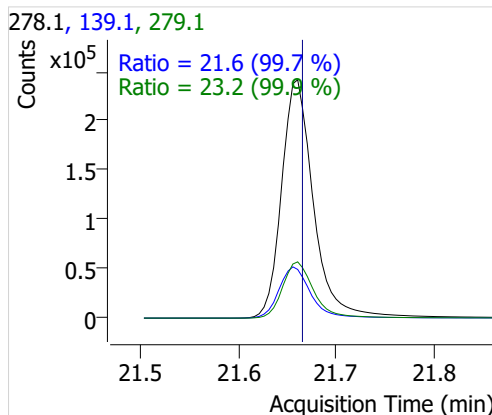
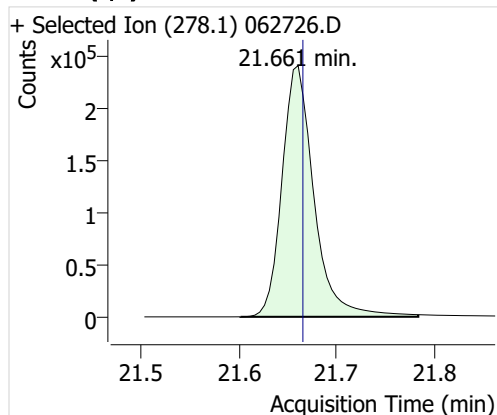
benzo (a) pyrene



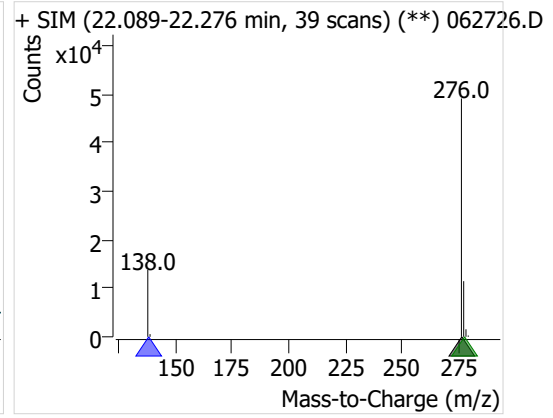
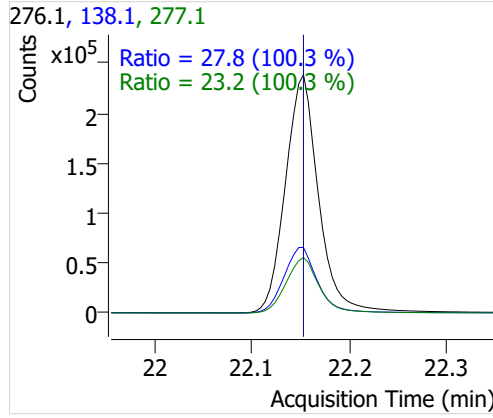
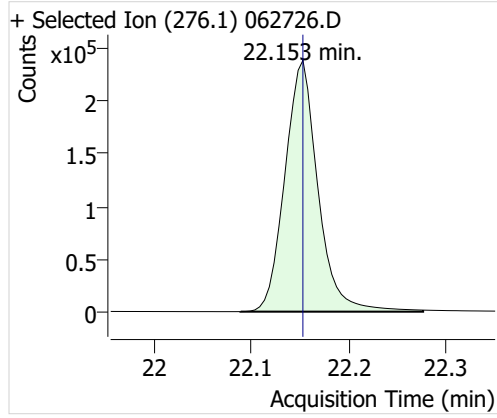
Indeno(1,2,3-cd)pyrene



Dibenz (a,h) anthracene



Benzo (g,h,i) perylene

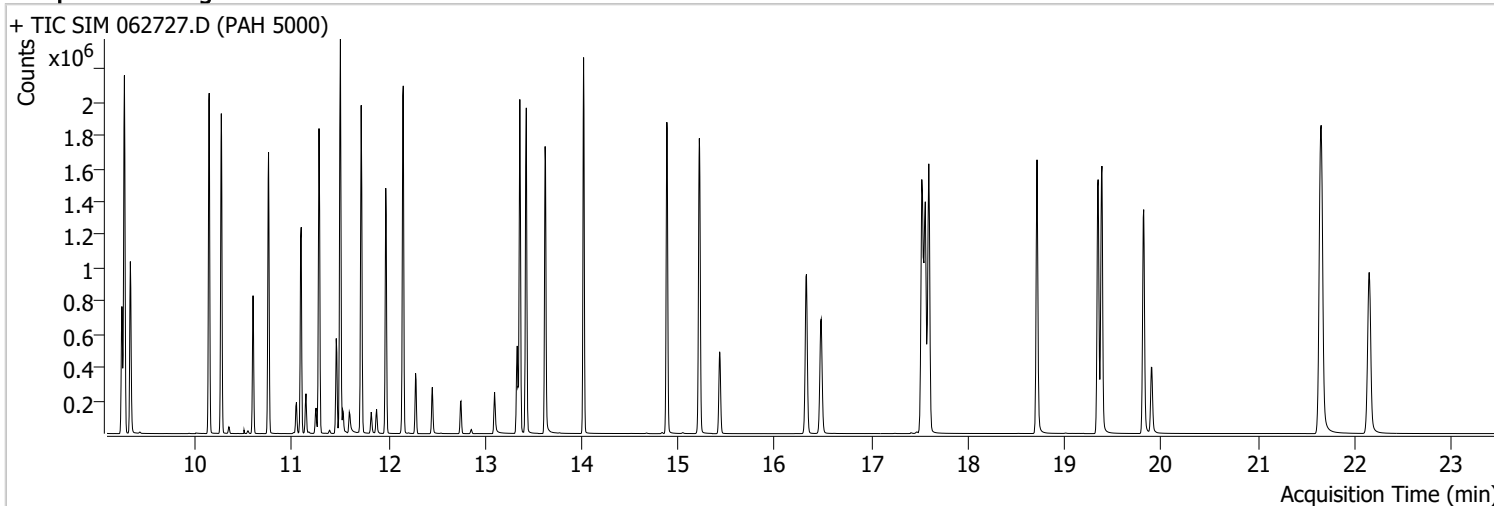


Quantitative Analysis Complete Report

Batch Path	C:\GC-14\Data\2023\062723\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	6/29/2023 12:01 PM	Reporter Name	FA\GC14
Report Time	6/29/2023 12:02:22 PM	Batch State	Processed
Last Calib Update	6/29/2023 12:00 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

Acq. Time	6/27/2023 9:56 PM	Data File	062727.D
Sample Type	Cal	Sample Name	PAH 5000
Dilution	1	Acq. Method	8270E_SIM_625

Sample Chromatogram

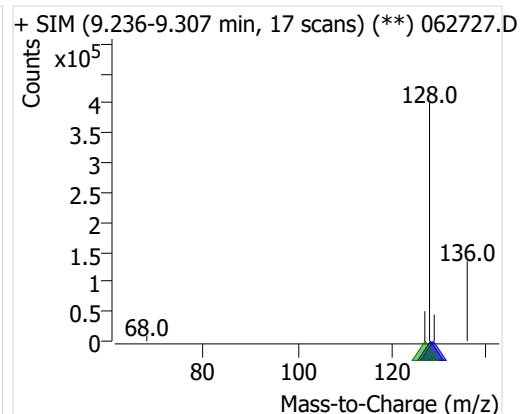
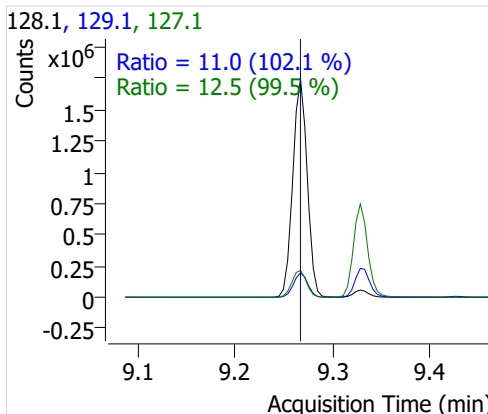
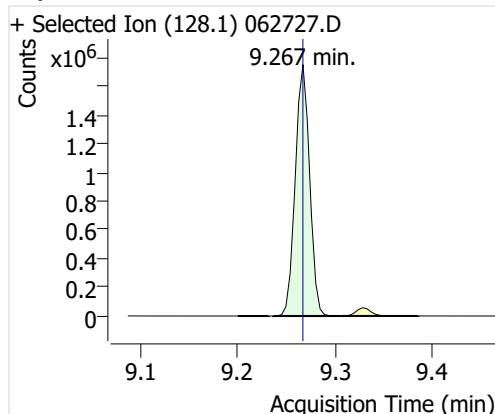


Compound	ISTD	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Units
Naphthalene	Naphthalene-d8 (IS)	9.267	1797347	692264	2.5963	4952.3967	µg/L
2-Methylnaphthalene	Naphthalene-d8 (IS)	10.145	895550	692264	1.2937	4986.6120	µg/L
1-Methylnaphthalene	Naphthalene-d8 (IS)	10.270	849582	692264	1.2273	4970.2378	µg/L
2-Fluorobiphenyl (surr)	Naphthalene-d8 (IS)	10.599	569196	692264	0.8222	2513.2367	µg/L
2-Chloronaphthalene	Naphthalene-d8 (IS)	10.759	973567	692264	1.4064	5009.3368	µg/L
Dimethyl phthalate	Naphthalene-d8 (IS)	11.097	1081439	692264	1.5622	4992.5832	µg/L
Acenaphthylene	Naphthalene-d8 (IS)	11.282	1401303	692264	2.0242	4992.2718	µg/L
Acenaphthene	Acenaphthene-d10 (IS)	11.503	942305	274075	3.4381	4971.6831	µg/L
Dibenzofuran	Acenaphthene-d10 (IS)	11.718	1354433	274075	4.9418	4962.3070	µg/L
Diethylphthalate	Acenaphthene-d10 (IS)	11.972	1089229	274075	3.9742	4993.6960	µg/L
Fluorene	Acenaphthene-d10 (IS)	12.154	1054367	274075	3.8470	4972.3567	µg/L
2,4,6-Tribromophenol	Acenaphthene-d10 (IS)	12.454	113078	274075	0.4126	4993.6865	µg/L
Pentachlorophenol	Acenaphthene-d10 (IS)	13.099	129446	274075	0.4723	4993.3202	µg/L
Phenanthrene	Phenanthrene-d10 (IS)	13.361	1498833	492197	3.0452	4948.5666	µg/L
Anthracene	Phenanthrene-d10 (IS)	13.428	1521108	492197	3.0904	4973.0999	µg/L
Carbazole	Phenanthrene-d10 (IS)	13.623	1406643	492197	2.8579	4971.9345	µg/L
Di-n-butyl phthalate	Phenanthrene-d10 (IS)	14.021	1826166	492197	3.7102	4990.3598	µg/L
Fluoranthene	Phenanthrene-d10 (IS)	14.883	1630871	492197	3.3135	4991.7333	µg/L
Pyrene	Phenanthrene-d10 (IS)	15.220	1727878	492197	3.5105	4960.3500	µg/L
Terphenyl-d14 (surr)	Phenanthrene-d10 (IS)	15.429	513621	492197	1.0435	2502.5277	µg/L
Benzyl Butyl phthalate	Phenanthrene-d10 (IS)	16.328	772460	492197	1.5694	4965.0440	µg/L
bis (2-Ethylhexyl) adipate	Phenanthrene-d10 (IS)	16.481	654755	492197	1.3303	4989.2791	µg/L
Benzo (a) anthracene	Phenanthrene-d10 (IS)	17.522	1607459	492197	3.2659	4991.9152	µg/L
bis(2-Ethylhexyl) phthalate	Chrysene-d12 (IS)	17.558	1192526	413741	2.8823	4992.8370	µg/L
Chrysene	Chrysene-d12 (IS)	17.594	1633242	413741	3.9475	4964.3555	µg/L
Di-n-octyl phthalate	Chrysene-d12 (IS)	18.715	1854663	413741	4.4827	4975.3628	µg/L
benzo (b) fluoranthene	Chrysene-d12 (IS)	19.347	1594464	413741	3.8538	4991.2101	µg/L
benzo (k) fluoranthene	Chrysene-d12 (IS)	19.387	1686161	413741	4.0754	4997.1578	µg/L
benzo (a) pyrene	Chrysene-d12 (IS)	19.819	1441535	413741	3.4841	4993.6739	µg/L
Indeno(1,2,3-cd)pyrene	Perylene-d12 (IS)	21.646	1754763	462514	3.7940	4992.6463	µg/L

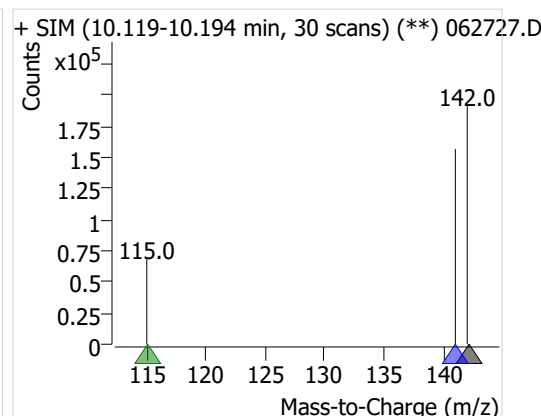
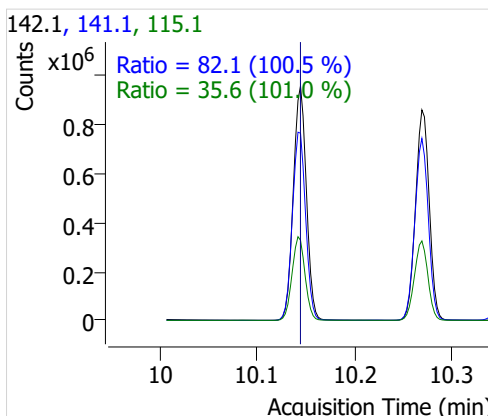
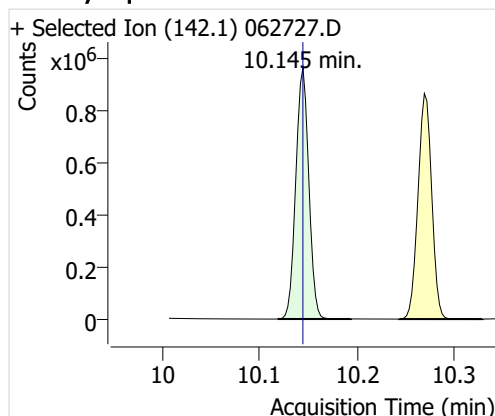
Quantitative Analysis Complete Report

Compound	ISTD	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Units
Dibenz (a,h) anthracene	Perylene-d12 (IS)	21.661	1431094	462514	3.0942	4992.1612	µg/L
Benzo (g,h,i) perylene	Perylene-d12 (IS)	22.153	1477391	462514	3.1943	4992.1817	µg/L

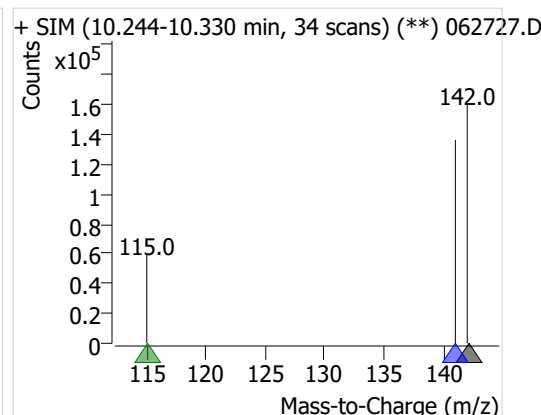
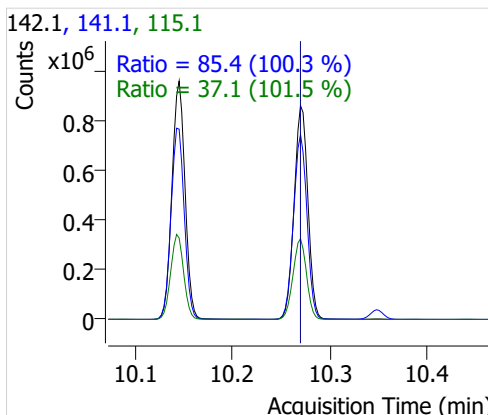
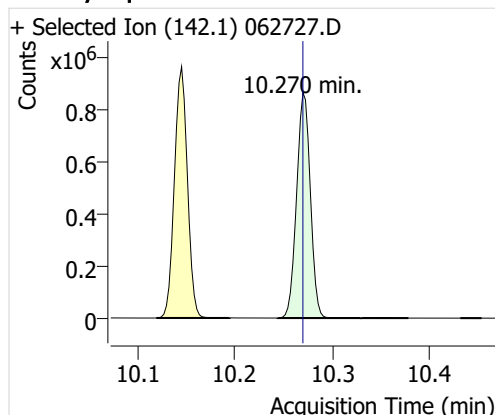
Naphthalene



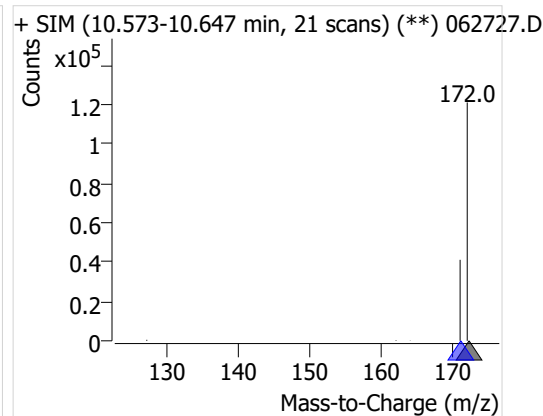
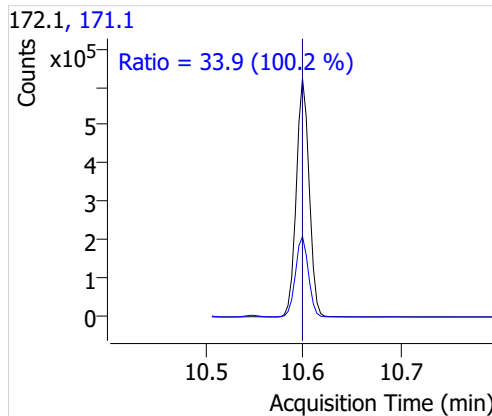
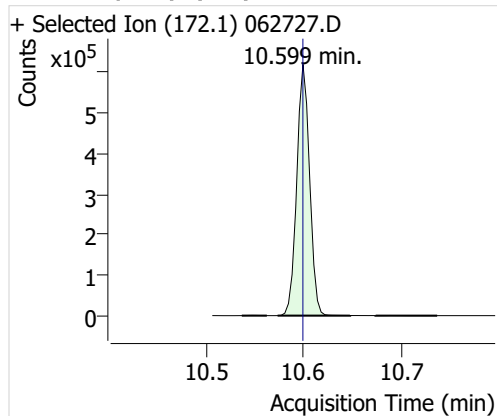
2-Methylnaphthalene



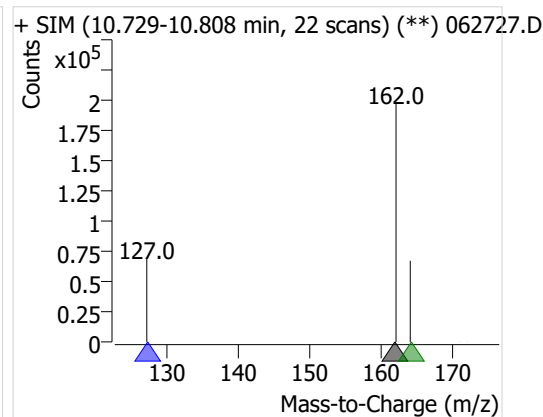
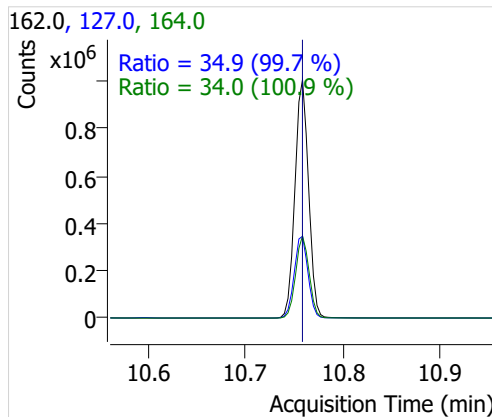
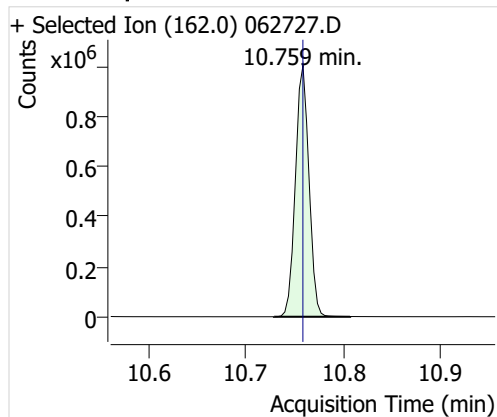
1-Methylnaphthalene



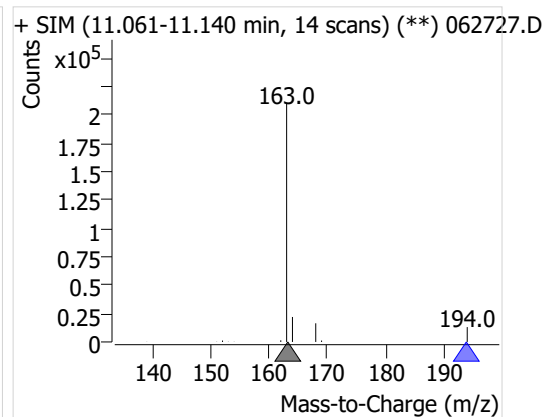
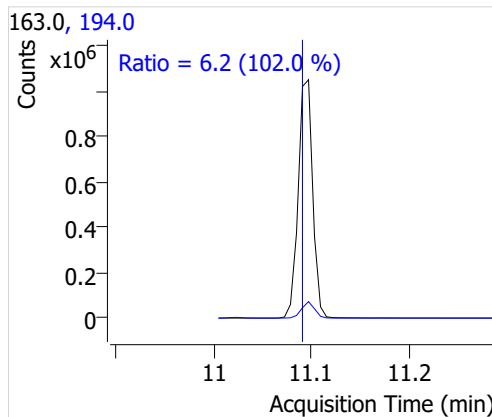
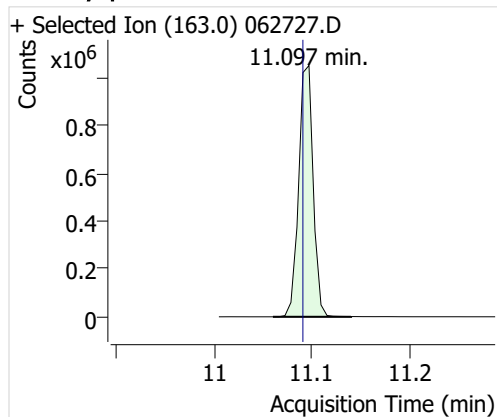
2-Fluorobiphenyl (surr)



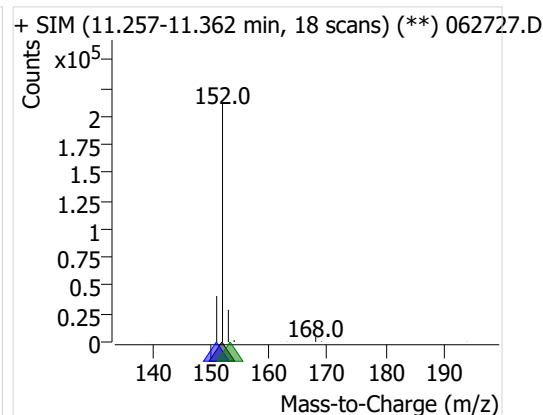
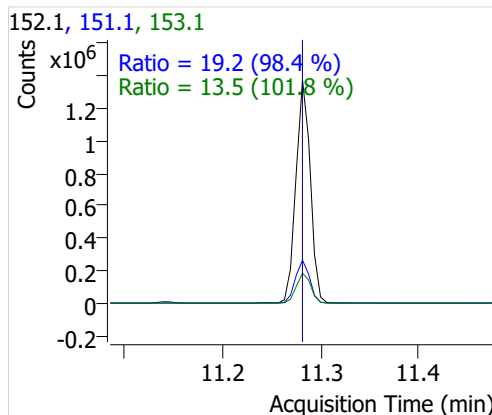
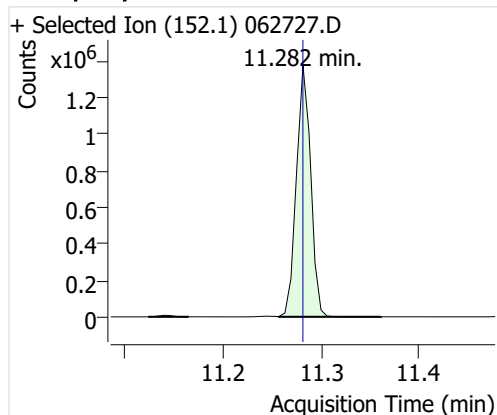
2-Chloronaphthalene



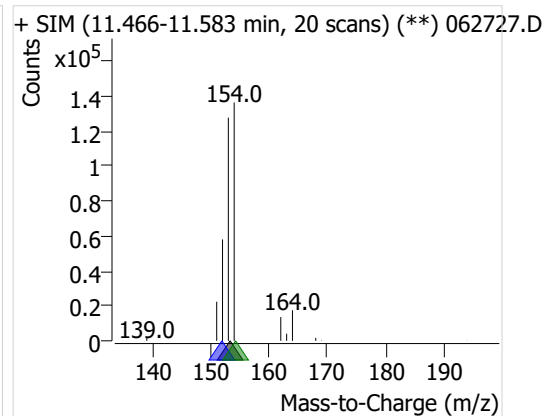
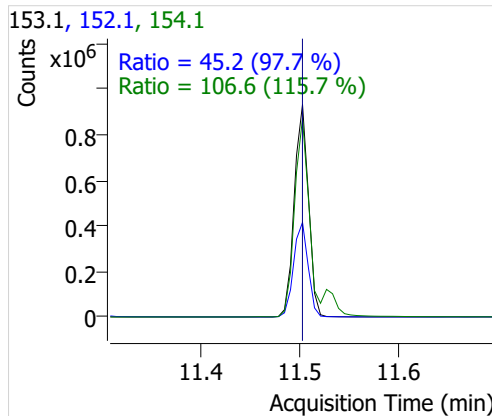
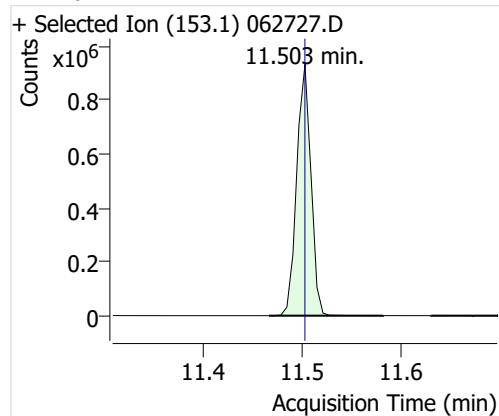
Dimethyl phthalate



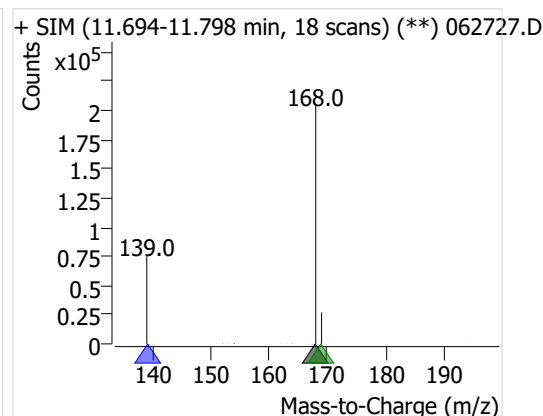
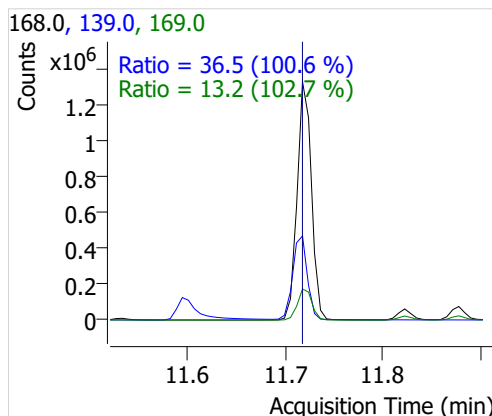
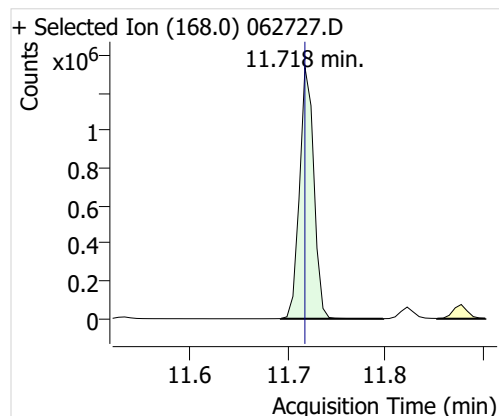
Acenaphthylene



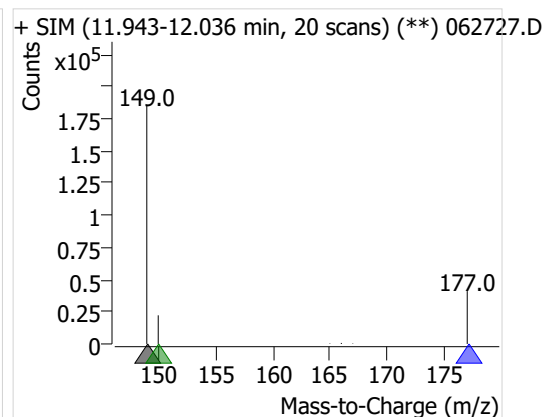
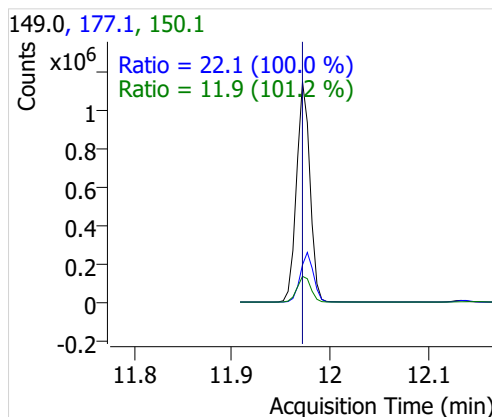
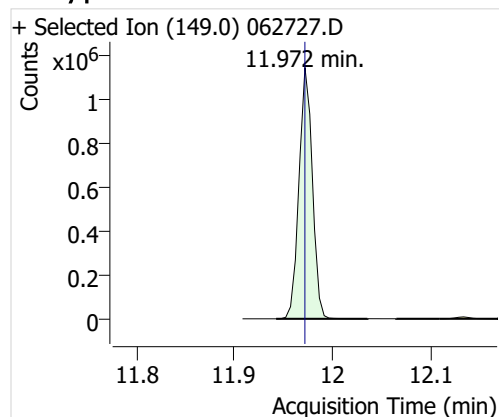
Acenaphthene



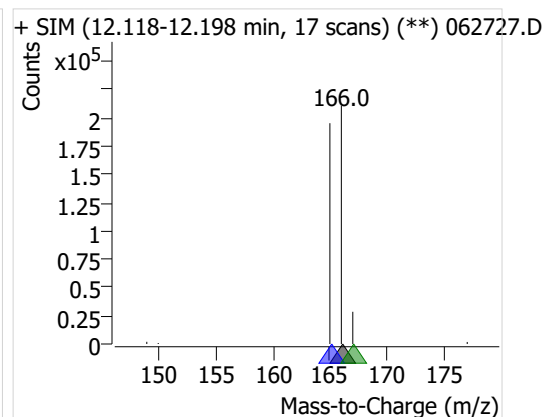
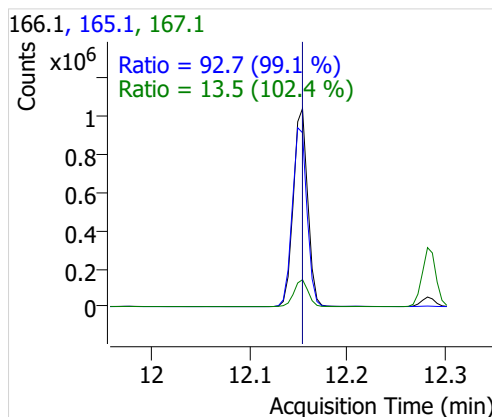
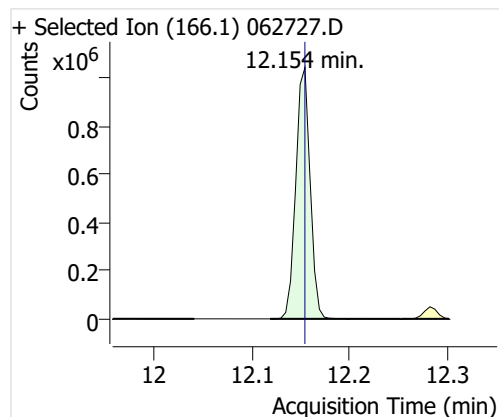
Dibenzofuran



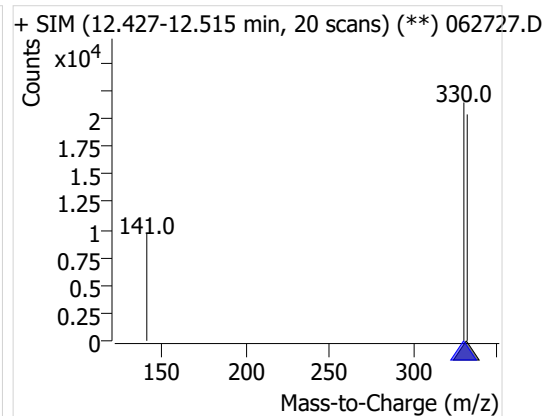
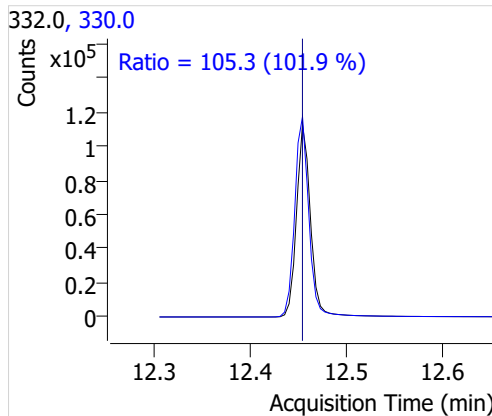
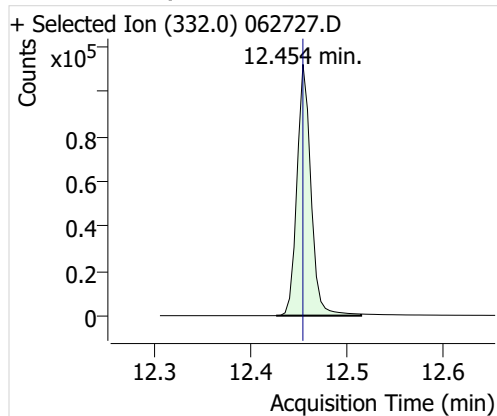
Diethylphthalate



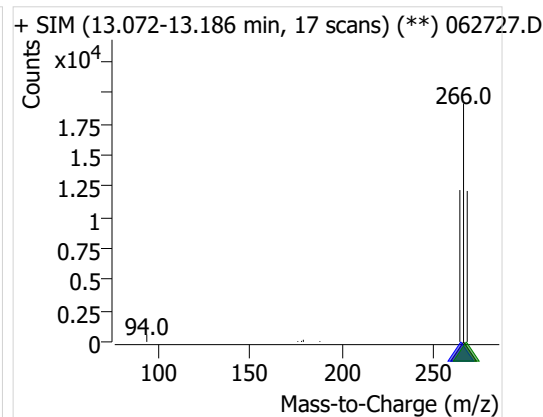
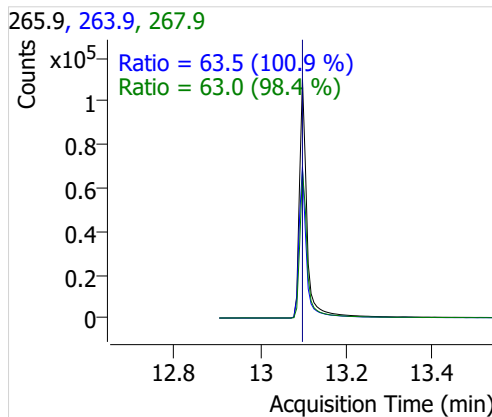
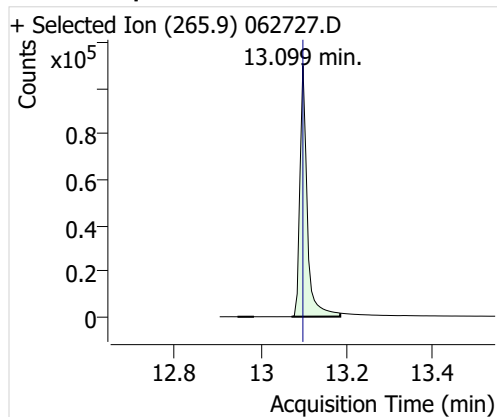
Fluorene



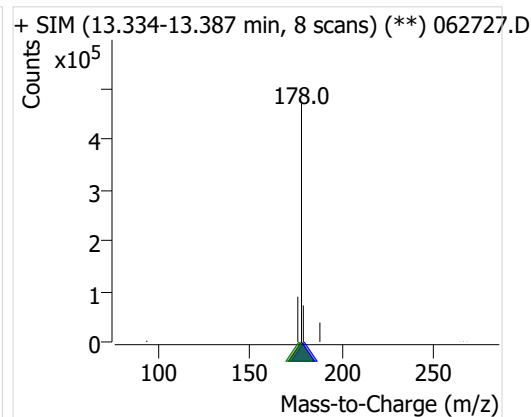
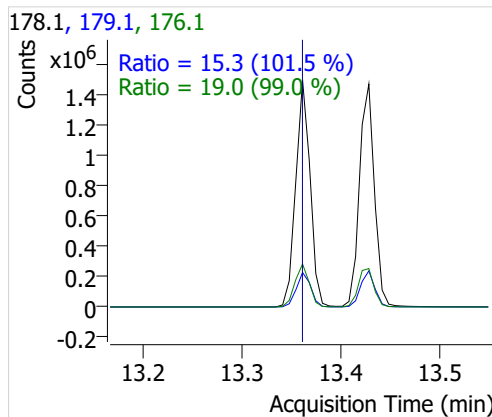
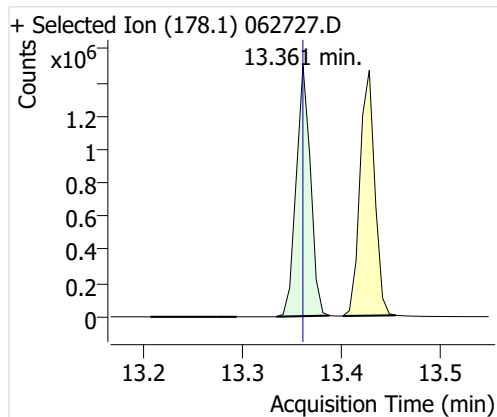
2,4,6-Tribromophenol



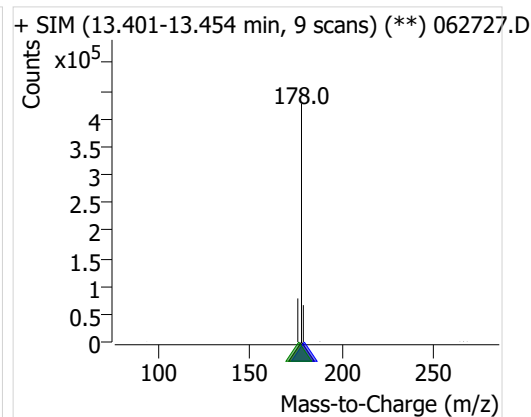
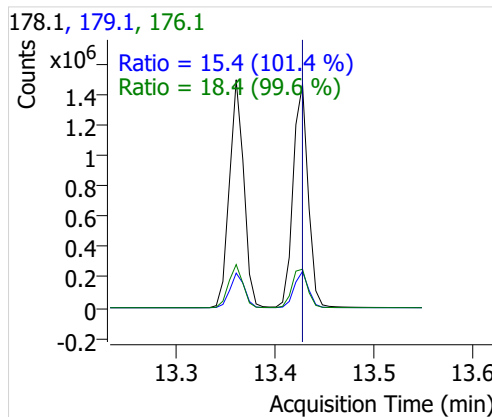
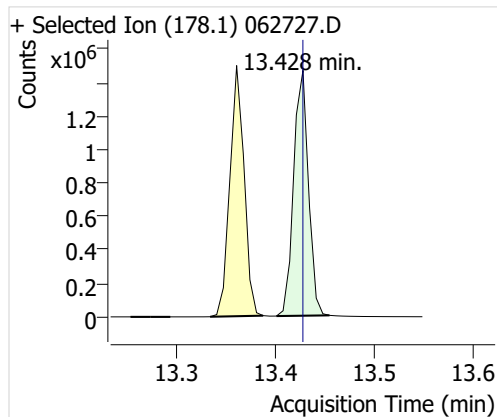
Pentachlorophenol



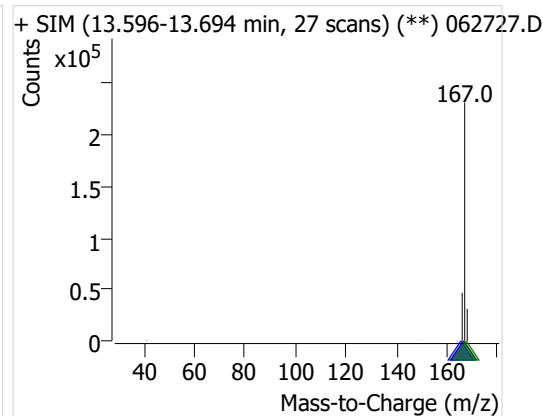
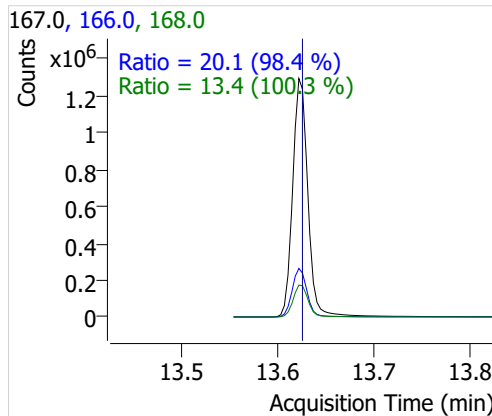
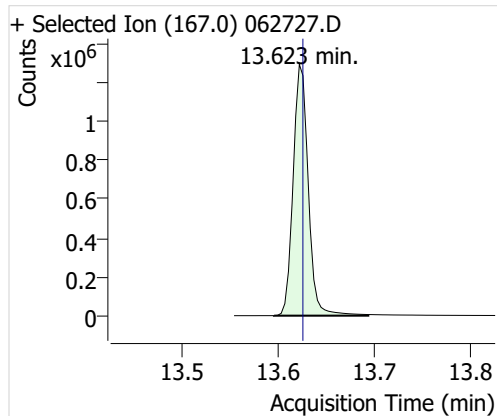
Phenanthrene



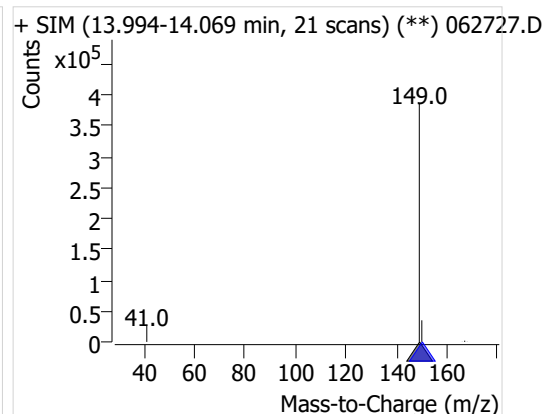
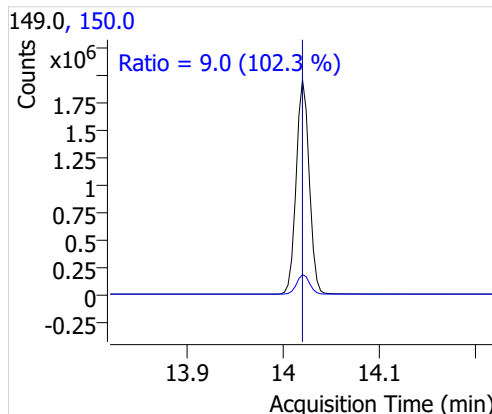
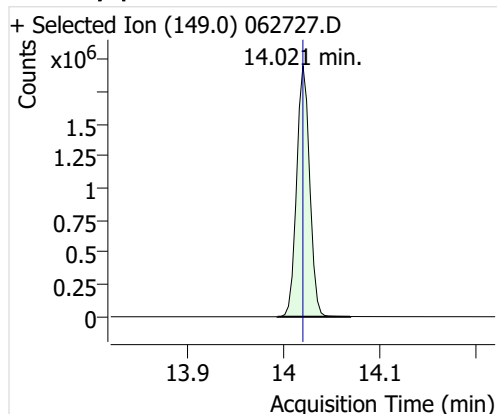
Anthracene



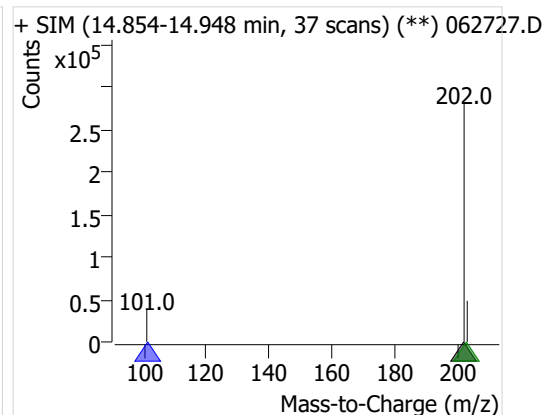
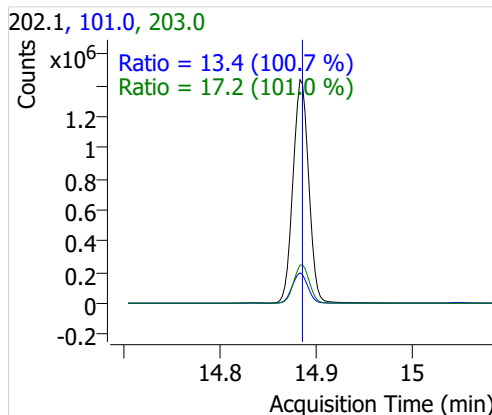
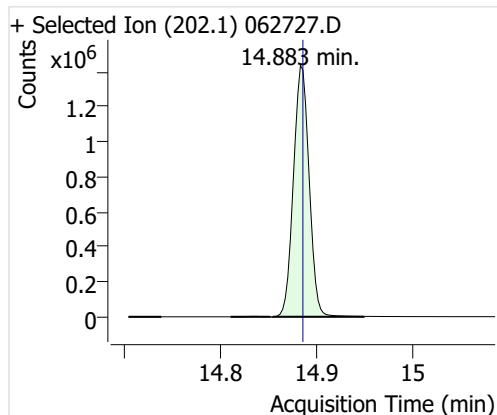
Carbazole



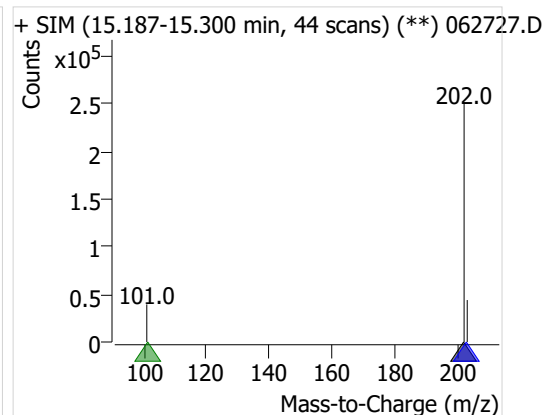
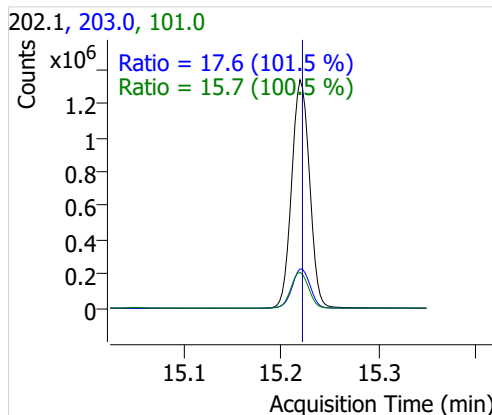
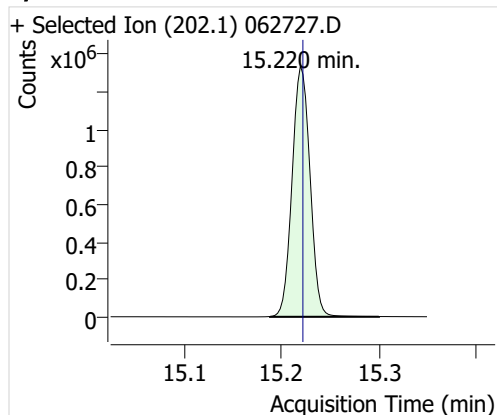
Di-n-butyl phthalate



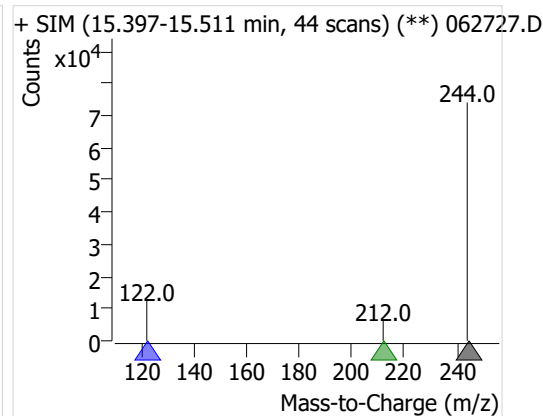
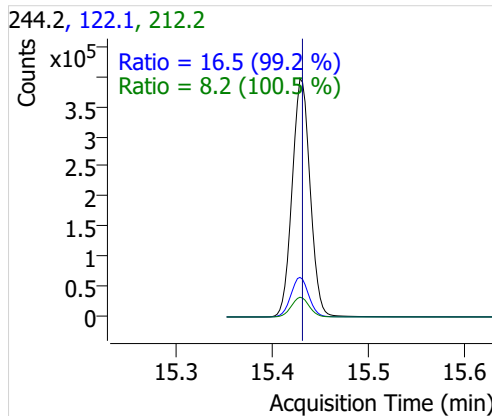
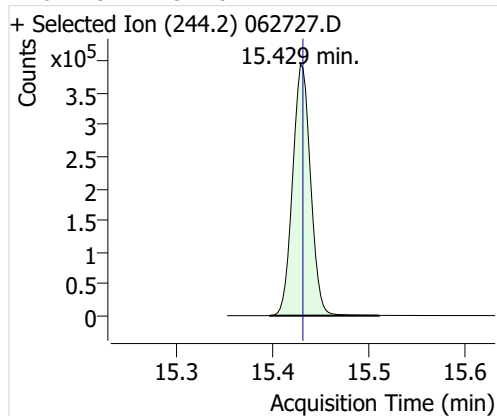
Fluoranthene



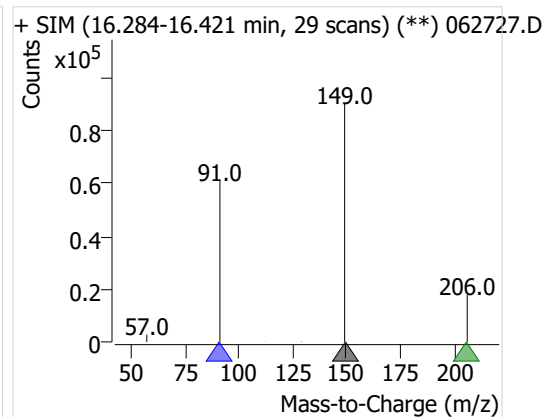
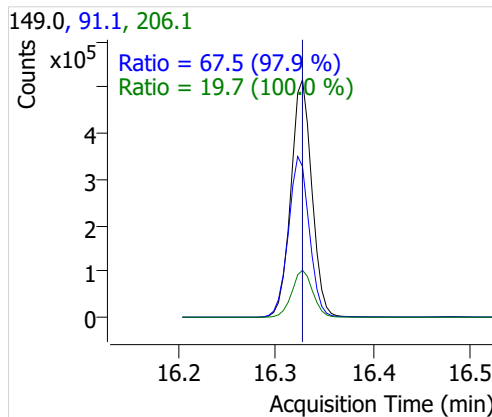
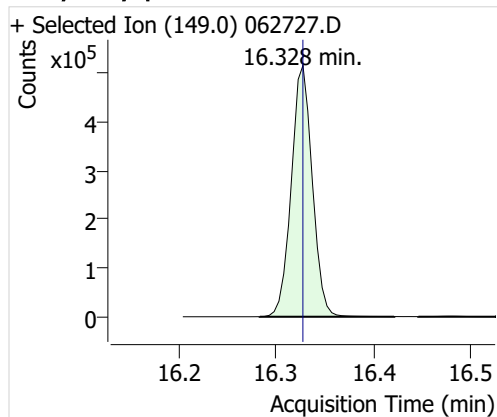
Pyrene



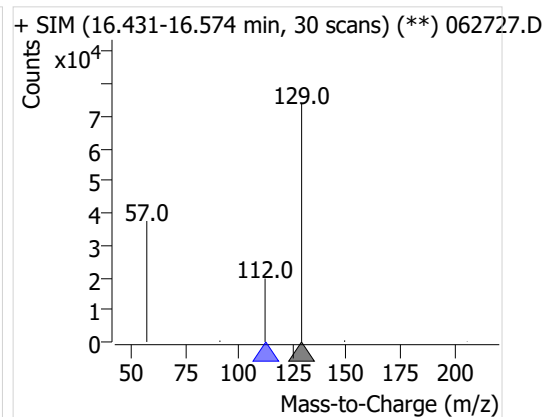
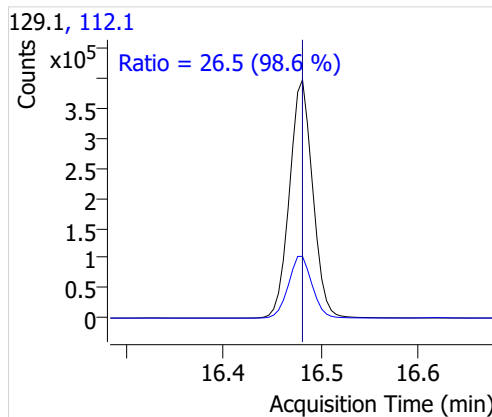
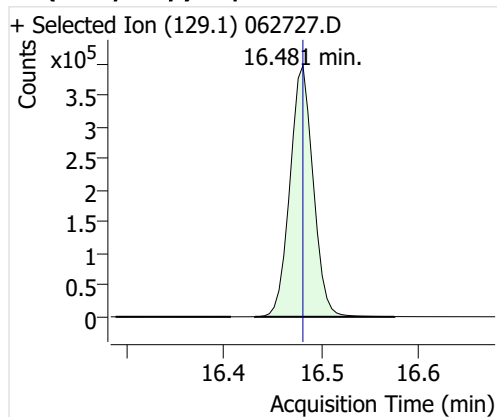
Terphenyl-d14 (surr)



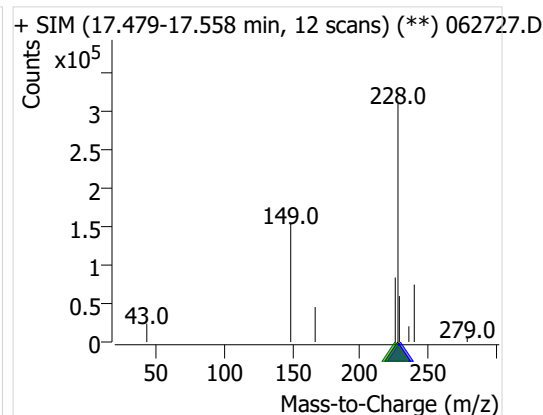
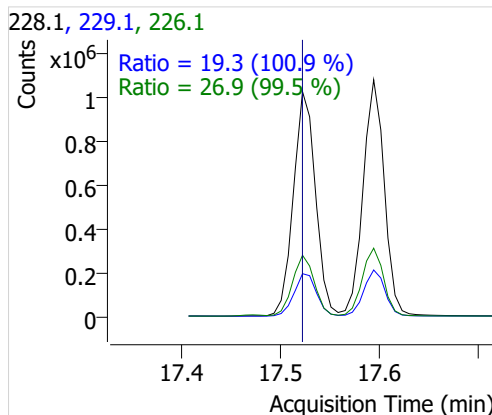
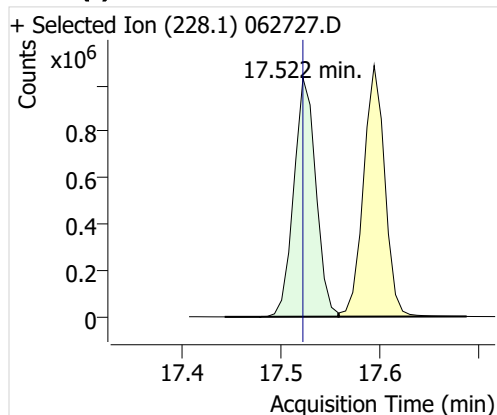
Benzyl Butyl phthalate



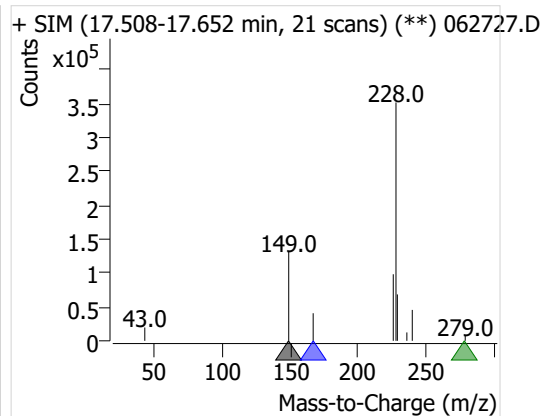
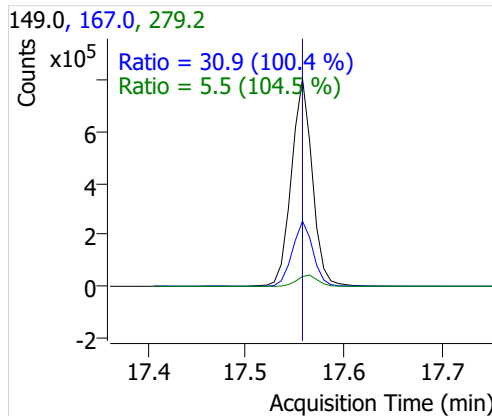
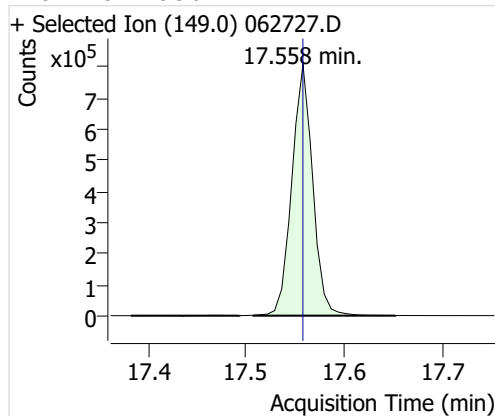
bis (2-Ethylhexyl) adipate



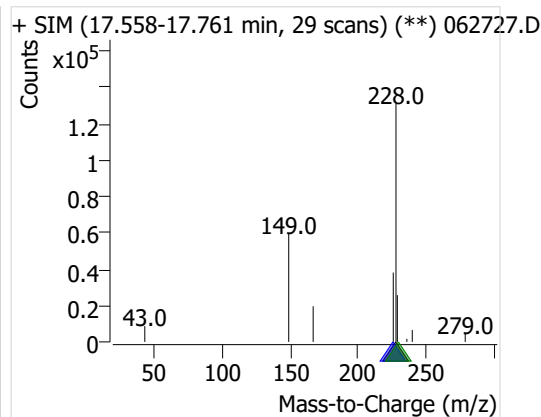
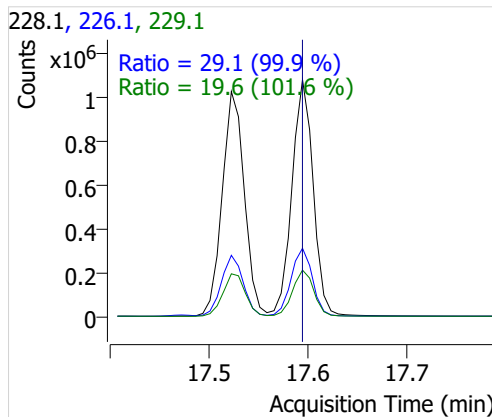
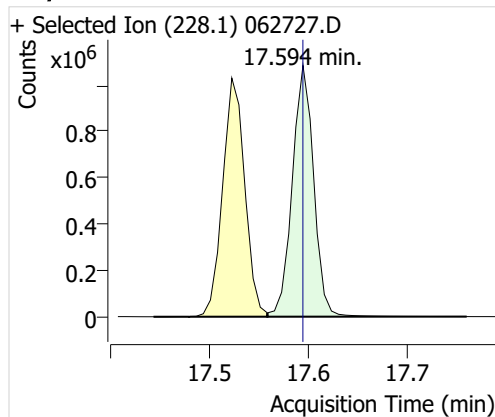
Benzo (a) anthracene



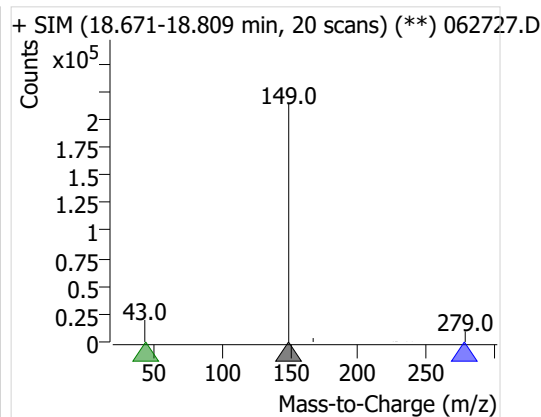
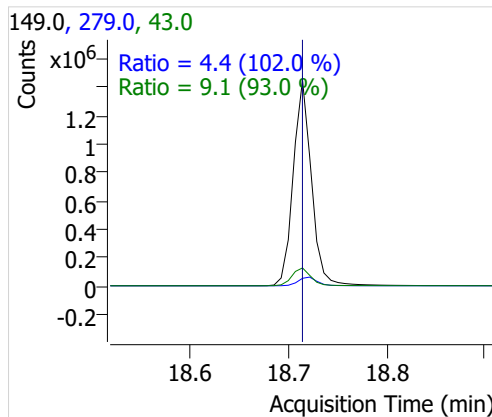
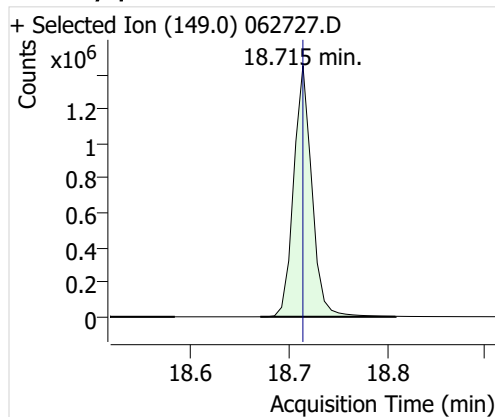
bis(2-Ethylhexyl) phthalate



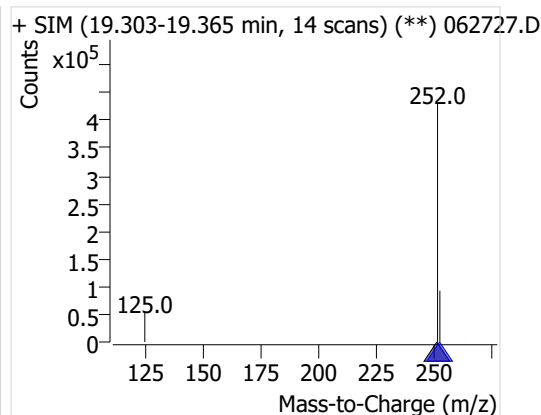
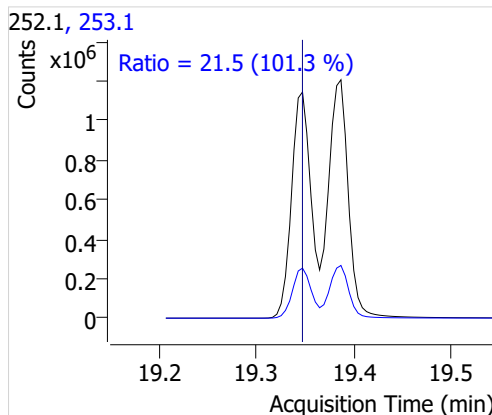
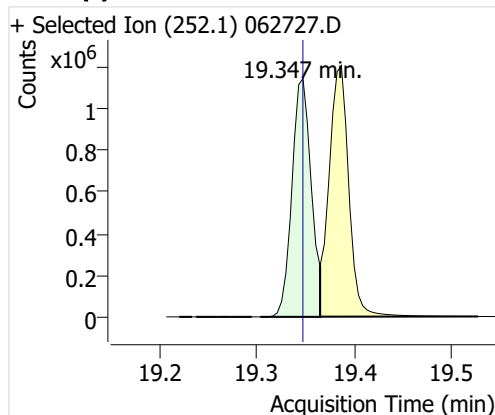
Chrysene



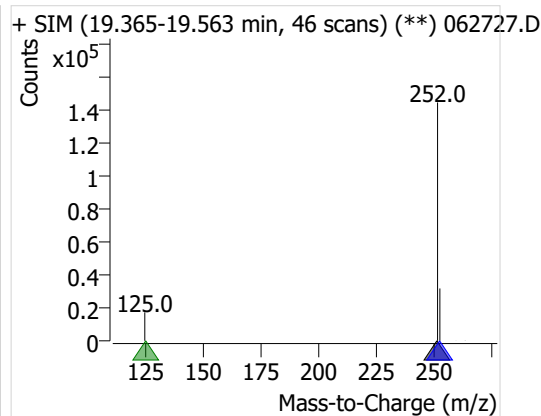
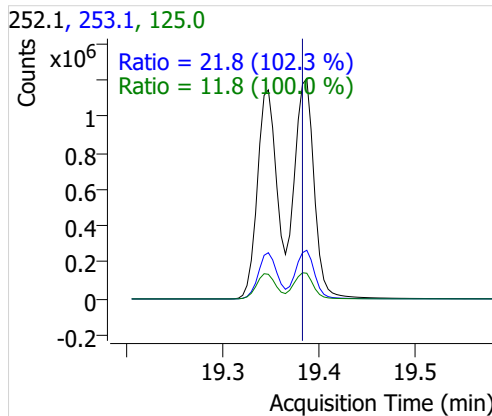
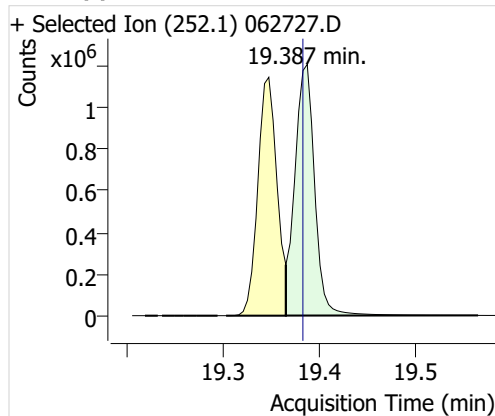
Di-n-octyl phthalate



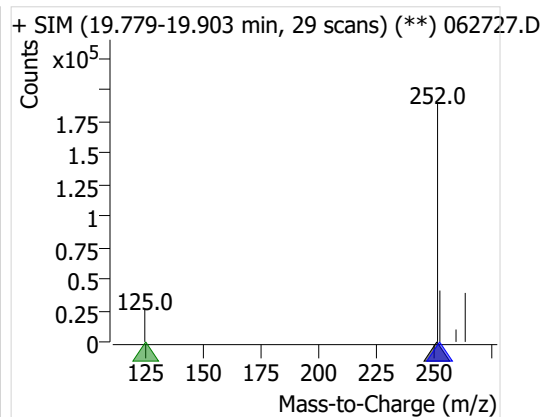
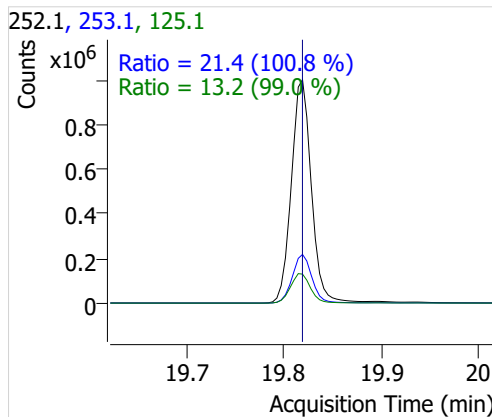
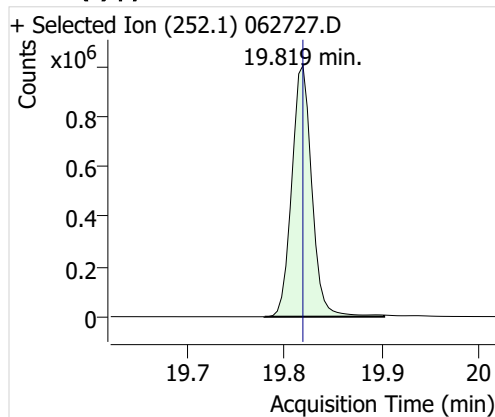
benzo (b) fluoranthene



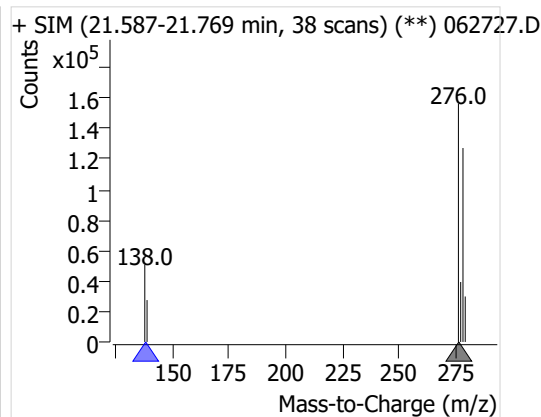
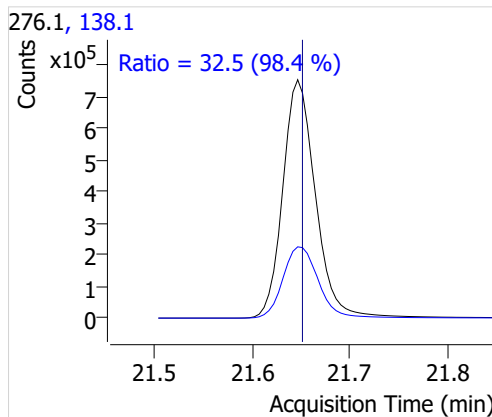
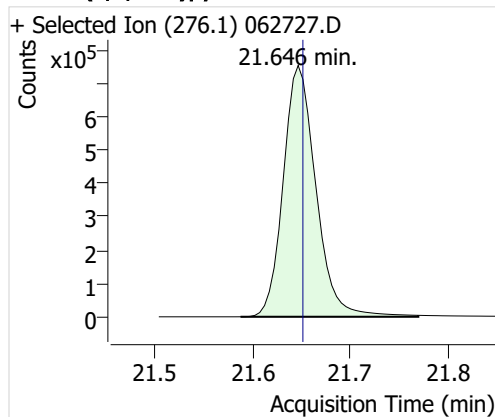
benzo (k) fluoranthene



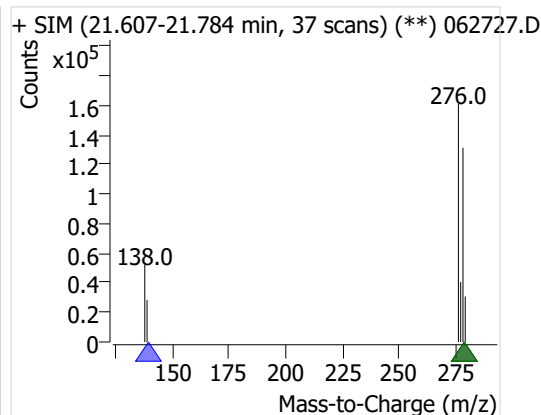
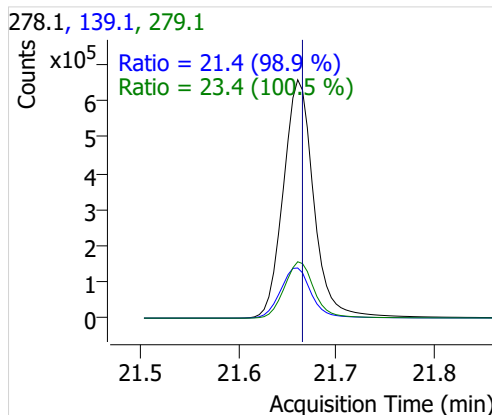
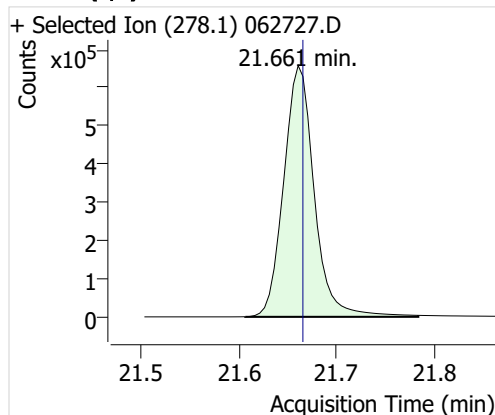
benzo (a) pyrene



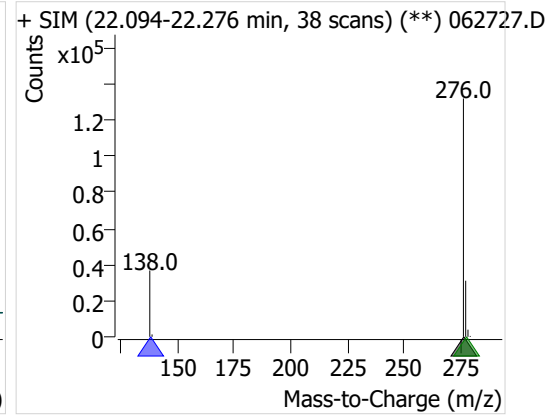
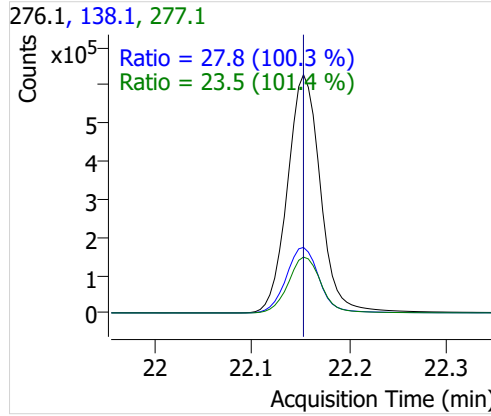
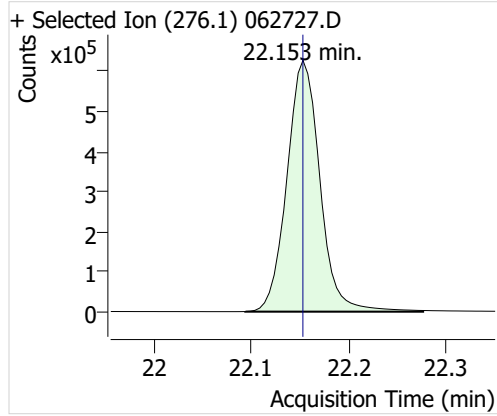
Indeno(1,2,3-cd)pyrene



Dibenz (a,h) anthracene



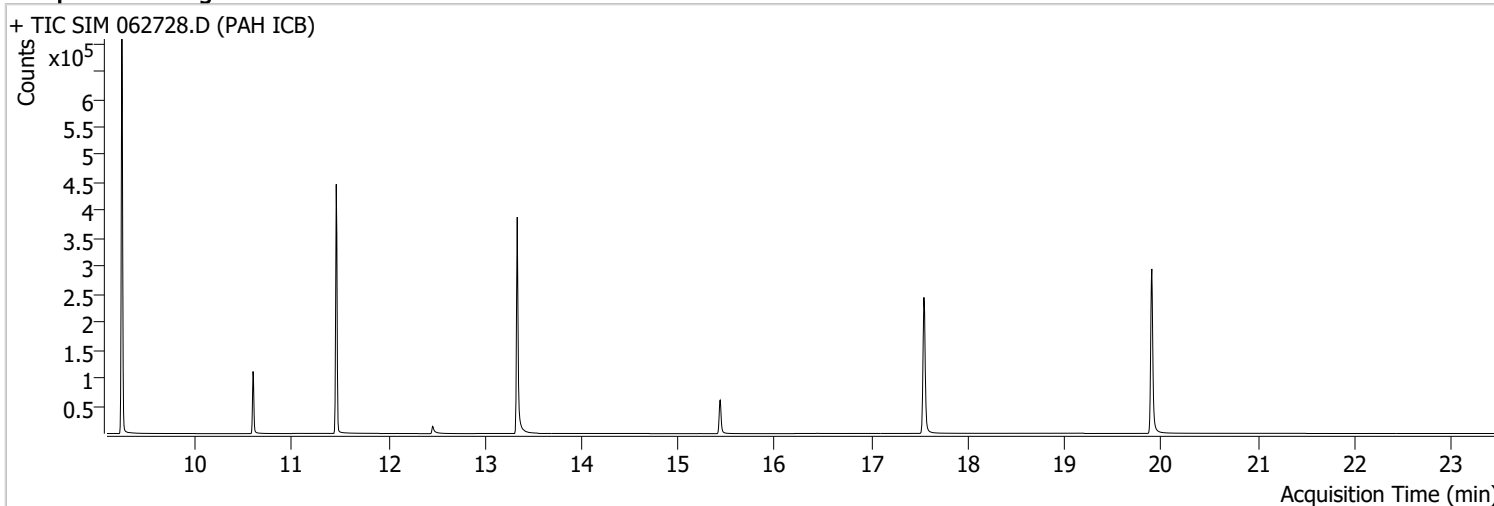
Benzo (g,h,i) perylene



Quantitative Analysis Complete Report

Batch Path	C:\GC-14\Data\2023\062723\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	6/29/2023 12:01 PM	Reporter Name	FA\GC14
Report Time	6/29/2023 12:02:26 PM	Batch State	Processed
Last Calib Update	6/29/2023 12:00 PM	Quant Report Version	10.0
Quant Batch Version	10.0		
Acq. Time	6/27/2023 10:24 PM	Data File	062728.D
Sample Type	Sample	Sample Name	PAH ICB
Dilution	1	Acq. Method	8270E_SIM_625

Sample Chromatogram

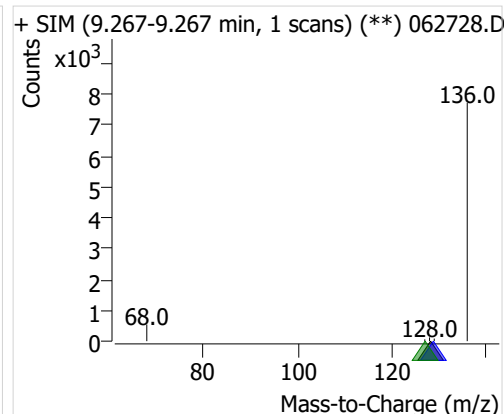
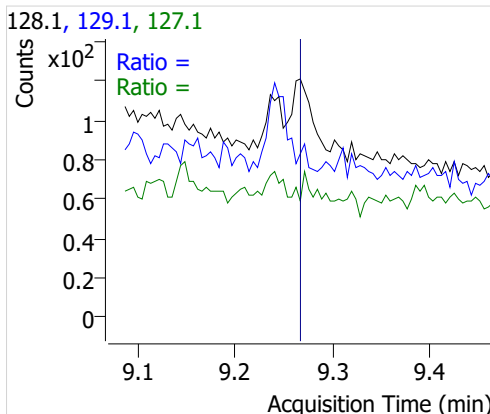
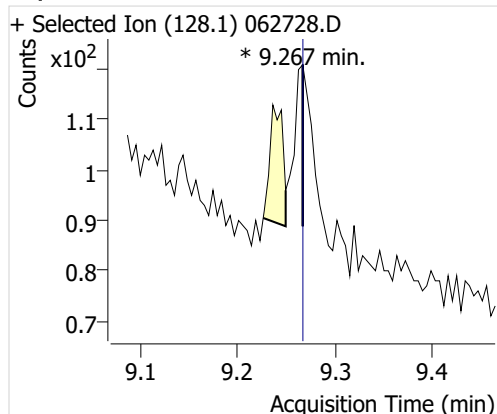


Compound	ISTD	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Units
Naphthalene	Naphthalene-d8 (IS)	9.267	0	657139	0.0000	ND	µg/L
2-Methylnaphthalene	Naphthalene-d8 (IS)	10.155	0	657139	0.0000	ND	µg/L
1-Methylnaphthalene	Naphthalene-d8 (IS)	10.275	0	657139	0.0000	ND	µg/L
2-Fluorobiphenyl (surr)	Naphthalene-d8 (IS)	10.599	84876	657139	0.1292	394.7934	µg/L
2-Chloronaphthalene	Naphthalene-d8 (IS)	10.766	0	657139	0.0000	ND	µg/L
Dimethyl phthalate	Naphthalene-d8 (IS)	11.066	0	657139	0.0000	ND	µg/L
Acenaphthylene	Naphthalene-d8 (IS)	11.288	24	657139	0.0000	0.0990	µg/L
Acenaphthene	Acenaphthene-d10 (IS)	11.503	0	216300	0.0000	ND	µg/L
Dibenzofuran	Acenaphthene-d10 (IS)	11.730	0	216300	0.0000	ND	µg/L
Diethylphthalate	Acenaphthene-d10 (IS)	11.977	0	216300	0.0000	ND	µg/L
Fluorene	Acenaphthene-d10 (IS)	12.159	0	216300	0.0000	ND	µg/L
2,4,6-Tribromophenol	Acenaphthene-d10 (IS)	12.459	10459	216300	0.0484	722.0267	µg/L
Pentachlorophenol	Acenaphthene-d10 (IS)	12.965	0	216300	0.0000	ND	µg/L
Phenanthrene	Phenanthrene-d10 (IS)	13.360	0	416778	0.0000	ND	µg/L
Anthracene	Phenanthrene-d10 (IS)	13.434	0	416778	0.0000	ND	µg/L
Carbazole	Phenanthrene-d10 (IS)	13.641	0	416778	0.0000	ND	µg/L
Di-n-butyl phthalate	Phenanthrene-d10 (IS)	14.024	50	416778	0.0001	0.1850	µg/L
Fluoranthene	Phenanthrene-d10 (IS)	14.893	0	416778	0.0000	ND	µg/L
Pyrene	Phenanthrene-d10 (IS)	15.229	211	416778	0.0005	0.7157	µg/L
Terphenyl-d14 (surr)	Phenanthrene-d10 (IS)	15.434	72080	416778	0.1729	414.7458	µg/L
Benzyl Butyl phthalate	Phenanthrene-d10 (IS)			416778		ND	µg/L
bis (2-Ethylhexyl) adipate	Phenanthrene-d10 (IS)	16.441	0	416778	0.0000	ND	µg/L
Benzo (a) anthracene	Phenanthrene-d10 (IS)	17.543	0	416778	0.0000	ND	µg/L
bis(2-Ethylhexyl) phthalate	Chrysene-d12 (IS)	17.558	0	315240	0.0000	ND	µg/L
Chrysene	Chrysene-d12 (IS)	17.594	76	315240	0.0002	0.3032	µg/L
Di-n-octyl phthalate	Chrysene-d12 (IS)	18.787	0	315240	0.0000	ND	µg/L
benzo (b) fluoranthene	Chrysene-d12 (IS)	19.352	44	315240	0.0001	0.1980	µg/L
benzo (k) fluoranthene	Chrysene-d12 (IS)	19.396	44	315240	0.0001	0.1711	µg/L
benzo (a) pyrene	Chrysene-d12 (IS)	19.898	0	315240	0.0000	ND	µg/L
Indeno(1,2,3-cd)pyrene	Perylene-d12 (IS)	21.686	0	373602	0.0000	ND	µg/L

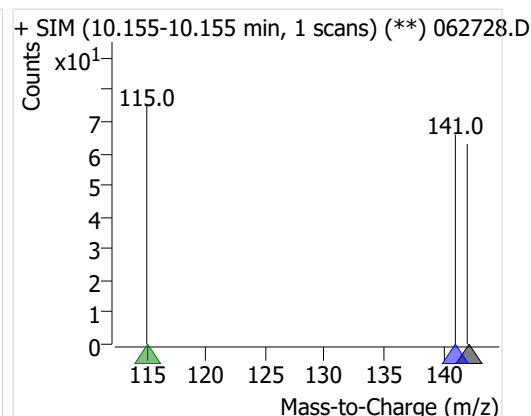
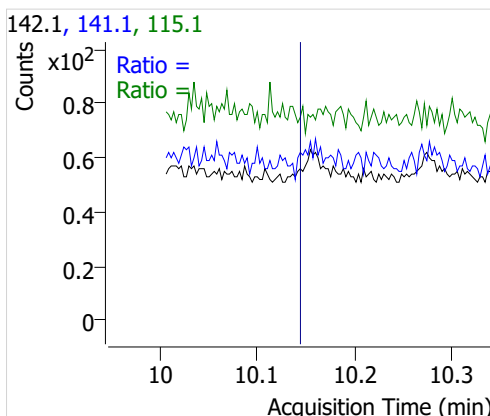
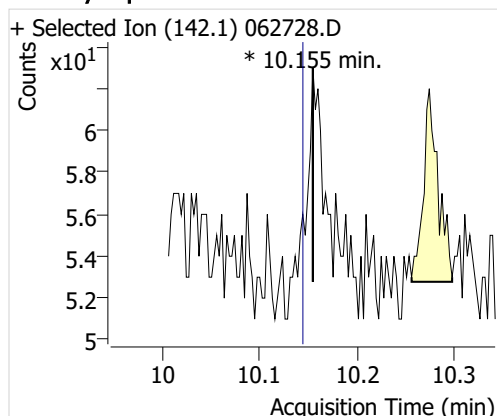
Quantitative Analysis Complete Report

Compound	ISTD	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Units
Dibenz (a,h) anthracene	Perylene-d12 (IS)	21.695	0	373602	0.0000	ND	µg/L
Benzo (g,h,i) perylene	Perylene-d12 (IS)	22.178	145	373602	0.0004	0.6517	µg/L

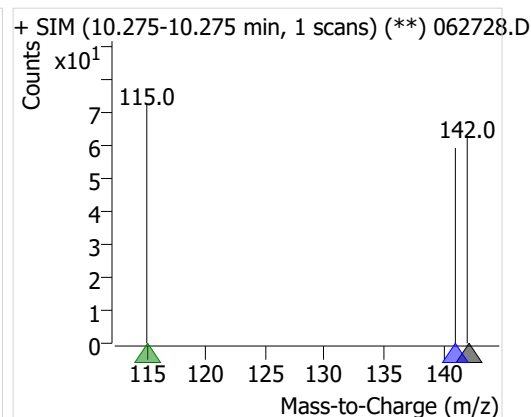
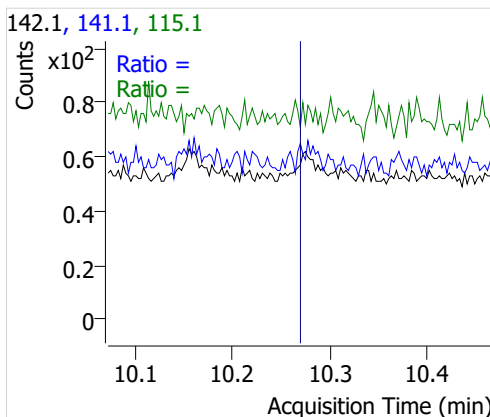
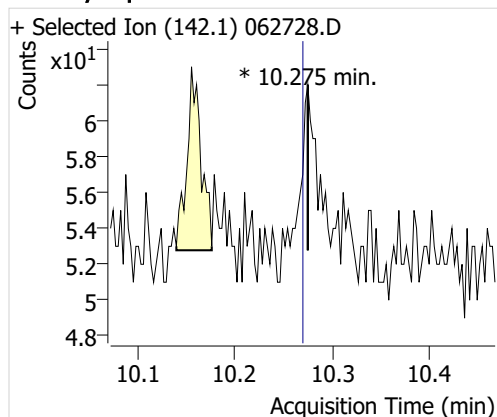
Naphthalene



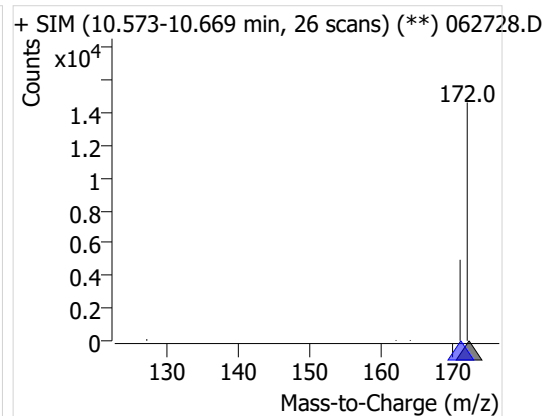
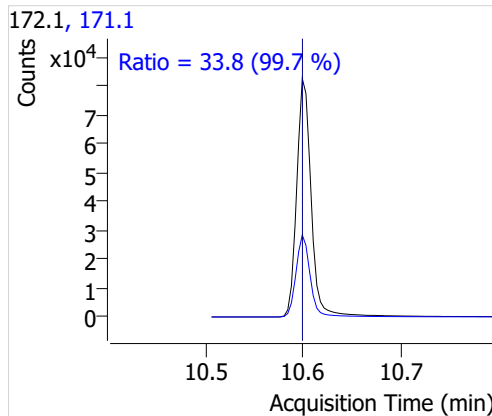
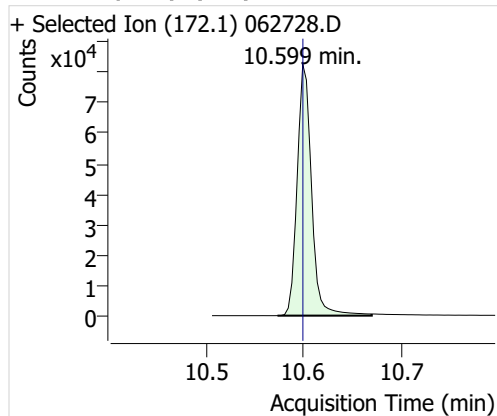
2-Methylnaphthalene



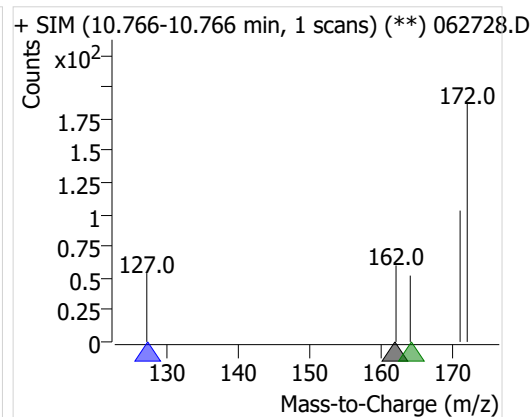
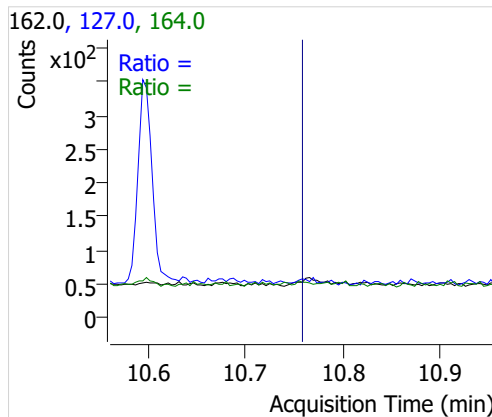
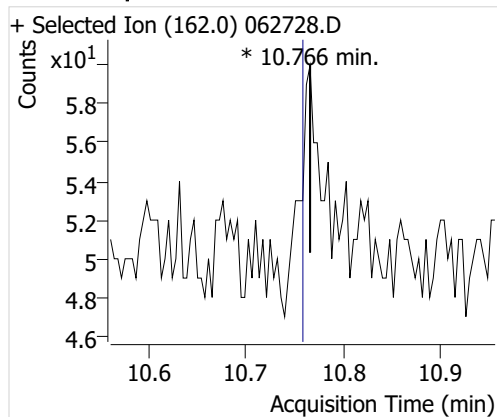
1-Methylnaphthalene



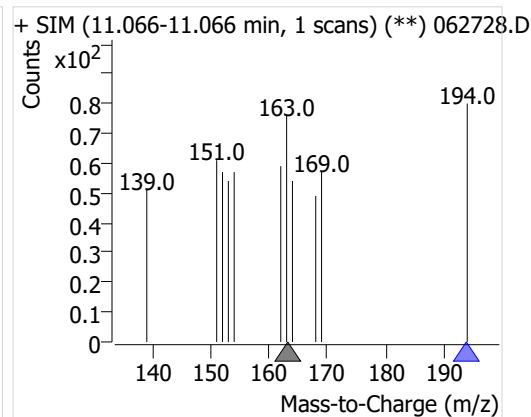
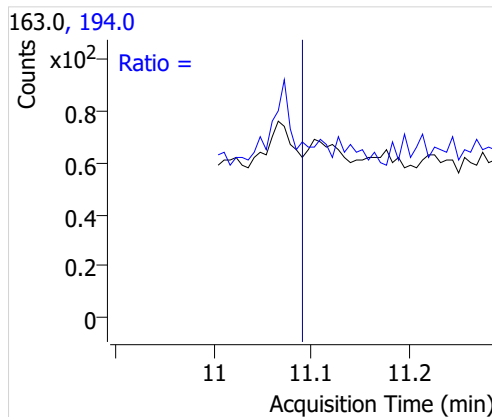
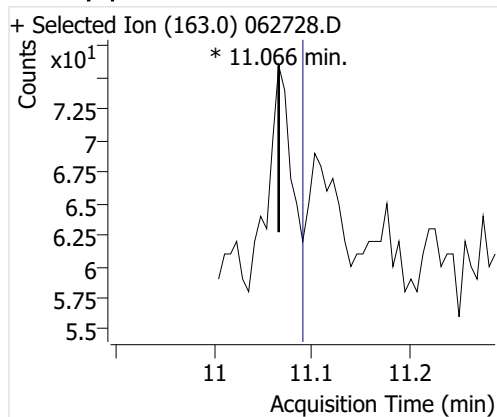
2-Fluorobiphenyl (surr)



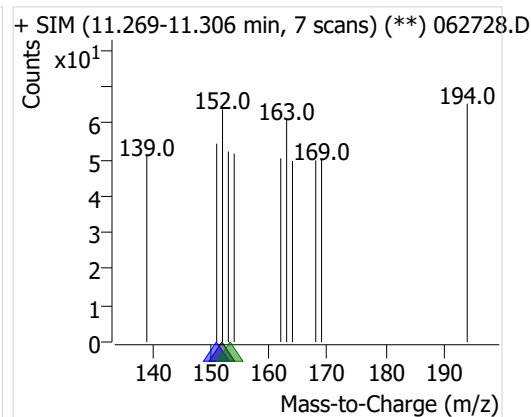
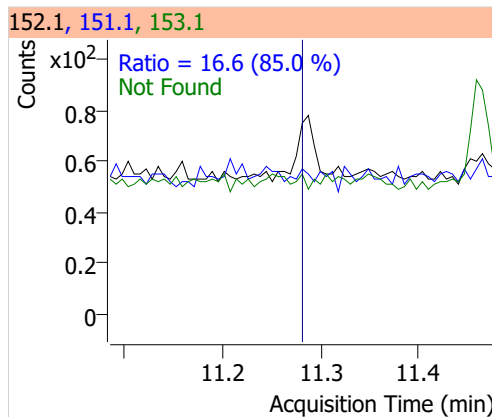
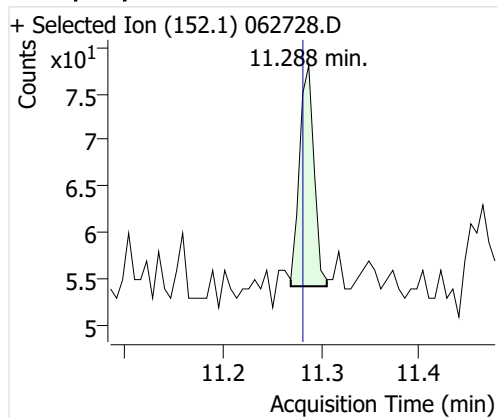
2-Chloronaphthalene



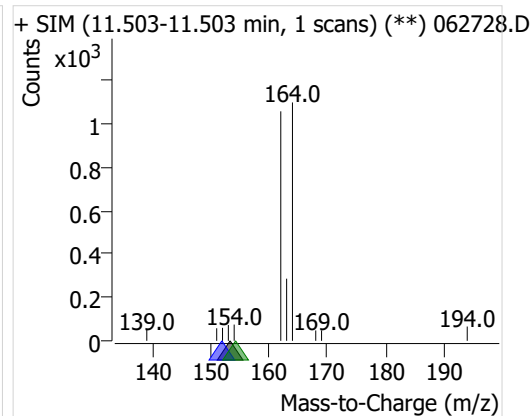
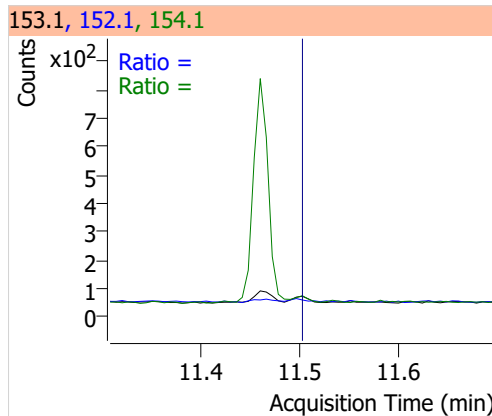
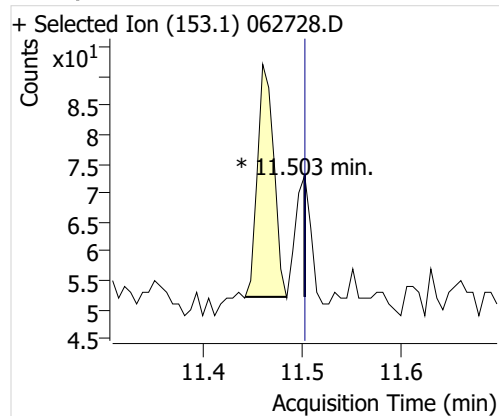
Dimethyl phthalate



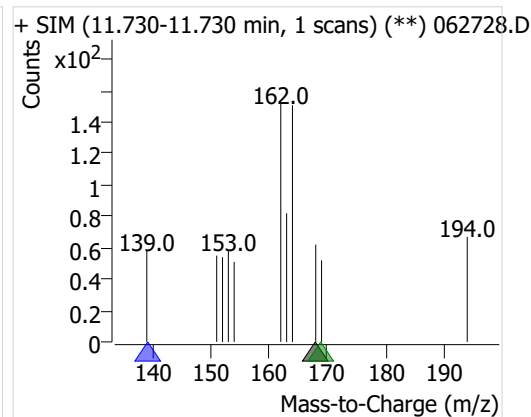
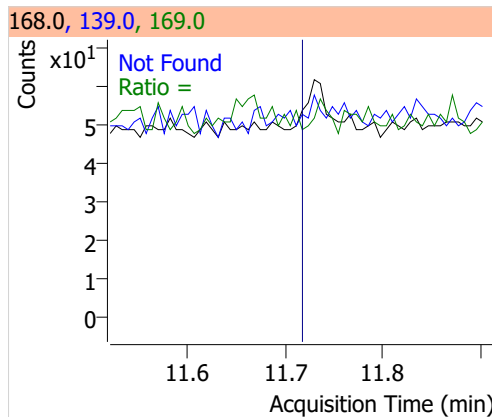
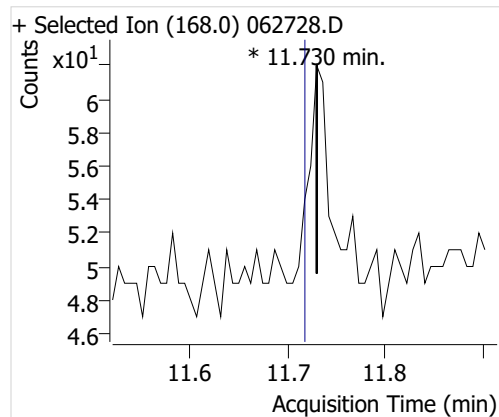
Acenaphthylene



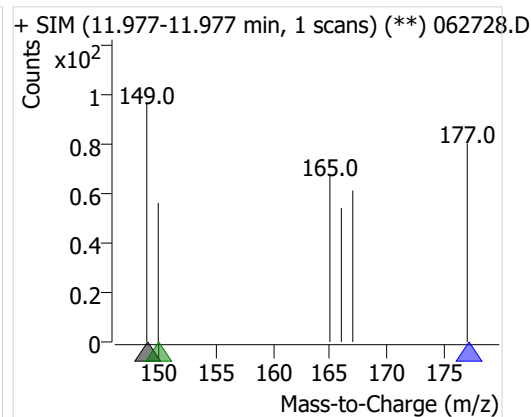
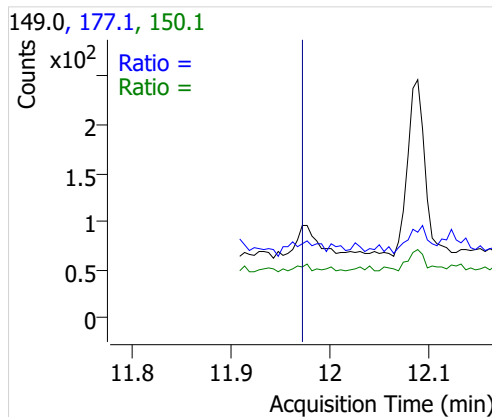
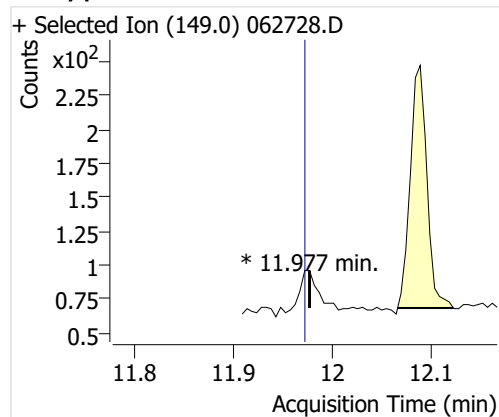
Acenaphthene



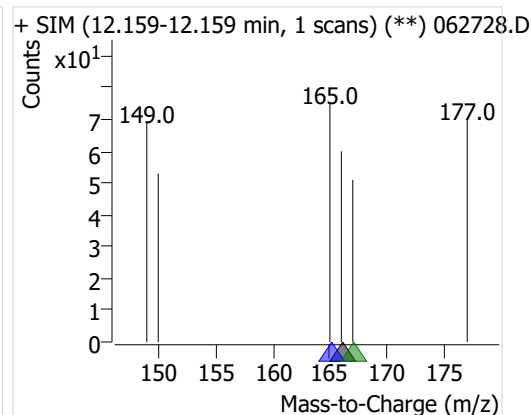
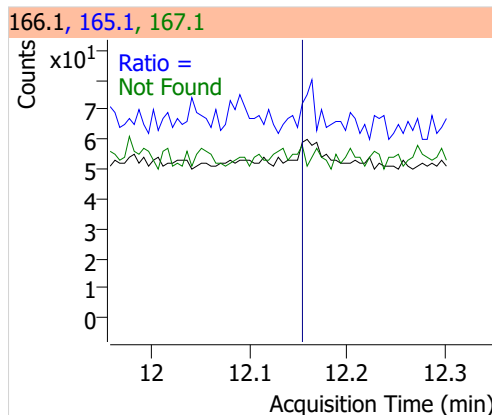
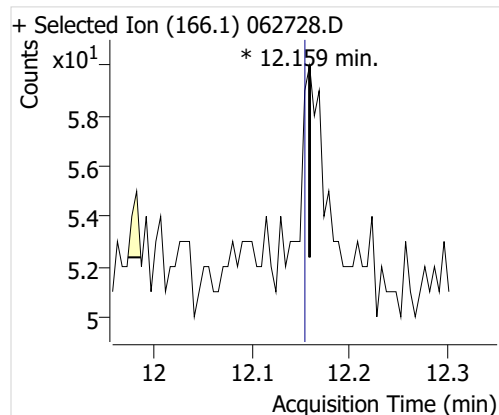
Dibenzofuran



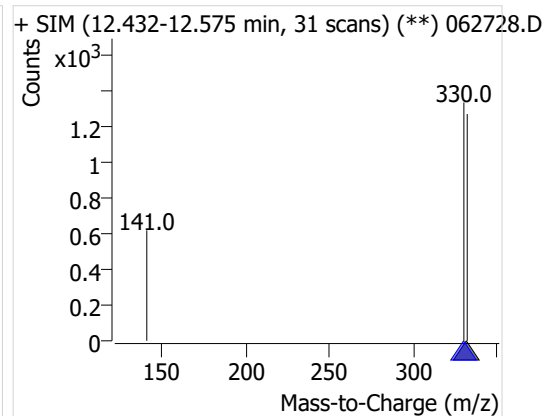
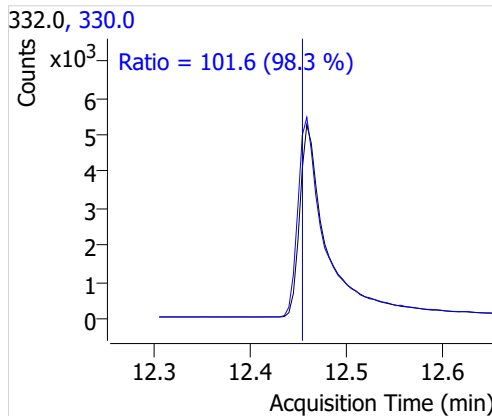
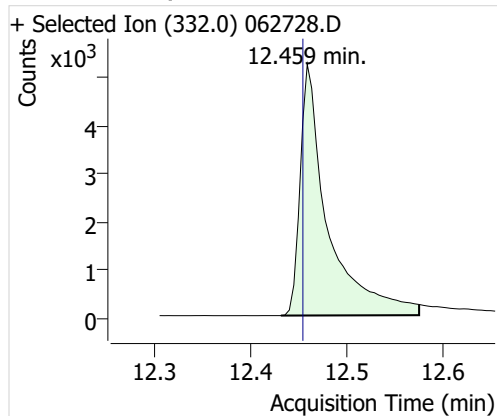
Diethylphthalate



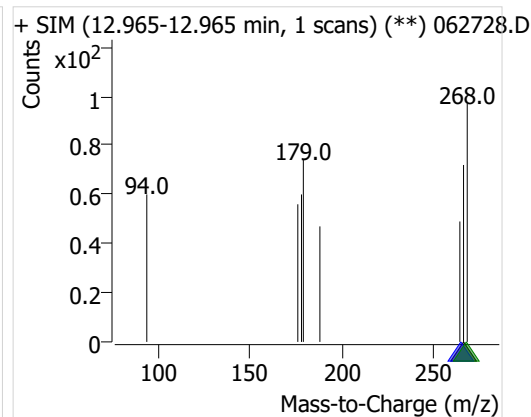
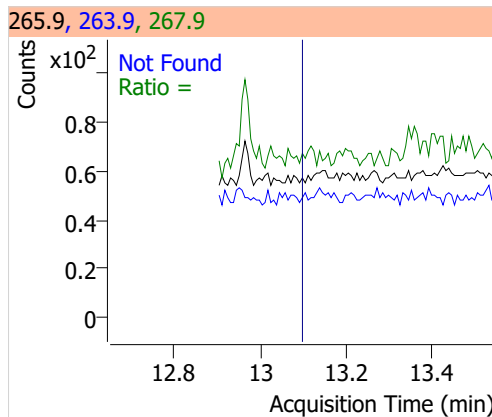
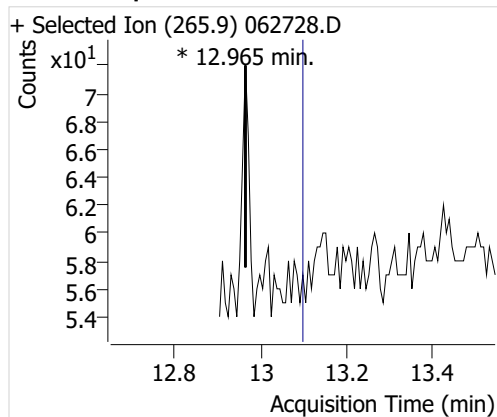
Fluorene



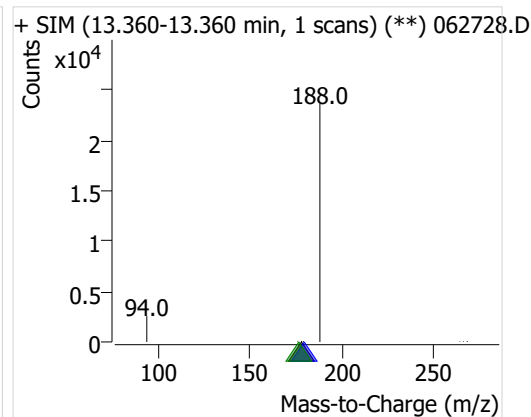
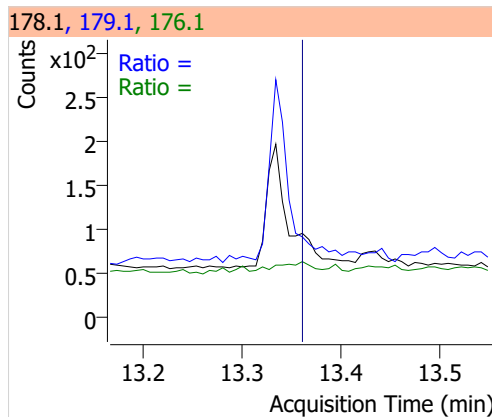
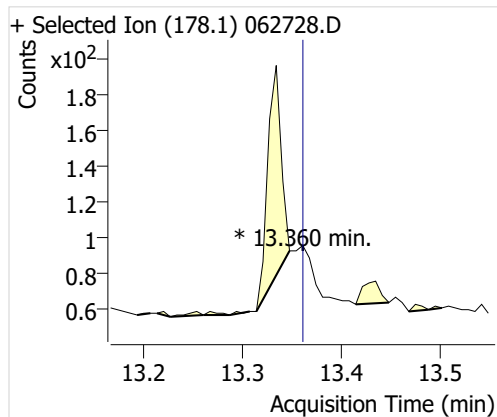
2,4,6-Tribromophenol



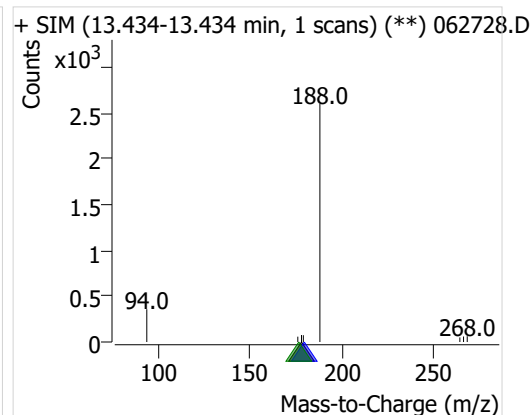
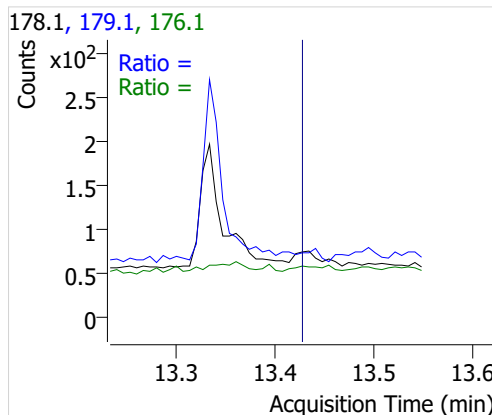
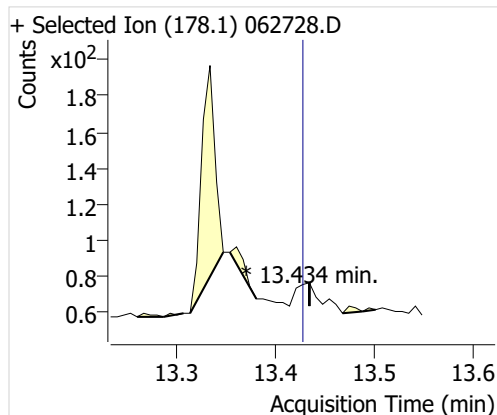
Pentachlorophenol



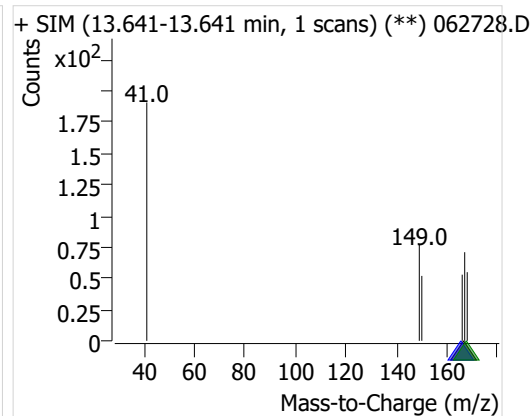
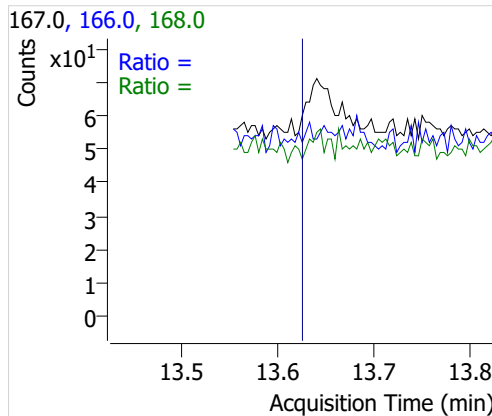
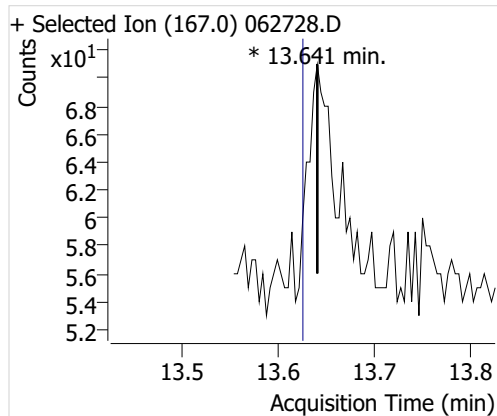
Phenanthrene



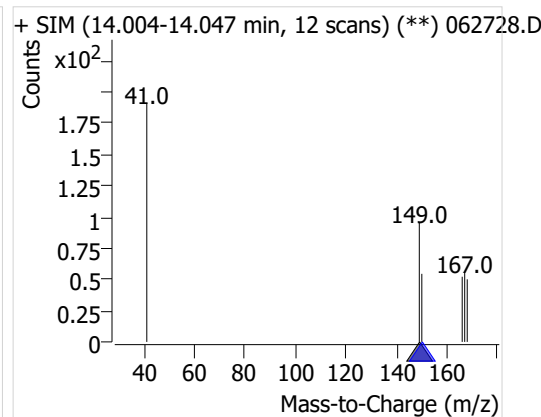
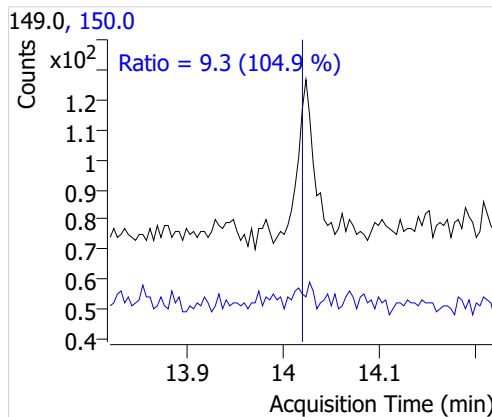
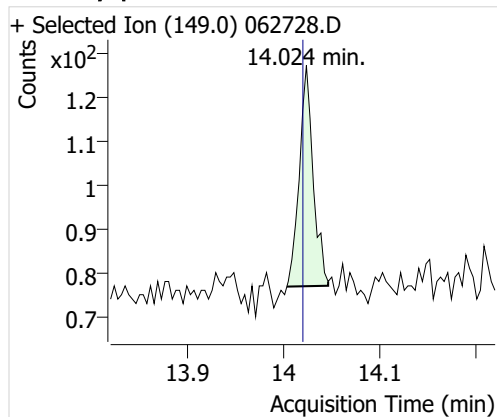
Anthracene



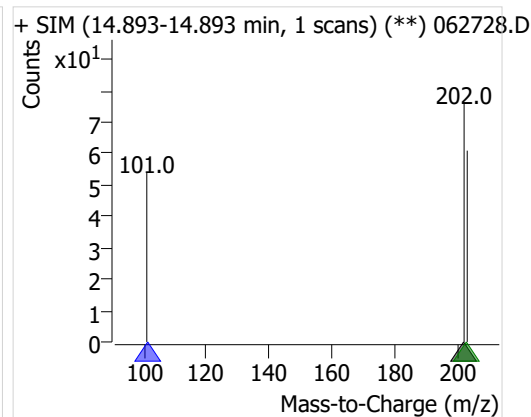
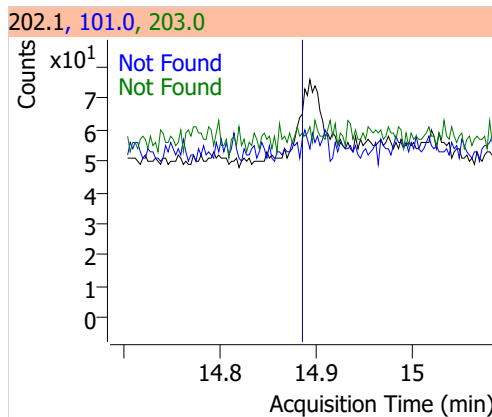
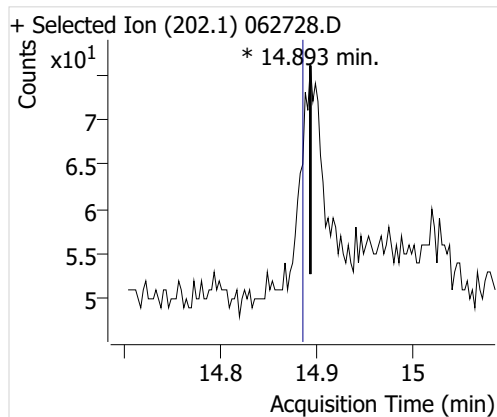
Carbazole



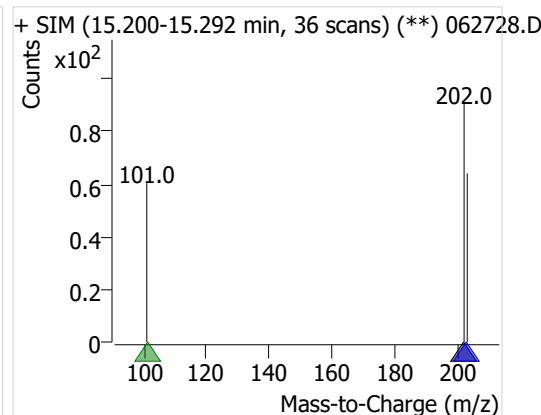
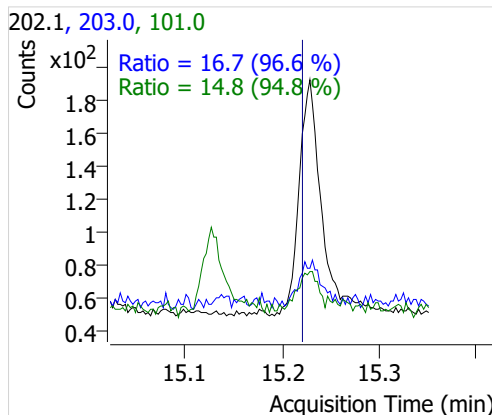
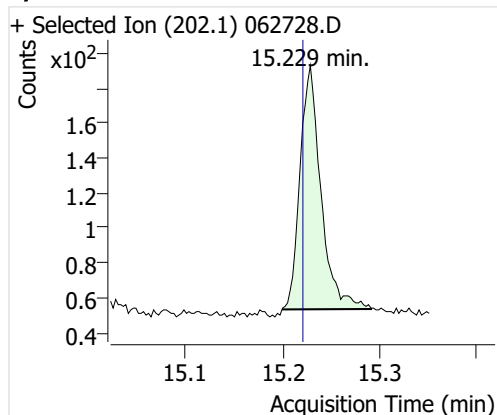
Di-n-butyl phthalate



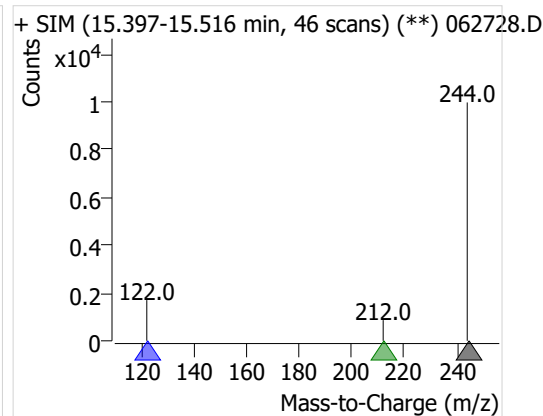
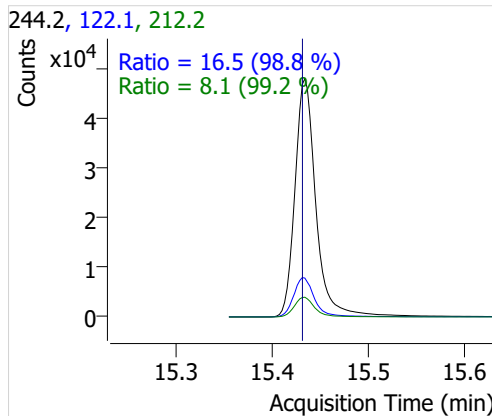
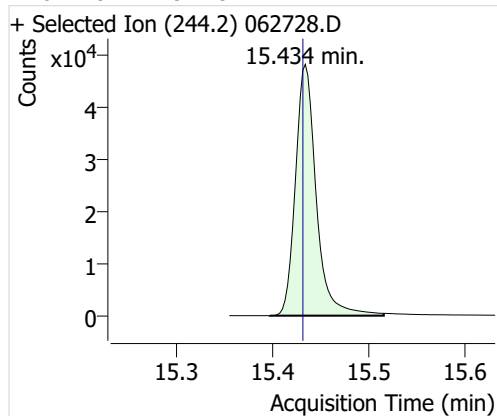
Fluoranthene



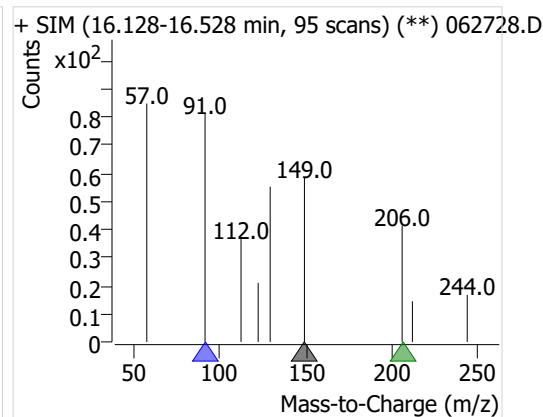
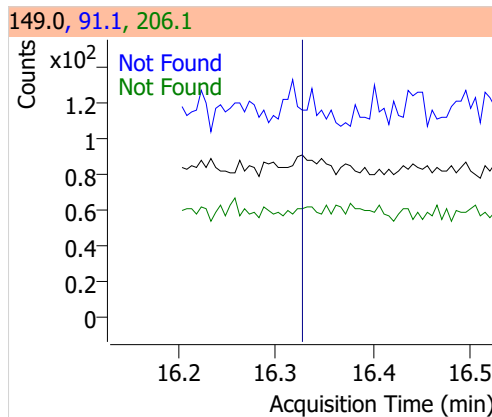
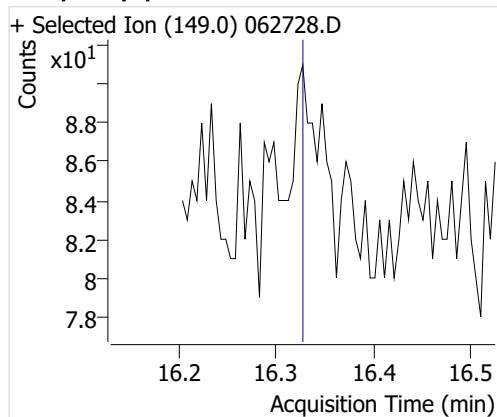
Pyrene



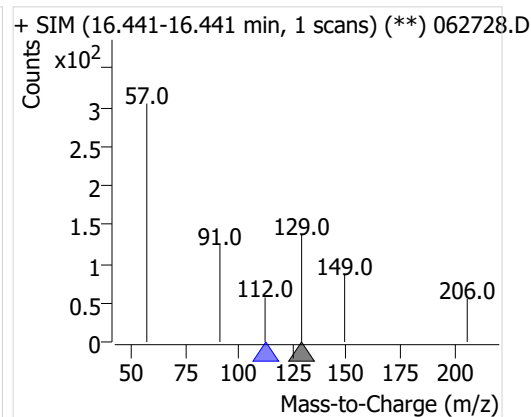
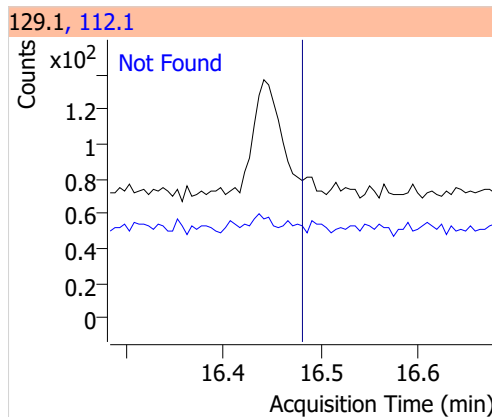
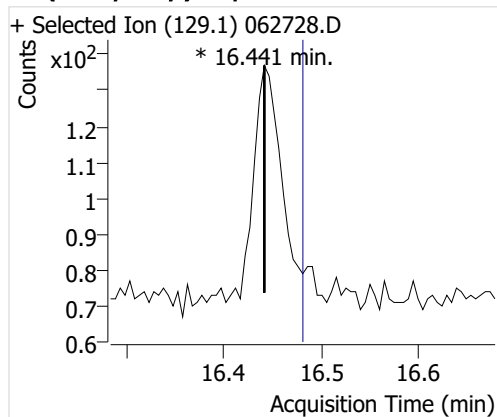
Terphenyl-d14 (surr)



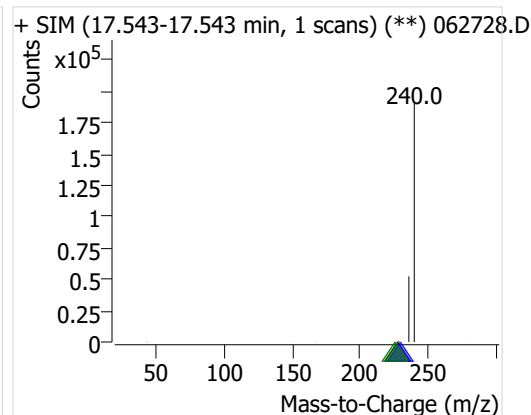
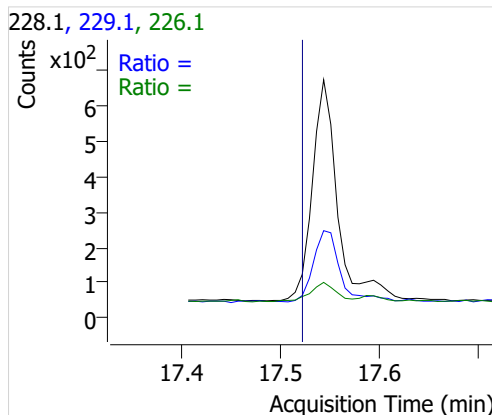
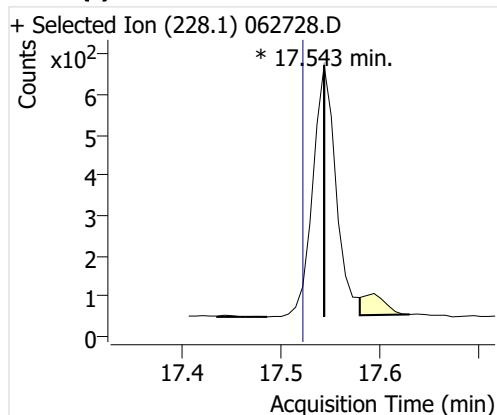
Benzyl Butyl phthalate



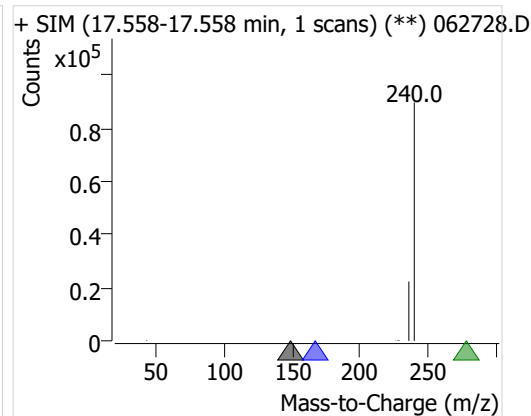
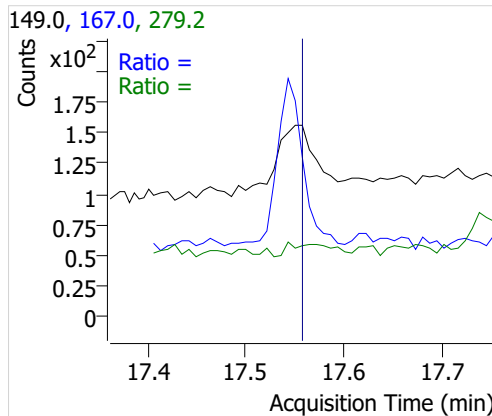
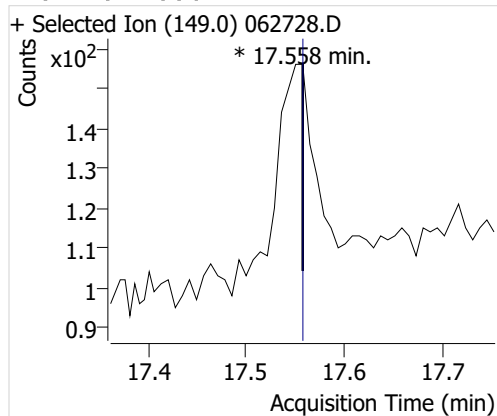
bis (2-Ethylhexyl) adipate



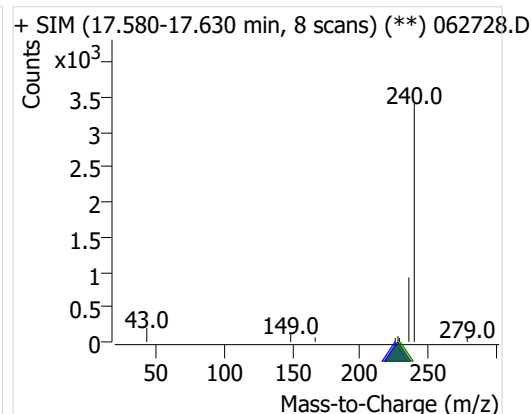
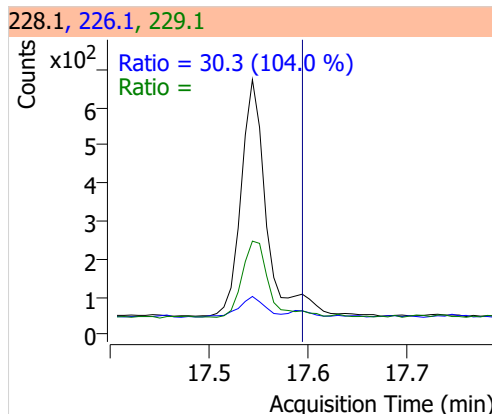
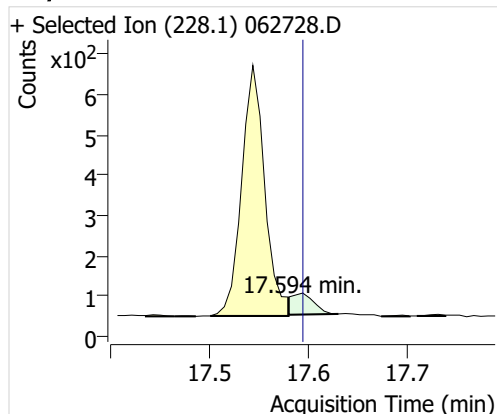
Benzo (a) anthracene



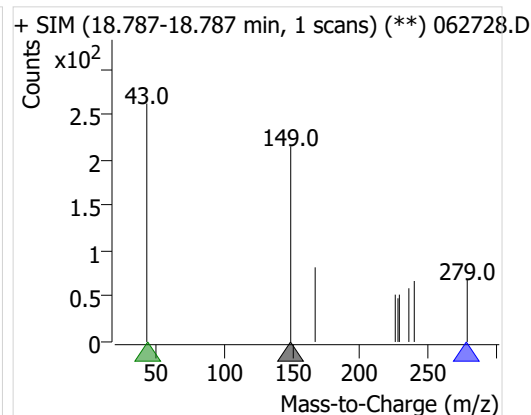
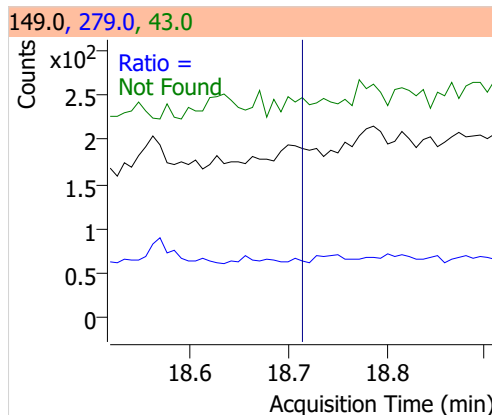
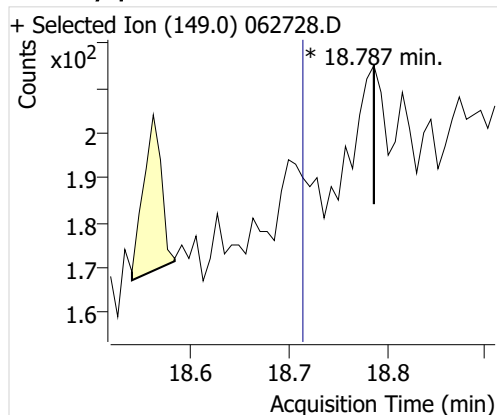
bis(2-Ethylhexyl) phthalate



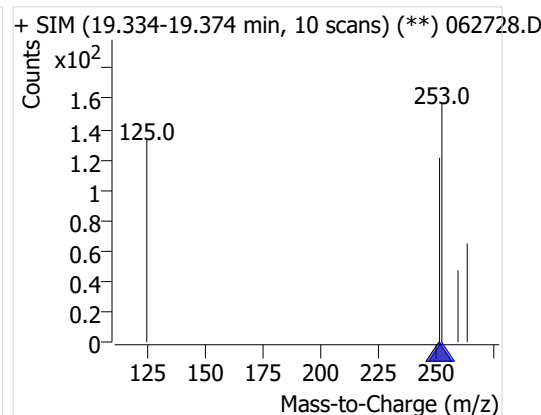
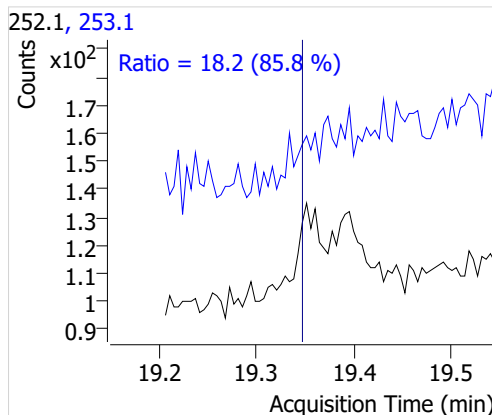
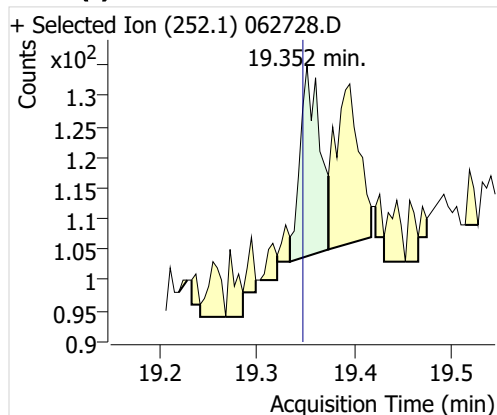
Chrysene



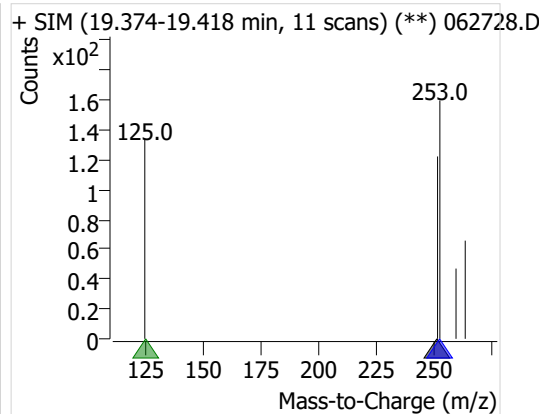
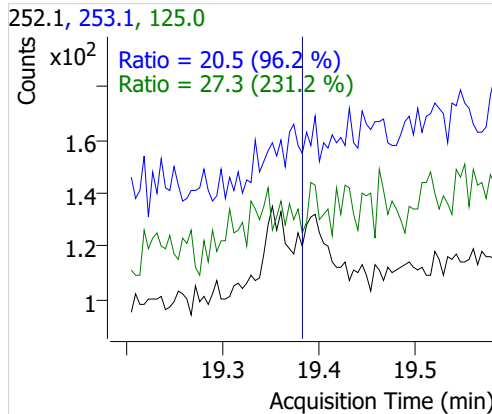
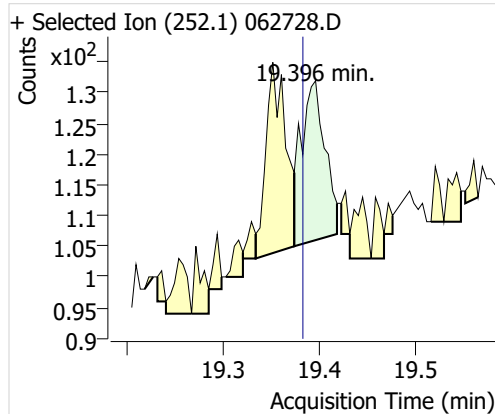
Di-n-octyl phthalate



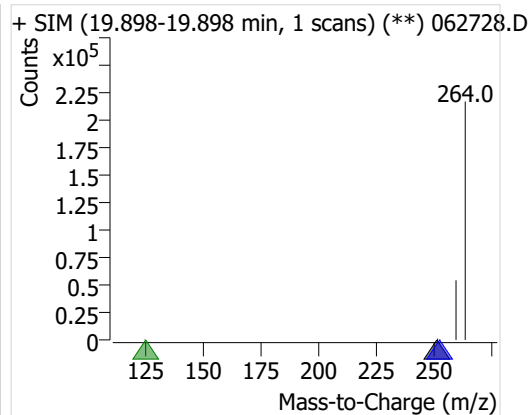
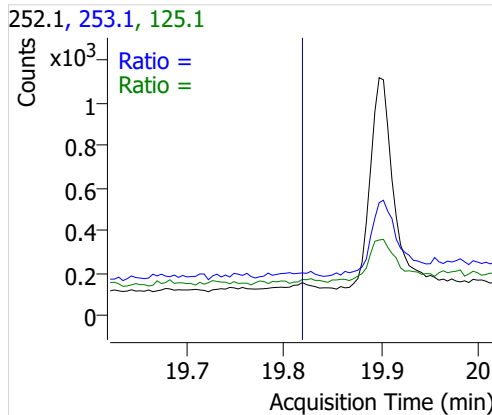
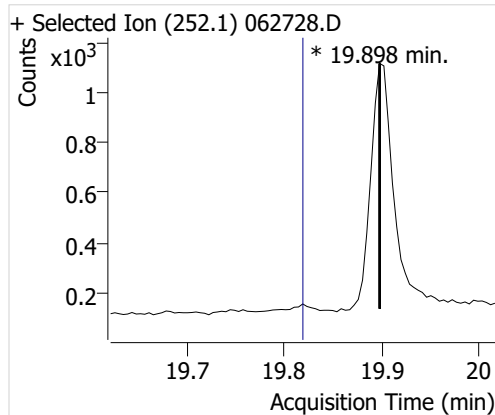
benzo (b) fluoranthene



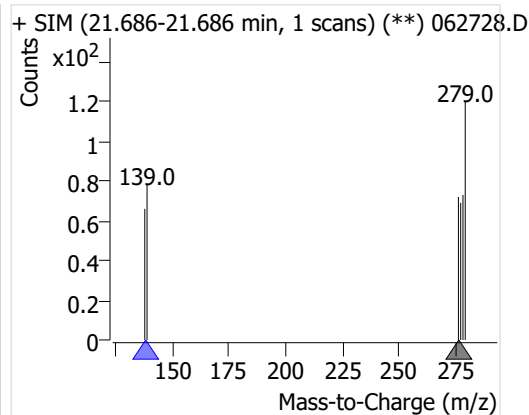
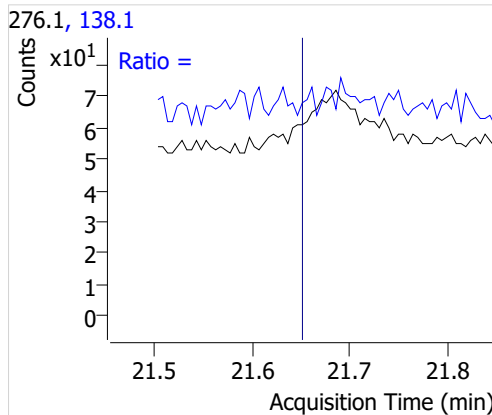
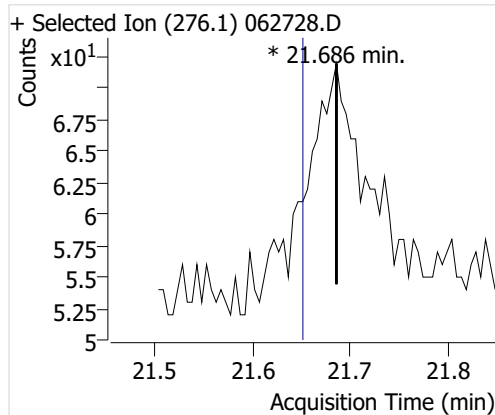
benzo (k) fluoranthene



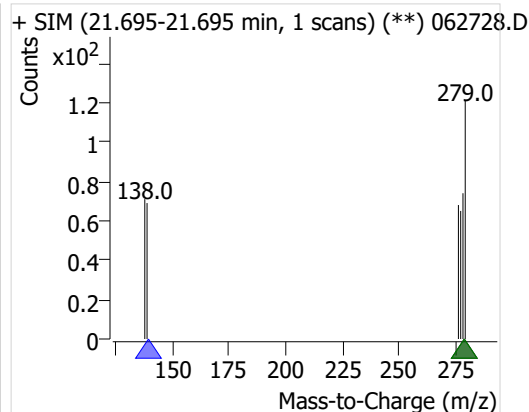
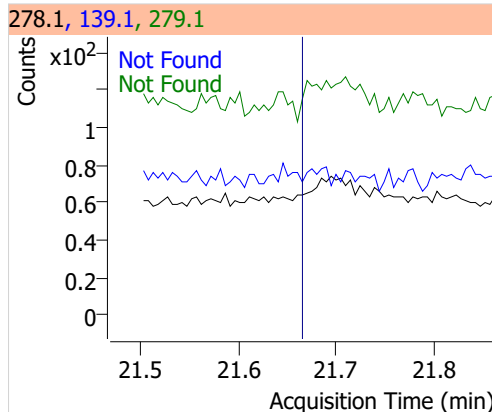
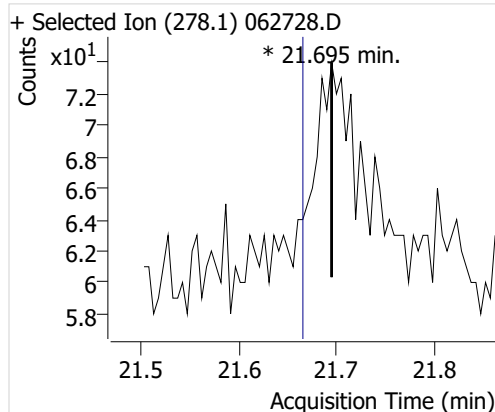
benzo (a) pyrene



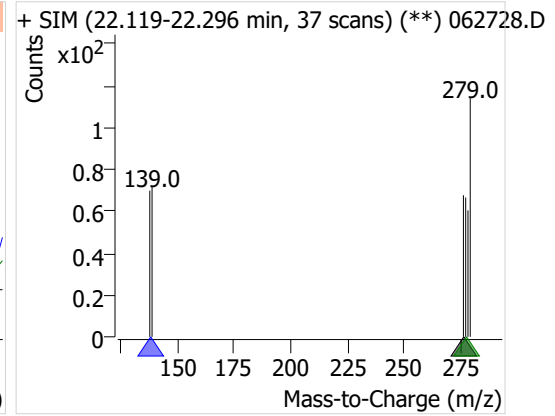
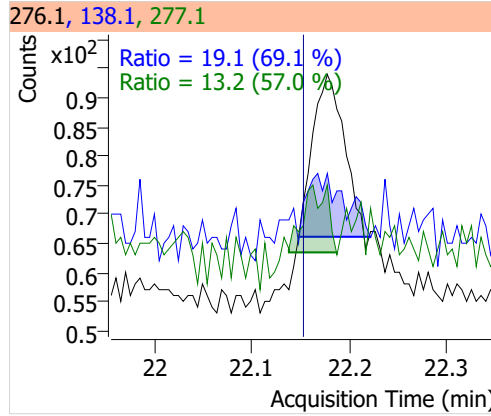
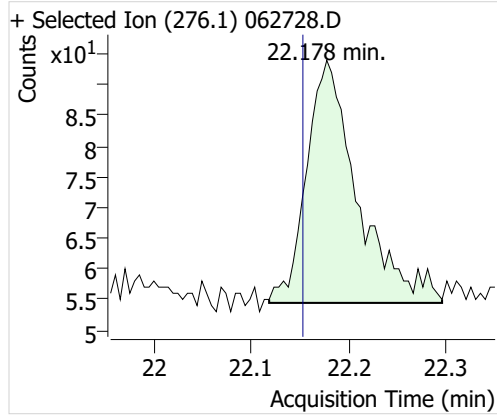
Indeno(1,2,3-cd)pyrene



Dibenz (a,h) anthracene



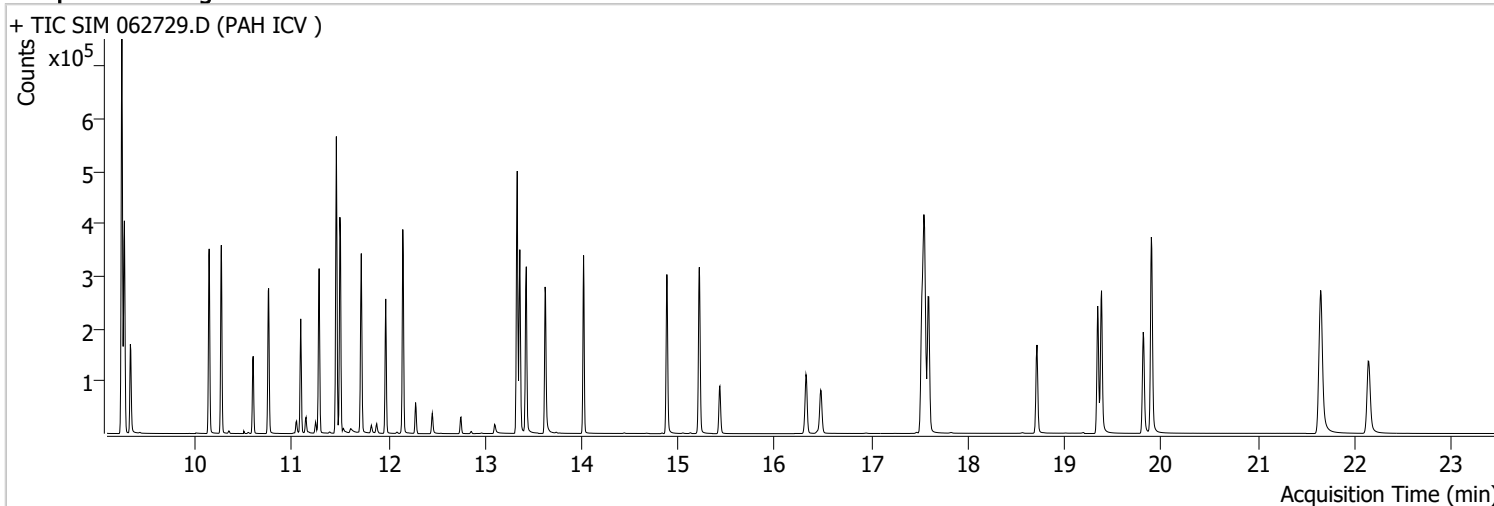
Benzo (g,h,i) perylene



Quantitative Analysis Complete Report

Batch Path	C:\GC-14\Data\2023\062723\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	6/29/2023 12:01 PM	Reporter Name	FA\GC14
Report Time	6/29/2023 12:02:30 PM	Batch State	Processed
Last Calib Update	6/29/2023 12:00 PM	Quant Report Version	10.0
Quant Batch Version	10.0		
Acq. Time	6/27/2023 10:51 PM	Data File	062729.D
Sample Type	Sample	Sample Name	PAH ICV
Dilution	1	Acq. Method	8270E_SIM_625

Sample Chromatogram

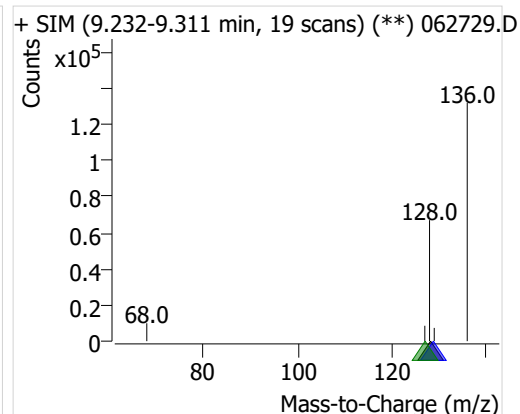
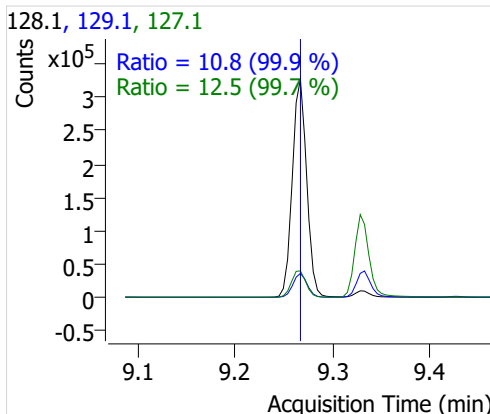
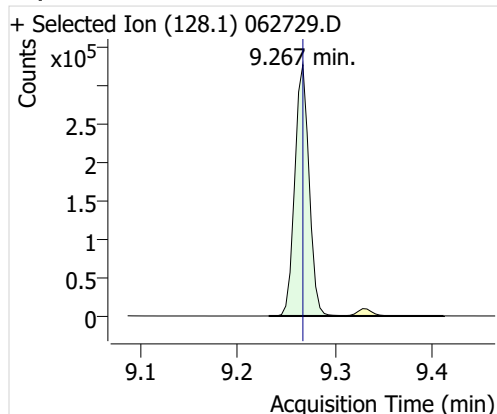


Compound	ISTD	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Units
Naphthalene	Naphthalene-d8 (IS)	9.267	334652	686536	0.4874	929.7903	µg/L
2-Methylnaphthalene	Naphthalene-d8 (IS)	10.145	157375	686536	0.2292	883.6056	µg/L
1-Methylnaphthalene	Naphthalene-d8 (IS)	10.270	154984	686536	0.2257	914.2574	µg/L
2-Fluorobiphenyl (surr)	Naphthalene-d8 (IS)	10.600	107364	686536	0.1564	478.0106	µg/L
2-Chloronaphthalene	Naphthalene-d8 (IS)	10.760	168498	686536	0.2454	874.2116	µg/L
Dimethyl phthalate	Naphthalene-d8 (IS)	11.092	173827	686536	0.2532	883.9947	µg/L
Acenaphthylene	Naphthalene-d8 (IS)	11.283	230631	686536	0.3359	881.4281	µg/L
Acenaphthene	Acenaphthene-d10 (IS)	11.498	166241	259510	0.6406	926.3283	µg/L
Dibenzofuran	Acenaphthene-d10 (IS)	11.719	238300	259510	0.9183	922.0721	µg/L
Diethylphthalate	Acenaphthene-d10 (IS)	11.972	177339	259510	0.6834	889.3958	µg/L
Fluorene	Acenaphthene-d10 (IS)	12.149	184117	259510	0.7095	917.0206	µg/L
2,4,6-Tribromophenol	Acenaphthene-d10 (IS)	12.454	18044	259510	0.0695	1021.4811	µg/L
Pentachlorophenol	Acenaphthene-d10 (IS)	13.099	11534	259510	0.0444	877.6347	µg/L
Phenanthrene	Phenanthrene-d10 (IS)	13.360	268112	458545	0.5847	950.1660	µg/L
Anthracene	Phenanthrene-d10 (IS)	13.427	258936	458545	0.5647	908.6919	µg/L
Carbazole	Phenanthrene-d10 (IS)	13.622	239565	458545	0.5224	908.9122	µg/L
Di-n-butyl phthalate	Phenanthrene-d10 (IS)	14.020	269511	458545	0.5878	885.2628	µg/L
Fluoranthene	Phenanthrene-d10 (IS)	14.882	272100	458545	0.5934	893.9592	µg/L
Pyrene	Phenanthrene-d10 (IS)	15.219	304445	458545	0.6639	938.1331	µg/L
Terphenyl-d14 (surr)	Phenanthrene-d10 (IS)	15.431	96104	458545	0.2096	502.6158	µg/L
Benzyl Butyl phthalate	Phenanthrene-d10 (IS)	16.323	94173	458545	0.2054	930.8842	µg/L
bis (2-Ethylhexyl) adipate	Phenanthrene-d10 (IS)	16.475	82693	458545	0.1803	912.0823	µg/L
Benzo (a) anthracene	Phenanthrene-d10 (IS)	17.522	244564	458545	0.5333	886.8972	µg/L
bis(2-Ethylhexyl) phthalate	Chrysene-d12 (IS)	17.558	163364	387316	0.4218	887.9939	µg/L
Chrysene	Chrysene-d12 (IS)	17.594	287659	387316	0.7427	934.0161	µg/L
Di-n-octyl phthalate	Chrysene-d12 (IS)	18.714	205345	387316	0.5302	921.8991	µg/L
benzo (b) fluoranthene	Chrysene-d12 (IS)	19.343	235020	387316	0.6068	847.1747	µg/L
benzo (k) fluoranthene	Chrysene-d12 (IS)	19.382	292428	387316	0.7550	925.7784	µg/L
benzo (a) pyrene	Chrysene-d12 (IS)	19.815	214981	387316	0.5551	890.4053	µg/L
Indeno(1,2,3-cd)pyrene	Perylene-d12 (IS)	21.646	268729	439023	0.6121	866.5045	µg/L

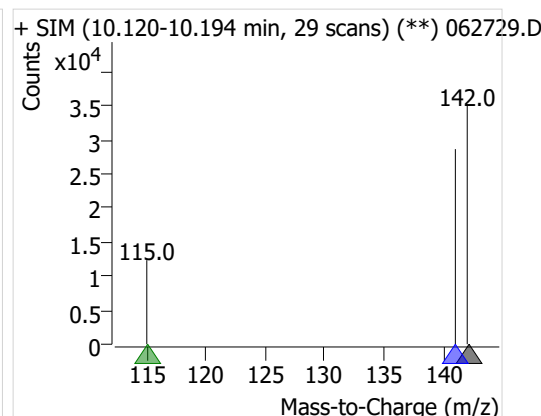
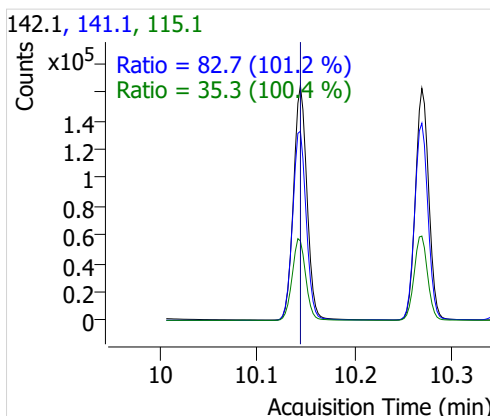
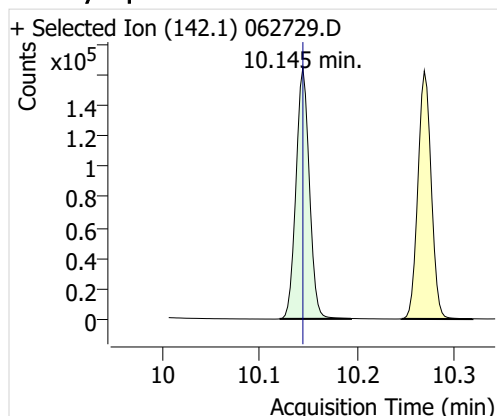
Quantitative Analysis Complete Report

Compound	ISTD	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Units
Dibenz (a,h) anthracene	Perylene-d12 (IS)	21.656	226217	439023	0.5153	869.1844	µg/L
Benzo (g,h,i) perylene	Perylene-d12 (IS)	22.143	228946	439023	0.5215	866.4990	µg/L

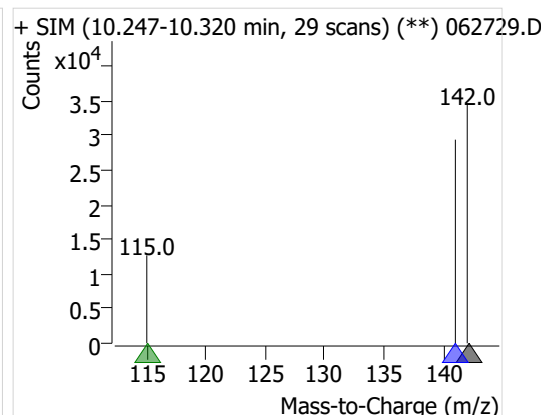
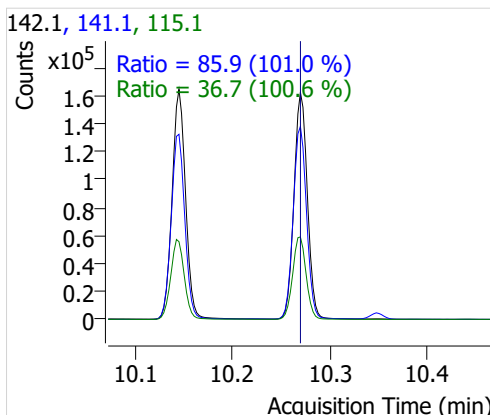
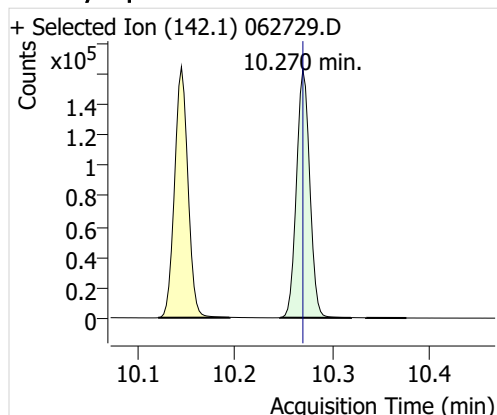
Naphthalene



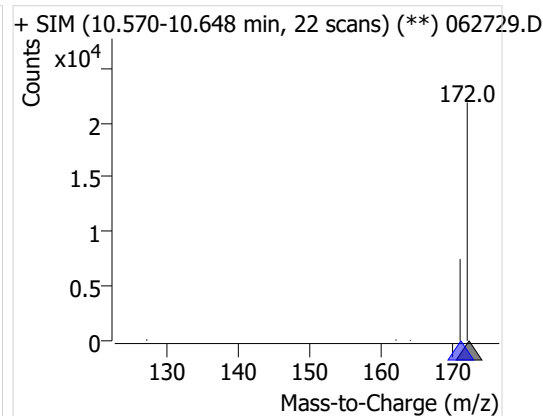
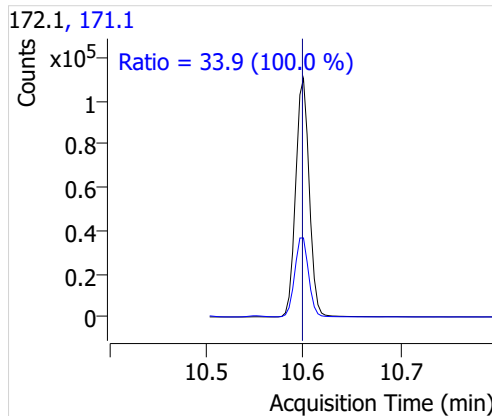
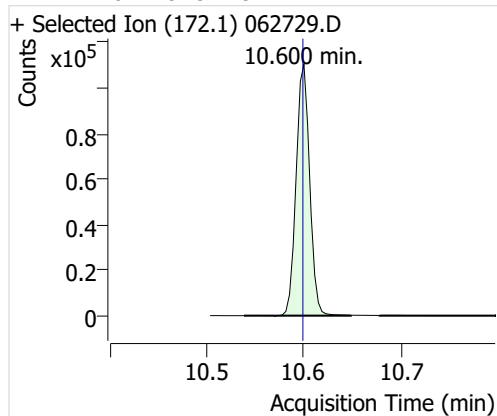
2-Methylnaphthalene



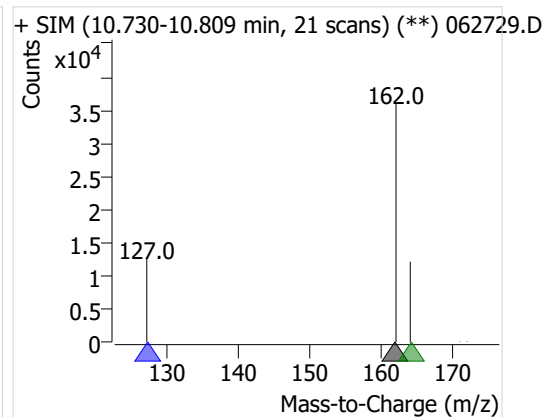
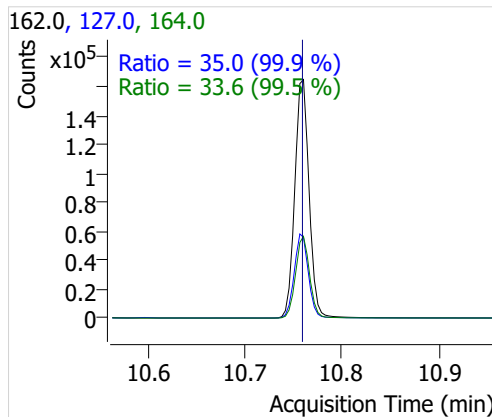
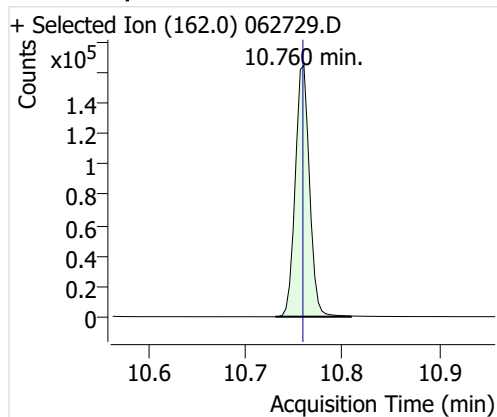
1-Methylnaphthalene



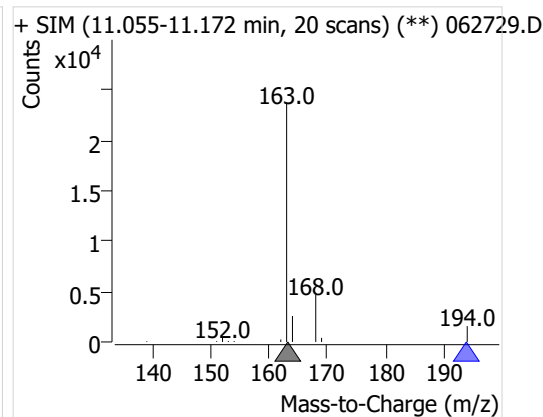
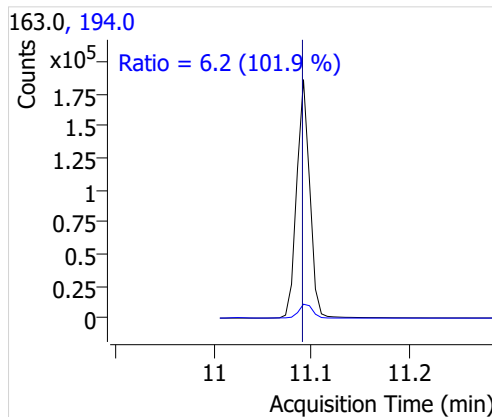
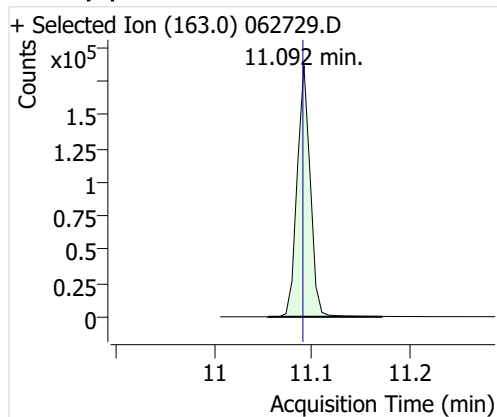
2-Fluorobiphenyl (surr)



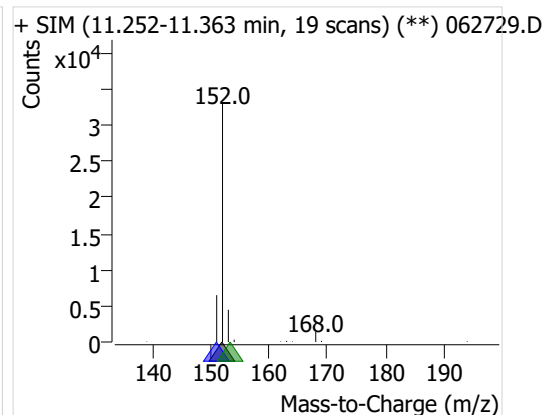
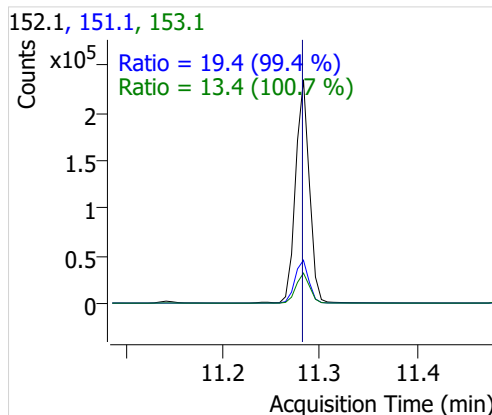
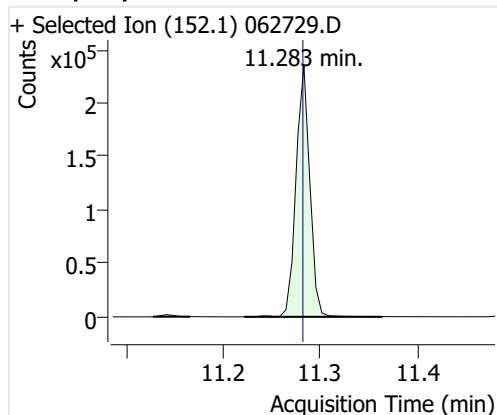
2-Chloronaphthalene



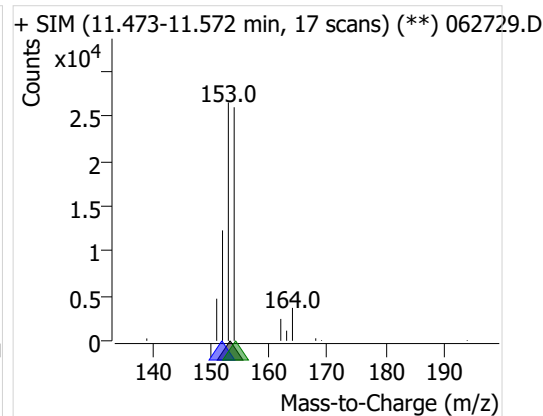
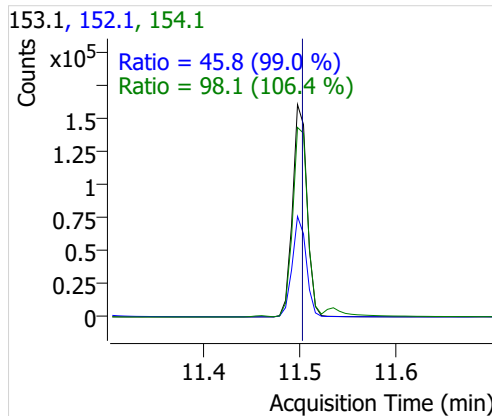
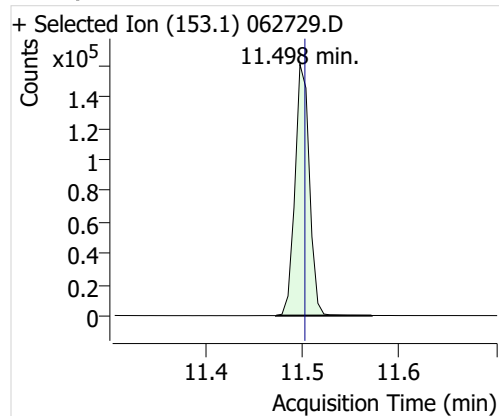
Dimethyl phthalate



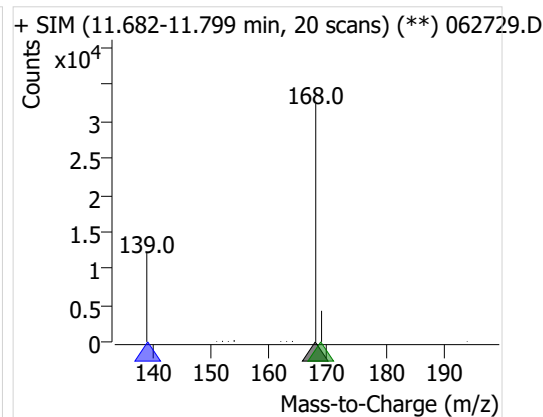
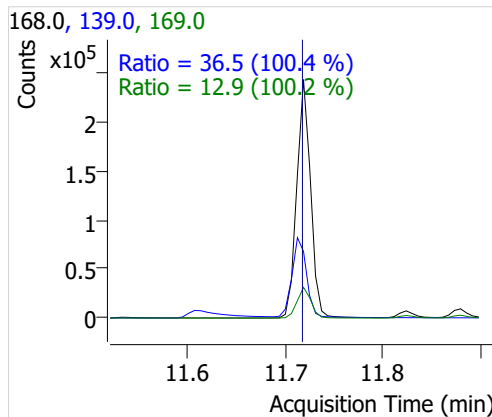
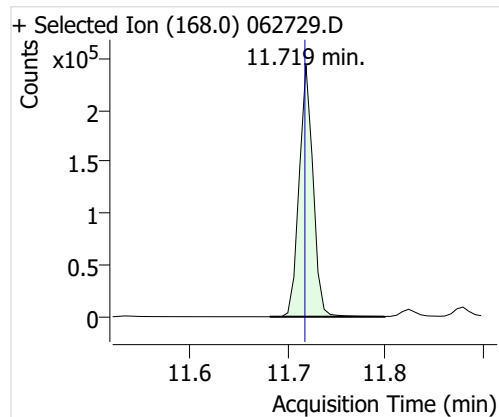
Acenaphthylene



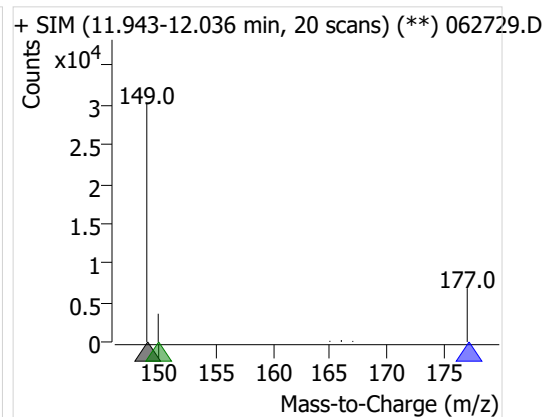
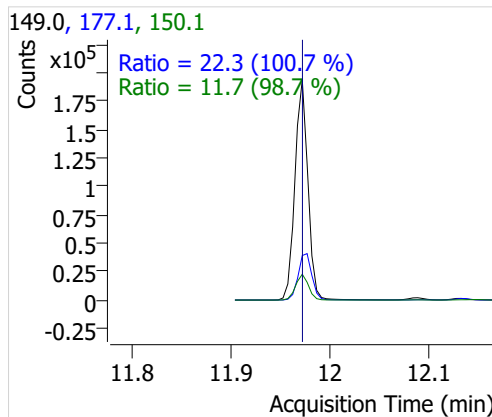
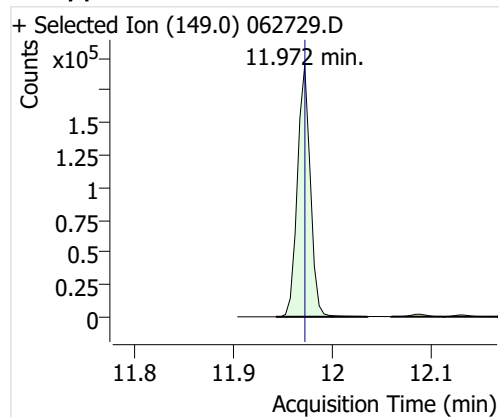
Acenaphthene



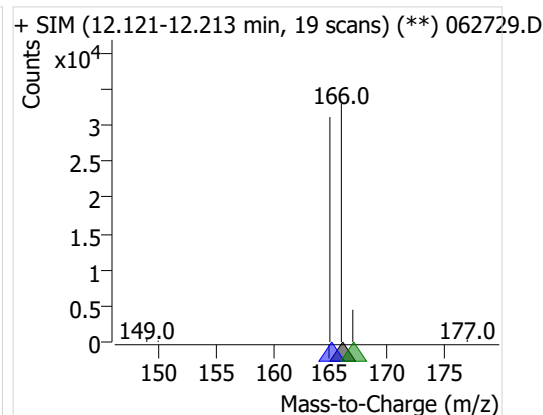
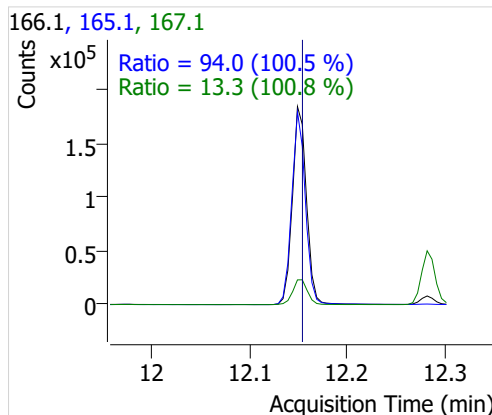
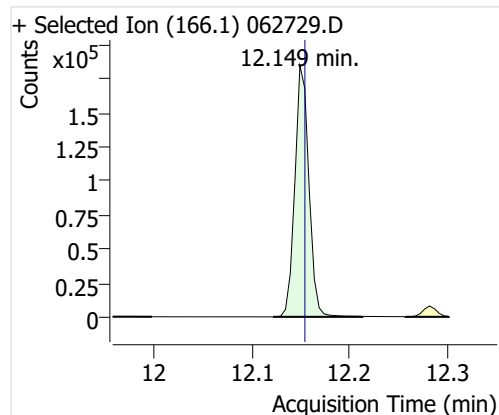
Dibenzofuran



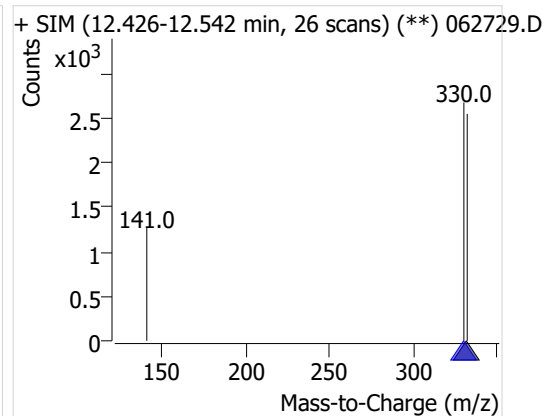
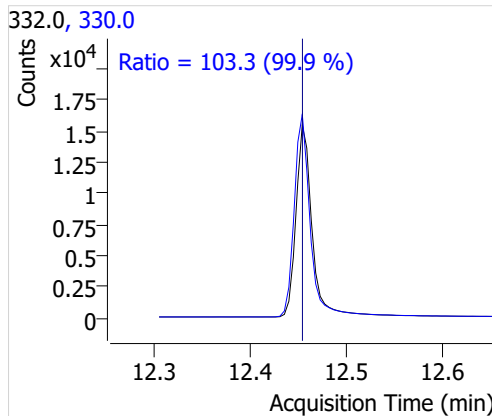
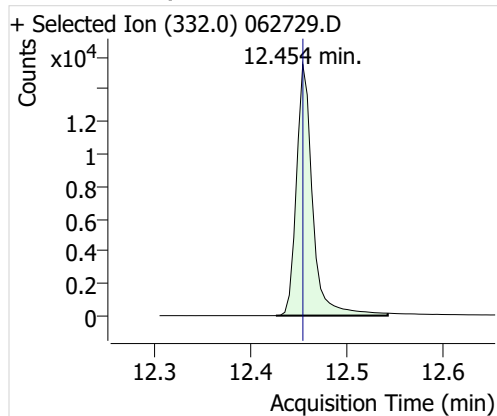
Diethylphthalate



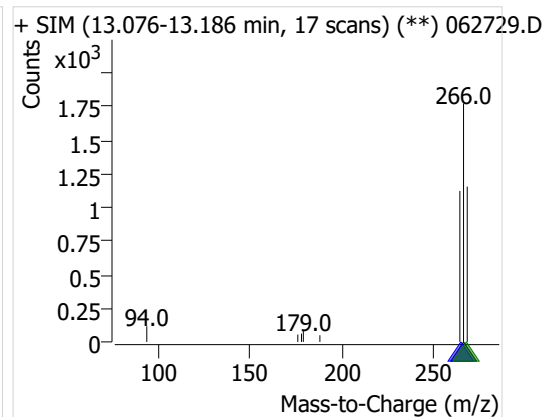
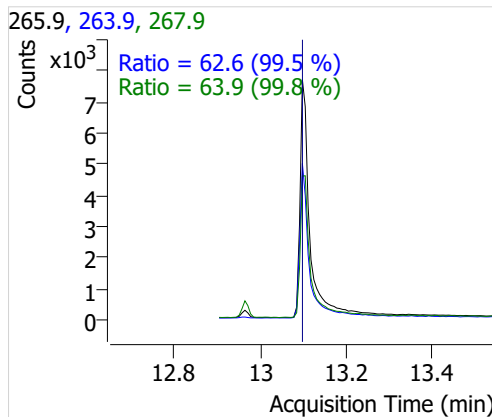
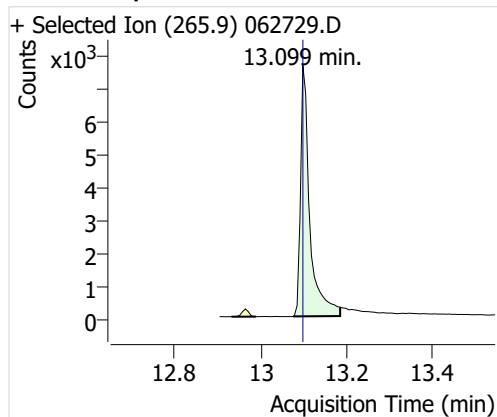
Fluorene



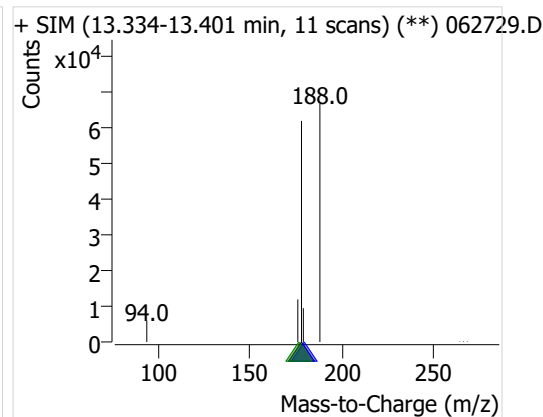
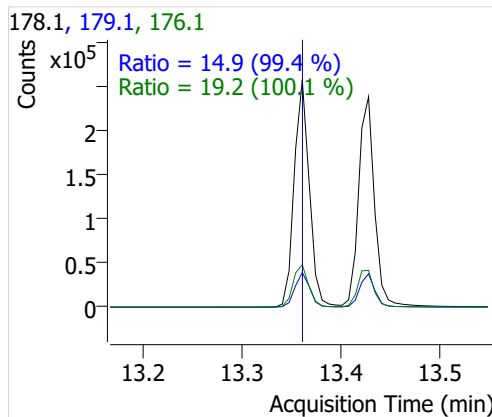
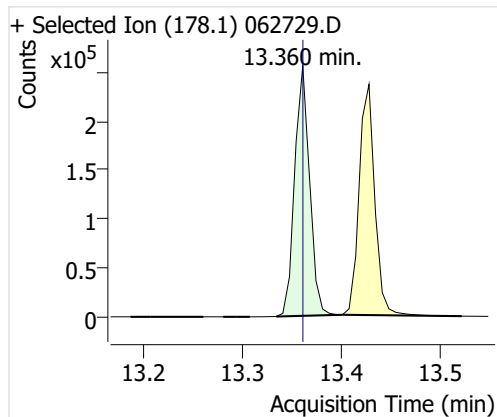
2,4,6-Tribromophenol



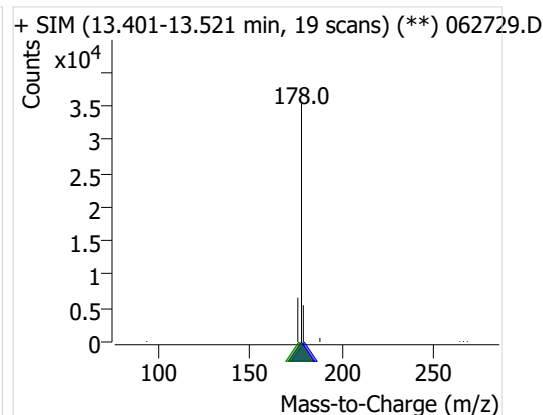
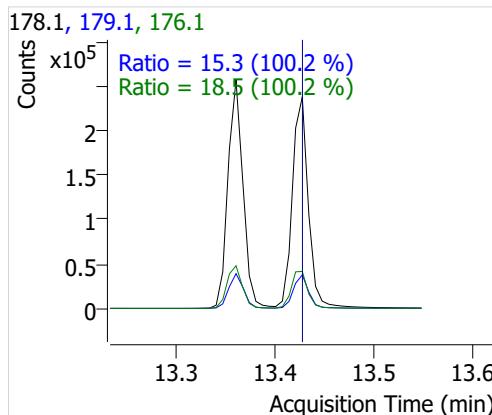
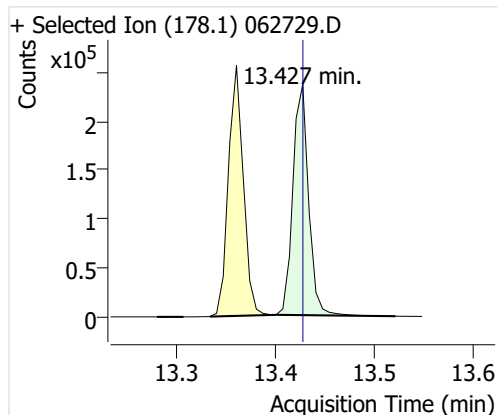
Pentachlorophenol



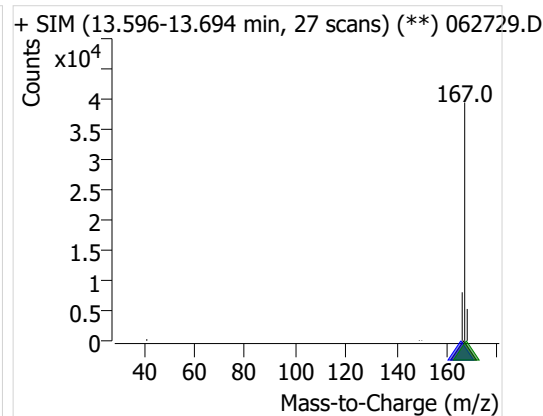
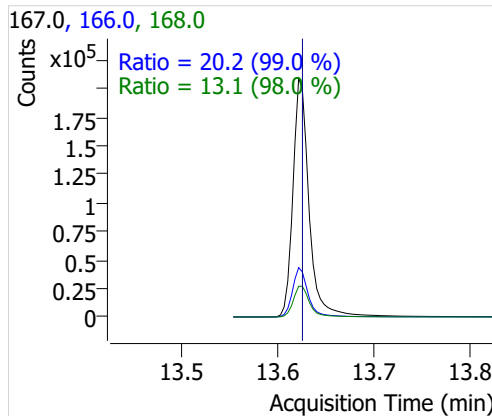
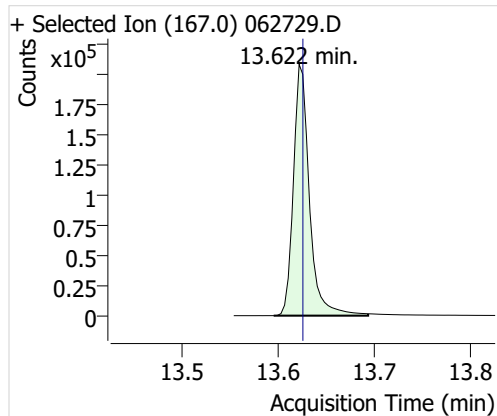
Phenanthrene



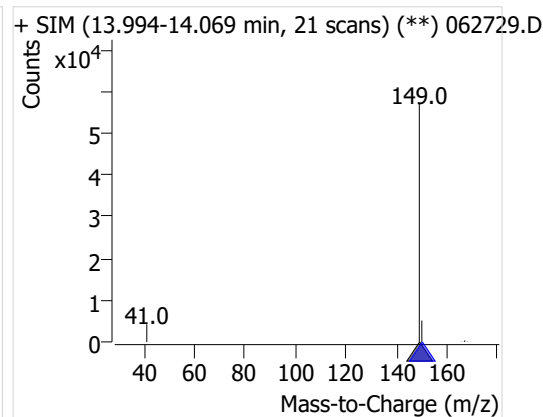
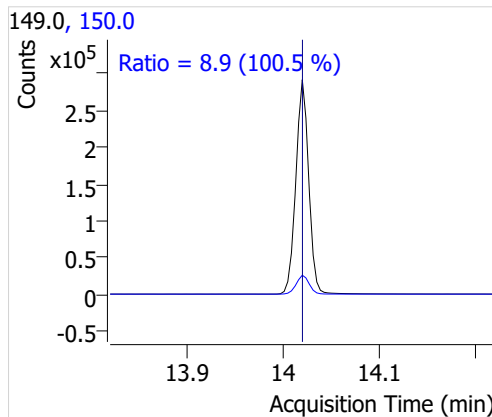
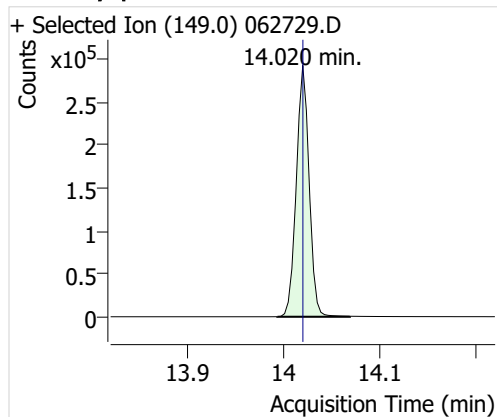
Anthracene



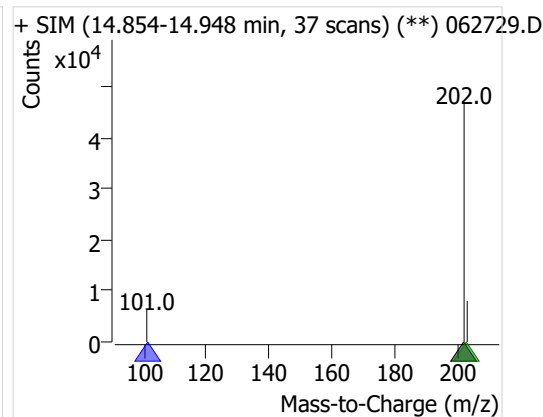
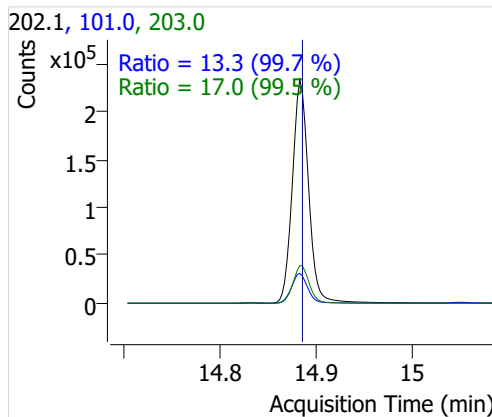
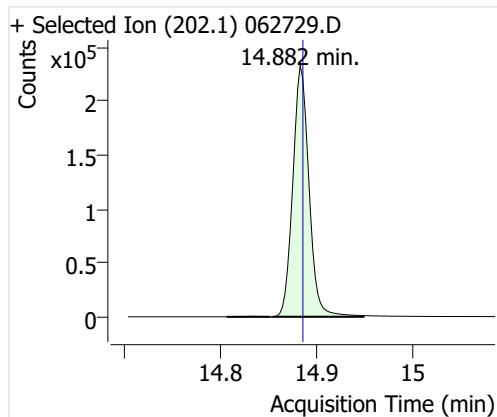
Carbazole



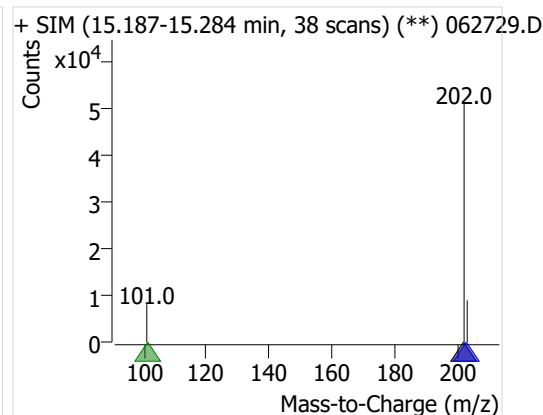
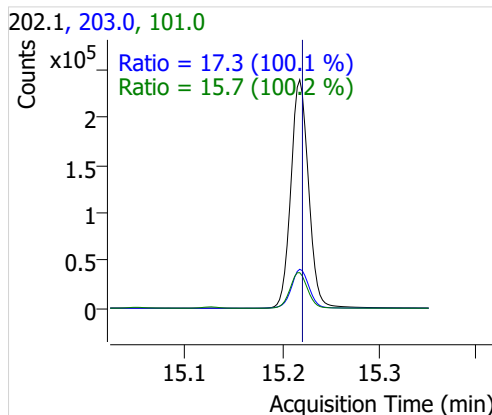
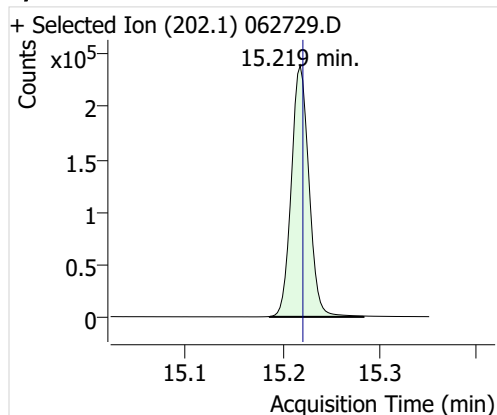
Di-n-butyl phthalate



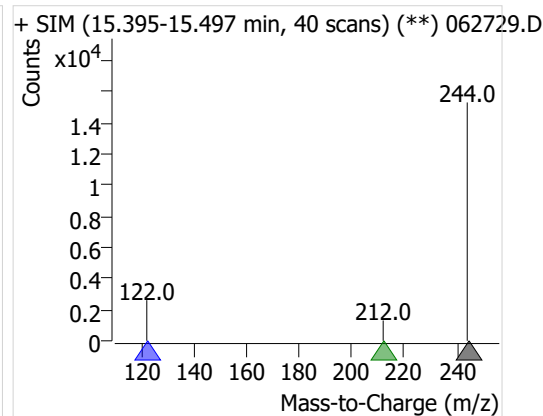
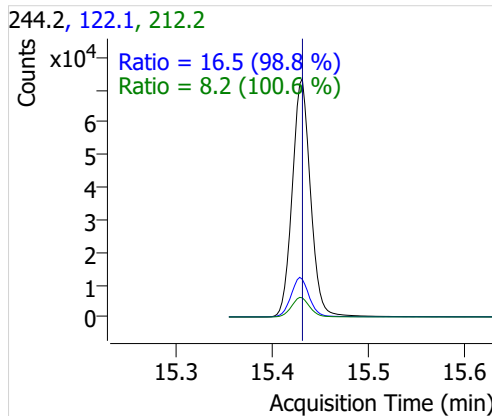
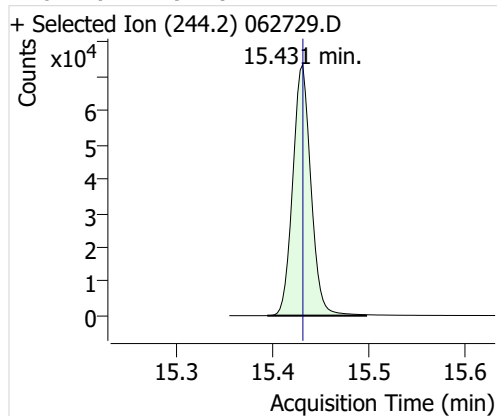
Fluoranthene



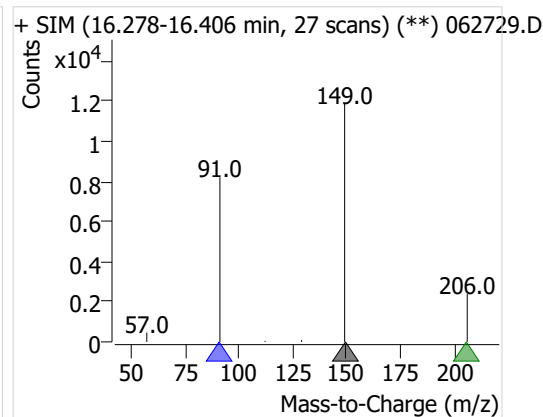
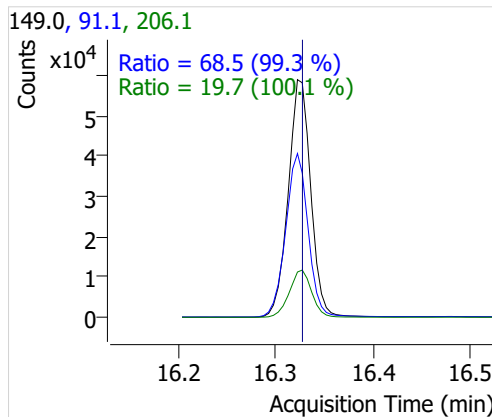
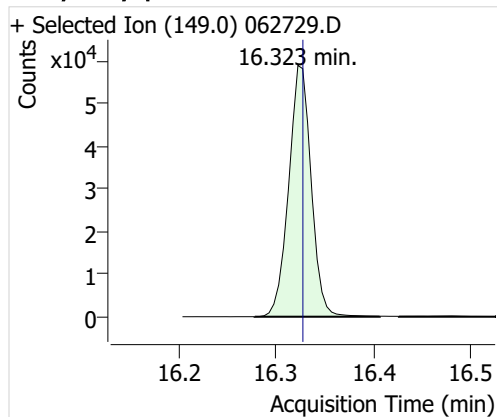
Pyrene



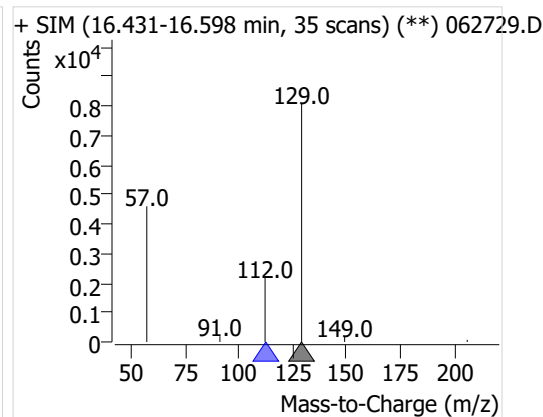
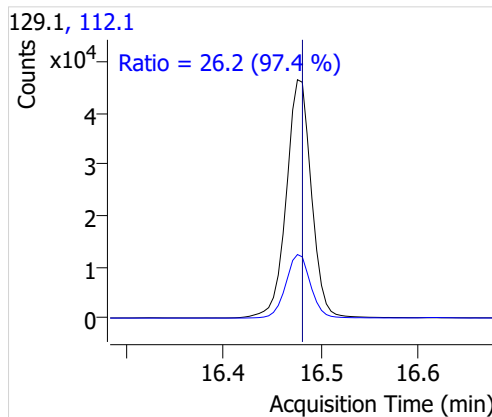
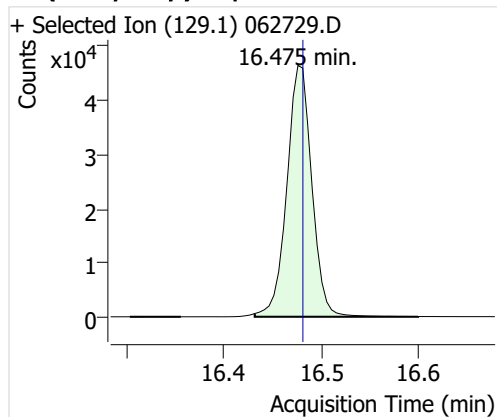
Terphenyl-d14 (surr)



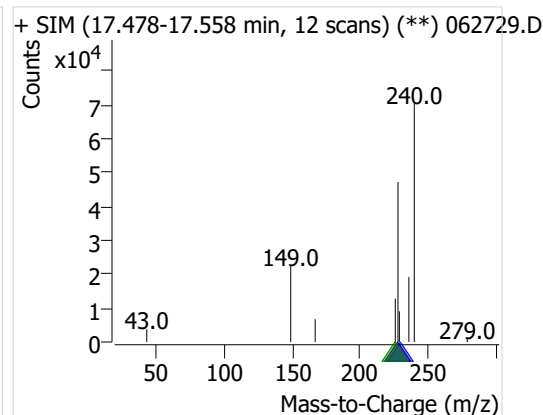
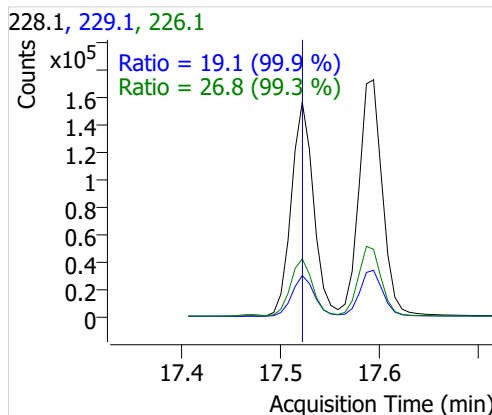
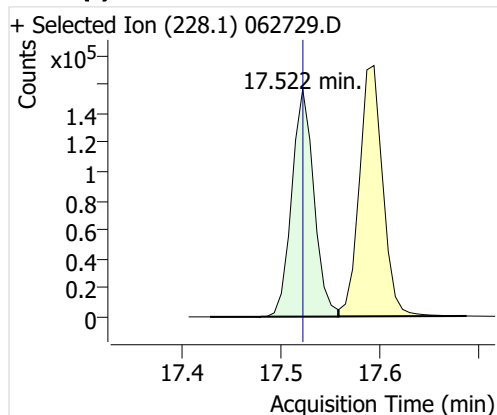
Benzyl Butyl phthalate



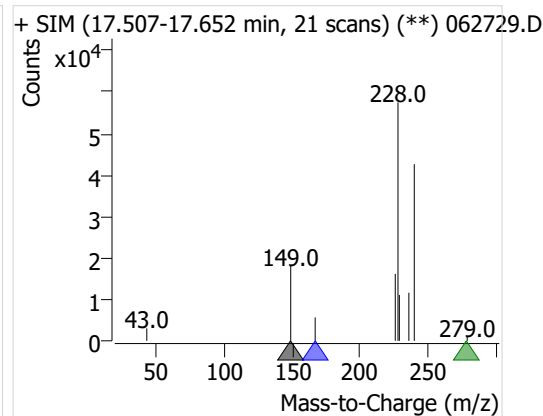
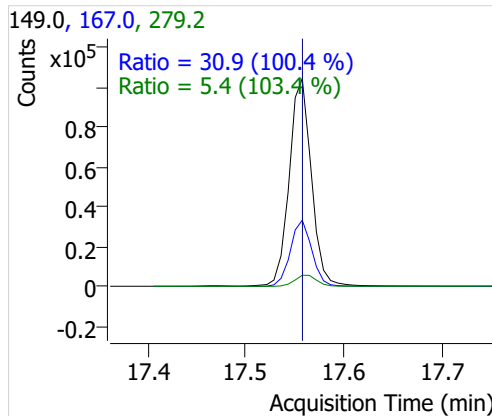
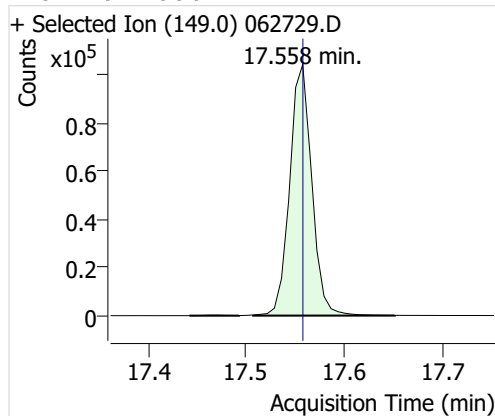
bis (2-Ethylhexyl) adipate



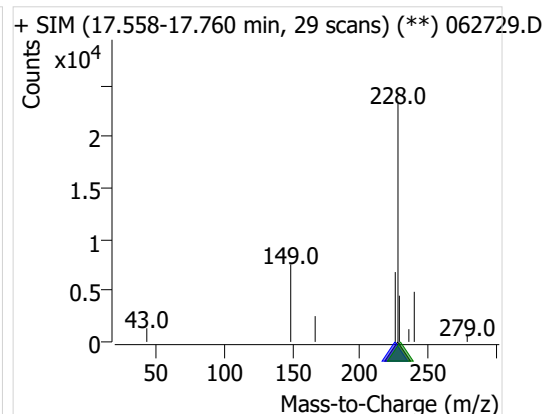
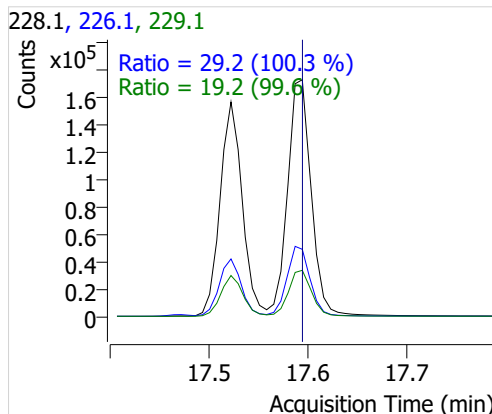
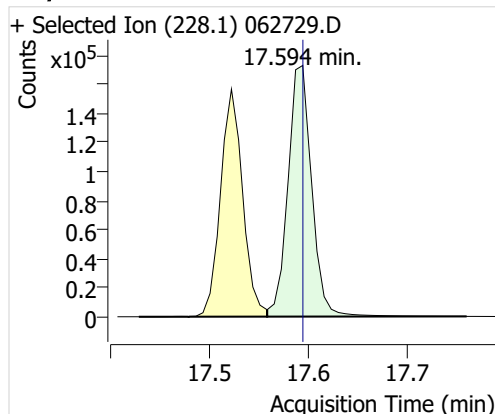
Benzo (a) anthracene



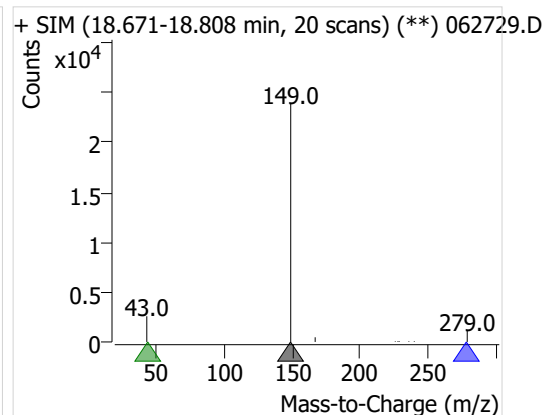
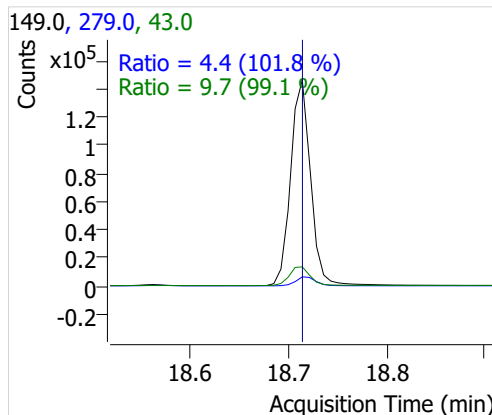
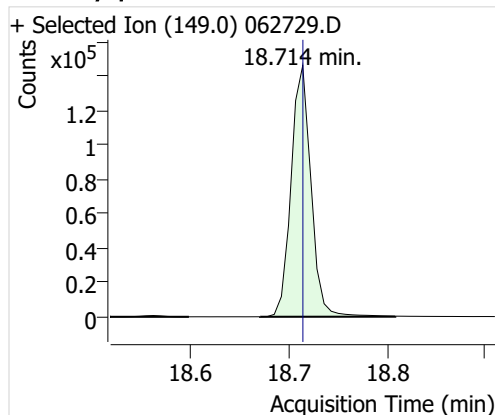
bis(2-Ethylhexyl) phthalate



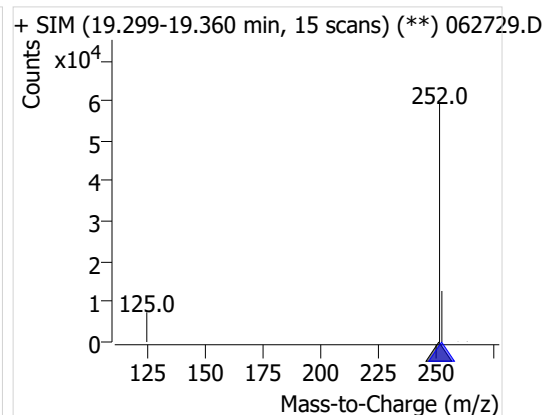
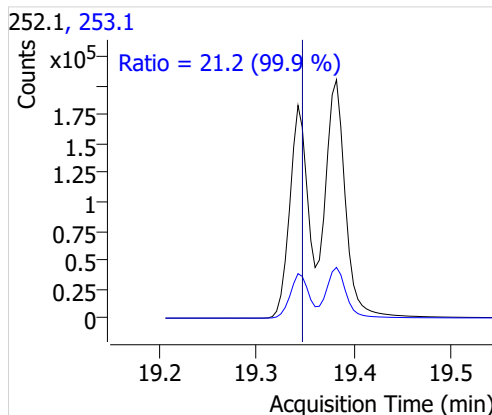
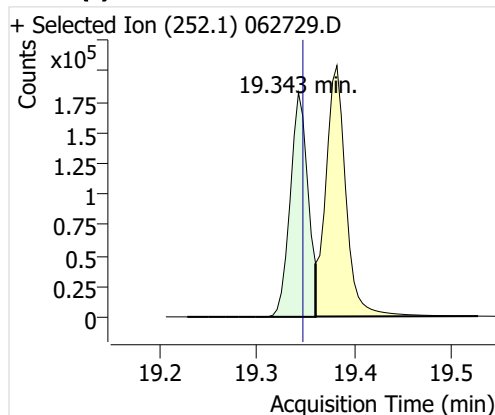
Chrysene



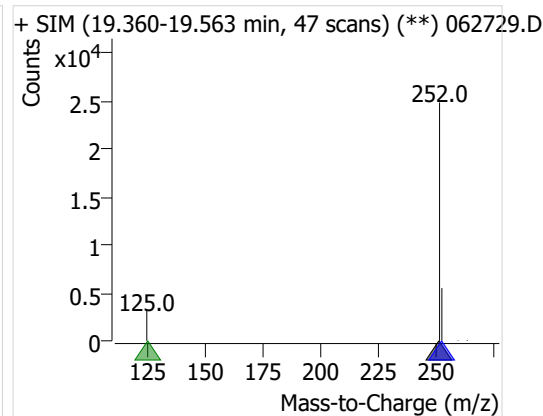
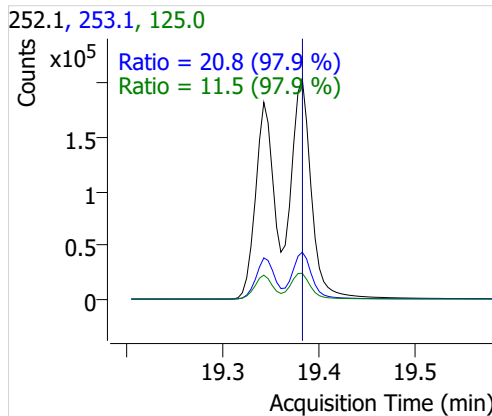
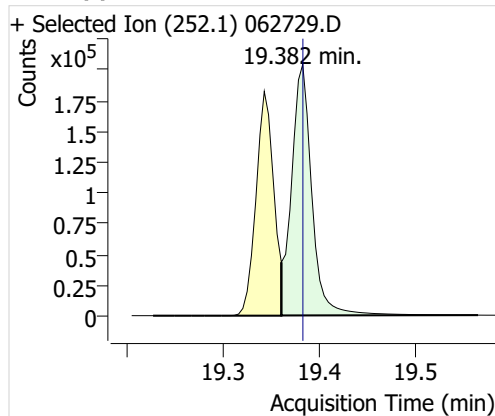
Di-n-octyl phthalate



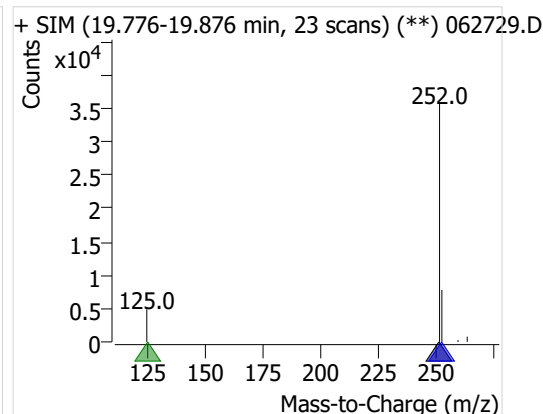
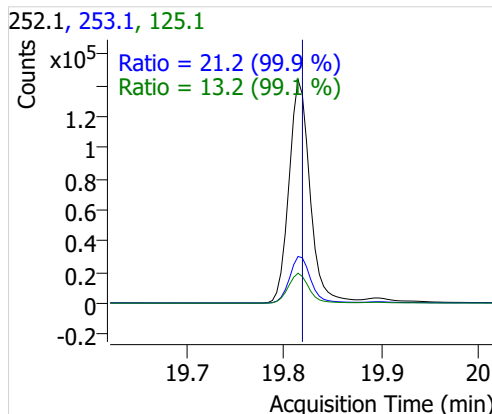
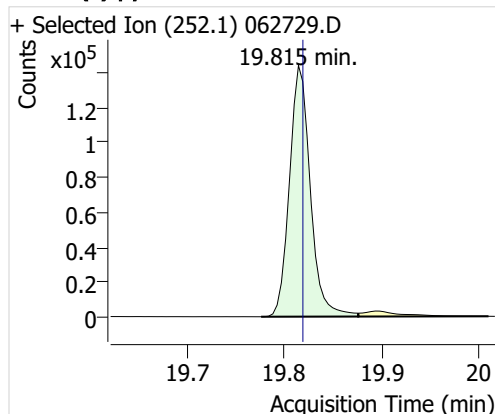
benzo (b) fluoranthene



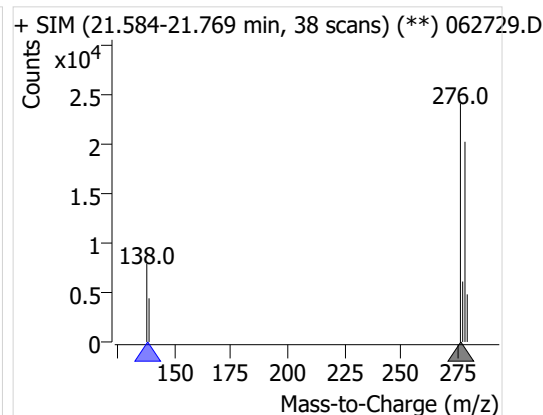
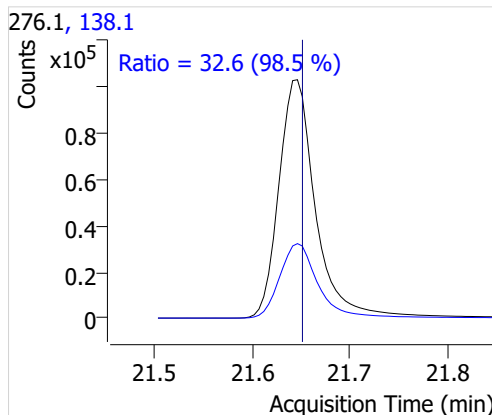
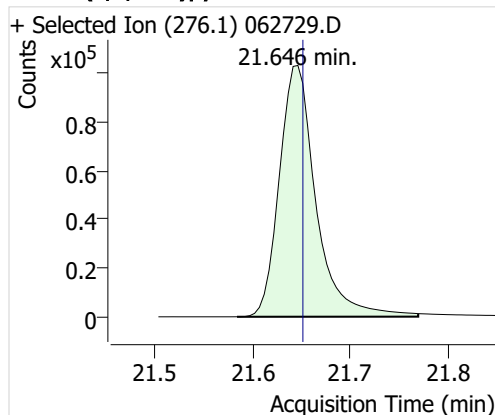
benzo (k) fluoranthene



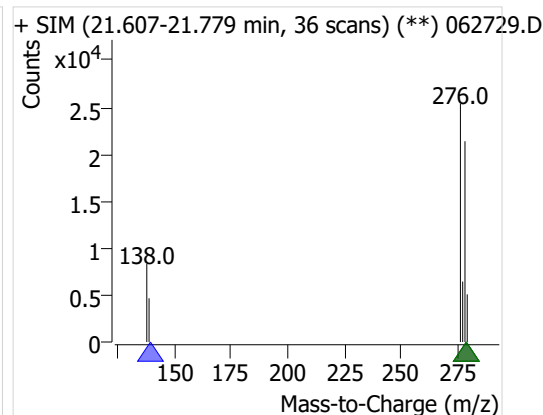
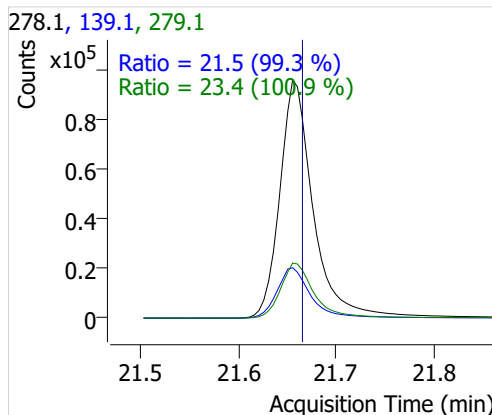
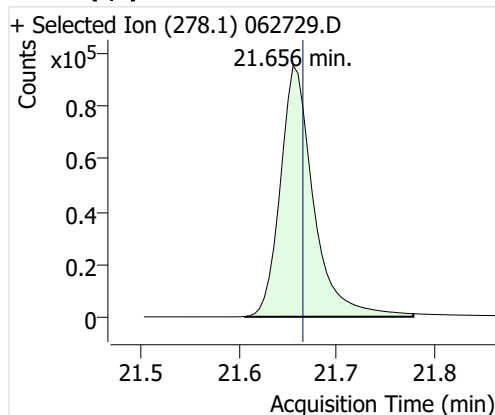
benzo (a) pyrene



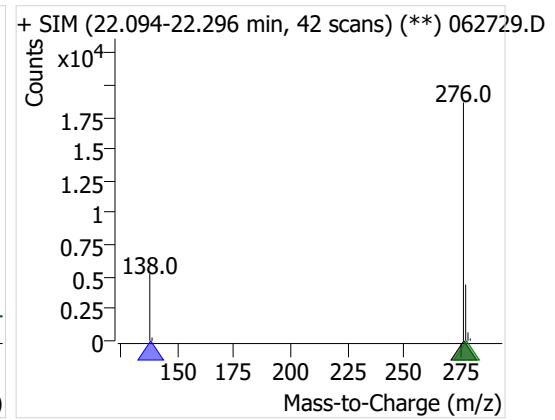
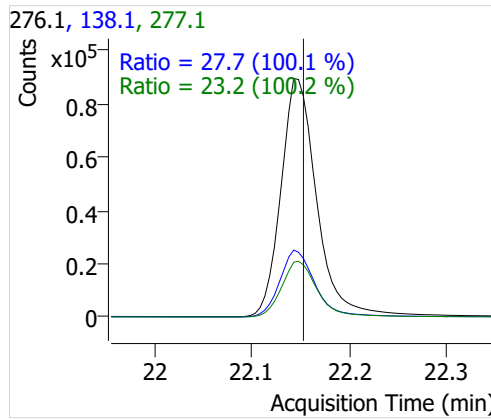
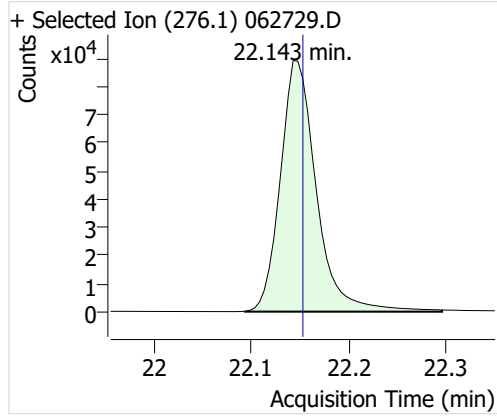
Indeno(1,2,3-cd)pyrene



Dibenz (a,h) anthracene



Benzo (g,h,i) perylene



Semivolatile Calibration

Date: 6/26/23

Analyst: CB

MeCl2: 7573

8270 Surrogate: 28412

Cal	ICV
8270 Megamix: <u>27433</u>	8270 Megamix: <u>27571</u>
2,4-DNP: <u>27477</u>	2,4-DNP: <u>26831</u>
Benzoic Acid: <u>27264</u>	Benzoic Acid: <u>25525</u>

~~BENZIOIC~~ 23501

BENZIDINE 23500

IS 28362

Spike Conc. (ppb)	BN/Acid Surr Conc. (ppb)	2° Spike (uL)	B/N Surr (uL)	Internal Standard (uL) 10	Remove (uL) 10.2	Final Vol. (mL) 1	Comments
2	2/1	0.2					FOR PARALLEL CAL ONLY
10	10/5	1	--	10	11	1	
20	20/10	2	--	10	12	1	
40	40/20	4	--	10	14	1	
100	100/50	10	--	10	20	1	
200	200/100	20	--	10	30	1	
500	500/250	50	--	10	60	1	
750	750/375	75	--	10	85	1	
1000	1000/500	100	--	10	110	1	
2000	2000/1000	200	--	10	210	1	
5000	5000/2500	500	--	10	510	1	
ICB	1000/500		5	10	15	1	
ICV (1000 ppb)	1000/500	**	5	10	15	1	**Add 1 uL of SS Mega mix, SS 2-4 DNP & SS BA

SS BENZ

	Mega Mix (uL)	2,4-DNP (uL)	Benzoic Acid (uL)	8270 Surr (uL)	Final Volume (mL)
2° Intermediate (cal)	100	100	100	100	10

BENZIDINES
50uL

500uL

CB 6/26

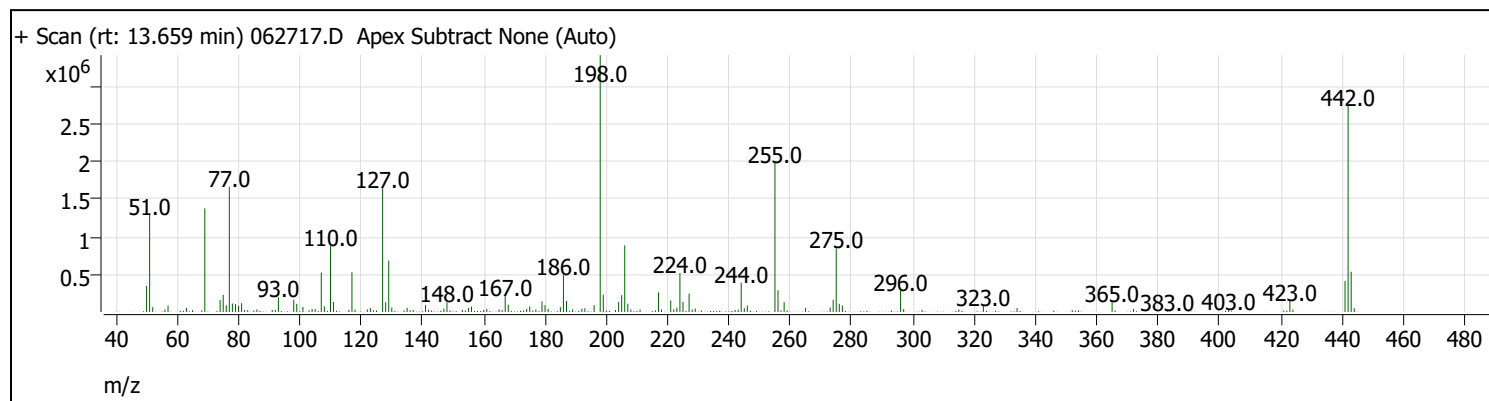
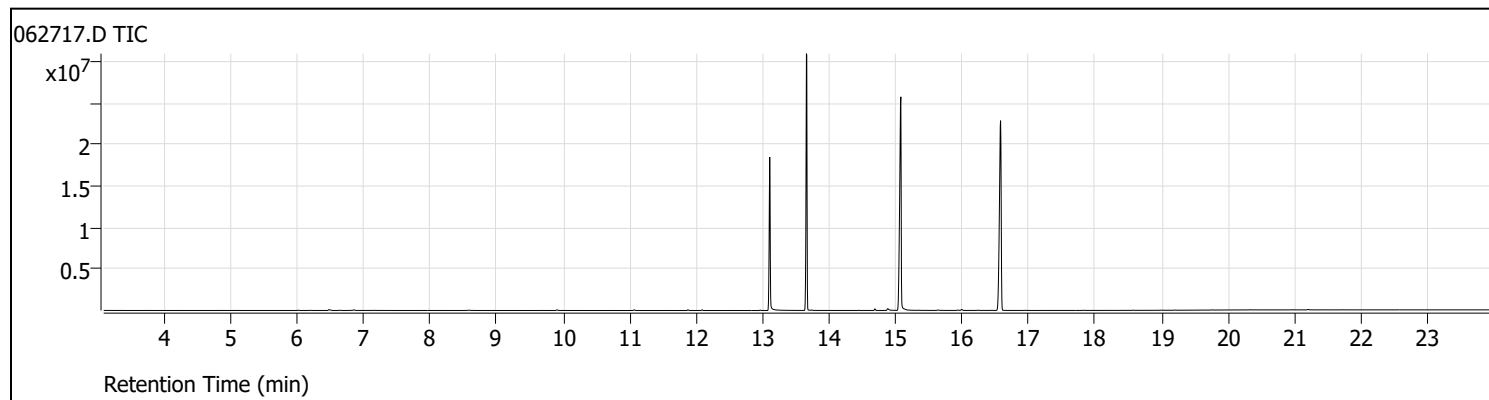
Signature and Date: CB 6/26/23



Tunes

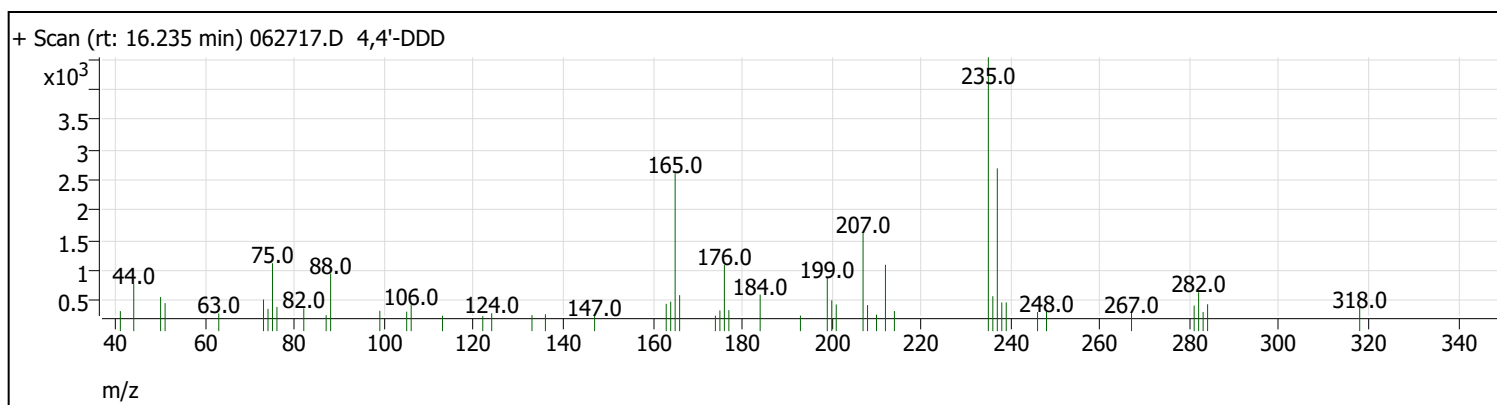
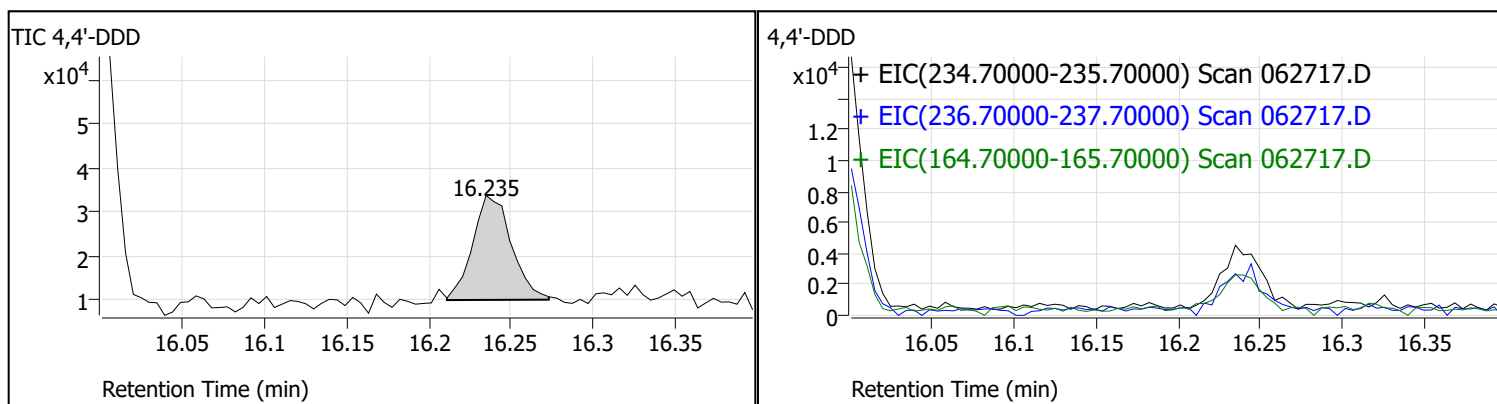
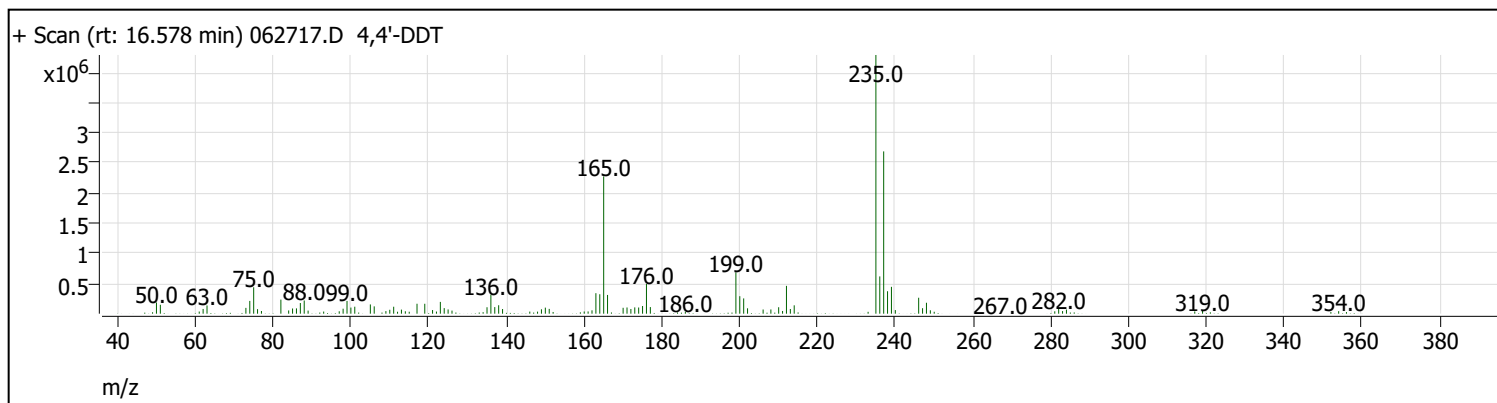
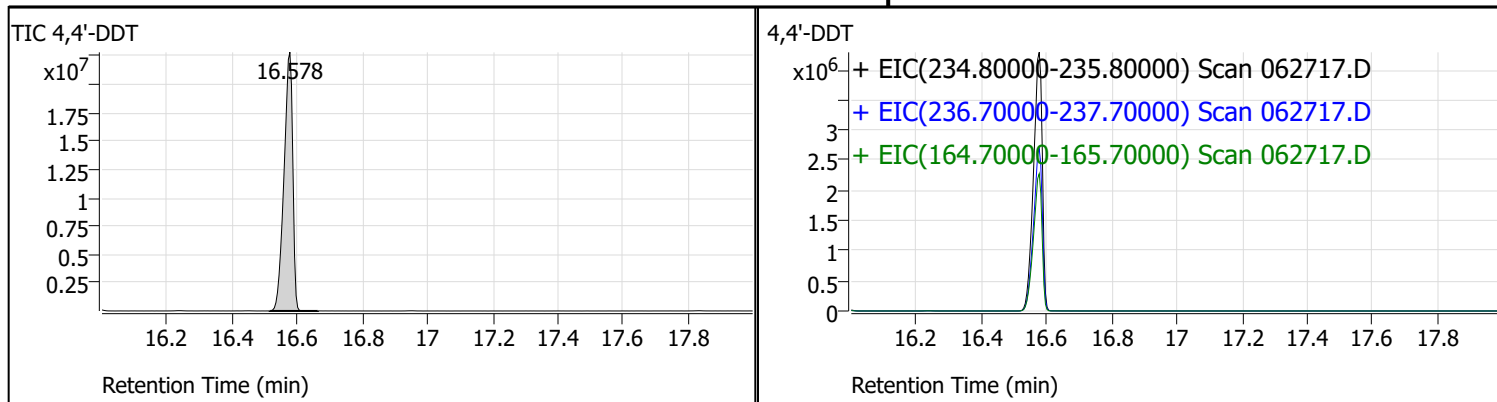
Tune Evaluation Report

Data Path: C:\GC-14\Data\2023\062723\062717.D
 Acq on: 6/27/2023 5:16:01 PM
 Operator: FA\GC14
 Sample: tune
 Inst Name: GC-14
 ALS Vial: 1
 Method: C:\GC-14\Methods\Quant
 Methods\TUNE\DFTPPwBreak&TailingGC218270E.m



Target Mass	Rel. To Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Pass/Fail
68	69	0	2	1.6	22096	Pass
70	69	0	2	0.4	6192	Pass
197	198	0	2	0.0	0	Pass
198	198	100	100	100.0	3410944	Pass
199	198	5	9	6.7	229184	Pass
365	198	1	100	4.0	135168	Pass
441	443	1E-10	150	77.4	414016	Pass
442	442	100	100	100.0	2733568	Pass
443	442	15	24	19.6	535168	Pass
69	69	100	100	100.0	1376768	Pass

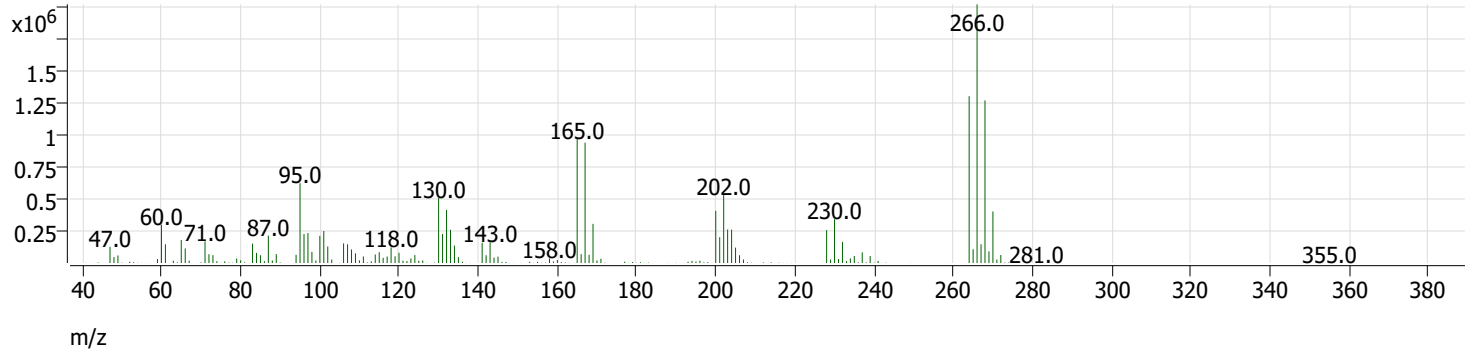
Tune Evaluation Report



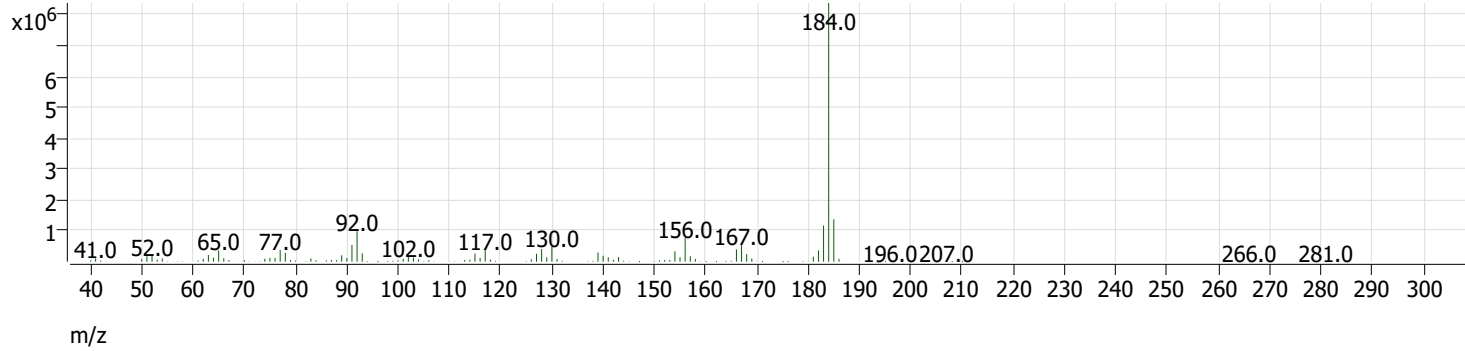
Compound Name	Expected RT	Observed RT	TIC Area	Breakdown %	Pass/Fail
4,4'-DDT	17.000	16.578	42427694	0.1	Pass
4,4'-DDD	16.200	16.235	38645		

Tune Evaluation Report

+ Scan (rt: 13.106 min) 062717.D Pentachlorophenol



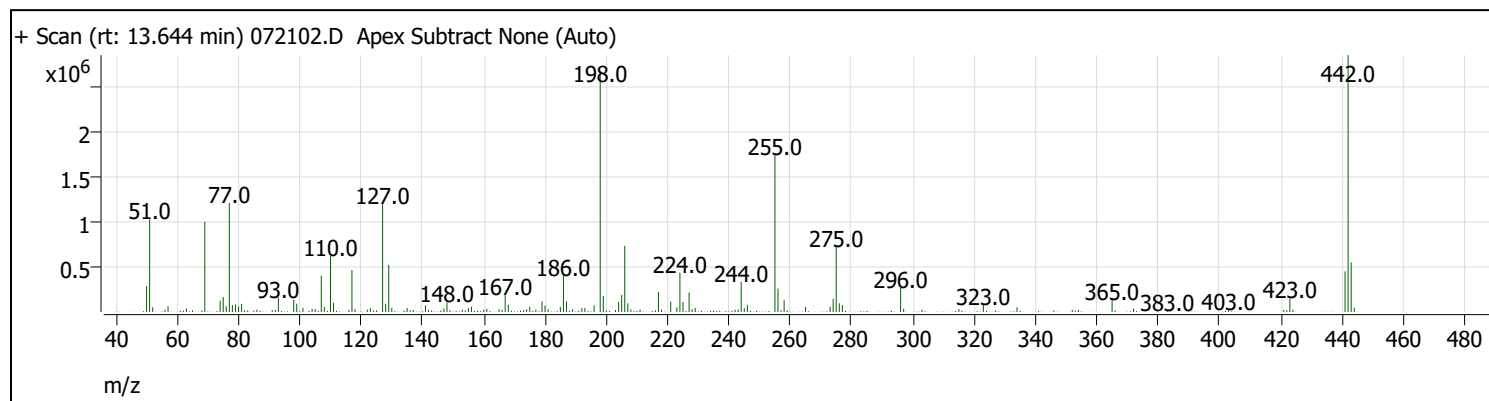
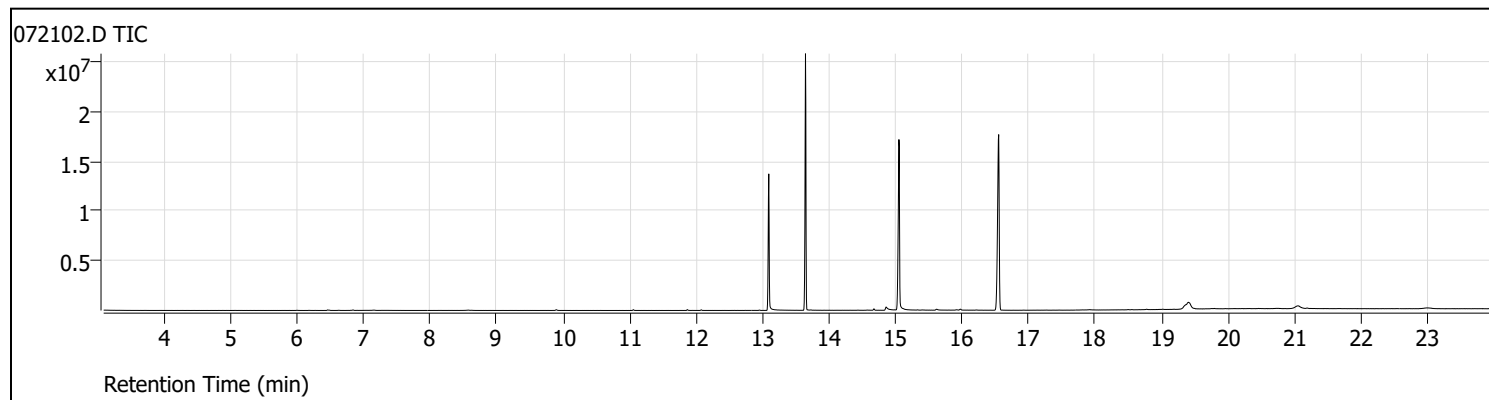
+ Scan (rt: 15.078 min) 062717.D Benzidine



Compound Name	Expected RT	Observed RT	Tailing Factor	PGF	Pass/Fail
Pentachlorophenol	13.400	13.106	0.8	6.4	Pass
Benzidine	15.450	15.078	0.3	4.3	Pass

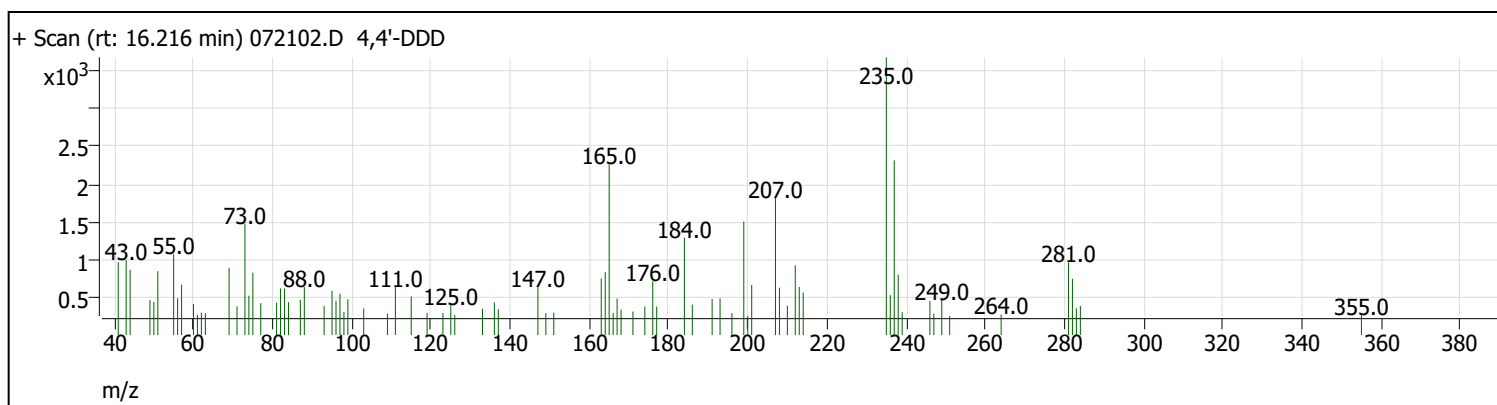
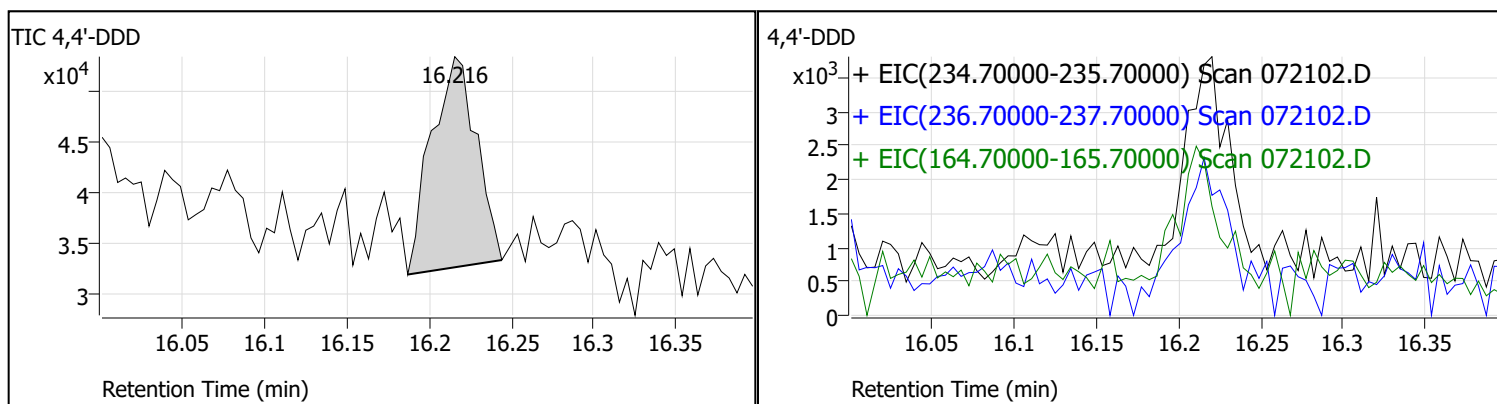
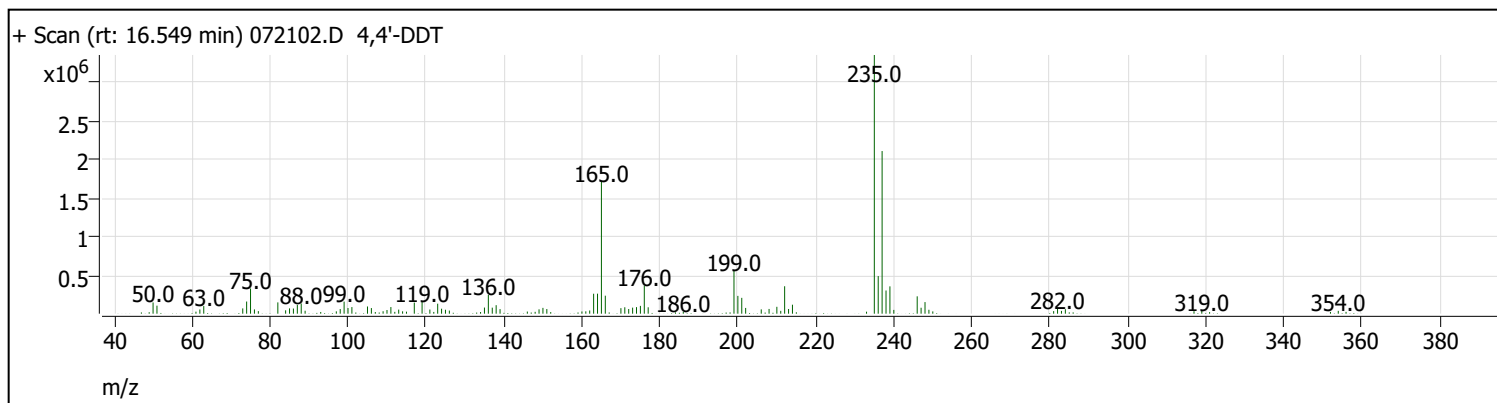
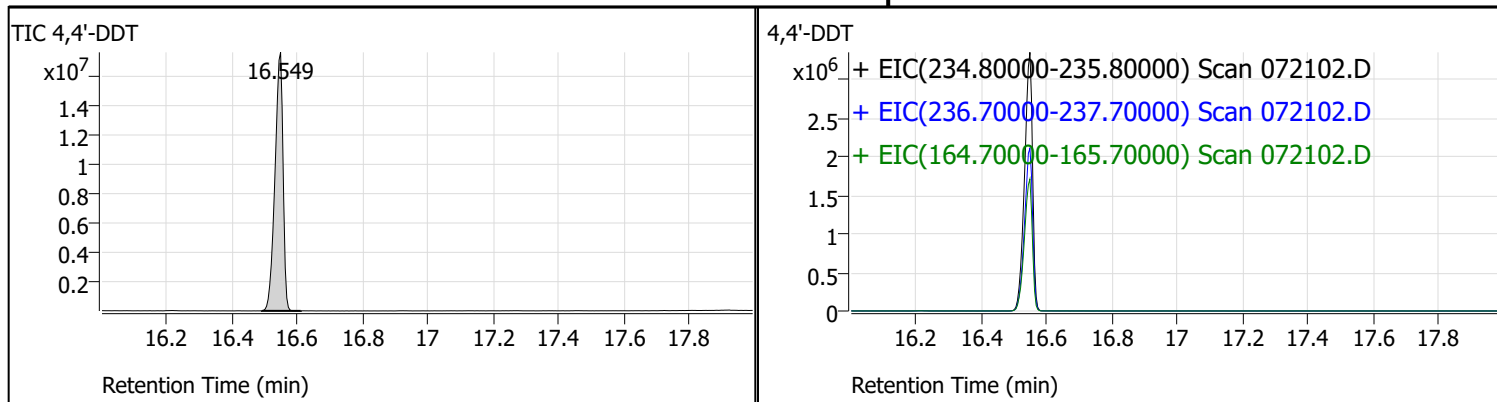
Tune Evaluation Report

Data Path: C:\GC-14\Data\2023\072123\072102.D
 Acq on: 7/21/2023 8:30:56 AM
 Operator: FA\GC14
 Sample: tune
 Inst Name: GC-14
 ALS Vial: 1
 Method: C:\GC-14\Methods\Quant
 Methods\TUNE\DFTPPwBreak&TailingGC218270E.m



Target Mass	Rel. To Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Pass/Fail
68	69	0	2	1.7	16576	Pass
70	69	0	2	0.5	5456	Pass
197	198	0	2	0.0	0	Pass
198	198	100	100	100.0	2647552	Pass
199	198	5	9	6.7	177536	Pass
365	442	1	100	4.8	137664	Pass
441	443	1E-10	150	82.1	449920	Pass
442	442	100	100	100.0	2840576	Pass
443	442	15	24	19.3	547968	Pass
69	69	100	100	100.0	998528	Pass

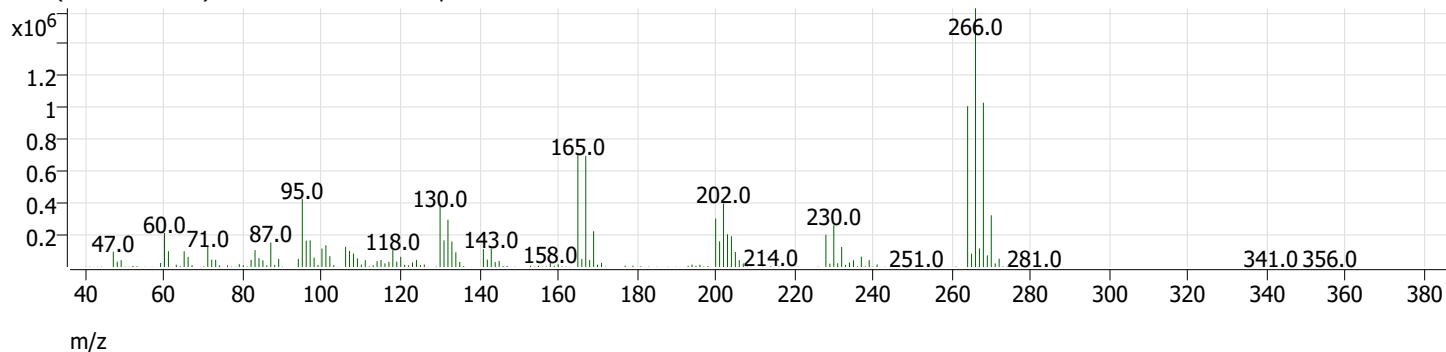
Tune Evaluation Report



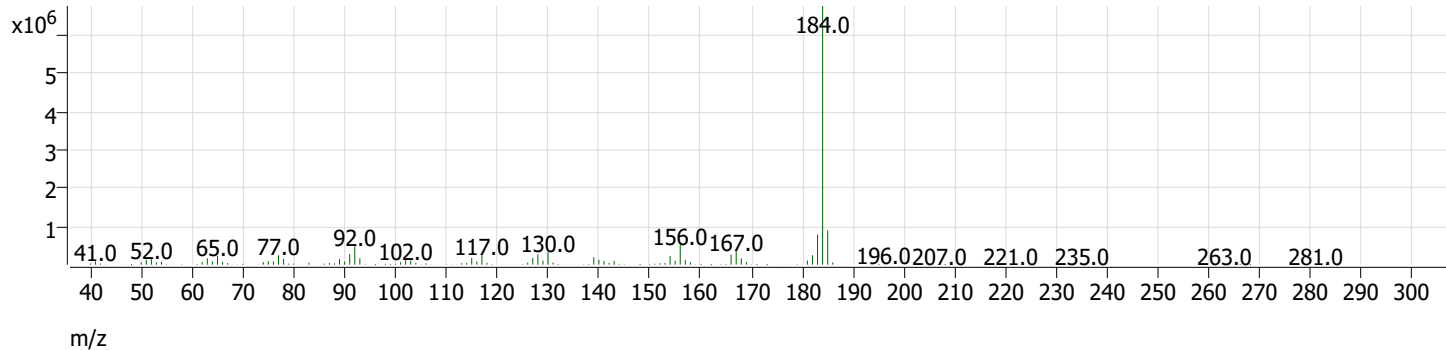
Compound Name	Expected RT	Observed RT	TIC Area	Breakdown %	Pass/Fail
4,4'-DDT	17.000	16.549	30308711	0.1	Pass
4,4'-DDD	16.200	16.216	39609		

Tune Evaluation Report

+ Scan (rt: 13.092 min) 072102.D Pentachlorophenol



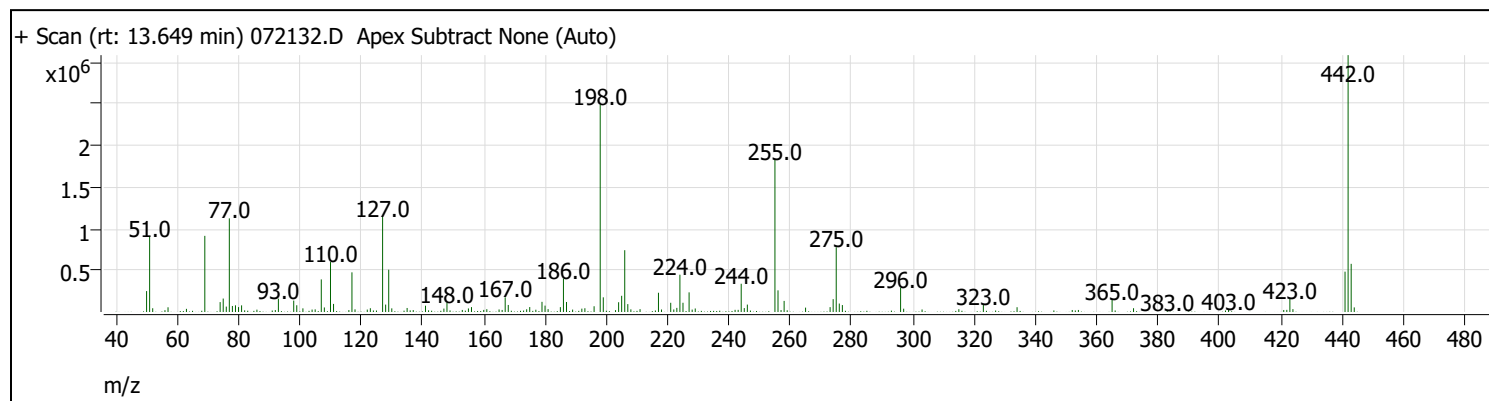
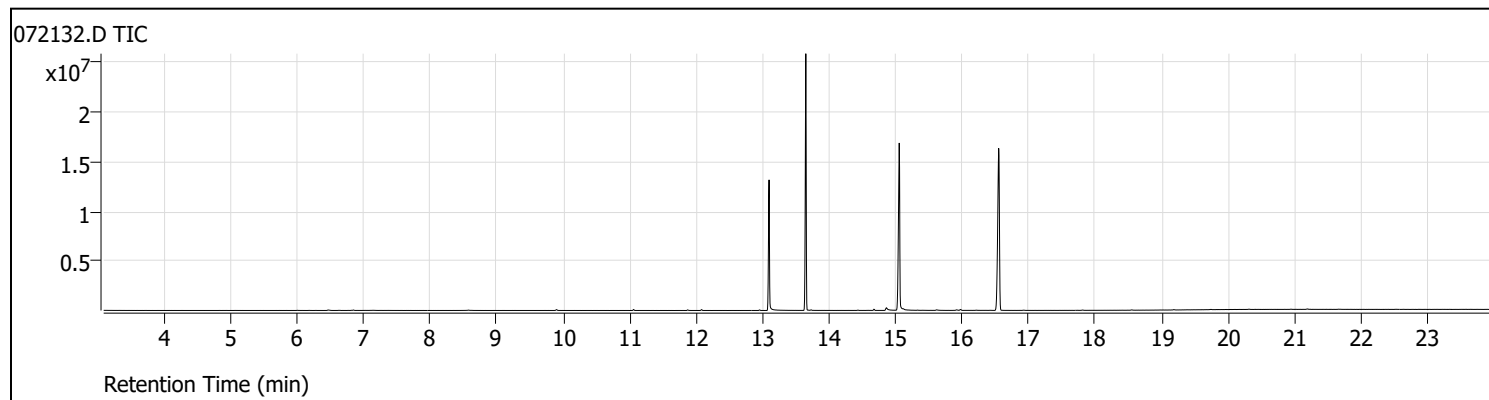
+ Scan (rt: 15.049 min) 072102.D Benzidine



Compound Name	Expected RT	Observed RT	Tailing Factor	PGF	Pass/Fail
Pentachlorophenol	13.400	13.092	0.8	6.1	Pass
Benzidine	15.450	15.049	0.7	4.6	Pass

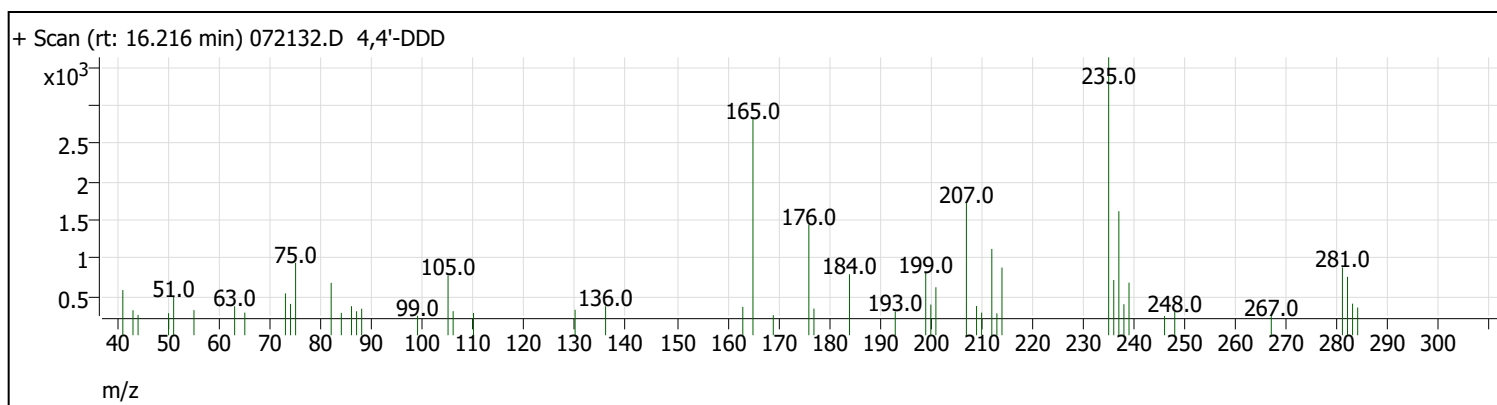
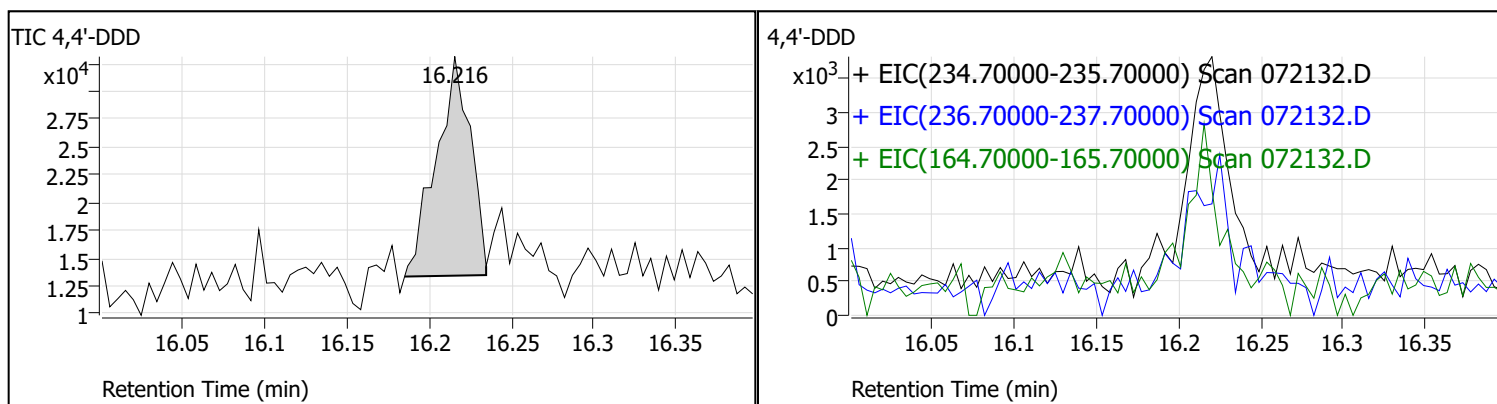
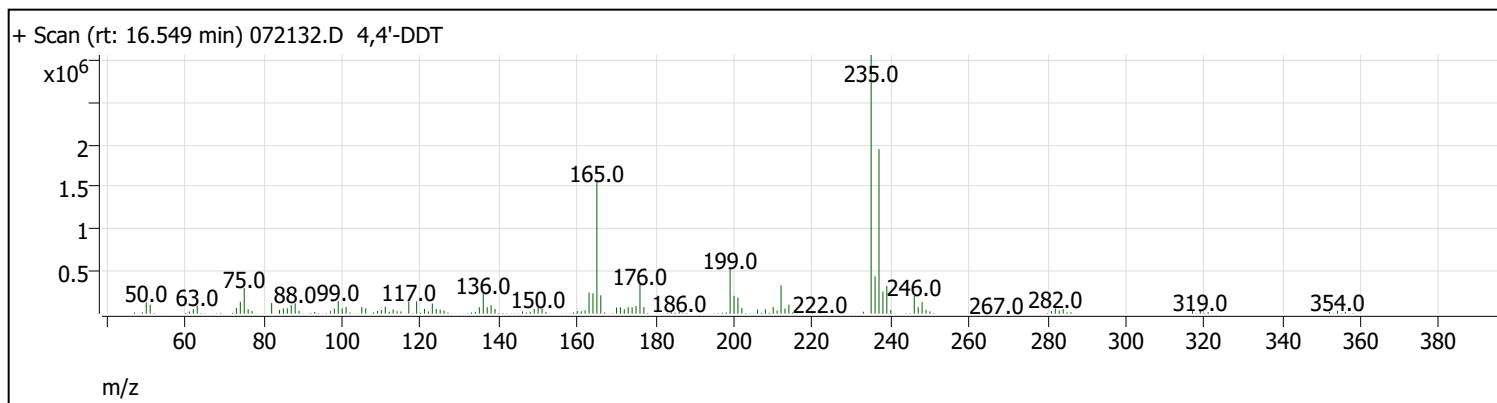
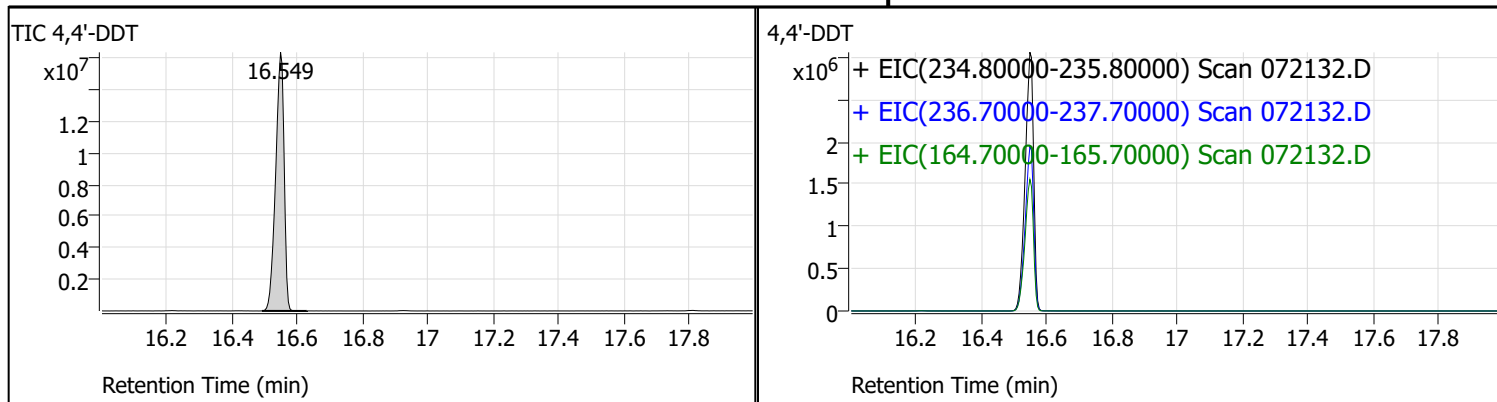
Tune Evaluation Report

Data Path: C:\GC-14\Data\2023\072123\072132.D
 Acq on: 7/22/2023 1:09:00 AM
 Operator: FA\GC14
 Sample: tune
 Inst Name: GC-14
 ALS Vial: 1
 Method: C:\GC-14\Methods\Quant
 Methods\TUNE\DFTPPwBreak&TailingGC218270E.m



Target Mass	Rel. To Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Pass/Fail
68	69	0	2	1.6	15039	Pass
70	69	0	2	0.5	4520	Pass
197	198	0	2	0.0	0	Pass
198	198	100	100	100.0	2486272	Pass
199	198	5	9	7.1	176192	Pass
365	442	1	100	4.9	150144	Pass
441	443	1E-10	150	83.8	484480	Pass
442	442	100	100	100.0	3084288	Pass
443	442	15	24	18.7	578240	Pass
69	69	100	100	100.0	914304	Pass

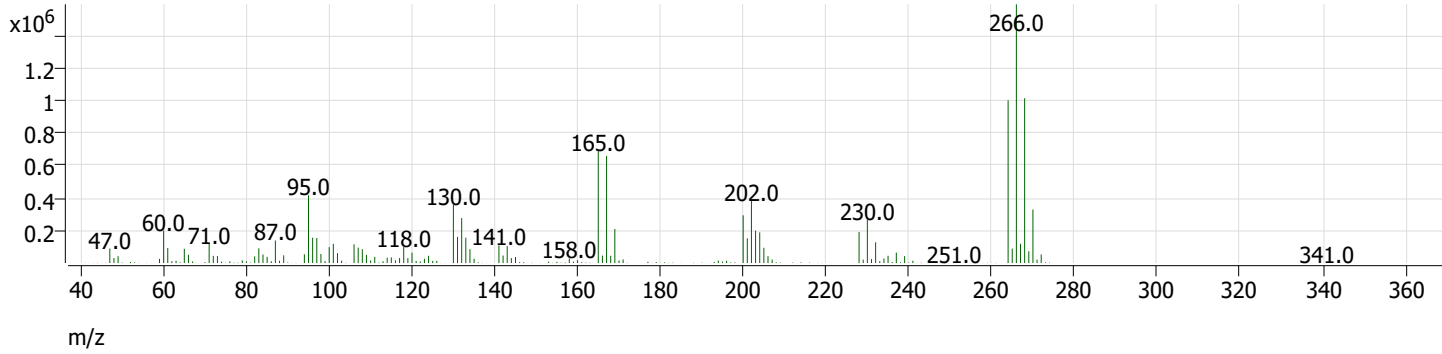
Tune Evaluation Report



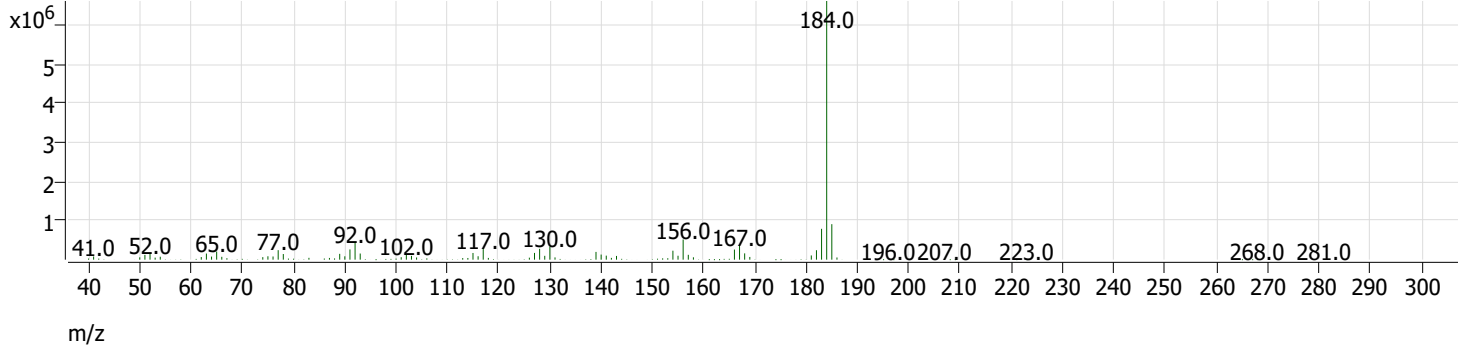
Compound Name	Expected RT	Observed RT	TIC Area	Breakdown %	Pass/Fail
4,4'-DDT	17.000	16.549	29426003	0.1	Pass
4,4'-DDD	16.200	16.216	28454		

Tune Evaluation Report

+ Scan (rt: 13.097 min) 072132.D Pentachlorophenol



+ Scan (rt: 15.054 min) 072132.D Benzidine



Compound Name	Expected RT	Observed RT	Tailing Factor	PGF	Pass/Fail
Pentachlorophenol	13.400	13.097	0.7	19.1	Pass
Benzidine	15.450	15.054	0.6	14.1	Pass



Internal Standards

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-14 230724A CCV Name: PAH-S MDPT
 Run No: 85441 CCV SeqNo: 1782769
 Lab File ID (Standard): 062725.D Date Analyzed: 6/27/2023
 Instrument ID: GC-14 Time Analyzed: 21:00
 GC Column: ID (mm): Length (M):

	IS1 (14DCBZ)		IS2 Acenaphthene-d10		IS3 Chrysene-d12		IS4 Naphthalene-d8	
	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	0	0.000	264944	11.460	395428	17.544	700252	9.241
UPPER LIMIT	0	0.500	529888	11.960	790856	18.044	1400504	9.741
LOWER LIMIT	0	-0.500	132472	10.960	197714	17.044	350126	8.741
SAMPLE NO.								
01 CCV-40960A	0	0	249965	11.449	443690	17.529	729673	9.227
02 QCS-40960A	0	0	238366	11.454	428939	17.535	715019	9.232
03 CCV-40960B	0	0	214731	11.455	407081	17.529	669886	9.232
04 QCS-40960B	0	0	216551	11.454	415201	17.529	647347	9.232

IS1 (14DCBZ) = 1,4-Dichlorobenzene-d4

IS3 Chrysene-d12 = Chrysene-d12

IS2 Acenaphthene-d10 = Acenaphthene-d10

IS4 Naphthalene-d8 = Naphthalene-d8

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-14 230724A CCV Name: PAH-S MDPT
 Run No: 85441 CCV SeqNo: 1782769
 Lab File ID (Standard): 062725.D Date Analyzed: 6/27/2023
 Instrument ID: GC-14 Time Analyzed: 21:00
 GC Column: ID (mm): Length (M):

		S5 Perylene-d12		S6 Phenanthrene-d10					
		AREA #	RT #	AREA #	RT #				
12 HOUR STD		443932	19.903	470263	13.334				
UPPER LIMIT		887864	20.403	940526	13.834				
LOWER LIMIT		221966	19.403	235132	12.834				
SAMPLE NO.									
01	CCV-40960A	551474	19.889	481903	13.32				
02	QCS-40960A	526500	19.893	454267	13.326				
03	CCV-40960B	505270	19.889	417814	13.32				
04	QCS-40960B	420423	19.89	436119	13.32				

IS5 Perylene-d12 = Perylene-d12

IS6 Phenanthrene-d10 = Phenanthrene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-14 230724A CCV Name: CCV-40960A
 Run No: 85441 CCV SeqNo: 1782747
 Lab File ID (Standard): 072103.D Date Analyzed: 7/21/2023
 Instrument ID: GC-14 Time Analyzed: 8:59
 GC Column: ID (mm): Length (M):

	IS1 (14DCBZ)	IS2 Acenaphthene-d10	IS3 Chrysene-d12	IS4 Naphthalene-d8
	AREA #	RT #	AREA #	RT #
12 HOUR STD	0	0.000	249965	11.449
UPPER LIMIT	0	0.500	499930	11.949
LOWER LIMIT	0	-0.500	124983	10.949
SAMPLE NO.				
01 MB-40960	0	0	185288	11.448
02 LCS-40960	0	0	220651	11.449
03 2307227-001A	0	0	188760	11.448
04 2307227-002A	0	0	188568	11.448
05 2307227-003A	0	0	181228	11.449
06 2307227-004A	0	0	182877	11.454
07 2307227-005A	0	0	182909	11.449
08 2307227-006A	0	0	183263	11.454
09 2307235-004A	0	0	190597	11.454
10 2307235-004AMS	0	0	219467	11.454
11 2307235-004AMSD	0	0	214508	11.454
12 2307235-005A	0	0	183997	11.454

IS1 (14DCBZ) = 1,4-Dichlorobenzene-d4

IS2 Acenaphthene-d10 = Acenaphthene-d10

IS3 Chrysene-d12 = Chrysene-d12

IS4 Naphthalene-d8 = Naphthalene-d8

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-14 230724A CCV Name: CCV-40960A
 Run No: 85441 CCV SeqNo: 1782747
 Lab File ID (Standard): 072103.D Date Analyzed: 7/21/2023
 Instrument ID: GC-14 Time Analyzed: 8:59
 GC Column: ID (mm): Length (M):

	S5 Perylene-d12		S6 Phenanthrene-d10					
	AREA #	RT #	AREA #	RT #				
12 HOUR STD	551474	19.889	481903	13.320				
UPPER LIMIT	1102948	20.389	963806	13.820				
LOWER LIMIT	275737	19.389	240952	12.820				
SAMPLE NO.								
01 MB-40960	382000	19.894	358442	13.32				
02 LCS-40960	490508	19.894	419775	13.32				
03 2307227-001A	393211	19.894	367521	13.32				
04 2307227-002A	399599	19.894	369723	13.32				
05 2307227-003A	385679	19.894	356059	13.32				
06 2307227-004A	362119	19.903	354247	13.327				
07 2307227-005A	381128	19.898	345168	13.327				
08 2307227-006A	374572	19.899	346149	13.327				
09 2307235-004A	420885	19.898	368288	13.327				
10 2307235-004AMS	493633	19.894	412992	13.327				
11 2307235-004AMSD	481635	19.89	404294	13.327				
12 2307235-005A	391610	19.894	362896	13.327				

IS5 Perylene-d12 = Perylene-d12

IS6 Phenanthrene-d10 = Phenanthrene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-14 230724A CCV Name: CCV-40960B
 Run No: 85441 CCV SeqNo: 1782761
 Lab File ID (Standard): 072133.D Date Analyzed: 7/22/2023
 Instrument ID: GC-14 Time Analyzed: 1:37
 GC Column: ID (mm): Length (M):

	IS1 (14DCBZ)	IS2 Acenaphthene-d10	IS3 Chrysene-d12	IS4 Naphthalene-d8
	AREA #	RT #	AREA #	RT #
12 HOUR STD	0	0.000	214731	11.455
UPPER LIMIT	0	0.500	429462	11.955
LOWER LIMIT	0	-0.500	107366	10.955
SAMPLE NO.				
01 2307265-003A	0	0	158465	11.455
02 2307265-004A	0	0	161900	11.454
03 2307259-001A	0	0	165667	11.454
04 2307259-002A	0	0	182826	11.449
05 2307265-001A	0	0	152869	11.454
06 2307265-002A	0	0	158458	11.454

IS1 (14DCBZ) = 1,4-Dichlorobenzene-d4

IS3 Chrysene-d12 = Chrysene-d12

IS2 Acenaphthene-d10 = Acenaphthene-d10

IS4 Naphthalene-d8 = Naphthalene-d8

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-14 230724A CCV Name: CCV-40960B
 Run No: 85441 CCV SeqNo: 1782761
 Lab File ID (Standard): 072133.D Date Analyzed: 7/22/2023
 Instrument ID: GC-14 Time Analyzed: 1:37
 GC Column: ID (mm): Length (M):

	S5 Perylene-d12		S6 Phenanthrene-d10					
	AREA #	RT #	AREA #	RT #				
12 HOUR STD	505270	19.889	417814	13.320				
UPPER LIMIT	1010540	20.389	835628	13.820				
LOWER LIMIT	252635	19.389	208907	12.820				
SAMPLE NO.								
01	2307259-001A	334512	19.89	348580	13.32			
02	2307259-002A	322295	19.894	386120	13.32			
03	2307265-001A	257113	19.89	313488	13.327			
04	2307265-002A	304561	19.894	335024	13.32			
05	2307265-003A	369151	19.889	310573	13.327			
06	2307265-004A	381206	19.89	321943	13.327			

IS5 Perylene-d12 = Perylene-d12

IS6 Phenanthrene-d10 = Phenanthrene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.



3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

GeoEngineers

Robert Trahan
2101 4th Ave, Suite 950
Seattle, WA 98121

RE: S Jackson Street
Work Order Number: 2307302

July 28, 2023

Attention Robert Trahan:

Fremont Analytical, Inc. received 5 sample(s) on 7/25/2023 for the analyses presented in the following report.

Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.
Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)
Sample Moisture (Percent Moisture)
Total Metals by EPA Method 6020B

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager

DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.3 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910

Revision v1

www.fremontanalytical.com

CLIENT: GeoEngineers
Project: S Jackson Street
Work Order: 2307302

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2307302-001	R2-B-90	07/24/2023 8:11 AM	07/25/2023 1:24 PM
2307302-002	R2-SSW-95	07/24/2023 1:11 PM	07/25/2023 1:24 PM
2307302-003	R1-ESW-98	07/24/2023 11:18 AM	07/25/2023 1:24 PM
2307302-004	EX-01-95	07/25/2023 9:30 AM	07/25/2023 1:24 PM
2307302-005	DUP-R2	07/24/2023 6:00 AM	07/25/2023 1:24 PM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: GeoEngineers
Project: S Jackson Street

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

8/11/2023: Revision 1 includes correction to a sample ID per client request.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Analytical Report

Work Order: 2307302
 Date Reported: 7/28/2023

Client: GeoEngineers
Project: S Jackson Street
Lab ID: 2307302-001
Client Sample ID: R2-B-90

Collection Date: 7/24/2023 8:11:00 AM
Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Batch ID: 40996 Analyst: SH

Benz(a)anthracene	ND	24.3		µg/Kg-dry	1	7/28/2023 7:42:51 AM
Chrysene	ND	24.3		µg/Kg-dry	1	7/28/2023 7:42:51 AM
Benzo(b)fluoranthene	ND	30.4		µg/Kg-dry	1	7/28/2023 7:42:51 AM
Benzo(k)fluoranthene	ND	30.4		µg/Kg-dry	1	7/28/2023 7:42:51 AM
Benzo(a)pyrene	ND	36.5		µg/Kg-dry	1	7/28/2023 7:42:51 AM
Indeno(1,2,3-cd)pyrene	ND	48.7		µg/Kg-dry	1	7/28/2023 7:42:51 AM
Dibenz(a,h)anthracene	ND	60.8		µg/Kg-dry	1	7/28/2023 7:42:51 AM
Surr: 2-Fluorobiphenyl	91.9	22.2 - 146		%Rec	1	7/28/2023 7:42:51 AM
Surr: Terphenyl-d14 (surr)	99.0	20.2 - 159		%Rec	1	7/28/2023 7:42:51 AM

Sample Moisture (Percent Moisture)

Batch ID: R85501 Analyst: MP

Percent Moisture	23.3	0.500		wt%	1	7/26/2023 8:19:45 AM
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Analytical Report

Work Order: 2307302
 Date Reported: 7/28/2023

Client: GeoEngineers
Project: S Jackson Street
Lab ID: 2307302-002
Client Sample ID: R2-SSW-95

Collection Date: 7/24/2023 1:11:00 PM
Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Batch ID: 40988 Analyst: SH

Benz(a)anthracene	ND	26.9		µg/Kg-dry	1	7/27/2023 10:05:39 AM
Chrysene	ND	26.9		µg/Kg-dry	1	7/27/2023 10:05:39 AM
Benzo(b)fluoranthene	ND	33.6		µg/Kg-dry	1	7/27/2023 10:05:39 AM
Benzo(k)fluoranthene	ND	33.6		µg/Kg-dry	1	7/27/2023 10:05:39 AM
Benzo(a)pyrene	ND	40.3		µg/Kg-dry	1	7/27/2023 10:05:39 AM
Indeno(1,2,3-cd)pyrene	ND	53.8		µg/Kg-dry	1	7/27/2023 10:05:39 AM
Dibenz(a,h)anthracene	ND	67.2		µg/Kg-dry	1	7/27/2023 10:05:39 AM
Surr: 2-Fluorobiphenyl	104	22.2 - 146		%Rec	1	7/27/2023 10:05:39 AM
Surr: Terphenyl-d14 (surr)	117	20.2 - 159		%Rec	1	7/27/2023 10:05:39 AM

Sample Moisture (Percent Moisture)

Batch ID: R85501 Analyst: MP

Percent Moisture	26.8	0.500		wt%	1	7/26/2023 8:19:45 AM
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Client: GeoEngineers

Collection Date: 7/24/2023 11:18:00 AM

Project: S Jackson Street

Lab ID: 2307302-003

Matrix: Soil

Client Sample ID: R1-ESW-98

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Total Metals by EPA Method 6020B</u>				Batch ID: 41012		Analyst: JR
Lead	4.79	1.02		mg/Kg-dry	1	7/28/2023 11:23:00 AM
<u>Sample Moisture (Percent Moisture)</u>				Batch ID: R85501		Analyst: MP
Percent Moisture	24.0	0.500		wt%	1	7/26/2023 8:19:45 AM



Analytical Report

Work Order: 2307302
Date Reported: 7/28/2023

Client: GeoEngineers

Collection Date: 7/25/2023 9:30:00 AM

Project: S Jackson Street

Lab ID: 2307302-004

Matrix: Soil

Client Sample ID: EX-01-95

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Batch ID: 40986 Analyst: AP

Diesel Range Organics	ND	66.8		mg/Kg-dry	1	7/25/2023 8:03:52 PM
Heavy Oil	ND	134		mg/Kg-dry	1	7/25/2023 8:03:52 PM
Total Petroleum Hydrocarbons	ND	200		mg/Kg-dry	1	7/25/2023 8:03:52 PM
Surr: 2-Fluorobiphenyl	112	50 - 150		%Rec	1	7/25/2023 8:03:52 PM
Surr: o-Terphenyl	115	50 - 150		%Rec	1	7/25/2023 8:03:52 PM

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Batch ID: 40996 Analyst: SH

Naphthalene	ND	25.6		µg/Kg-dry	1	7/28/2023 11:37:23 AM
2-Methylnaphthalene	ND	25.6		µg/Kg-dry	1	7/28/2023 11:37:23 AM
1-Methylnaphthalene	ND	25.6		µg/Kg-dry	1	7/28/2023 11:37:23 AM
Acenaphthylene	ND	25.6		µg/Kg-dry	1	7/28/2023 11:37:23 AM
Acenaphthene	ND	25.6		µg/Kg-dry	1	7/28/2023 11:37:23 AM
Fluorene	ND	25.6		µg/Kg-dry	1	7/28/2023 11:37:23 AM
Phenanthrene	ND	25.6		µg/Kg-dry	1	7/28/2023 11:37:23 AM
Anthracene	ND	25.6		µg/Kg-dry	1	7/28/2023 11:37:23 AM
Fluoranthene	ND	25.6		µg/Kg-dry	1	7/28/2023 11:37:23 AM
Pyrene	ND	51.2		µg/Kg-dry	1	7/28/2023 11:37:23 AM
Benz(a)anthracene	ND	25.6		µg/Kg-dry	1	7/28/2023 11:37:23 AM
Chrysene	ND	25.6		µg/Kg-dry	1	7/28/2023 11:37:23 AM
Benzo(b)fluoranthene	ND	32.0		µg/Kg-dry	1	7/28/2023 11:37:23 AM
Benzo(k)fluoranthene	ND	32.0		µg/Kg-dry	1	7/28/2023 11:37:23 AM
Benzo(a)pyrene	ND	38.4		µg/Kg-dry	1	7/28/2023 11:37:23 AM
Indeno(1,2,3-cd)pyrene	ND	51.2		µg/Kg-dry	1	7/28/2023 11:37:23 AM
Dibenz(a,h)anthracene	ND	64.0		µg/Kg-dry	1	7/28/2023 11:37:23 AM
Benzo(g,h,i)perylene	ND	64.0		µg/Kg-dry	1	7/28/2023 11:37:23 AM
Surr: 2-Fluorobiphenyl	88.6	22.2 - 146		%Rec	1	7/28/2023 11:37:23 AM
Surr: Terphenyl-d14 (surr)	92.3	20.2 - 159		%Rec	1	7/28/2023 11:37:23 AM

Total Metals by EPA Method 6020B

Batch ID: 41012 Analyst: JR

Arsenic	4.18	0.269		mg/Kg-dry	1	7/28/2023 11:34:00 AM
Cadmium	0.147	0.0215		mg/Kg-dry	1	7/28/2023 11:34:00 AM
Chromium	43.1	0.269		mg/Kg-dry	1	7/28/2023 11:34:00 AM
Lead	5.58	1.07		mg/Kg-dry	1	7/28/2023 11:34:00 AM
Mercury	ND	0.215		mg/Kg-dry	1	7/28/2023 11:34:00 AM



Client: GeoEngineers

Collection Date: 7/25/2023 9:30:00 AM

Project: S Jackson Street

Lab ID: 2307302-004

Matrix: Soil

Client Sample ID: EX-01-95

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Sample Moisture (Percent Moisture)

Batch ID: R85501 Analyst: MP

Percent Moisture	26.7	0.500		wt%	1	7/26/2023 8:19:45 AM
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Analytical Report

Work Order: 2307302
Date Reported: 7/28/2023

Client: GeoEngineers
Project: S Jackson Street
Lab ID: 2307302-005
Client Sample ID: DUP-R2

Collection Date: 7/24/2023 6:00:00 AM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Batch ID: 40996 Analyst: SH

Benz(a)anthracene	ND	24.9		µg/Kg-dry	1	7/28/2023 8:38:26 AM
Chrysene	ND	24.9		µg/Kg-dry	1	7/28/2023 8:38:26 AM
Benzo(b)fluoranthene	ND	31.1		µg/Kg-dry	1	7/28/2023 8:38:26 AM
Benzo(k)fluoranthene	ND	31.1		µg/Kg-dry	1	7/28/2023 8:38:26 AM
Benzo(a)pyrene	ND	37.3		µg/Kg-dry	1	7/28/2023 8:38:26 AM
Indeno(1,2,3-cd)pyrene	ND	49.7		µg/Kg-dry	1	7/28/2023 8:38:26 AM
Dibenz(a,h)anthracene	ND	62.1		µg/Kg-dry	1	7/28/2023 8:38:26 AM
Surr: 2-Fluorobiphenyl	91.0	22.2 - 146		%Rec	1	7/28/2023 8:38:26 AM
Surr: Terphenyl-d14 (surr)	97.4	20.2 - 159		%Rec	1	7/28/2023 8:38:26 AM

Sample Moisture (Percent Moisture)

Batch ID: R85501 Analyst: MP

Percent Moisture	23.5	0.500		wt%	1	7/26/2023 8:19:45 AM
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Work Order: 2307302
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT
Total Metals by EPA Method 6020B

Sample ID: ICB		SampType: ICB		Units: µg/L		Prep Date: 7/28/2023		RunNo: 85556			
Client ID: ICB		Batch ID: 41012				Analysis Date: 7/28/2023		SeqNo: 1785046			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.250									
Cadmium	ND	0.0200									
Chromium	ND	0.250									
Lead	ND	1.00									
Mercury	ND	0.200									

Sample ID: ICV		SampType: ICV		Units: µg/L		Prep Date: 7/28/2023		RunNo: 85556			
Client ID: ICV		Batch ID: 41012				Analysis Date: 7/28/2023		SeqNo: 1785047			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	98.8	0.250	100.0	0	98.8	90	110				
Cadmium	5.01	0.0200	5.000	0	100	90	110				
Chromium	95.0	0.250	100.0	0	95.0	90	110				
Lead	49.1	1.00	50.00	0	98.2	90	110				
Mercury	2.56	0.200	2.500	0	102	90	110				

Sample ID: CCV-41012A		SampType: CCV		Units: µg/L		Prep Date: 7/28/2023		RunNo: 85556			
Client ID: CCV		Batch ID: 41012				Analysis Date: 7/28/2023		SeqNo: 1785049			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	105	0.250	100.0	0	105	90	110				
Cadmium	5.14	0.0200	5.000	0	103	90	110				
Chromium	107	0.250	100.0	0	107	90	110				
Lead	53.8	1.00	50.00	0	108	90	110				
Mercury	2.59	0.200	2.500	0	104	90	110				

Work Order: 2307302
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT
Total Metals by EPA Method 6020B

Sample ID: CCB-41012A		SampType: CCB		Units: µg/L		Prep Date: 7/28/2023		RunNo: 85556			
Client ID: CCB		Batch ID: 41012				Analysis Date: 7/28/2023		SeqNo: 1785050			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.250									
Cadmium	ND	0.0200									
Chromium	ND	0.250									
Lead	ND	1.00									
Mercury	ND	0.200									

Sample ID: MB-41012		SampType: MBLK		Units: mg/Kg		Prep Date: 7/27/2023		RunNo: 85556			
Client ID: MBLKS		Batch ID: 41012				Analysis Date: 7/28/2023		SeqNo: 1785051			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.250									
Cadmium	ND	0.0200									
Chromium	ND	0.250									
Lead	ND	1.00									
Mercury	ND	0.200									

Sample ID: 2307302-003AMS		SampType: MS		Units: mg/Kg-dry		Prep Date: 7/27/2023		RunNo: 85556			
Client ID: R1-ESW-98		Batch ID: 41012				Analysis Date: 7/28/2023		SeqNo: 1785055			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	49.6	0.251	50.22	3.491	91.9	75	125				
Cadmium	2.61	0.0201	2.511	0.1280	99.0	75	125				
Chromium	81.3	0.251	50.22	39.05	84.1	75	125				
Lead	31.3	1.00	25.11	4.786	106	75	125				
Mercury	1.43	0.201	1.255	0.05610	110	75	125				

Work Order: 2307302
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT
Total Metals by EPA Method 6020B

Sample ID: 2307302-003AMSD		SampType: MSD		Units: mg/Kg-dry		Prep Date: 7/27/2023		RunNo: 85556			
Client ID: R1-ESW-98		Batch ID: 41012				Analysis Date: 7/28/2023		SeqNo: 1785056			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	55.0	0.265	53.05	3.491	97.0	75	125	49.63	10.2	20	
Cadmium	2.98	0.0212	2.653	0.1280	107	75	125	2.615	12.9	20	
Chromium	85.4	0.265	53.05	39.05	87.3	75	125	81.29	4.91	20	
Lead	33.7	1.06	26.53	4.786	109	75	125	31.33	7.25	20	
Mercury	1.56	0.212	1.326	0.05610	114	75	125	1.431	8.83	20	

Sample ID: CCV-41012B		SampType: CCV		Units: µg/L		Prep Date: 7/28/2023		RunNo: 85556			
Client ID: CCV		Batch ID: 41012				Analysis Date: 7/28/2023		SeqNo: 1785060			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	106	0.250	100.0	0	106	90	110				
Cadmium	5.10	0.0200	5.000	0	102	90	110				
Chromium	105	0.250	100.0	0	105	90	110				
Lead	52.2	1.00	50.00	0	104	90	110				
Mercury	2.47	0.200	2.500	0	99.0	90	110				

Sample ID: CCB-41012B		SampType: CCB		Units: µg/L		Prep Date: 7/28/2023		RunNo: 85556			
Client ID: CCB		Batch ID: 41012				Analysis Date: 7/28/2023		SeqNo: 1785061			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.250									
Cadmium	ND	0.0200									
Chromium	ND	0.250									
Lead	ND	1.00									
Mercury	ND	0.200									

Work Order: 2307302
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT
Total Metals by EPA Method 6020B

Sample ID: CCV-41012C		SampType: CCV		Units: µg/L		Prep Date: 7/28/2023		RunNo: 85556			
Client ID: CCV		Batch ID: 41012				Analysis Date: 7/28/2023		SeqNo: 1785072			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	106	0.250	100.0	0	106	90	110				
Cadmium	5.13	0.0200	5.000	0	103	90	110				
Chromium	101	0.250	100.0	0	101	90	110				
Lead	54.1	1.00	50.00	0	108	90	110				
Mercury	2.52	0.200	2.500	0	101	90	110				

Sample ID: CCB-41012C		SampType: CCB		Units: µg/L		Prep Date: 7/28/2023		RunNo: 85556			
Client ID: CCB		Batch ID: 41012				Analysis Date: 7/28/2023		SeqNo: 1785073			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.250									
Cadmium	ND	0.0200									
Chromium	ND	0.250									
Lead	ND	1.00									
Mercury	ND	0.200									

Sample ID: CCV-41012D		SampType: CCV		Units: µg/L		Prep Date: 7/28/2023		RunNo: 85556			
Client ID: CCV		Batch ID: 41012				Analysis Date: 7/28/2023		SeqNo: 1785079			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	106	0.250	100.0	0	106	90	110				
Cadmium	5.00	0.0200	5.000	0	100	90	110				
Chromium	103	0.250	100.0	0	103	90	110				
Lead	51.6	1.00	50.00	0	103	90	110				
Mercury	2.45	0.200	2.500	0	98.1	90	110				

Work Order: 2307302
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT
Total Metals by EPA Method 6020B

Sample ID: CCB-41012D		SampType: CCB		Units: µg/L		Prep Date: 7/28/2023		RunNo: 85556			
Client ID: CCB		Batch ID: 41012				Analysis Date: 7/28/2023		SeqNo: 1785080			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.250									
Cadmium	ND	0.0200									
Chromium	ND	0.250									
Lead	ND	1.00									
Mercury	ND	0.200									

Sample ID: CCV-41012E		SampType: CCV		Units: µg/L		Prep Date: 7/28/2023		RunNo: 85556			
Client ID: CCV		Batch ID: 41012				Analysis Date: 7/28/2023		SeqNo: 1785192			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	106	0.250	100.0	0	106	90	110				
Cadmium	5.12	0.0200	5.000	0	102	90	110				
Chromium	102	0.250	100.0	0	102	90	110				
Lead	53.1	1.00	50.00	0	106	90	110				
Mercury	2.47	0.200	2.500	0	98.6	90	110				

Sample ID: CCB-41012E		SampType: CCB		Units: µg/L		Prep Date: 7/28/2023		RunNo: 85556			
Client ID: CCB		Batch ID: 41012				Analysis Date: 7/28/2023		SeqNo: 1785177			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.250									
Cadmium	ND	0.0200									
Chromium	ND	0.250									
Lead	ND	1.00									
Mercury	ND	0.200									

Work Order: 2307302
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT
Total Metals by EPA Method 6020B

Sample ID: LCS-41012		SampType: LCS		Units: mg/Kg		Prep Date: 7/27/2023		RunNo: 85556			
Client ID: LCSS		Batch ID: 41012				Analysis Date: 7/28/2023		SeqNo: 1785178			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	44.5	0.200	40.00	0	111	80	120				
Cadmium	2.13	0.0160	2.000	0	107	80	120				
Chromium	43.5	0.200	40.00	0	109	80	120				
Lead	22.4	0.800	20.00	0	112	80	120				
Mercury	0.938	0.160	1.000	0	93.8	80	120				

Sample ID: CCV-41012F		SampType: CCV		Units: µg/L		Prep Date: 7/28/2023		RunNo: 85556			
Client ID: CCV		Batch ID: 41012				Analysis Date: 7/28/2023		SeqNo: 1785179			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	107	0.250	100.0	0	107	90	110				
Cadmium	4.97	0.0200	5.000	0	99.4	90	110				
Chromium	102	0.250	100.0	0	102	90	110				
Lead	54.4	1.00	50.00	0	109	90	110				
Mercury	2.60	0.200	2.500	0	104	90	110				

Sample ID: CCB-41012F		SampType: CCB		Units: µg/L		Prep Date: 7/28/2023		RunNo: 85556			
Client ID: CCB		Batch ID: 41012				Analysis Date: 7/28/2023		SeqNo: 1785180			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.250									
Cadmium	ND	0.0200									
Chromium	ND	0.250									
Lead	ND	1.00									
Mercury	ND	0.200									

Work Order: 2307302
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT
Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Sample ID: HO ICB	SampType: ICB	Units: mg/Kg	Prep Date: 4/17/2023	RunNo: 83265							
Client ID: ICB	Batch ID: 40986		Analysis Date: 4/17/2023	SeqNo: 1733716							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Heavy Oil	ND	100									
Surr: 2-Fluorobiphenyl	10.6		10.00		106	50	150				
Surr: o-Terphenyl	10.6		10.00		106	50	150				

Sample ID: HO ICV	SampType: ICV	Units: mg/Kg	Prep Date: 4/17/2023	RunNo: 83265							
Client ID: ICV	Batch ID: 40986		Analysis Date: 4/17/2023	SeqNo: 1733717							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Heavy Oil	482	100	500.0	0	96.4	70	130				
Surr: 2-Fluorobiphenyl	10.6		10.00		106	50	150				
Surr: o-Terphenyl	10.6		10.00		106	50	150				

Sample ID: DX ICB	SampType: ICB	Units: mg/Kg	Prep Date: 4/17/2023	RunNo: 83265							
Client ID: ICB	Batch ID: 40986		Analysis Date: 4/17/2023	SeqNo: 1733725							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel Range Organics	ND	50.0									
Surr: 2-Fluorobiphenyl	10.6		10.00		106	50	150				
Surr: o-Terphenyl	10.5		10.00		105	50	150				

Sample ID: DX ICV	SampType: ICV	Units: mg/Kg	Prep Date: 4/17/2023	RunNo: 83265							
Client ID: ICV	Batch ID: 40986		Analysis Date: 4/17/2023	SeqNo: 1733726							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel Range Organics	551	50.0	500.0	0	110	70	130				
Surr: 2-Fluorobiphenyl	10.6		10.00		106	50	150				
Surr: o-Terphenyl	12.2		10.00		122	50	150				

Work Order: 2307302
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT
Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Sample ID: OIL-CCV-40986A	SampType: CCV	Units: mg/Kg				Prep Date: 7/25/2023	RunNo: 85505				
Client ID: CCV	Batch ID: 40986					Analysis Date: 7/25/2023	SeqNo: 1784045				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Heavy Oil	525	100	500.0	0	105	85	115				
Surr: 2-Fluorobiphenyl	10.5		10.00		105	50	150				
Surr: o-Terphenyl	11.0		10.00		110	50	150				

Sample ID: DX-CCV-40986A	SampType: CCV	Units: mg/Kg				Prep Date: 7/25/2023	RunNo: 85505				
Client ID: CCV	Batch ID: 40986					Analysis Date: 7/25/2023	SeqNo: 1784046				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics	532	50.0	500.0	0	106	85	115				
Surr: 2-Fluorobiphenyl	10.6		10.00		106	50	150				
Surr: o-Terphenyl	11.0		10.00		110	50	150				

Sample ID: MB-40986	SampType: MBLK	Units: mg/Kg				Prep Date: 7/25/2023	RunNo: 85505				
Client ID: MBLKS	Batch ID: 40986					Analysis Date: 7/25/2023	SeqNo: 1784047				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics	ND	50.0									
Heavy Oil	ND	100									
Total Petroleum Hydrocarbons	ND	150									
Surr: 2-Fluorobiphenyl	10.5		10.00		105	50	150				
Surr: o-Terphenyl	10.9		10.00		109	50	150				

Sample ID: LCS-40986	SampType: LCS	Units: mg/Kg				Prep Date: 7/25/2023	RunNo: 85505				
Client ID: LCSS	Batch ID: 40986					Analysis Date: 7/25/2023	SeqNo: 1784048				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Petroleum Hydrocarbons	547	150	500.0	0	109	76.8	124				
Surr: 2-Fluorobiphenyl	10.4		10.00		104	50	150				
Surr: o-Terphenyl	11.9		10.00		119	50	150				

Work Order: 2307302
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT
Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Sample ID: 2307271-008AMS	SampType: MS	Units: mg/Kg-dry	Prep Date: 7/25/2023	RunNo: 85505							
Client ID: BATCH	Batch ID: 40986	Analysis Date: 7/25/2023	SeqNo: 1784050								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Petroleum Hydrocarbons	574	159	529.4	0	108	21.8	165				
Surr: 2-Fluorobiphenyl	10.8		10.59		102	50	150				
Surr: o-Terphenyl	14.0		10.59		132	50	150				

Sample ID: OIL-CCV-40986B	SampType: CCV	Units: mg/Kg	Prep Date: 7/25/2023	RunNo: 85505							
Client ID: CCV	Batch ID: 40986	Analysis Date: 7/25/2023	SeqNo: 1784051								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Heavy Oil	533	100	500.0	0	107	85	115				
Surr: 2-Fluorobiphenyl	10.6		10.00		106	50	150				
Surr: o-Terphenyl	11.3		10.00		113	50	150				

Sample ID: DX-CCV-40986B	SampType: CCV	Units: mg/Kg	Prep Date: 7/25/2023	RunNo: 85505							
Client ID: CCV	Batch ID: 40986	Analysis Date: 7/25/2023	SeqNo: 1784052								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics	522	50.0	500.0	0	104	85	115				
Surr: 2-Fluorobiphenyl	10.6		10.00		106	50	150				
Surr: o-Terphenyl	11.6		10.00		116	50	150				

Sample ID: 2307271-008AMSD	SampType: MSD	Units: mg/Kg-dry	Prep Date: 7/25/2023	RunNo: 85505							
Client ID: BATCH	Batch ID: 40986	Analysis Date: 7/25/2023	SeqNo: 1784054								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Petroleum Hydrocarbons	551	159	529.4	0	104	21.8	165	574.1	4.14	30	
Surr: 2-Fluorobiphenyl	11.7		10.59		110	50	150		0		
Surr: o-Terphenyl	13.4		10.59		127	50	150		0		

Work Order: 2307302
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT
Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Sample ID: OIL-CCV-40986C	SampType: CCV	Units: mg/Kg			Prep Date: 7/26/2023	RunNo: 85505					
Client ID: CCV	Batch ID: 40986				Analysis Date: 7/26/2023	SeqNo: 1784056					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Heavy Oil	574	100	500.0	0	115	85	115				
Surr: 2-Fluorobiphenyl	10.6		10.00		106	50	150				
Surr: o-Terphenyl	11.2		10.00		112	50	150				

Sample ID: DX-CCV-40986C	SampType: CCV	Units: mg/Kg			Prep Date: 7/26/2023	RunNo: 85505					
Client ID: CCV	Batch ID: 40986				Analysis Date: 7/26/2023	SeqNo: 1784057					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel Range Organics	524	50.0	500.0	0	105	85	115				
Surr: 2-Fluorobiphenyl	9.42		10.00		94.2	50	150				
Surr: o-Terphenyl	11.5		10.00		115	50	150				

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QC SUMMARY REPORT
Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Sample ID: PAH ICB	SampType: ICB	Units: µg/L	Prep Date: 6/27/2023	RunNo: 85013							
Client ID: ICB	Batch ID: 40988		Analysis Date: 6/27/2023	SeqNo: 1774504							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benz(a)anthracene	ND	0.100									
Chrysene	0.303	0.100									
Benzo(b)fluoranthene	0.198	0.100									
Benzo(k)fluoranthene	0.171	0.100									
Benzo(a)pyrene	ND	0.100									
Indeno(1,2,3-cd)pyrene	ND	0.100									
Dibenz(a,h)anthracene	ND	0.100									
Surr: 2,4,6-Tribromophenol	722		1,000		72.2	24	138				
Surr: 2-Fluorobiphenyl	395		500.0		79.0	72.7	131				
Surr: Terphenyl-d14	415		500.0		82.9	74.6	134				

Sample ID: PAH ICV	SampType: ICV	Units: µg/L	Prep Date: 6/27/2023	RunNo: 85013							
Client ID: ICV	Batch ID: 40988		Analysis Date: 6/27/2023	SeqNo: 1774505							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benz(a)anthracene	887	0.100	1,000	0	88.7	70	130				
Chrysene	934	0.100	1,000	0	93.4	70	130				
Benzo(b)fluoranthene	847	0.100	1,000	0	84.7	70	130				
Benzo(k)fluoranthene	926	0.100	1,000	0	92.6	70	130				
Benzo(a)pyrene	890	0.100	1,000	0	89.0	70	130				
Indeno(1,2,3-cd)pyrene	867	0.100	1,000	0	86.7	70	130				
Dibenz(a,h)anthracene	869	0.100	1,000	0	86.9	70	130				
Surr: 2,4,6-Tribromophenol	1,020		1,000		102	24	138				
Surr: 2-Fluorobiphenyl	478		500.0		95.6	70.2	145				
Surr: Terphenyl-d14	503		500.0		101	71.3	142				

Sample ID: PAH ICV	SampType: ICV	Units: µg/L	Prep Date: 7/26/2023	RunNo: 85526							
Client ID: ICV	Batch ID: 40988		Analysis Date: 7/26/2023	SeqNo: 1784513							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benz(a)anthracene	1,070	0.100	1,000	0	107	70	130				

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QC SUMMARY REPORT

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Sample ID: PAH ICV	SampType: ICV	Units: µg/L			Prep Date: 7/26/2023	RunNo: 85526					
Client ID: ICV	Batch ID: 40988				Analysis Date: 7/26/2023	SeqNo: 1784513					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chrysene	1,140	0.100	1,000	0	114	70	130				
Benzo(b)fluoranthene	1,120	0.100	1,000	0	112	70	130				
Benzo(k)fluoranthene	1,150	0.100	1,000	0	115	70	130				
Benzo(a)pyrene	1,160	0.100	1,000	0	116	70	130				
Indeno(1,2,3-cd)pyrene	1,120	0.100	1,000	0	112	70	130				
Dibenz(a,h)anthracene	1,120	0.100	1,000	0	112	70	130				
Surr: 2,4,6-Tribromophenol	1,050		1,000		105	24	138				
Surr: 2-Fluorobiphenyl	504		500.0		101	70.2	145				
Surr: Terphenyl-d14	542		500.0		108	71.3	142				

Sample ID: PAH ICB	SampType: ICB	Units: µg/L			Prep Date: 7/26/2023	RunNo: 85526					
Client ID: ICB	Batch ID: 40988				Analysis Date: 7/26/2023	SeqNo: 1784514					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benz(a)anthracene	ND	0.100									
Chrysene	0.846	0.100									
Benzo(b)fluoranthene	0.814	0.100									
Benzo(k)fluoranthene	0.712	0.100									
Benzo(a)pyrene	ND	0.100									
Indeno(1,2,3-cd)pyrene	0.936	0.100									
Dibenz(a,h)anthracene	ND	0.100									
Surr: 2,4,6-Tribromophenol	830		1,000		83.0	24	138				
Surr: 2-Fluorobiphenyl	428		500.0		85.7	72.7	131				
Surr: Terphenyl-d14	458		500.0		91.5	74.6	134				

Sample ID: CCV-40988B	SampType: CCV	Units: µg/L			Prep Date: 7/27/2023	RunNo: 85506					
Client ID: CCV	Batch ID: 40988				Analysis Date: 7/27/2023	SeqNo: 1784550					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benz(a)anthracene	1,050	20.0	1,000	0	105	80	120				
Chrysene	1,090	20.0	1,000	0	109	80	120				

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Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Sample ID: CCV-40988B	SampType: CCV	Units: µg/L	Prep Date: 7/27/2023	RunNo: 85506							
Client ID: CCV	Batch ID: 40988		Analysis Date: 7/27/2023	SeqNo: 1784550							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(b)fluoranthene	1,090	25.0	1,000	0	109	80	120				
Benzo(k)fluoranthene	1,060	25.0	1,000	0	106	80	120				
Benzo(a)pyrene	1,100	30.0	1,000	0	110	80	120				
Indeno(1,2,3-cd)pyrene	1,050	40.0	1,000	0	105	80	120				
Dibenz(a,h)anthracene	1,060	50.0	1,000	0	106	80	120				
Surr: 2,4,6-Tribromophenol	1,110		1,000		111	14	136				
Surr: 2-Fluorobiphenyl	530		500.0		106	69.5	150				
Surr: Terphenyl-d14 (surr)	545		500.0		109	71.6	145				

Sample ID: MB-40988	SampType: MBLK	Units: µg/Kg	Prep Date: 7/25/2023	RunNo: 85506							
Client ID: MBLKS	Batch ID: 40988		Analysis Date: 7/27/2023	SeqNo: 1784551							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benz(a)anthracene	ND	20.0									
Chrysene	ND	20.0									
Benzo(b)fluoranthene	ND	25.0									
Benzo(k)fluoranthene	ND	25.0									
Benzo(a)pyrene	ND	30.0									
Indeno(1,2,3-cd)pyrene	ND	40.0									
Dibenz(a,h)anthracene	ND	50.0									
Surr: 2-Fluorobiphenyl	942		1,000		94.2	22.2	146				
Surr: Terphenyl-d14 (surr)	1,050		1,000		105	20.2	159				

Sample ID: LCS-40988	SampType: LCS	Units: µg/Kg	Prep Date: 7/25/2023	RunNo: 85506							
Client ID: LCSS	Batch ID: 40988		Analysis Date: 7/27/2023	SeqNo: 1784552							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benz(a)anthracene	1,930	20.0	2,000	0	96.7	59.5	123				
Chrysene	2,010	20.0	2,000	0	101	51.5	115				
Benzo(b)fluoranthene	1,920	25.0	2,000	0	96.1	50	122				
Benzo(k)fluoranthene	2,000	25.0	2,000	0	100	51	117				

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Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Sample ID: LCS-40988	SampType: LCS	Units: µg/Kg	Prep Date: 7/25/2023	RunNo: 85506							
Client ID: LCSS	Batch ID: 40988		Analysis Date: 7/27/2023	SeqNo: 1784552							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(a)pyrene	2,110	30.0	2,000	0	106	53.2	123				
Indeno(1,2,3-cd)pyrene	1,980	40.0	2,000	0	98.9	49.5	122				
Dibenz(a,h)anthracene	2,020	50.0	2,000	0	101	51	120				
Surr: 2-Fluorobiphenyl	1,100		1,000		110	22.2	146				
Surr: Terphenyl-d14 (surr)	1,190		1,000		119	20.2	159				

Sample ID: CCV-40996A	SampType: CCV	Units: µg/L	Prep Date: 7/28/2023	RunNo: 85545							
Client ID: CCV	Batch ID: 40996		Analysis Date: 7/28/2023	SeqNo: 1784859							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	1,100	20.0	1,000	0	110	80	120				
2-Methylnaphthalene	1,020	20.0	1,000	0	102	80	120				
1-Methylnaphthalene	1,060	20.0	1,000	0	106	80	120				
Acenaphthene	1,050	20.0	1,000	0	105	80	120				
Acenaphthylene	1,000	20.0	1,000	0	100	80	120				
Phenanthrene	972	20.0	1,000	0	97.2	80	120				
Fluorene	997	20.0	1,000	0	99.7	80	120				
Anthracene	982	20.0	1,000	0	98.2	80	120				
Fluoranthene	1,030	20.0	1,000	0	103	80	120				
Pyrene	1,000	40.0	1,000	0	100	80	120				
Benz(a)anthracene	1,020	20.0	1,000	0	102	80	120				
Chrysene	992	20.0	1,000	0	99.2	80	120				
Benzo(b)fluoranthene	1,010	25.0	1,000	0	101	80	120				
Benzo(k)fluoranthene	965	25.0	1,000	0	96.5	80	120				
Benzo(a)pyrene	1,020	30.0	1,000	0	102	80	120				
Indeno(1,2,3-cd)pyrene	805	40.0	1,000	0	80.5	80	120				
Dibenz(a,h)anthracene	811	50.0	1,000	0	81.1	80	120				
Surr: 2,4,6-Tribromophenol	1,090		1,000		109	14	136				
Surr: 2-Fluorobiphenyl	500		500.0		99.9	69.5	150				
Surr: Terphenyl-d14 (surr)	508		500.0		102	71.6	145				

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Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Sample ID: CCV-40996B	SampType: CCV	Units: µg/L	Prep Date: 7/28/2023	RunNo: 85545							
Client ID: CCV	Batch ID: 40996		Analysis Date: 7/28/2023	SeqNo: 1784995							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	1,100	20.0	1,000	0	110	80	120				
2-Methylnaphthalene	1,040	20.0	1,000	0	104	80	120				
1-Methylnaphthalene	1,070	20.0	1,000	0	107	80	120				
Acenaphthene	1,050	20.0	1,000	0	105	80	120				
Acenaphthylene	1,000	20.0	1,000	0	100	80	120				
Phenanthrene	976	20.0	1,000	0	97.6	80	120				
Fluorene	991	20.0	1,000	0	99.1	80	120				
Anthracene	969	20.0	1,000	0	96.9	80	120				
Fluoranthene	1,020	20.0	1,000	0	102	80	120				
Pyrene	986	40.0	1,000	0	98.6	80	120				
Benz(a)anthracene	960	20.0	1,000	0	96.0	80	120				
Chrysene	1,000	20.0	1,000	0	100	80	120				
Benzo(b)fluoranthene	1,010	25.0	1,000	0	101	80	120				
Benzo(k)fluoranthene	995	25.0	1,000	0	99.5	80	120				
Benzo(a)pyrene	1,040	30.0	1,000	0	104	80	120				
Indeno(1,2,3-cd)pyrene	955	40.0	1,000	0	95.5	80	120				
Dibenz(a,h)anthracene	954	50.0	1,000	0	95.4	80	120				
Benzo(g,h,i)perylene	959	50.0	1,000	0	95.9	80	120				
Surr: 2,4,6-Tribromophenol	1,050		1,000		105	14	136				
Surr: 2-Fluorobiphenyl	504		500.0		101	69.5	150				
Surr: Terphenyl-d14 (surr)	491		500.0		98.3	71.6	145				

Sample ID: MB-40996	SampType: MBLK	Units: µg/Kg	Prep Date: 7/26/2023	RunNo: 85545							
Client ID: MBLKS	Batch ID: 40996		Analysis Date: 7/28/2023	SeqNo: 1784996							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	ND	20.0									
2-Methylnaphthalene	ND	20.0									
1-Methylnaphthalene	ND	20.0									
Acenaphthene	ND	20.0									
Acenaphthylene	ND	20.0									

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Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Sample ID: MB-40996	SampType: MBLK	Units: µg/Kg	Prep Date: 7/26/2023	RunNo: 85545							
Client ID: MBLKS	Batch ID: 40996		Analysis Date: 7/28/2023	SeqNo: 1784996							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenanthrene	ND	20.0									
Fluorene	ND	20.0									
Anthracene	ND	20.0									
Fluoranthene	ND	20.0									
Pyrene	ND	40.0									
Benz(a)anthracene	ND	20.0									
Chrysene	ND	20.0									
Benzo(b)fluoranthene	ND	25.0									
Benzo(k)fluoranthene	ND	25.0									
Benzo(a)pyrene	ND	30.0									
Indeno(1,2,3-cd)pyrene	ND	40.0									
Dibenz(a,h)anthracene	ND	50.0									
Benzo(g,h,i)perylene	ND	50.0									
Surr: 2-Fluorobiphenyl	943		1,000		94.3	22.2	146				
Surr: Terphenyl-d14 (surr)	1,010		1,000		101	20.2	159				

Sample ID: LCS-40996	SampType: LCS	Units: µg/Kg	Prep Date: 7/26/2023	RunNo: 85545							
Client ID: LCSS	Batch ID: 40996		Analysis Date: 7/28/2023	SeqNo: 1784997							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	1,970	20.0	2,000	0	98.7	59.3	114				
2-Methylnaphthalene	1,930	20.0	2,000	0	96.6	55.5	115				
1-Methylnaphthalene	1,960	20.0	2,000	0	98.1	57.2	116				
Acenaphthene	1,940	20.0	2,000	0	97.1	56.6	114				
Acenaphthylene	1,960	20.0	2,000	0	98.2	58.2	120				
Phenanthrene	1,830	20.0	2,000	0	91.7	53.2	118				
Fluorene	1,850	20.0	2,000	0	92.3	57.7	117				
Anthracene	1,740	20.0	2,000	0	86.9	54.7	118				
Fluoranthene	1,960	20.0	2,000	0	98.1	56	120				
Pyrene	1,900	40.0	2,000	0	94.9	56.9	120				
Benz(a)anthracene	1,840	20.0	2,000	0	92.2	59.5	123				

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Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Sample ID: LCS-40996	SampType: LCS	Units: µg/Kg				Prep Date: 7/26/2023	RunNo: 85545				
Client ID: LCSS	Batch ID: 40996					Analysis Date: 7/28/2023	SeqNo: 1784997				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chrysene	1,940	20.0	2,000	0	97.0	51.5	115				
Benzo(b)fluoranthene	1,820	25.0	2,000	0	91.1	50	122				
Benzo(k)fluoranthene	1,970	25.0	2,000	0	98.3	51	117				
Benzo(a)pyrene	2,030	30.0	2,000	0	101	53.2	123				
Indeno(1,2,3-cd)pyrene	1,930	40.0	2,000	0	96.7	49.5	122				
Dibenz(a,h)anthracene	1,960	50.0	2,000	0	97.9	51	120				
Benzo(g,h,i)perylene	1,900	50.0	2,000	0	95.0	46.8	122				
Surr: 2-Fluorobiphenyl	1,080		1,000		108	22.2	146				
Surr: Terphenyl-d14 (surr)	1,070		1,000		107	20.2	159				

Sample ID: 2307278-006AMS	SampType: MS	Units: µg/Kg-dry				Prep Date: 7/26/2023	RunNo: 85545				
Client ID: BATCH	Batch ID: 40996					Analysis Date: 7/28/2023	SeqNo: 1785470				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	1,960	20.2	2,017	0	97.1	44	114				
2-Methylnaphthalene	1,930	20.2	2,017	0	95.6	46.9	106				
1-Methylnaphthalene	1,960	20.2	2,017	0	97.0	47.3	109				
Acenaphthene	1,970	20.2	2,017	0	97.9	44.3	110				
Acenaphthylene	1,970	20.2	2,017	0	97.6	48.4	112				
Phenanthrene	1,900	20.2	2,017	0	94.4	42.9	109				
Fluorene	1,900	20.2	2,017	0	94.3	43.9	115				
Anthracene	1,870	20.2	2,017	0	92.7	42.6	113				
Fluoranthene	2,050	20.2	2,017	0	102	40.4	122				
Pyrene	1,990	40.3	2,017	0	98.6	40.2	122				
Benz(a)anthracene	1,940	20.2	2,017	0	96.2	41.7	126				
Chrysene	2,000	20.2	2,017	0	99.2	40.4	108				
Benzo(b)fluoranthene	1,850	25.2	2,017	0	91.9	30.9	124				
Benzo(k)fluoranthene	2,000	25.2	2,017	0	99.1	32.8	115				
Benzo(a)pyrene	2,070	30.3	2,017	0	103	25.9	129				
Indeno(1,2,3-cd)pyrene	1,950	40.3	2,017	0	96.8	14.3	126				
Dibenz(a,h)anthracene	1,980	50.4	2,017	0	98.3	18.6	121				

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Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Sample ID: 2307278-006AMS	SampType: MS	Units: µg/Kg-dry	Prep Date: 7/26/2023	RunNo: 85545							
Client ID: BATCH	Batch ID: 40996	Analysis Date: 7/28/2023	SeqNo: 1785470								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(g,h,i)perylene	1,920	50.4	2,017	0	95.3	4.01	130				
Surr: 2-Fluorobiphenyl	1,050		1,009		104	22.2	146				
Surr: Terphenyl-d14 (surr)	1,120		1,009		111	20.2	159				

Sample ID: 2307278-006AMSD	SampType: MSD	Units: µg/Kg-dry	Prep Date: 7/26/2023	RunNo: 85545							
Client ID: BATCH	Batch ID: 40996	Analysis Date: 7/28/2023	SeqNo: 1785471								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	1,960	20.2	2,017	0	97.4	44	114	1,959	0.308	30	
2-Methylnaphthalene	1,930	20.2	2,017	0	95.5	46.9	106	1,929	0.158	30	
1-Methylnaphthalene	1,960	20.2	2,017	0	97.3	47.3	109	1,957	0.275	30	
Acenaphthene	1,960	20.2	2,017	0	97.2	44.3	110	1,975	0.728	30	
Acenaphthylene	1,950	20.2	2,017	0	96.5	48.4	112	1,968	1.10	30	
Phenanthrene	1,870	20.2	2,017	0	92.6	42.9	109	1,904	1.90	30	
Fluorene	1,860	20.2	2,017	0	92.0	43.9	115	1,901	2.46	30	
Anthracene	1,790	20.2	2,017	0	88.8	42.6	113	1,870	4.24	30	
Fluoranthene	1,990	20.2	2,017	0	98.8	40.4	122	2,051	2.82	30	
Pyrene	1,940	40.3	2,017	0	96.2	40.2	122	1,990	2.53	30	
Benz(a)anthracene	1,870	20.2	2,017	0	92.7	41.7	126	1,941	3.71	30	
Chrysene	1,980	20.2	2,017	0	97.9	40.4	108	2,000	1.25	30	
Benzo(b)fluoranthene	1,890	25.2	2,017	0	93.9	30.9	124	1,853	2.22	30	
Benzo(k)fluoranthene	1,920	25.2	2,017	0	95.4	32.8	115	1,998	3.79	30	
Benzo(a)pyrene	2,030	30.3	2,017	0	101	25.9	129	2,072	2.05	30	
Indeno(1,2,3-cd)pyrene	1,960	40.3	2,017	0	97.3	14.3	126	1,953	0.462	30	
Dibenz(a,h)anthracene	1,990	50.4	2,017	0	98.5	18.6	121	1,983	0.157	30	
Benzo(g,h,i)perylene	1,930	50.4	2,017	0	95.7	4.01	130	1,923	0.388	30	
Surr: 2-Fluorobiphenyl	1,040		1,009		103	22.2	146		0		
Surr: Terphenyl-d14 (surr)	1,080		1,009		107	20.2	159		0		

Work Order: 2307302
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Sample ID: CCV-40996C	SampType: CCV	Units: µg/L			Prep Date: 7/28/2023	RunNo: 85545					
Client ID: CCV	Batch ID: 40996				Analysis Date: 7/28/2023	SeqNo: 1785601					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	1,100	20.0	1,000	0	110	80	120				
2-Methylnaphthalene	1,030	20.0	1,000	0	103	80	120				
1-Methylnaphthalene	1,070	20.0	1,000	0	107	80	120				
Acenaphthene	1,060	20.0	1,000	0	106	80	120				
Acenaphthylene	997	20.0	1,000	0	99.7	80	120				
Phenanthrene	982	20.0	1,000	0	98.2	80	120				
Fluorene	1,000	20.0	1,000	0	100	80	120				
Anthracene	963	20.0	1,000	0	96.3	80	120				
Fluoranthene	1,020	20.0	1,000	0	102	80	120				
Pyrene	991	40.0	1,000	0	99.1	80	120				
Benz(a)anthracene	981	20.0	1,000	0	98.1	80	120				
Chrysene	990	20.0	1,000	0	99.0	80	120				
Benzo(b)fluoranthene	970	25.0	1,000	0	97.0	80	120				
Benzo(k)fluoranthene	996	25.0	1,000	0	99.6	80	120				
Benzo(a)pyrene	1,010	30.0	1,000	0	101	80	120				
Indeno(1,2,3-cd)pyrene	953	40.0	1,000	0	95.3	80	120				
Dibenz(a,h)anthracene	953	50.0	1,000	0	95.3	80	120				
Benzo(g,h,i)perylene	948	50.0	1,000	0	94.8	80	120				
Surr: 2,4,6-Tribromophenol	986		1,000		98.6	14	136				
Surr: 2-Fluorobiphenyl	500		500.0		100	69.5	150				
Surr: Terphenyl-d14 (surr)	504		500.0		101	71.6	145				

Client Name: GEI	Work Order Number: 2307302
Logged by: Clare Griggs	Date Received: 7/25/2023 1:24:00 PM

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
2. How was the sample delivered? Client

Log In

3. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes No Not Present
4. Was an attempt made to cool the samples? Yes No NA
5. Were all items received at a temperature of >2°C to 6°C * Yes No NA
6. Sample(s) in proper container(s)? Yes No
7. Sufficient sample volume for indicated test(s)? Yes No
8. Are samples properly preserved? Yes No
9. Was preservative added to bottles? Yes No NA
10. Is there headspace in the VOA vials? Yes No NA
11. Did all samples containers arrive in good condition(unbroken)? Yes No
12. Does paperwork match bottle labels? Yes No
13. Are matrices correctly identified on Chain of Custody? Yes No
14. Is it clear what analyses were requested? Yes No
15. Were all holding times able to be met? Yes No

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text" value="Robert Trahan"/>	Date:	<input type="text" value="7/25/2023"/>
By Whom:	<input type="text" value="Clare Griggs"/>	Via:	<input checked="" type="checkbox"/> eMail <input checked="" type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text" value="Confirming COC/analysis/volume."/>		
Client Instructions:	<input type="text" value="See revised COC."/>		

17. Additional remarks:

Item Information

Item #	Temp °C
Sample	3.1

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C



Fremont
An Alliance Technical Group Company
Analytical

3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790

Chain of Custody Record & Laboratory Services Agreement

Date: 7/25/23 Page: 1 of 1
Project Name: S Jackson Street

Laboratory Project No (Internal):
Special Remarks:

2307302

Client: **GeoEngineers**

Project No: 24504-001-01

Address: 2101 4th Ave Ste 950

Collected by: Paul Robinette

City, State, Zip: Seattle, WA 98121

Location: Seattle, WA

Telephone: 425.861.2674

Report To (PM): Robert Trahan

Disposal: Retain volume (specify above) Return to client Samples will be disposed in 30 days unless otherwise requested.

Email(s): rtarahan@geoengineers.com

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	# of Cont.	Parameters														Comments							
					VOCs (EPA 8260 / 624)	BTX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (DX)	SVOCs (EPA 8270 - SIM)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T) Dissolved (D)	Anions (IC)**	EDB (801)	HELD									
1 RZ-B-920	7/24/23	811	S	1						X																
2 RZ-5517-95	7/24/23	1311	S	1						X																
3 RI-ESW-98	7/24/23	1118	S	1							X															
4 EX-01-85	7/25/23	930	S	1							X															
5 DWP-R2	7/24/23	0600	S	1																						
6																										
7																										
8																										
9																										
10																										

Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, Sl = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water

Metals (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Ti Tl V Zn

Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Turn-around Time:
 Standard Next Day
 3 Day
 Same Day
 (specify)

Relinquished (Signature) [Signature] Print Name Paul Robinette Date/Time 7/25/23 1324

Relinquished (Signature) [Signature] Print Name Robert Trahan Date/Time 7/25/23 1324



3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790

Chain of Custody Record & Laboratory Services Agreement

Date: 7/25/23 Page: 1 of: 1

Laboratory Project No (internal): 2307302

Project Name: S Jackson Street

Special Remarks:
edits per RT 7/25/23 -CG
Level 2B report requested

Project No: 24504-001-01

Collected by: Paul Robinette

Location: Seattle, WA

Disposal: Samples will be disposed in 30 days unless otherwise requested.
 Retain volume (specify above) Return to client

Report To (PM): Robert Trahan

Client: GeoEngineers

Address: 2101 4th Ave Ste 950

City, State, Zip: Seattle, WA 98121

Telephone: 425.861.2674

Email(s): rtrahan@geoengineers.com

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	# of Cont.	VOCs (EPA 8260 / 624)	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (DY)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T) Dissolved (D)	Anions (IC)***	EDB (8011)	Hold	Comments
1 RZ-B-90	7/24/23	811	S	1							X							cPAHs only
2 RZ-SSW-95	7/24/23	1311	S	1							X							cPAHs only - 1 day TAT
3 RI-ESW-98	7/24/23	1118	S	1								X						Lead only
4 EX-01-95	7/25/23	930	S	1				X	X			X						MTCA 5 metals
5 DWP-RZ	7/24/23	0600	S	1						X								cPAHs only
6																		
7																		
8																		
9																		
10																		

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water

**Metals (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Ti Tl V Zn

***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite

Turn-around Time:

- Standard Next Day
 3 Day Same Day
 2 Day (specify)

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished (Signature) Paul Robinette Print Name Paul Robinette Date/Time 7/25/23 1324

Received (Signature) Matthew Langston Print Name Matthew Langston Date/Time 7/25/23 1324

Relinquished (Signature) _____ Print Name _____ Date/Time _____

Received (Signature) _____ Print Name _____ Date/Time _____

DATA SET for Review - Deliverable Requirements

Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Fremont Analytical Work Order No. 2307302

GeoEngineers

Project Name: S Jackson Street

Project Number: 24504-001-01

This data set contains the following:

- Analytical Sequence Summary
- Calibration Information

Data Directory: D:\GC-24\Data\2023\230417FRONT\

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) 041708.D OIL-CCV	DX_220112.M	2	1.000	17 Apr 2023 12:42 pm
2) 041710.D OIL-CCV	DX_220112.M	2	1.000	17 Apr 2023 12:53 pm
3) 041712.D OIL-CCV	DX_220112.M	2	1.000	17 Apr 2023 01:04 pm
4) 041714.D OIL-CCV	DX_220112.M	2	1.000	17 Apr 2023 01:15 pm
5) 041716.D CO	DX_220112.M	150	1.000	17 Apr 2023 01:26 pm
6) 041718.D CO	DX_220112.M	150	1.000	17 Apr 2023 02:17 pm
7) 041720.D HO 20	DX_220112.M	21	1.000	17 Apr 2023 02:27 pm
8) 041722.D HO 100	DX_220112.M	22	1.000	17 Apr 2023 02:38 pm
9) 041724.D HO 500	DX_220112.M	23	1.000	17 Apr 2023 02:49 pm
10) 041726.D HO 1000	DX_220112.M	24	1.000	17 Apr 2023 03:00 pm
11) 041728.D HO 2000	DX_220112.M	25	1.000	17 Apr 2023 03:11 pm
12) 041730.D HO 5000	DX_220112.M	26	1.000	17 Apr 2023 03:22 pm
13) 041732.D HO 10000	DX_220112.M	27	1.000	17 Apr 2023 03:33 pm
14) 041734.D CO	DX_220112.M	150	1.000	17 Apr 2023 03:44 pm
15) 041736.D CO	DX_220112.M	150	1.000	17 Apr 2023 03:55 pm
16) 041738.D CO	DX_220112.M	150	1.000	17 Apr 2023 04:14 pm
17) 041740.D HO ICB	DX_220112.M	28	1.000	17 Apr 2023 04:25 pm
18) 041742.D HO ICV	DX_220112.M	29	1.000	17 Apr 2023 04:35 pm
19) 041744.D CO	DX_220112.M	150	1.000	17 Apr 2023 04:46 pm
20) 041746.D DX 20	DX_220112.M	11	1.000	17 Apr 2023 04:57 pm
21) 041748.D DX 100	DX_220112.M	12	1.000	17 Apr 2023 05:08 pm

22)	041750.D	DX_220112.M	13	1.000	17 Apr 2023	05:19 pm

23)	041752.D	DX_220112.M	14	1.000	17 Apr 2023	05:30 pm

24)	041754.D	DX_220112.M	15	1.000	17 Apr 2023	05:41 pm

25)	041756.D	DX_220112.M	16	1.000	17 Apr 2023	05:51 pm

26)	041758.D	DX_220112.M	17	1.000	17 Apr 2023	06:02 pm

27)	041760.D	DX_220112.M	150	1.000	17 Apr 2023	06:13 pm

28)	041762.D	DX_220112.M	150	1.000	17 Apr 2023	06:24 pm

29)	041764.D	DX_220112.M	150	1.000	17 Apr 2023	06:35 pm

30)	041766.D	DX_220112.M	18	1.000	17 Apr 2023	06:46 pm

31)	041768.D	DX_220112.M	19	1.000	17 Apr 2023	06:57 pm

32)	041770.D	DX_220112.M	150	1.000	17 Apr 2023	07:07 pm

Data Directory: D:\GC-24\Data\2023\230725FRONT\

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) 07250002.D CO	DX_220112.M	150	1.000	25 Jul 2023 08:51 am
2) 07250004.D OIL-CCV	DX_220112.M	2	1.000	25 Jul 2023 09:02 am
3) 07250006.D DX-CCV	DX_220112.M	1	1.000	25 Jul 2023 09:12 am
4) 07250008.D CO	DX_220112.M	150	1.000	25 Jul 2023 09:23 am
5) 07250010.D MB-40979	DX_220112.M	61	1.000	25 Jul 2023 01:10 pm
6) 07250012.D LCS-40979	DX_220112.M	62	1.000	25 Jul 2023 01:21 pm
7) 07250014.D LCSD-40979	DX_220112.M	63	1.000	25 Jul 2023 01:32 pm
8) 07250016.D Dx MDL	DX_220112.M	73	1.000	25 Jul 2023 01:43 pm
9) 07250018.D RRO MDL	DX_220112.M	74	1.000	25 Jul 2023 01:54 pm
10) 07250020.D 2307233-001B	DX_220112.M	64	1.000	25 Jul 2023 02:05 pm
11) 07250022.D 2307233-002B	DX_220112.M	65	1.000	25 Jul 2023 02:16 pm
12) 07250024.D 2307233-003B	DX_220112.M	66	1.000	25 Jul 2023 02:27 pm
13) 07250026.D 2307233-004B	DX_220112.M	67	1.000	25 Jul 2023 02:38 pm
14) 07250028.D 2307244-001B	DX_220112.M	68	1.000	25 Jul 2023 02:49 pm
15) 07250030.D 2307244-002B	DX_220112.M	69	1.000	25 Jul 2023 03:00 pm
16) 07250032.D 2307244-003B	DX_220112.M	70	1.000	25 Jul 2023 03:10 pm
17) 07250034.D 2307244-004B	DX_220112.M	71	1.000	25 Jul 2023 03:22 pm
18) 07250036.D 2307252-001B	DX_220112.M	72	1.000	25 Jul 2023 03:33 pm
19) 07250038.D CO	DX_220112.M	150	1.000	25 Jul 2023 03:44 pm
20) 07250040.D CO	DX_220112.M	150	1.000	25 Jul 2023 03:55 pm
21) 07250042.D OIL-CCV	DX_220112.M	2	1.000	25 Jul 2023 04:05 pm

22) 07250044.D DX-CCV	DX_220112.M	1	1.000	25 Jul 2023	04:16 pm
23) 07250046.D CO	DX_220112.M	150	1.000	25 Jul 2023	04:28 pm
24) 07250048.D MB-40986	DX_220112.M	81	1.000	25 Jul 2023	04:45 pm
25) 07250050.D LCS-40986	DX_220112.M	82	1.000	25 Jul 2023	04:56 pm
26) 07250052.D 2307271-002A	DX_220112.M	84	1.000	25 Jul 2023	05:07 pm
27) 07250054.D 2307271-003A	DX_220112.M	85	1.000	25 Jul 2023	05:18 pm
28) 07250056.D 2307271-004A	DX_220112.M	86	1.000	25 Jul 2023	05:29 pm
29) 07250058.D 2307271-005A	DX_220112.M	87	1.000	25 Jul 2023	05:40 pm
30) 07250060.D 2307271-006A	DX_220112.M	88	1.000	25 Jul 2023	05:51 pm
31) 07250062.D 2307271-006ADUP	DX_220112.M	89	1.000	25 Jul 2023	06:02 pm
32) 07250064.D 2307271-008A	DX_220112.M	91	1.000	25 Jul 2023	06:13 pm
33) 07250066.D 2307271-008AMS	DX_220112.M	92	1.000	25 Jul 2023	06:24 pm
34) 07250068.D 2307271-009A	DX_220112.M	94	1.000	25 Jul 2023	06:35 pm
35) 07250070.D 2307271-013A	DX_220112.M	98	1.000	25 Jul 2023	06:46 pm
36) 07250072.D 2307271-014A	DX_220112.M	99	1.000	25 Jul 2023	06:57 pm
37) 07250074.D CO	DX_220112.M	150	1.000	25 Jul 2023	07:08 pm
38) 07250076.D OIL-CCV	DX_220112.M	2	1.000	25 Jul 2023	07:19 pm
39) 07250078.D DX-CCV	DX_220112.M	1	1.000	25 Jul 2023	07:30 pm
40) 07250080.D CO	DX_220112.M	150	1.000	25 Jul 2023	07:41 pm
41) 07250082.D 2307271-016A	DX_220112.M	101	1.000	25 Jul 2023	07:52 pm
42) 07250084.D 2307302-004A	DX_220112.M	104	1.000	25 Jul 2023	08:03 pm
43) 07250086.D 2307271-007A	DX_220112.M	90	1.000	25 Jul 2023	08:14 pm
44) 07250088.D CO	DX_220112.M	150	1.000	25 Jul 2023	08:25 pm
45) 07250090.D	DX_220112.M				

2307271-008AMSD			93	1.000	25 Jul 2023	08:36	pm
46) 07250092.D	DX_220112.M						
CO		150	1.000	25 Jul 2023	08:48	pm	
47) 07250094.D	DX_220112.M						
2307271-010A		95	1.000	25 Jul 2023	08:59	pm	
48) 07250096.D	DX_220112.M						
CO		150	1.000	25 Jul 2023	09:10	pm	
49) 07250098.D	DX_220112.M						
2307271-012A		97	1.000	25 Jul 2023	09:21	pm	
50) 07250100.D	DX_220112.M						
CO		150	1.000	25 Jul 2023	09:32	pm	
51) 07250102.D	DX_220112.M						
2307310-001A		105	1.000	25 Jul 2023	09:43	pm	
52) 07250104.D	DX_220112.M						
CO		150	1.000	25 Jul 2023	09:54	pm	
53) 07250106.D	DX_220112.M						
2307271-015A		100	1.000	25 Jul 2023	10:05	pm	
54) 07250108.D	DX_220112.M						
CO		150	1.000	25 Jul 2023	10:16	pm	
55) 07250110.D	DX_220112.M						
2307271-018A		103	1.000	25 Jul 2023	10:27	pm	
56) 07250112.D	DX_220112.M						
CO		150	1.000	25 Jul 2023	10:38	pm	
57) 07250114.D	DX_220112.M						
2307271-001A		83	1.000	25 Jul 2023	10:49	pm	
58) 07250116.D	DX_220112.M						
CO		150	1.000	25 Jul 2023	11:00	pm	
59) 07250118.D	DX_220112.M						
CO		150	1.000	25 Jul 2023	11:11	pm	
60) 07250120.D	DX_220112.M						
2307271-011A		96	1.000	25 Jul 2023	11:22	pm	
61) 07250122.D	DX_220112.M						
CO		150	1.000	25 Jul 2023	11:33	pm	
62) 07250124.D	DX_220112.M						
CO		150	1.000	25 Jul 2023	11:44	pm	
63) 07250126.D	DX_220112.M						
2307271-017A		102	1.000	25 Jul 2023	11:55	pm	
64) 07250128.D	DX_220112.M						
CO		150	1.000	26 Jul 2023	12:06	am	
65) 07250130.D	DX_220112.M						
CO		150	1.000	26 Jul 2023	12:17	am	
66) 07250132.D	DX_220112.M						
CO		150	1.000	26 Jul 2023	12:28	am	
67) 07250134.D	DX_220112.M						
OIL-CCV		2	1.000	26 Jul 2023	12:39	am	
68) 07250136.D	DX_220112.M						
DX-CCV		1	1.000	26 Jul 2023	12:50	am	

69) 07250138.D
CO

DX_220112.M

150

1.000

26 Jul 2023 01:01 am



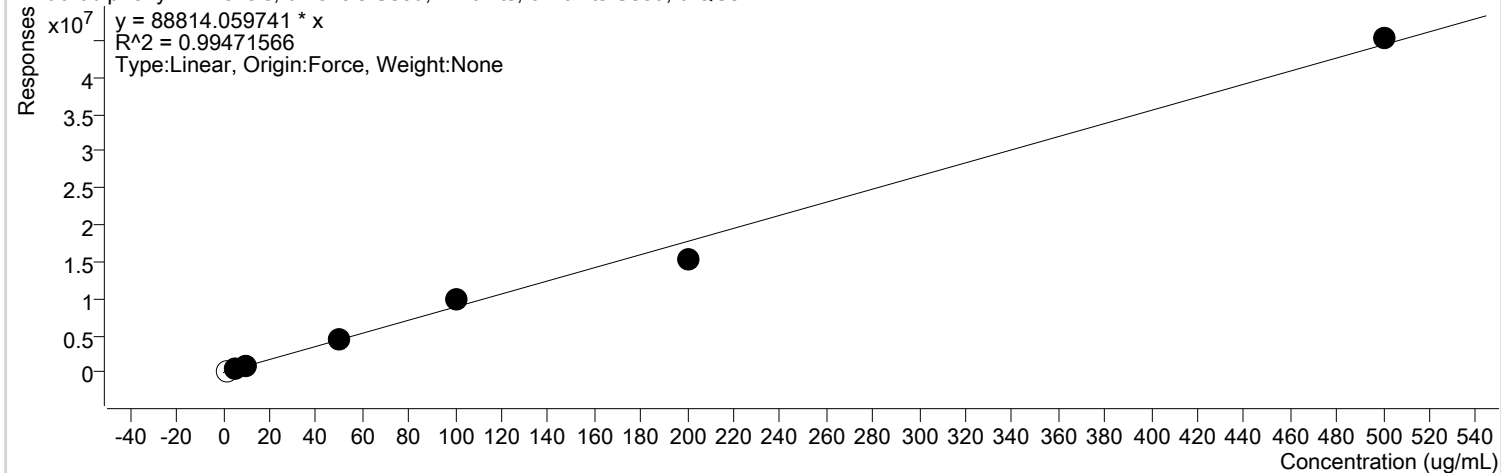
Calibration

Calibration Report

Batch Path	D:\GC-24\Data\2023\230417FRONT\QuantResults\DX HO ICAL.batch.bin		
Analysis Time	4/18/2023 9:51:41 AM	Analyst Name	FA\GC24
Report Time	4/18/2023 9:53:26 AM	Reporter Name	GC24
Last Calib Update	4/18/2023 9:01:42 AM	Batch State	Processed

2-Fluorobiphenyl

2-Fluorobiphenyl - 7 Levels, 6 Levels Used, 7 Points, 6 Points Used, 0 QCs



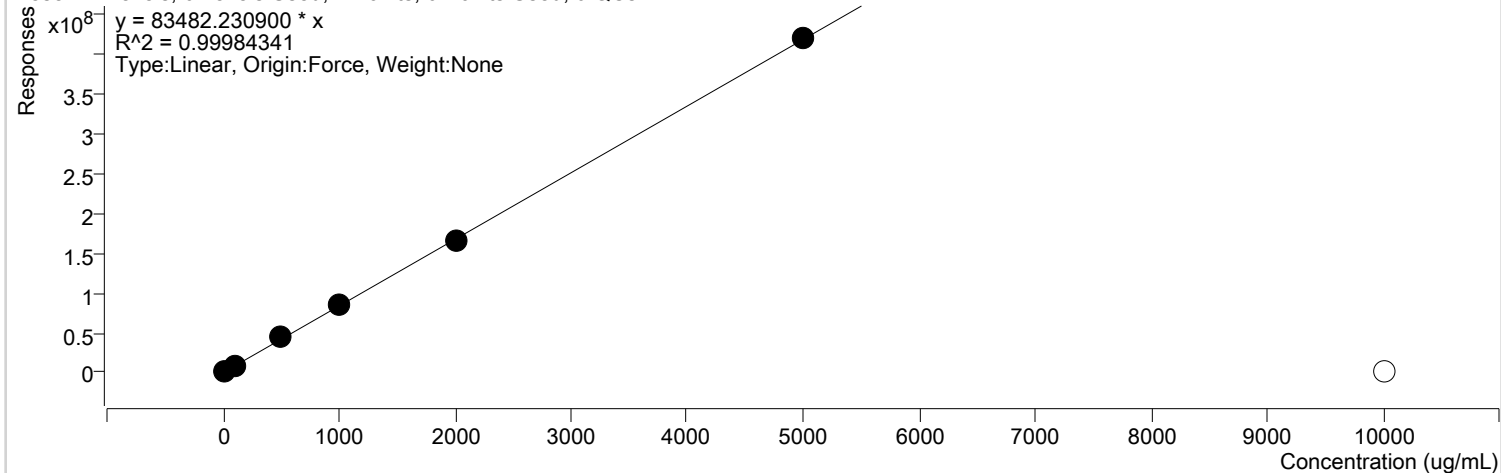
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
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D:\GC-24\Data\2023\230417FRONT\041722.D	Calibration	3	x	440940	5.0000	88188.0664
D:\GC-24\Data\2023\230417FRONT\041724.D	Calibration	4	x	939162	10.0000	93916.1643
D:\GC-24\Data\2023\230417FRONT\041726.D	Calibration	5	x	4560790	50.0000	91215.7928
D:\GC-24\Data\2023\230417FRONT\041728.D	Calibration	6	x	9892144	100.0000	98921.4413
D:\GC-24\Data\2023\230417FRONT\041730.D	Calibration	7	x	15331646	200.0000	76658.2324
D:\GC-24\Data\2023\230417FRONT\041732.D	Calibration	8	x	45164351	500.0000	90328.7013

Calibration Report

Batch Path D:\GC-24\Data\2023\230417FRONT\QuantResults\DX HO ICAL.batch.bin
Analysis Time 4/18/2023 9:51:41 AM **Analyst Name** FA\GC24
Report Time 4/18/2023 9:53:27 AM **Reporter Name** GC24
Last Calib Update 4/18/2023 9:01:42 AM **Batch State** Processed

Diesel

Diesel - 7 Levels, 6 Levels Used, 7 Points, 6 Points Used, 0 QCs



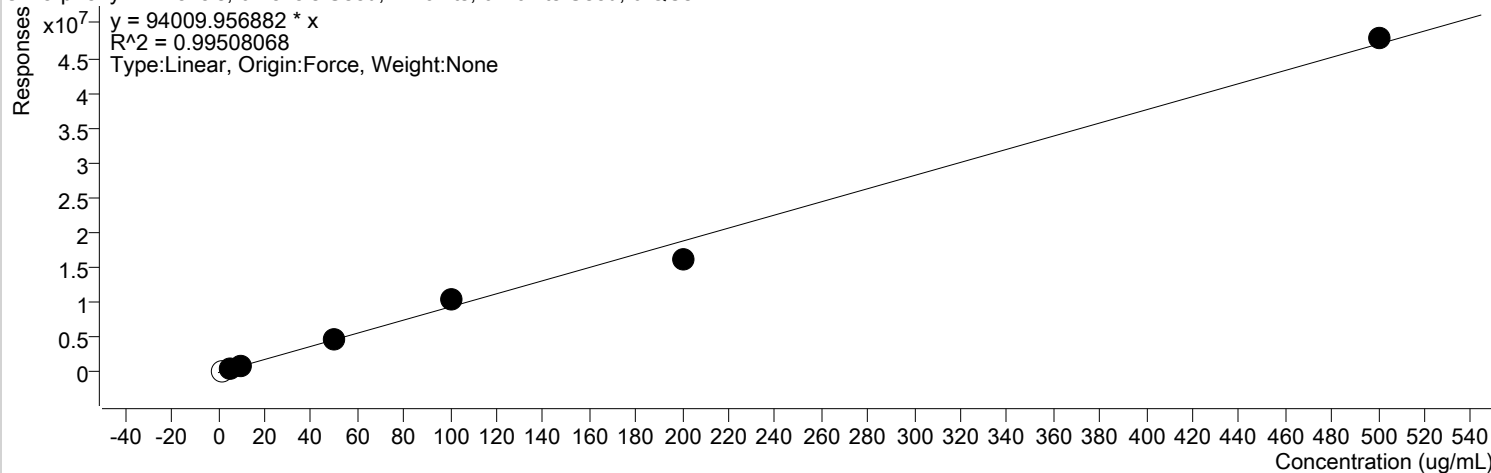
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-24\Data\2023\230417FRONT\041746.D	Calibration	2	x	1506936	20.0000	75346.7799
D:\GC-24\Data\2023\230417FRONT\041748.D	Calibration	3	x	8390360	100.0000	83903.5978
D:\GC-24\Data\2023\230417FRONT\041750.D	Calibration	4	x	44666497	500.0000	89332.9943
D:\GC-24\Data\2023\230417FRONT\041752.D	Calibration	5	x	85587098	1000.0000	85587.0980
D:\GC-24\Data\2023\230417FRONT\041754.D	Calibration	6	x	164452626	2000.0000	82226.3129
D:\GC-24\Data\2023\230417FRONT\041756.D	Calibration	7	x	417702185	5000.0000	83540.4371
D:\GC-24\Data\2023\230417FRONT\041758.D	Calibration	8		0	10000.0000	0.0000

Calibration Report

Batch Path	D:\GC-24\Data\2023\230417FRONT\QuantResults\DX HO ICAL.batch.bin		
Analysis Time	4/18/2023 9:51:41 AM	Analyst Name	FA\GC24
Report Time	4/18/2023 9:53:27 AM	Reporter Name	GC24
Last Calib Update	4/18/2023 9:01:42 AM	Batch State	Processed

O-Terphenyl

O-Terphenyl - 7 Levels, 6 Levels Used, 7 Points, 6 Points Used, 0 QCs



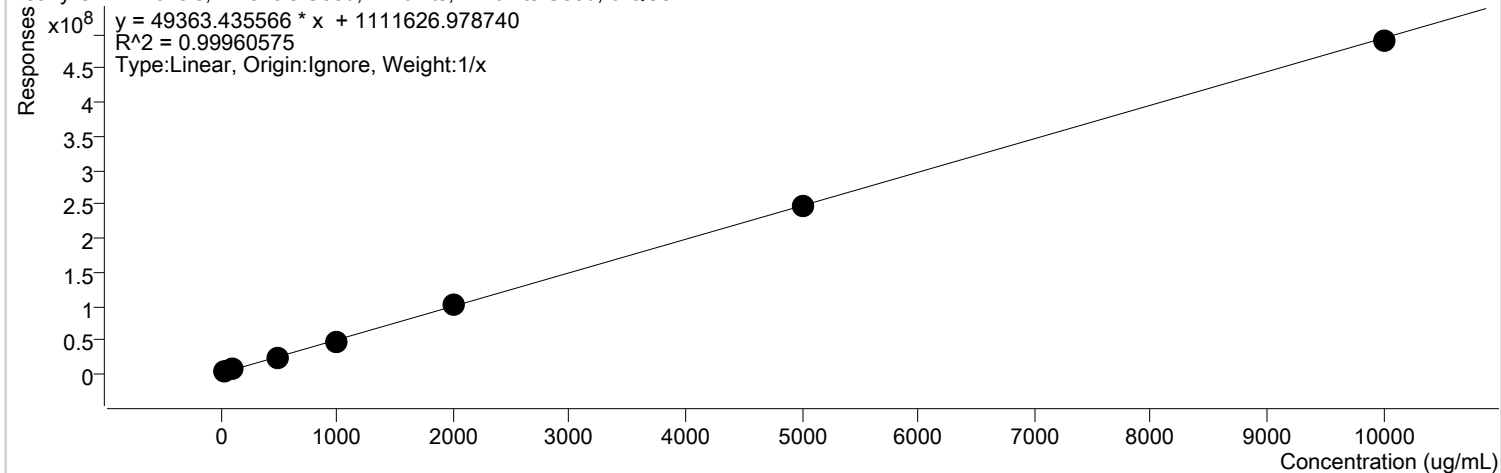
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-24\Data\2023\230417FRONT\041720.D	Calibration	2		0	2.0000	0.0000
D:\GC-24\Data\2023\230417FRONT\041722.D	Calibration	3	x	484571	5.0000	96914.1891
D:\GC-24\Data\2023\230417FRONT\041724.D	Calibration	4	x	1027304	10.0000	102730.4001
D:\GC-24\Data\2023\230417FRONT\041726.D	Calibration	5	x	4918935	50.0000	98378.6934
D:\GC-24\Data\2023\230417FRONT\041728.D	Calibration	6	x	10610388	100.0000	106103.8783
D:\GC-24\Data\2023\230417FRONT\041730.D	Calibration	7	x	16395024	200.0000	81975.1200
D:\GC-24\Data\2023\230417FRONT\041732.D	Calibration	8	x	47702154	500.0000	95404.3080

Calibration Report

Batch Path	D:\GC-24\Data\2023\230417FRONT\QuantResults\DX HO ICAL.batch.bin		
Analysis Time	4/18/2023 9:51:41 AM	Analyst Name	FA\GC24
Report Time	4/18/2023 9:53:27 AM	Reporter Name	GC24
Last Calib Update	4/18/2023 9:01:42 AM	Batch State	Processed

Heavy Oil

Heavy Oil - 7 Levels, 7 Levels Used, 7 Points, 7 Points Used, 0 QCs



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-24\Data\2023\230417FRONT\041720.D	Calibration	2	x	2038032	20.0000	101901.5995
D:\GC-24\Data\2023\230417FRONT\041722.D	Calibration	3	x	6612497	100.0000	66124.9747
D:\GC-24\Data\2023\230417FRONT\041724.D	Calibration	4	x	24662523	500.0000	49325.0470
D:\GC-24\Data\2023\230417FRONT\041726.D	Calibration	5	x	48355429	1000.0000	48355.4293
D:\GC-24\Data\2023\230417FRONT\041728.D	Calibration	6	x	103403096	2000.0000	51701.5478
D:\GC-24\Data\2023\230417FRONT\041730.D	Calibration	7	x	248715538	5000.0000	49743.1075
D:\GC-24\Data\2023\230417FRONT\041732.D	Calibration	8	x	493141444	10000.0000	49314.1444

DX Calibration

Date: 4/17/23

DX CAL: 27149

Analyst: KJ

DX ICV (SS): 26652

MeCl2: 6703

SURROGATE: 28023

Spike Conc. (ppm)	Surr Conc. (ppm)**	Spike (uL)	Surr (uL)	MeCl	Final Vol.	Comments
11 20	-	20*	-	980	1	* taken from 1000 point
12 100	-	100*	-	900	1	* taken from 1000 point
13 500	-	10	-	990	1	
14 1000	-	20	-	980	1	
15 2000	-	40	-	960	1	
16 5000	-	100	-	900	1	
17 10000	-	200	-	800	1	
18 ICB	10	-	10	990	1	
19 ICV (500)	10	10 (SS)	10	980	1	

See Heavy Oil cal template for surrogate levels if not calibrating for heavy oil simultaneously.

Signature and Date: Kelsey [Signature] 4/17/23

Heavy Oil Calibration

Date: 4/17/23

Oil CAL: 27883

Analyst: K5

Oil ICV (SS): 26589

MeCl2: 6703

SURROGATE: 28023

Spike Conc. (ppm)	Surr Conc. (ppm)	Spike (uL)	Surr (uL)	MeCl	Final Vol.	Comments
21 20	2	20*		980	1	* taken from 1000 point
22 100	5	100*		900	1	* taken from 1000 point
23 500	10	10	10	980	1	
24 1000	50	20	50	930	1	
25 2000	100	40	100	860	1	
26 5000	200	100	200	700	1	
27 10000	500	200	500	300	1	
28 ICB	10	-	10	990	1	
29 ICV (500)	10	10 (SS)	10	980	1	

Signature and Date:  4/17/23

Signature: EM

700 Building Calibration Template - HO v1.0

1 of 1

Official Approval: 11/11/2019

DATA SET for Review - Deliverable Requirements

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Fremont Analytical Work Order No. 2307302

GeoEngineers

Project Name: S Jackson Street

Project Number: 24504-001-01

This data set contains the following:

- Analytical Sequence Summary
- Calibration Information
- Tune Information
- Internal Standards Report

Data Directory: C:\GC-14\Data\2023\062723\

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) 062701.D CO	8270E_SIM_625.M	2	1.000	27 Jun 2023 07:44 am
2) 062702.D tune	8270E_SCAN_625.M	1	1.000	27 Jun 2023 08:12 am
3) 062703.D CCV-semi scan	8270E_SCAN_625.M	2	1.000	27 Jun 2023 08:40 am
4) 062704.D CCV-semi scan shor..	8270E_SCAN_625.M	2	1.000	27 Jun 2023 10:30 am
5) 062705.D SEMI 10	8270E_SCAN_625.M	42	1.000	27 Jun 2023 11:31 am
6) 062706.D SEMI 20	8270E_SCAN_625.M	43	1.000	27 Jun 2023 11:59 am
7) 062707.D SEMI 40	8270E_SCAN_625.M	44	1.000	27 Jun 2023 12:28 pm
8) 062708.D SEMI 100	8270E_SCAN_625.M	45	1.000	27 Jun 2023 12:57 pm
9) 062709.D SEMI 200	8270E_SCAN_625.M	46	1.000	27 Jun 2023 01:25 pm
10) 062710.D SEMI 500	8270E_SCAN_625.M	47	1.000	27 Jun 2023 01:54 pm
11) 062711.D SEMI 750	8270E_SCAN_625.M	48	1.000	27 Jun 2023 02:23 pm
12) 062712.D SEMI 1000	8270E_SCAN_625.M	49	1.000	27 Jun 2023 02:52 pm
13) 062713.D SEMI 2000	8270E_SCAN_625.M	50	1.000	27 Jun 2023 03:21 pm
14) 062714.D SEMI 5000	8270E_SCAN_625.M	51	1.000	27 Jun 2023 03:50 pm
15) 062715.D SEMI ICB	8270E_SCAN_625.M	52	1.000	27 Jun 2023 04:18 pm
16) 062716.D SEMI ICV	8270E_SCAN_625.M	53	1.000	27 Jun 2023 04:47 pm
17) 062717.D tune	8270E_SCAN_625.M	1	1.000	27 Jun 2023 05:15 pm
18) 062718.D PAH 10	8270E_SIM_625.M	42	1.000	27 Jun 2023 05:44 pm
19) 062719.D PAH 20	8270E_SIM_625.M	43	1.000	27 Jun 2023 06:12 pm
20) 062720.D PAH 40	8270E_SIM_625.M	44	1.000	27 Jun 2023 06:40 pm
21) 062721.D PAH 100	8270E_SIM_625.M	45	1.000	27 Jun 2023 07:08 pm

22)	062722.D	8270E_SIM_625.M	46	1.000	27 Jun 2023	07:36 pm

	23) 062723.D	8270E_SIM_625.M	47	1.000	27 Jun 2023	08:04 pm

	24) 062724.D	8270E_SIM_625.M	48	1.000	27 Jun 2023	08:32 pm

	25) 062725.D	8270E_SIM_625.M	49	1.000	27 Jun 2023	09:00 pm

	26) 062726.D	8270E_SIM_625.M	50	1.000	27 Jun 2023	09:28 pm

	27) 062727.D	8270E_SIM_625.M	51	1.000	27 Jun 2023	09:56 pm

	28) 062728.D	8270E_SIM_625.M	52	1.000	27 Jun 2023	10:24 pm

	29) 062729.D	8270E_SIM_625.M	53	1.000	27 Jun 2023	10:51 pm

	30) 062730.D	8270E_SIM_625_LOWLEVEL.M	41	1.000	27 Jun 2023	11:19 pm

	31) 062731.D	8270E_SIM_625_LOWLEVEL.M	42	1.000	27 Jun 2023	11:47 pm

	32) 062732.D	8270E_SIM_625_LOWLEVEL.M	43	1.000	28 Jun 2023	12:15 am

	33) 062733.D	8270E_SIM_625_LOWLEVEL.M	44	1.000	28 Jun 2023	12:43 am

	34) 062734.D	8270E_SIM_625_LOWLEVEL.M	45	1.000	28 Jun 2023	01:11 am

	35) 062735.D	8270E_SIM_625_LOWLEVEL.M	46	1.000	28 Jun 2023	01:38 am

	36) 062736.D	8270E_SIM_625_LOWLEVEL.M	47	1.000	28 Jun 2023	02:06 am

	37) 062737.D	8270E_SIM_625_LOWLEVEL.M	48	1.000	28 Jun 2023	02:34 am

	38) 062738.D	8270E_SIM_625_LOWLEVEL.M	49	1.000	28 Jun 2023	03:01 am

	39) 062739.D	8270E_SIM_625_LOWLEVEL.M	50	1.000	28 Jun 2023	03:29 am

	40) 062740.D	8270E_SIM_625_LOWLEVEL.M	51	1.000	28 Jun 2023	03:57 am

	41) 062741.D	8270E_SIM_625_LOWLEVEL.M	53	1.000	28 Jun 2023	04:25 am

	42) 062742.D	8270E_SIM_625_LOWLEVEL.M	52	1.000	28 Jun 2023	04:52 am

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) 072601.D CO	8270E_SIM_625.M	150	1.000	26 Jul 2023 11:00 am
2) 072602.D CCV-	8270E_SIM_625.M	2	1.000	26 Jul 2023 11:28 am
3) 072603.D CO	8270E_SIM_625.M	150	1.000	26 Jul 2023 01:20 pm
4) 072604.D TUNE	8270E_SCAN_625.M	1	1.000	26 Jul 2023 01:48 pm
5) 072605.D PAH ICAL 10	8270E_SIM_625.M	72	1.000	26 Jul 2023 02:17 pm
6) 072606.D PAH ICAL 20	8270E_SIM_625.M	73	1.000	26 Jul 2023 02:45 pm
7) 072607.D PAH ICAL 40	8270E_SIM_625.M	74	1.000	26 Jul 2023 03:13 pm
8) 072608.D CO	8270E_SIM_625.M	83	1.000	26 Jul 2023 03:41 pm
9) 072609.D CO	8270E_SIM_625.M	79	1.000	26 Jul 2023 04:10 pm
10) 072610.D PAH ICAL 10	8270E_SIM_625.M	72	1.000	26 Jul 2023 04:38 pm
11) 072611.D PAH ICAL 20	8270E_SIM_625.M	73	1.000	26 Jul 2023 05:06 pm
12) 072612.D PAH ICAL 40	8270E_SIM_625.M	74	1.000	26 Jul 2023 05:35 pm
13) 072613.D PAH ICAL 100	8270E_SIM_625.M	75	1.000	26 Jul 2023 06:03 pm
14) 072614.D PAH ICAL 200	8270E_SIM_625.M	76	1.000	26 Jul 2023 06:32 pm
15) 072615.D PAH ICAL 500	8270E_SIM_625.M	77	1.000	26 Jul 2023 07:01 pm
16) 072616.D PAH ICAL 750	8270E_SIM_625.M	78	1.000	26 Jul 2023 07:29 pm
17) 072617.D PAH ICAL 1000	8270E_SIM_625.M	79	1.000	26 Jul 2023 07:58 pm
18) 072618.D PAH ICAL 2000	8270E_SIM_625.M	80	1.000	26 Jul 2023 08:26 pm
19) 072619.D PAH ICAL 5000	8270E_SIM_625.M	81	1.000	26 Jul 2023 08:55 pm
20) 072620.D CO	8270E_SIM_625.M	150	1.000	26 Jul 2023 09:23 pm
21) 072621.D PAH ICV	8270E_SIM_625.M	83	1.000	26 Jul 2023 09:51 pm
22) 072622.D PAH ICB	8270E_SIM_625.M	82	1.000	26 Jul 2023 10:20 pm
23) 072623.D TUNE	8270E_SCAN_625.M	1	1.000	26 Jul 2023 10:48 pm
24) 072624.D CO	8270E_SIM_625_LOWLEVEL.M	150	1.000	26 Jul 2023 11:17 pm
25) 072625.D PAH LL ICAL 2	8270E_SIM_625_LOWLEVEL.M	71	1.000	26 Jul 2023 11:45 pm
26) 072626.D PAH LL ICAL 10	8270E_SIM_625_LOWLEVEL.M	72	1.000	27 Jul 2023 12:14 am
27) 072627.D PAH LL ICAL 20	8270E_SIM_625_LOWLEVEL.M	73	1.000	27 Jul 2023 12:42 am

88) 072628.D	8270E_SIM_625_LOWLEVEL.M	74	1.000	27 Jul 2023	01:10	am
PAH LL ICAL 40						
29) 072629.D	8270E_SIM_625_LOWLEVEL.M	75	1.000	27 Jul 2023	01:38	am
PAH LL ICAL 100						
30) 072630.D	8270E_SIM_625_LOWLEVEL.M	76	1.000	27 Jul 2023	02:06	am
PAH LL ICAL 200						
31) 072631.D	8270E_SIM_625_LOWLEVEL.M	77	1.000	27 Jul 2023	02:34	am
PAH LL ICAL 500						
32) 072632.D	8270E_SIM_625_LOWLEVEL.M	78	1.000	27 Jul 2023	03:03	am
PAH LL ICAL 750						
33) 072633.D	8270E_SIM_625_LOWLEVEL.M	79	1.000	27 Jul 2023	03:31	am
PAH LL ICAL 1000						
34) 072634.D	8270E_SIM_625_LOWLEVEL.M	80	1.000	27 Jul 2023	03:59	am
PAH LL ICAL 2000						
35) 072635.D	8270E_SIM_625_LOWLEVEL.M	81	1.000	27 Jul 2023	04:27	am
PAH LL ICAL 5000						
36) 072636.D	8270E_SIM_625_LOWLEVEL.M	150	1.000	27 Jul 2023	04:55	am
CO						
37) 072637.D	8270E_SIM_625_LOWLEVEL.M	83	1.000	27 Jul 2023	05:23	am
PAH LL ICV						
38) 072638.D	8270E_SIM_625_LOWLEVEL.M	82	1.000	27 Jul 2023	05:51	am
PAH LL ICB						
39) 072639.D	8270E_SIM_625.M	150	1.000	27 Jul 2023	06:19	am
CO						
40) 072640.D	8270E_SCAN_625.M	1	1.000	27 Jul 2023	06:47	am
TUNE						
41) 072641.D	8270E_SIM_625.M	79	1.000	27 Jul 2023	07:16	am
CCV						
42) 072642.D	8270E_SIM_625.M	3	1.000	27 Jul 2023	07:44	am
MB-40988						
43) 072643.D	8270E_SIM_625.M	4	1.000	27 Jul 2023	08:12	am
LCS-40988						
44) 072644.D	8270E_SIM_625.M	5	1.000	27 Jul 2023	08:40	am
2307271-001A						
45) 072645.D	8270E_SIM_625.M	30	1.000	27 Jul 2023	09:09	am
2307244-001A 1000X						
46) 072646.D	8270E_SIM_625.M	31	1.000	27 Jul 2023	09:37	am
2307244-001A 100X						
47) 072647.D	8270E_SIM_625.M	25	1.000	27 Jul 2023	10:05	am
2307302-002A						
48) 072648.D	8270E_SIM_625.M	27	1.000	27 Jul 2023	10:34	am
2307244-002A						
49) 072649.D	8270E_SIM_625.M	28	1.000	27 Jul 2023	12:28	pm
2307244-003A						
50) 072650.D	8270E_SIM_625.M	29	1.000	27 Jul 2023	12:56	pm
2307244-004A						
51) 072651.D	8270E_SIM_625.M	26	1.000	27 Jul 2023	01:24	pm
2307244-001A						
52) 072652.D	8270E_SIM_625.M	150	1.000	27 Jul 2023	01:52	pm
CO						
53) 072653.D	8270E_SIM_625.M	6	1.000	27 Jul 2023	02:20	pm
2307271-002A						
54) 072654.D	8270E_SIM_625.M	7	1.000	27 Jul 2023	02:48	pm
2307271-002AMS						
55) 072655.D	8270E_SIM_625.M	8	1.000	27 Jul 2023	03:16	pm
2307271-002AMSD						
56) 072656.D	8270E_SIM_625.M	150	1.000	27 Jul 2023	04:12	pm
CO						
57) 072657.D	8270E_SCAN_625.M					

TUNE		1	1.000	27 Jul 2023	04:40	pm
58) 072658.D	8270E_SIM_625.M					
CCV		2	1.000	27 Jul 2023	05:09	pm
59) 072659.D	8270E_SIM_625.M					
2307271-003A		9	1.000	27 Jul 2023	05:37	pm
60) 072660.D	8270E_SIM_625.M					
2307271-004A		10	1.000	27 Jul 2023	06:06	pm
61) 072661.D	8270E_SIM_625.M					
2307271-005A		11	1.000	27 Jul 2023	06:34	pm
62) 072662.D	8270E_SIM_625.M					
2307271-006A		12	1.000	27 Jul 2023	07:03	pm
63) 072663.D	8270E_SIM_625.M					
2307271-007A		13	1.000	27 Jul 2023	07:31	pm
64) 072664.D	8270E_SIM_625.M					
2307271-008A		14	1.000	27 Jul 2023	08:00	pm
65) 072665.D	8270E_SIM_625.M					
2307271-009A		15	1.000	27 Jul 2023	08:28	pm
66) 072666.D	8270E_SIM_625.M					
2307271-010A		16	1.000	27 Jul 2023	08:56	pm
67) 072667.D	8270E_SIM_625.M					
2307271-011A		17	1.000	27 Jul 2023	09:25	pm
68) 072668.D	8270E_SIM_625.M					
2307271-012A		18	1.000	27 Jul 2023	09:53	pm
69) 072669.D	8270E_SIM_625.M					
2307271-013A		19	1.000	27 Jul 2023	10:21	pm
70) 072670.D	8270E_SIM_625.M					
2307271-014A		20	1.000	27 Jul 2023	10:49	pm
71) 072671.D	8270E_SIM_625.M					
2307271-015A		21	1.000	27 Jul 2023	11:17	pm
72) 072672.D	8270E_SIM_625.M					
2307271-016A		22	1.000	27 Jul 2023	11:45	pm
73) 072673.D	8270E_SIM_625.M					
2307271-017A		23	1.000	28 Jul 2023	12:14	am
74) 072674.D	8270E_SIM_625.M					
2307271-018A		24	1.000	28 Jul 2023	12:42	am
75) 072675.D	8270E_SIM_625.M					
CO		150	1.000	28 Jul 2023	01:10	am
76) 072676.D	8270E_SCAN_625.M					
TUNE		1	1.000	28 Jul 2023	01:38	am
77) 072677.D	8270E_SIM_625.M					
CCV-QCS-		2	1.000	28 Jul 2023	02:07	am
78) 072678.D	8270E_SIM_625.M					
MB-41015		63	1.000	28 Jul 2023	02:35	am
79) 072679.D	8270E_SIM_625.M					
LCS-41015		64	1.000	28 Jul 2023	03:03	am
80) 072680.D	8270E_SIM_625.M					
2307319-001A		65	1.000	28 Jul 2023	03:31	am
81) 072681.D	8270E_SIM_625.M					
2307319-001AMS		66	1.000	28 Jul 2023	03:59	am
82) 072682.D	8270E_SIM_625.M					
2307319-001AMSD		67	1.000	28 Jul 2023	04:27	am
83) 072683.D	8270E_SIM_625.M					
2307319-002A		68	1.000	28 Jul 2023	04:55	am
84) 072684.D	8270E_SIM_625.M					
2307319-003A		69	1.000	28 Jul 2023	05:23	am
85) 072685.D	8270E_SIM_625.M					
2307340-001A		70	1.000	28 Jul 2023	05:51	am
86) 072686.D	8270E_SIM_625.M					
MB-40996		71	1.000	28 Jul 2023	06:19	am

87) 072687.D LCS-40996	8270E_SIM_625.M	72	1.000	28 Jul 2023	06:46 am
88) 072688.D 2307278-001A	8270E_SIM_625.M	73	1.000	28 Jul 2023	07:14 am
89) 072689.D 2307302-001A	8270E_SIM_625.M	82	1.000	28 Jul 2023	07:42 am
90) 072690.D 2307302-004A	8270E_SIM_625.M	83	1.000	28 Jul 2023	08:10 am
91) 072691.D 2307302-005A	8270E_SIM_625.M	84	1.000	28 Jul 2023	08:38 am
92) 072692.D CO	8270E_SIM_625.M	150	1.000	28 Jul 2023	09:16 am
93) 072693.D TUNE	8270E_SCAN_625.M	1	1.000	28 Jul 2023	09:44 am
94) 072694.D CCV-QCS-	8270E_SIM_625.M	2	1.000	28 Jul 2023	10:13 am
95) 072695.D MB-40996	8270E_SIM_625.M	71	1.000	28 Jul 2023	10:41 am
96) 072696.D LCS-40996	8270E_SIM_625.M	72	1.000	28 Jul 2023	11:09 am
97) 072697.D 2307302-004A	8270E_SIM_625.M	83	1.000	28 Jul 2023	11:37 am
98) 072698.D MB-41015	8270E_SIM_625.M	63	1.000	28 Jul 2023	12:05 pm
99) 072699.D LCS-41015	8270E_SIM_625.M	64	1.000	28 Jul 2023	12:33 pm
100) 0726100.D 2307340-001A	8270E_SIM_625.M	70	1.000	28 Jul 2023	01:01 pm
101) 0726101.D 2307319-001A	8270E_SIM_625.M	65	1.000	28 Jul 2023	01:29 pm
102) 0726102.D 2307319-001AMS	8270E_SIM_625.M	66	1.000	28 Jul 2023	01:57 pm
103) 0726103.D 2307278-006A	8270E_SIM_625.M	74	1.000	28 Jul 2023	02:26 pm
104) 0726104.D 2307278-006AMS	8270E_SIM_625.M	75	1.000	28 Jul 2023	02:54 pm
105) 0726105.D 2307278-006AMSD	8270E_SIM_625.M	76	1.000	28 Jul 2023	03:22 pm
106) 0726106.D 2307319-001AMSD	8270E_SIM_625.M	67	1.000	28 Jul 2023	03:51 pm
107) 0726107.D CO	8270E_SIM_625.M	150	1.000	28 Jul 2023	04:23 pm
108) 0726108.D TUNE	8270E_SCAN_625.M	1	1.000	28 Jul 2023	04:52 pm
109) 0726109.D CCV-QCS-	8270E_SIM_625.M	2	1.000	28 Jul 2023	05:21 pm
110) 0726110.D 2307319-002A	8270E_SIM_625.M	68	1.000	28 Jul 2023	05:49 pm
111) 0726111.D 2307319-003A	8270E_SIM_625.M	69	1.000	28 Jul 2023	06:18 pm
112) 0726112.D 2307278-001A	8270E_SIM_625.M	73	1.000	28 Jul 2023	06:47 pm
113) 0726113.D 2307278-008A	8270E_SIM_625.M	77	1.000	28 Jul 2023	07:15 pm
114) 0726114.D 2307278-009A	8270E_SIM_625.M	78	1.000	28 Jul 2023	07:44 pm
115) 0726115.D 2307278-010A	8270E_SIM_625.M	79	1.000	28 Jul 2023	08:12 pm

116) 0726116.D 2307278-011A	8270E_SIM_625.M	80	1.000	28 Jul 2023	08:41 pm
117) 0726117.D 2307278-012A	8270E_SIM_625.M	81	1.000	28 Jul 2023	09:09 pm
118) 0726118.D CO	8270E_SIM_625.M	150	1.000	28 Jul 2023	09:38 pm
119) 0726119.D MB-41018	8270E_SIM_625.M	91	1.000	28 Jul 2023	10:06 pm
120) 0726120.D LCS-41018	8270E_SIM_625.M	92	1.000	28 Jul 2023	10:35 pm
121) 0726121.D 2307285-001B	8270E_SIM_625.M	93	1.000	28 Jul 2023	11:03 pm
122) 0726122.D 2307295-001C	8270E_SIM_625.M	94	1.000	28 Jul 2023	11:32 pm
123) 0726123.D 2307303-001B	8270E_SIM_625.M	95	1.000	29 Jul 2023	12:00 am
124) 0726124.D 2307342-001D	8270E_SIM_625.M	96	1.000	29 Jul 2023	12:28 am
125) 0726125.D 2307342-001DDUP	8270E_SIM_625.M	97	1.000	29 Jul 2023	12:56 am
126) 0726126.D 2307343-001C	8270E_SIM_625.M	98	1.000	29 Jul 2023	01:25 am
127) 0726127.D 2307343-002C	8270E_SIM_625.M	99	1.000	29 Jul 2023	01:53 am
128) 0726128.D 2307344-001C	8270E_SIM_625.M	100	1.000	29 Jul 2023	02:21 am
129) 0726129.D CO	8270E_SIM_625.M	150	1.000	29 Jul 2023	02:49 am
130) 0726130.D TUNE	8270E_SCAN_625.M	1	1.000	29 Jul 2023	03:17 am
131) 0726131.D CCV-QCS-	8270E_SIM_625.M	2	1.000	29 Jul 2023	03:46 am
132) 0726132.D 2307374-001A	8270E_SIM_625.M	106	1.000	29 Jul 2023	04:14 am
133) 0726133.D 2307360-001A	8270E_SIM_625.M	101	1.000	29 Jul 2023	04:42 am
134) 0726134.D 2307361-001A	8270E_SIM_625.M	102	1.000	29 Jul 2023	05:10 am
135) 0726135.D 2307362-001A	8270E_SIM_625.M	103	1.000	29 Jul 2023	05:38 am
136) 0726136.D 2307364-001A	8270E_SIM_625.M	104	1.000	29 Jul 2023	06:06 am
137) 0726137.D 2307365-001A	8270E_SIM_625.M	105	1.000	29 Jul 2023	06:35 am
138) 0726138.D CO	8270E_SIM_625.M	150	1.000	29 Jul 2023	07:03 am
139) 0726139.D CCV-QCS-	8270E_SIM_625.M	2	1.000	29 Jul 2023	07:31 am



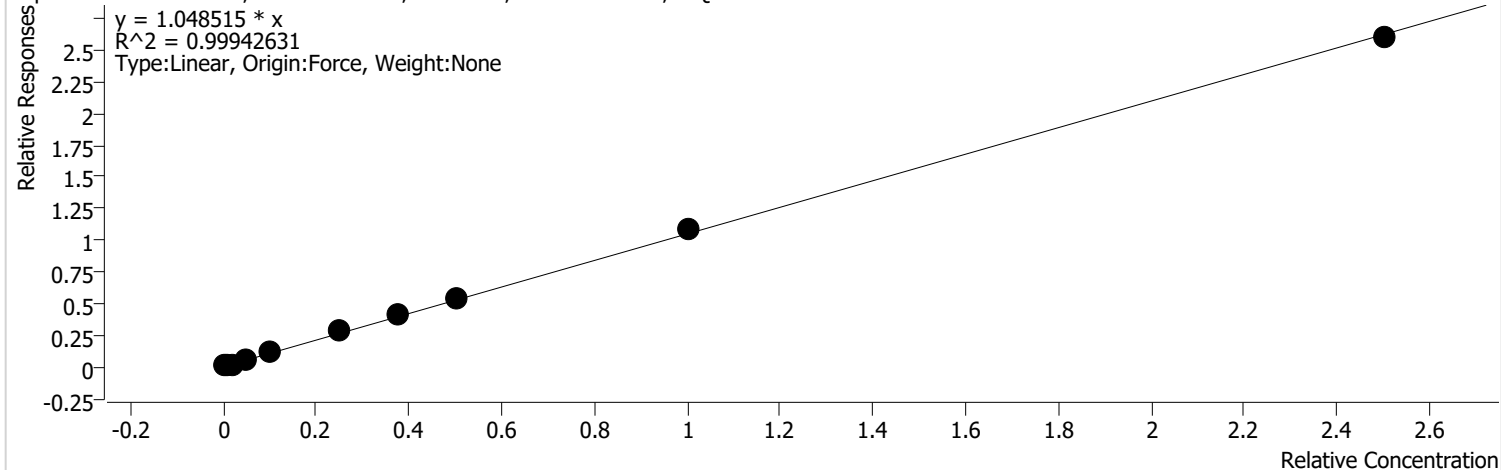
Calibration

Calibration Report

Batch Path	C:\GC-14\Data\2023\062723\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	6/29/2023 12:01 PM	Reporter Name	FA\GC14
Report Time	6/29/2023 12:03:27 PM	Batch State	Processed
Last Calib Update	6/29/2023 12:00 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

Naphthalene %RSE = 5.6

Naphthalene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



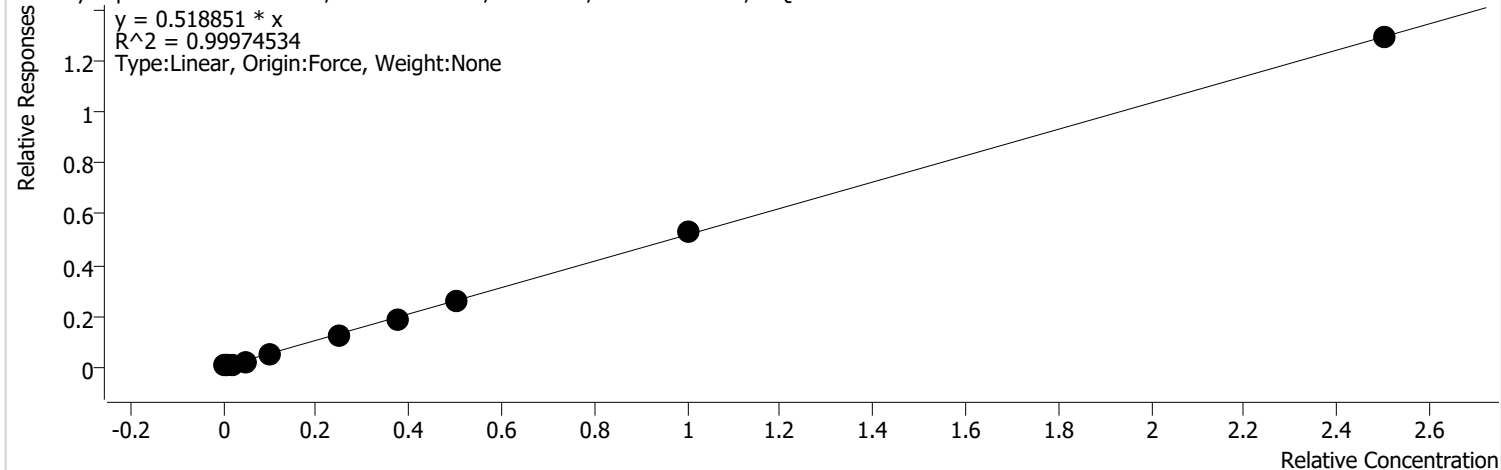
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C:\GC-14\Data\2023\062723\062720.D	Calibration	3	x	15116	40.0000	1.1281	
C:\GC-14\Data\2023\062723\062721.D	Calibration	4	x	38734	100.0000	1.1169	
C:\GC-14\Data\2023\062723\062722.D	Calibration	5	x	79057	200.0000	1.1008	
C:\GC-14\Data\2023\062723\062723.D	Calibration	6	x	191632	500.0000	1.1209	
C:\GC-14\Data\2023\062723\062724.D	Calibration	7	x	278877	750.0000	1.0772	
C:\GC-14\Data\2023\062723\062725.D	Calibration	8	x	381821	1000.0000	1.0905	
C:\GC-14\Data\2023\062723\062726.D	Calibration	9	x	742119	2000.0000	1.0911	
C:\GC-14\Data\2023\062723\062727.D	Calibration	10	x	1797347	5000.0000	1.0385	

Calibration Report

Batch Path	C:\GC-14\Data\2023\062723\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	6/29/2023 12:01 PM	Reporter Name	FA\GC14
Report Time	6/29/2023 12:03:28 PM	Batch State	Processed
Last Calib Update	6/29/2023 12:00 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

2-Methylnaphthalene %RSE = 15.7

2-Methylnaphthalene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs

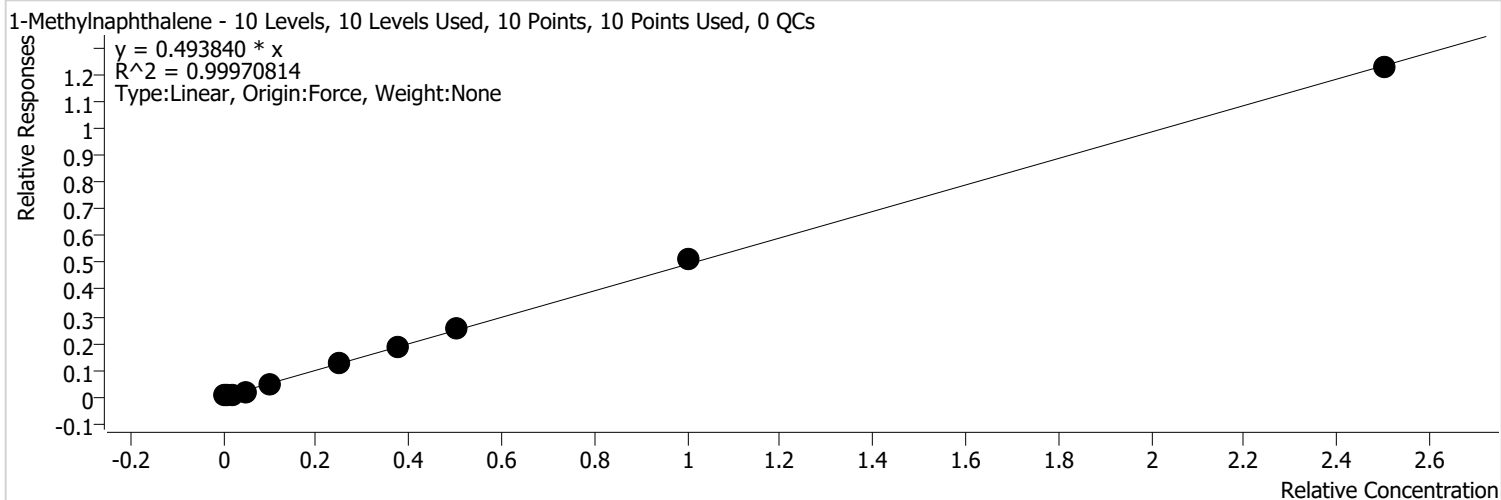


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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C:\GC-14\Data\2023\062723\062721.D	Calibration	4	x	15365	100.0000	0.4431	
C:\GC-14\Data\2023\062723\062722.D	Calibration	5	x	32870	200.0000	0.4577	
C:\GC-14\Data\2023\062723\062723.D	Calibration	6	x	85339	500.0000	0.4992	
C:\GC-14\Data\2023\062723\062724.D	Calibration	7	x	128676	750.0000	0.4970	
C:\GC-14\Data\2023\062723\062725.D	Calibration	8	x	180736	1000.0000	0.5162	
C:\GC-14\Data\2023\062723\062726.D	Calibration	9	x	362756	2000.0000	0.5334	
C:\GC-14\Data\2023\062723\062727.D	Calibration	10	x	895550	5000.0000	0.5175	

Calibration Report

Batch Path	C:\GC-14\Data\2023\062723\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	6/29/2023 12:01 PM	Reporter Name	FA\GC14
Report Time	6/29/2023 12:03:28 PM	Batch State	Processed
Last Calib Update	6/29/2023 12:00 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

1-Methylnaphthalene %RSE = 14.2

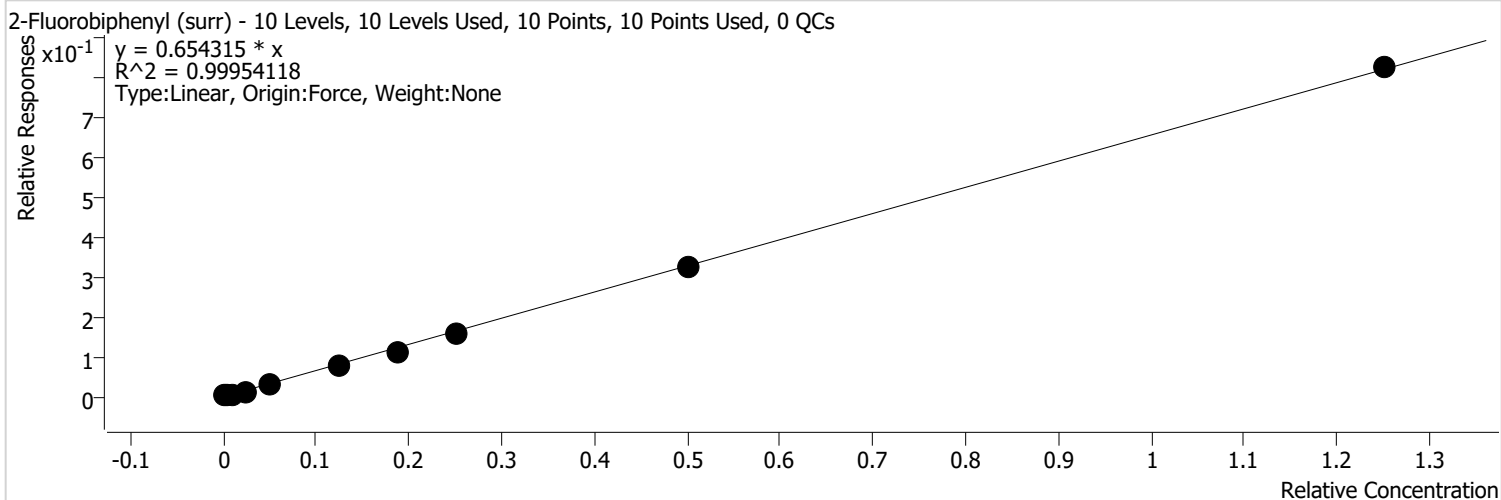


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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C:\GC-14\Data\2023\062723\062720.D	Calibration	3	x	5556	40.0000	0.4146	
C:\GC-14\Data\2023\062723\062721.D	Calibration	4	x	14818	100.0000	0.4273	
C:\GC-14\Data\2023\062723\062722.D	Calibration	5	x	32035	200.0000	0.4461	
C:\GC-14\Data\2023\062723\062723.D	Calibration	6	x	85947	500.0000	0.5027	
C:\GC-14\Data\2023\062723\062724.D	Calibration	7	x	127562	750.0000	0.4927	
C:\GC-14\Data\2023\062723\062725.D	Calibration	8	x	176335	1000.0000	0.5036	
C:\GC-14\Data\2023\062723\062726.D	Calibration	9	x	346913	2000.0000	0.5101	
C:\GC-14\Data\2023\062723\062727.D	Calibration	10	x	849582	5000.0000	0.4909	

Calibration Report

Batch Path	C:\GC-14\Data\2023\062723\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	6/29/2023 12:01 PM	Reporter Name	FA\GC14
Report Time	6/29/2023 12:03:28 PM	Batch State	Processed
Last Calib Update	6/29/2023 12:00 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

2-Fluorobiphenyl (surr) %RSE =



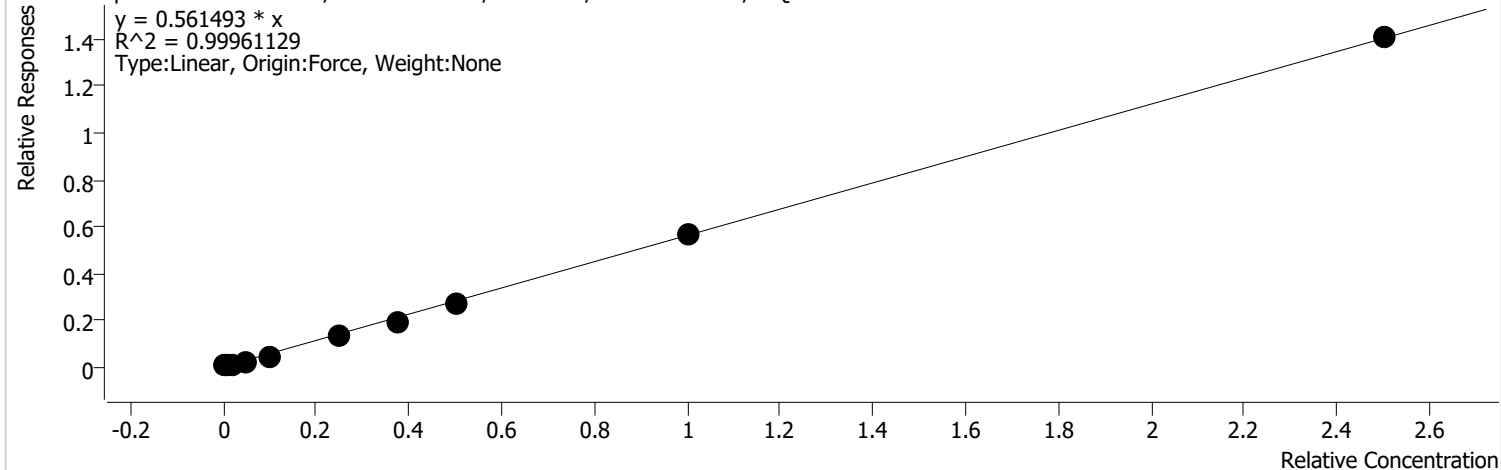
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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C:\GC-14\Data\2023\062723\062720.D	Calibration	3	x	3545	20.0000	0.5291	
C:\GC-14\Data\2023\062723\062721.D	Calibration	4	x	9395	50.0000	0.5418	
C:\GC-14\Data\2023\062723\062722.D	Calibration	5	x	20086	100.0000	0.5594	
C:\GC-14\Data\2023\062723\062723.D	Calibration	6	x	51553	250.0000	0.6031	
C:\GC-14\Data\2023\062723\062724.D	Calibration	7	x	77646	375.0000	0.5998	
C:\GC-14\Data\2023\062723\062725.D	Calibration	8	x	108574	500.0000	0.6202	
C:\GC-14\Data\2023\062723\062726.D	Calibration	9	x	222189	1000.0000	0.6534	
C:\GC-14\Data\2023\062723\062727.D	Calibration	10	x	569196	2500.0000	0.6578	

Calibration Report

Batch Path	C:\GC-14\Data\2023\062723\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	6/29/2023 12:01 PM	Reporter Name	FA\GC14
Report Time	6/29/2023 12:03:28 PM	Batch State	Processed
Last Calib Update	6/29/2023 12:00 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

2-Chloronaphthalene %RSE = 18.4

2-Chloronaphthalene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



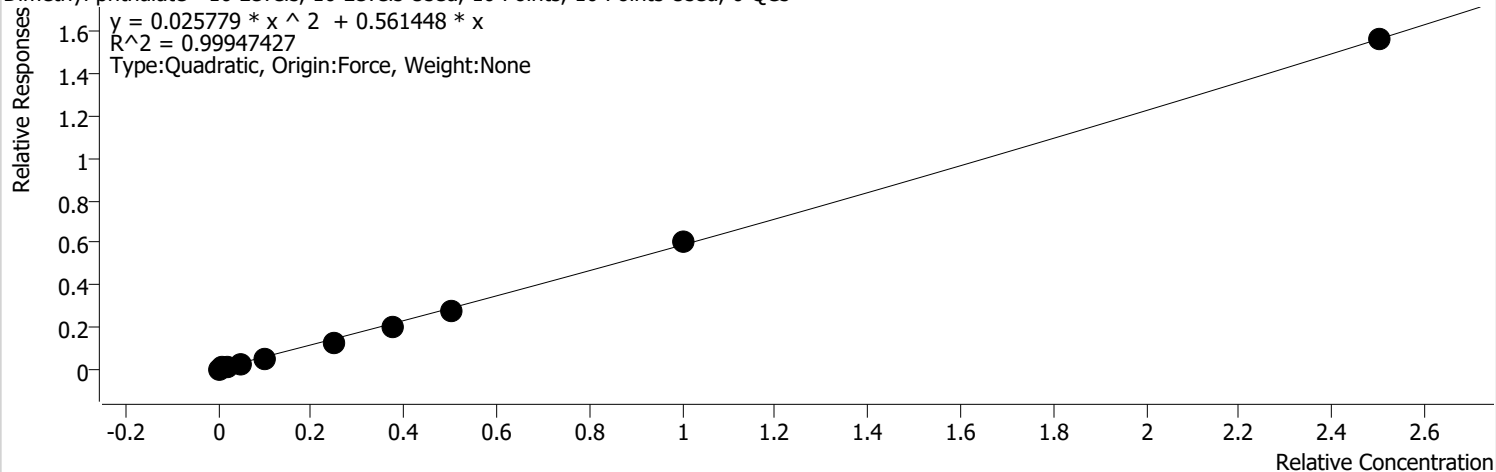
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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C:\GC-14\Data\2023\062723\062720.D	Calibration	3	x	5963	40.0000	0.4450	
C:\GC-14\Data\2023\062723\062721.D	Calibration	4	x	15754	100.0000	0.4543	
C:\GC-14\Data\2023\062723\062722.D	Calibration	5	x	33926	200.0000	0.4724	
C:\GC-14\Data\2023\062723\062723.D	Calibration	6	x	88388	500.0000	0.5170	
C:\GC-14\Data\2023\062723\062724.D	Calibration	7	x	134155	750.0000	0.5182	
C:\GC-14\Data\2023\062723\062725.D	Calibration	8	x	189895	1000.0000	0.5424	
C:\GC-14\Data\2023\062723\062726.D	Calibration	9	x	387559	2000.0000	0.5698	
C:\GC-14\Data\2023\062723\062727.D	Calibration	10	x	973567	5000.0000	0.5625	

Calibration Report

Batch Path	C:\GC-14\Data\2023\062723\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	6/29/2023 12:01 PM	Reporter Name	FA\GC14
Report Time	6/29/2023 12:03:28 PM	Batch State	Processed
Last Calib Update	6/29/2023 12:00 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

Dimethyl phthalate %RSE = 21.8

Dimethyl phthalate - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



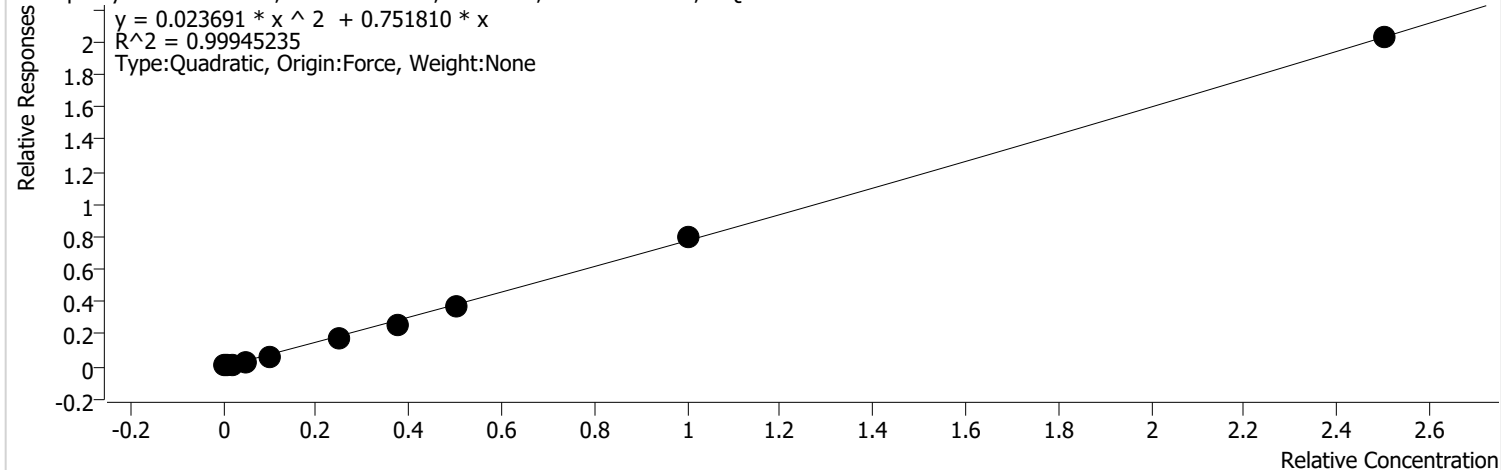
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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C:\GC-14\Data\2023\062723\062720.D	Calibration	3	x	5595	40.0000	0.4176	
C:\GC-14\Data\2023\062723\062721.D	Calibration	4	x	14692	100.0000	0.4236	
C:\GC-14\Data\2023\062723\062722.D	Calibration	5	x	33627	200.0000	0.4682	
C:\GC-14\Data\2023\062723\062723.D	Calibration	6	x	87817	500.0000	0.5136	
C:\GC-14\Data\2023\062723\062724.D	Calibration	7	x	136619	750.0000	0.5277	
C:\GC-14\Data\2023\062723\062725.D	Calibration	8	x	195567	1000.0000	0.5586	
C:\GC-14\Data\2023\062723\062726.D	Calibration	9	x	413833	2000.0000	0.6084	
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Calibration Report

Batch Path	C:\GC-14\Data\2023\062723\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	6/29/2023 12:01 PM	Reporter Name	FA\GC14
Report Time	6/29/2023 12:03:28 PM	Batch State	Processed
Last Calib Update	6/29/2023 12:00 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

Acenaphthylene %RSE = 21.1

Acenaphthylene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs

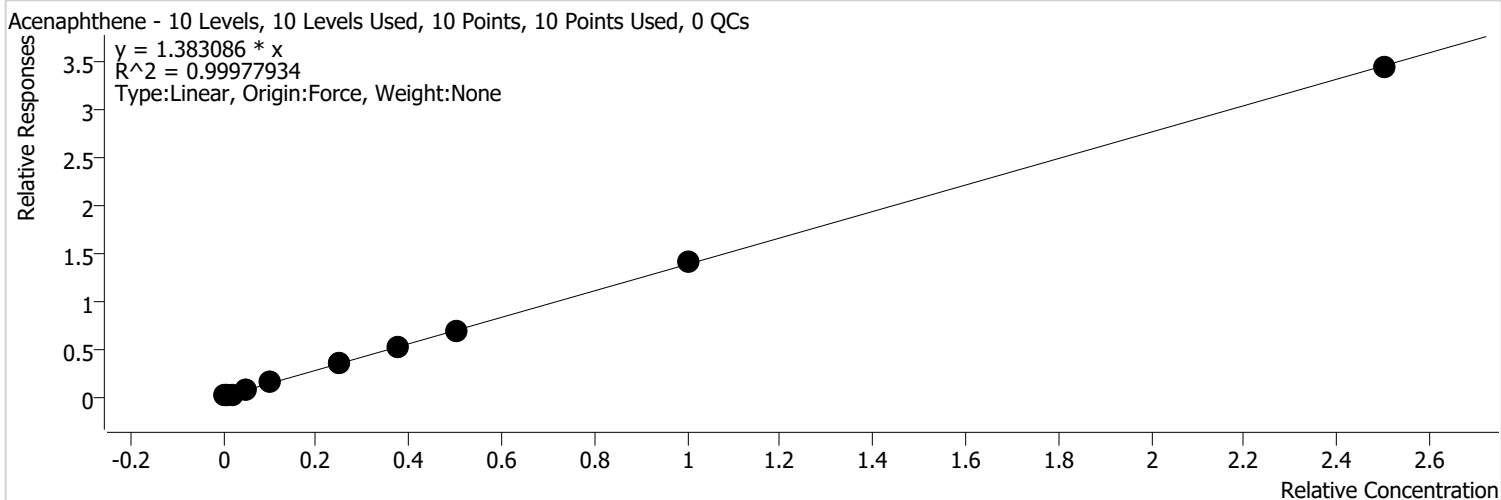


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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C:\GC-14\Data\2023\062723\062721.D	Calibration	4	x	20162	100.0000	0.5814	
C:\GC-14\Data\2023\062723\062722.D	Calibration	5	x	44005	200.0000	0.6127	
C:\GC-14\Data\2023\062723\062723.D	Calibration	6	x	117930	500.0000	0.6898	
C:\GC-14\Data\2023\062723\062724.D	Calibration	7	x	181349	750.0000	0.7005	
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Calibration Report

Batch Path	C:\GC-14\Data\2023\062723\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	6/29/2023 12:01 PM	Reporter Name	FA\GC14
Report Time	6/29/2023 12:03:28 PM	Batch State	Processed
Last Calib Update	6/29/2023 12:00 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

Acenaphthene %RSE = 3.7



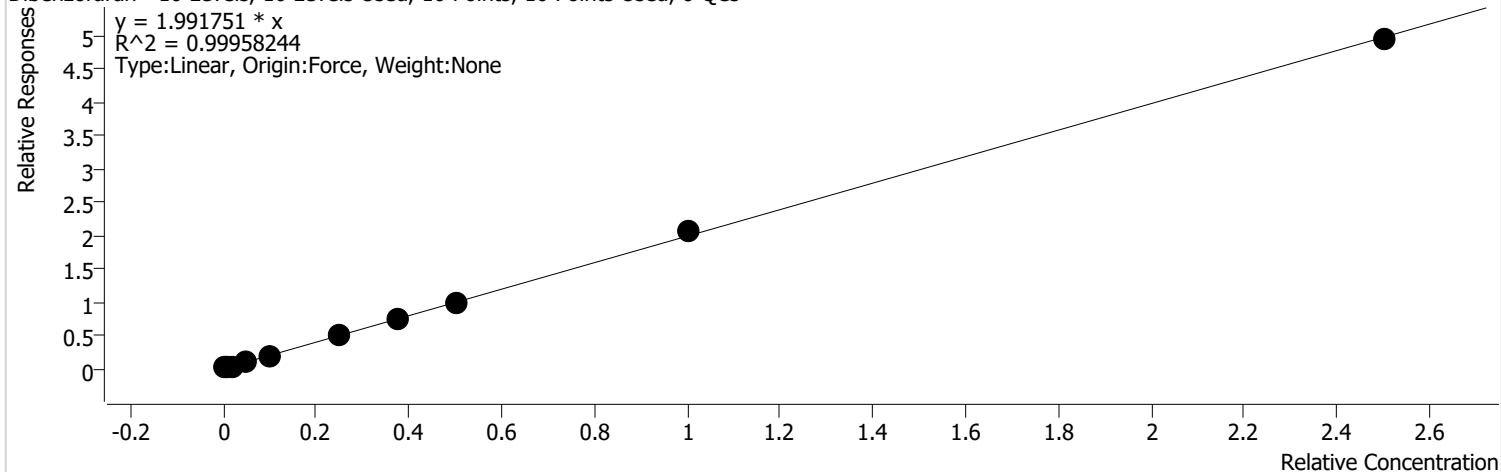
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C:\GC-14\Data\2023\062723\062722.D	Calibration	5	x	35009	200.0000	1.4411	
C:\GC-14\Data\2023\062723\062723.D	Calibration	6	x	88806	500.0000	1.4582	
C:\GC-14\Data\2023\062723\062724.D	Calibration	7	x	135038	750.0000	1.4108	
C:\GC-14\Data\2023\062723\062725.D	Calibration	8	x	184822	1000.0000	1.3952	
C:\GC-14\Data\2023\062723\062726.D	Calibration	9	x	370515	2000.0000	1.4197	
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Calibration Report

Batch Path	C:\GC-14\Data\2023\062723\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	6/29/2023 12:01 PM	Reporter Name	FA\GC14
Report Time	6/29/2023 12:03:28 PM	Batch State	Processed
Last Calib Update	6/29/2023 12:00 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

Dibenzofuran %RSE = 5.3

Dibenzofuran - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs

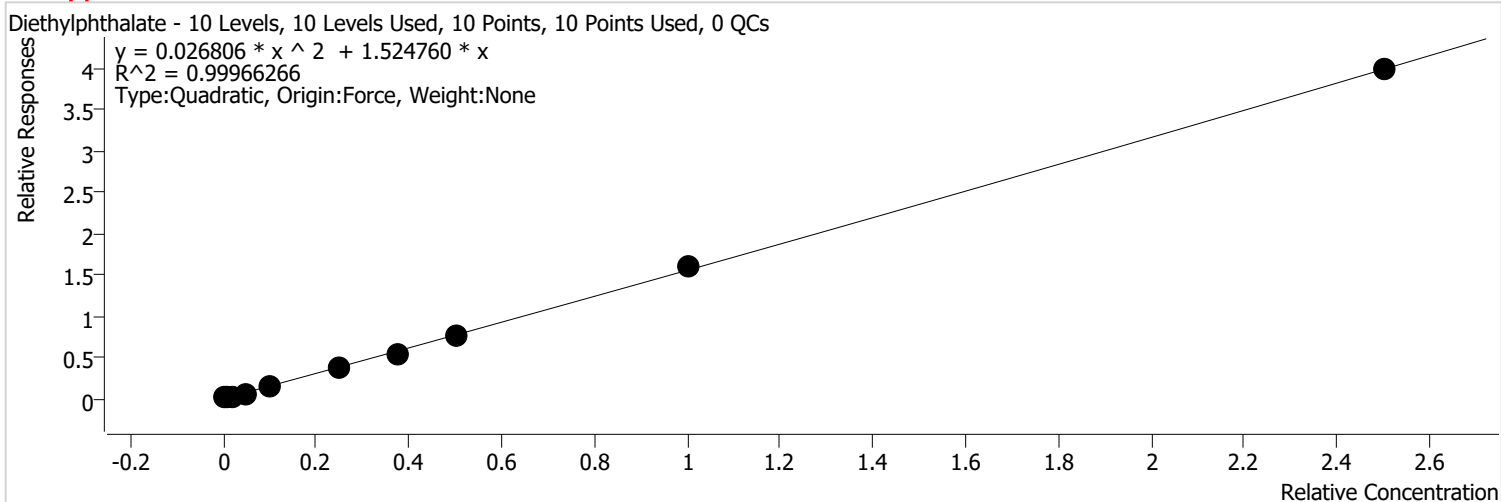


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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C:\GC-14\Data\2023\062723\062720.D	Calibration	3	x	8715	40.0000	1.9925	
C:\GC-14\Data\2023\062723\062721.D	Calibration	4	x	22214	100.0000	1.9427	
C:\GC-14\Data\2023\062723\062722.D	Calibration	5	x	49255	200.0000	2.0275	
C:\GC-14\Data\2023\062723\062723.D	Calibration	6	x	126131	500.0000	2.0710	
C:\GC-14\Data\2023\062723\062724.D	Calibration	7	x	191472	750.0000	2.0004	
C:\GC-14\Data\2023\062723\062725.D	Calibration	8	x	265868	1000.0000	2.0070	
C:\GC-14\Data\2023\062723\062726.D	Calibration	9	x	541645	2000.0000	2.0754	
C:\GC-14\Data\2023\062723\062727.D	Calibration	10	x	1354433	5000.0000	1.9767	

Calibration Report

Batch Path	C:\GC-14\Data\2023\062723\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	6/29/2023 12:01 PM	Reporter Name	FA\GC14
Report Time	6/29/2023 12:03:28 PM	Batch State	Processed
Last Calib Update	6/29/2023 12:00 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

Diethylphthalate %RSE = 17.1



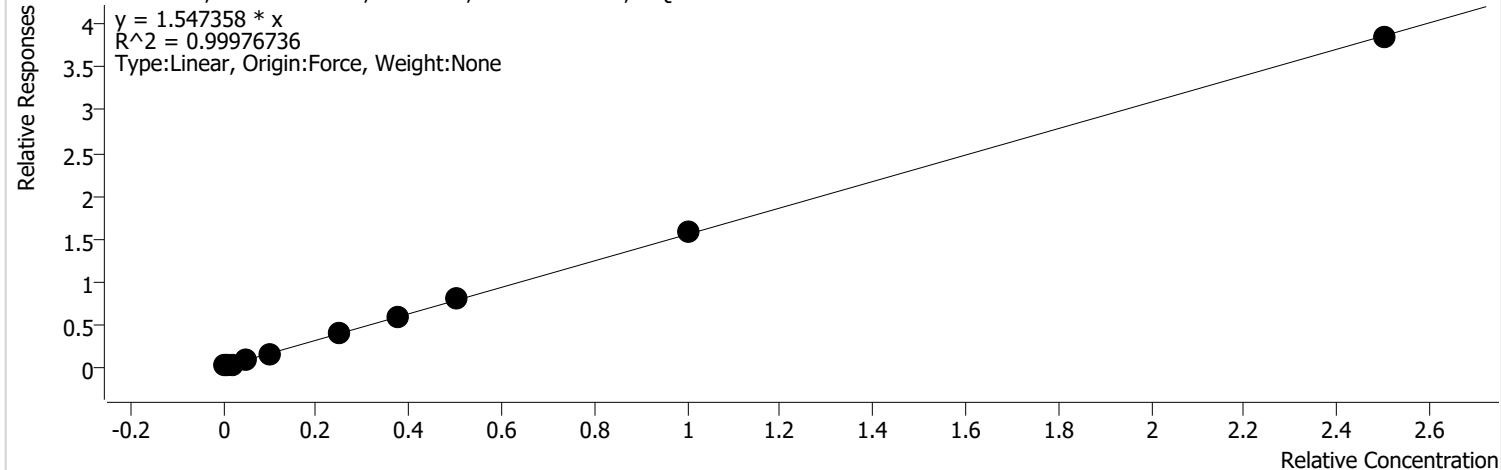
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\062723\062718.D	Calibration	1	x	1357	10.0000	1.1870	
C:\GC-14\Data\2023\062723\062719.D	Calibration	2	x	2601	20.0000	1.1632	
C:\GC-14\Data\2023\062723\062720.D	Calibration	3	x	5327	40.0000	1.2179	
C:\GC-14\Data\2023\062723\062721.D	Calibration	4	x	14070	100.0000	1.2304	
C:\GC-14\Data\2023\062723\062722.D	Calibration	5	x	32784	200.0000	1.3495	
C:\GC-14\Data\2023\062723\062723.D	Calibration	6	x	87707	500.0000	1.4401	
C:\GC-14\Data\2023\062723\062724.D	Calibration	7	x	137848	750.0000	1.4402	
C:\GC-14\Data\2023\062723\062725.D	Calibration	8	x	198956	1000.0000	1.5019	
C:\GC-14\Data\2023\062723\062726.D	Calibration	9	x	416375	2000.0000	1.5954	
C:\GC-14\Data\2023\062723\062727.D	Calibration	10	x	1089229	5000.0000	1.5897	

Calibration Report

Batch Path	C:\GC-14\Data\2023\062723\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	6/29/2023 12:01 PM	Reporter Name	FA\GC14
Report Time	6/29/2023 12:03:28 PM	Batch State	Processed
Last Calib Update	6/29/2023 12:00 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

Fluorene %RSE = 7.7

Fluorene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



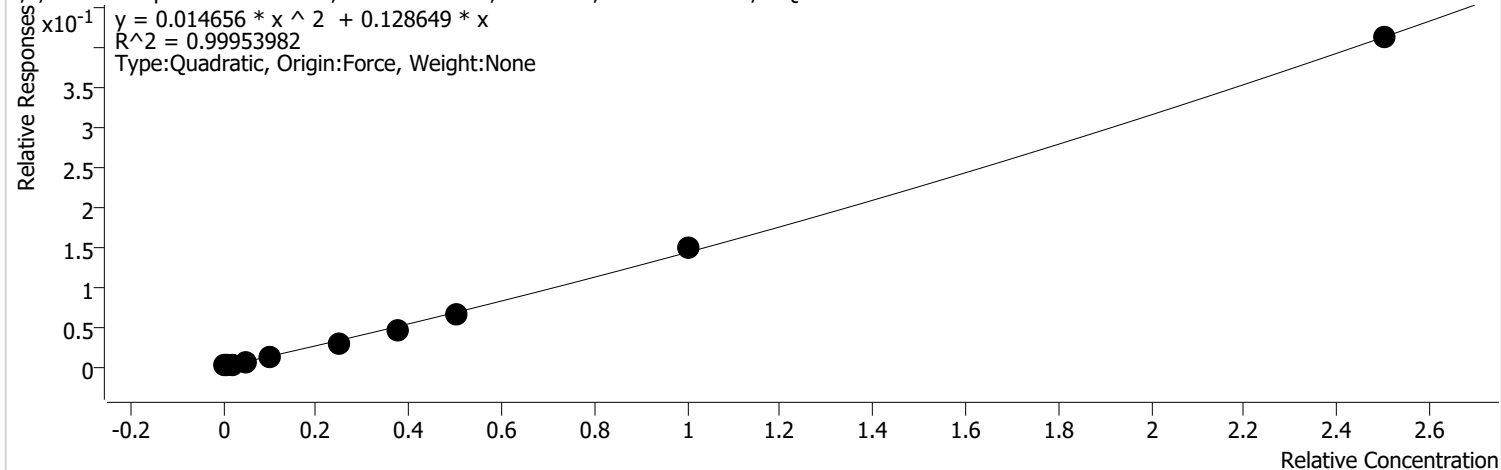
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\062723\062718.D	Calibration	1	x	1543	10.0000	1.3496	
C:\GC-14\Data\2023\062723\062719.D	Calibration	2	x	3011	20.0000	1.3466	
C:\GC-14\Data\2023\062723\062720.D	Calibration	3	x	6281	40.0000	1.4361	
C:\GC-14\Data\2023\062723\062721.D	Calibration	4	x	16217	100.0000	1.4182	
C:\GC-14\Data\2023\062723\062722.D	Calibration	5	x	36826	200.0000	1.5159	
C:\GC-14\Data\2023\062723\062723.D	Calibration	6	x	95960	500.0000	1.5756	
C:\GC-14\Data\2023\062723\062724.D	Calibration	7	x	147253	750.0000	1.5384	
C:\GC-14\Data\2023\062723\062725.D	Calibration	8	x	208112	1000.0000	1.5710	
C:\GC-14\Data\2023\062723\062726.D	Calibration	9	x	416297	2000.0000	1.5951	
C:\GC-14\Data\2023\062723\062727.D	Calibration	10	x	1054367	5000.0000	1.5388	

Calibration Report

Batch Path	C:\GC-14\Data\2023\062723\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	6/29/2023 12:01 PM	Reporter Name	FA\GC14
Report Time	6/29/2023 12:03:28 PM	Batch State	Processed
Last Calib Update	6/29/2023 12:00 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

2,4,6-Tribromophenol %RSE =

2,4,6-Tribromophenol - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



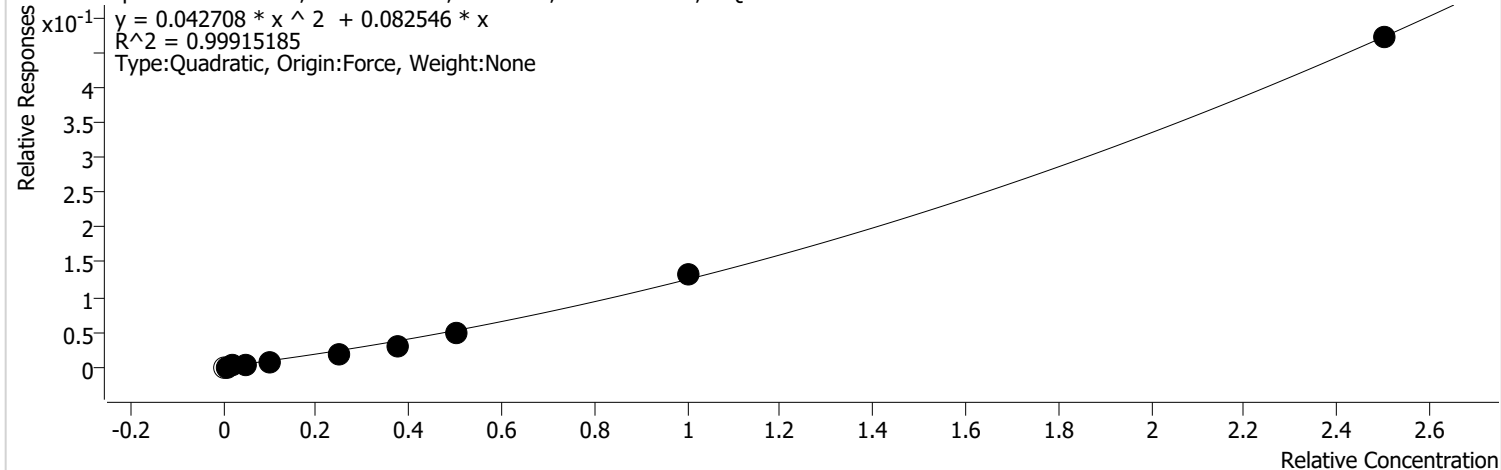
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\062723\062718.D	Calibration	1	x	147	10.0000	0.1283	
C:\GC-14\Data\2023\062723\062719.D	Calibration	2	x	233	20.0000	0.1040	
C:\GC-14\Data\2023\062723\062720.D	Calibration	3	x	437	40.0000	0.0998	
C:\GC-14\Data\2023\062723\062721.D	Calibration	4	x	1108	100.0000	0.0969	
C:\GC-14\Data\2023\062723\062722.D	Calibration	5	x	2575	200.0000	0.1060	
C:\GC-14\Data\2023\062723\062723.D	Calibration	6	x	7261	500.0000	0.1192	
C:\GC-14\Data\2023\062723\062724.D	Calibration	7	x	11892	750.0000	0.1242	
C:\GC-14\Data\2023\062723\062725.D	Calibration	8	x	17379	1000.0000	0.1312	
C:\GC-14\Data\2023\062723\062726.D	Calibration	9	x	38793	2000.0000	0.1486	
C:\GC-14\Data\2023\062723\062727.D	Calibration	10	x	113078	5000.0000	0.1650	

Calibration Report

Batch Path	C:\GC-14\Data\2023\062723\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	6/29/2023 12:01 PM	Reporter Name	FA\GC14
Report Time	6/29/2023 12:03:28 PM	Batch State	Processed
Last Calib Update	6/29/2023 12:00 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

Pentachlorophenol %RSE = 36.1

Pentachlorophenol - 10 Levels, 9 Levels Used, 10 Points, 9 Points Used, 0 QCs

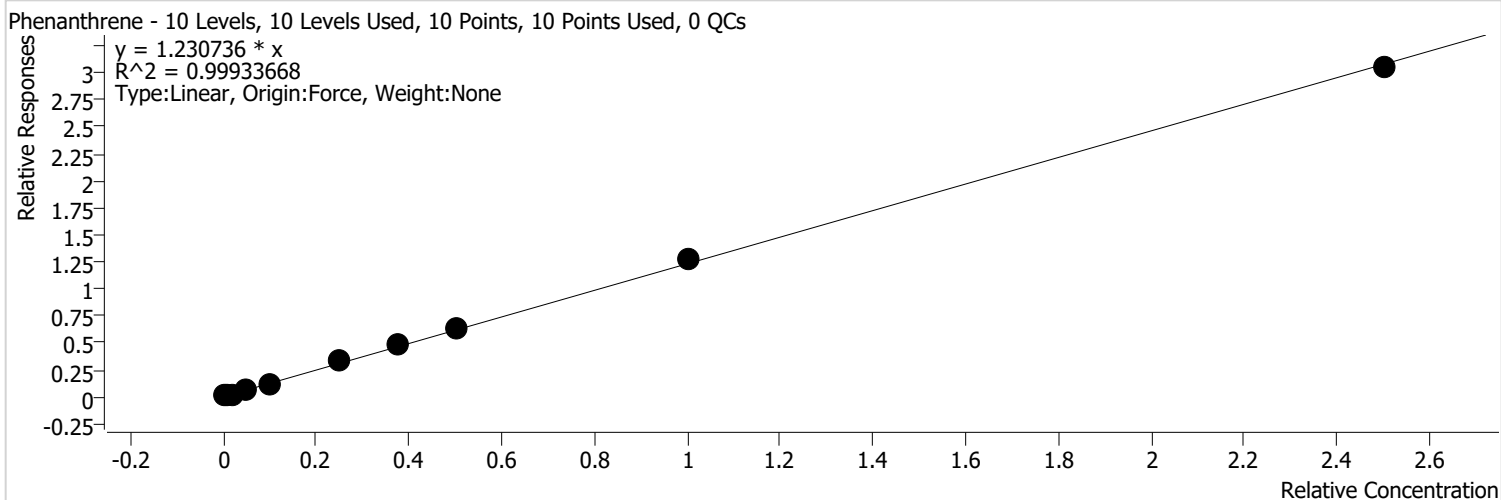


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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C:\GC-14\Data\2023\062723\062719.D	Calibration	2	x	84	20.0000	0.0375	
C:\GC-14\Data\2023\062723\062720.D	Calibration	3	x	207	40.0000	0.0472	
C:\GC-14\Data\2023\062723\062721.D	Calibration	4	x	567	100.0000	0.0496	
C:\GC-14\Data\2023\062723\062722.D	Calibration	5	x	1564	200.0000	0.0644	
C:\GC-14\Data\2023\062723\062723.D	Calibration	6	x	4411	500.0000	0.0724	
C:\GC-14\Data\2023\062723\062724.D	Calibration	7	x	7961	750.0000	0.0832	
C:\GC-14\Data\2023\062723\062725.D	Calibration	8	x	12624	1000.0000	0.0953	
C:\GC-14\Data\2023\062723\062726.D	Calibration	9	x	34886	2000.0000	0.1337	
C:\GC-14\Data\2023\062723\062727.D	Calibration	10	x	129446	5000.0000	0.1889	

Calibration Report

Batch Path	C:\GC-14\Data\2023\062723\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	6/29/2023 12:01 PM	Reporter Name	FA\GC14
Report Time	6/29/2023 12:03:28 PM	Batch State	Processed
Last Calib Update	6/29/2023 12:00 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

Phenanthrene %RSE = 4.8



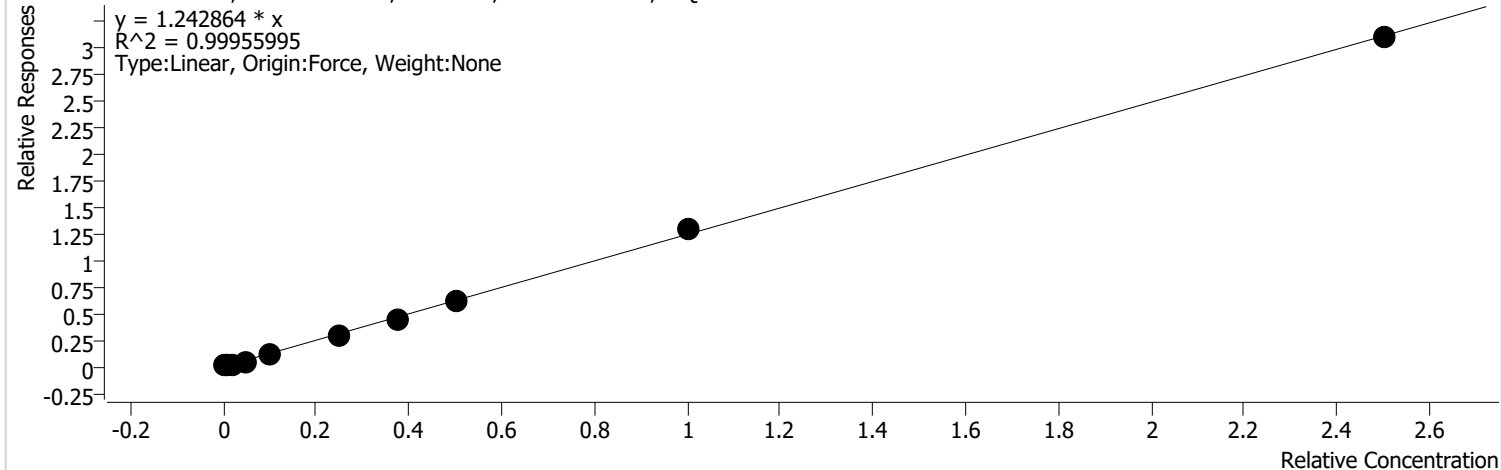
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\062723\062718.D	Calibration	1	x	2491	10.0000	1.1311	
C:\GC-14\Data\2023\062723\062719.D	Calibration	2	x	4990	20.0000	1.1610	
C:\GC-14\Data\2023\062723\062720.D	Calibration	3	x	10144	40.0000	1.2184	
C:\GC-14\Data\2023\062723\062721.D	Calibration	4	x	26628	100.0000	1.2208	
C:\GC-14\Data\2023\062723\062722.D	Calibration	5	x	58696	200.0000	1.2283	
C:\GC-14\Data\2023\062723\062723.D	Calibration	6	x	144556	500.0000	1.3032	
C:\GC-14\Data\2023\062723\062724.D	Calibration	7	x	218547	750.0000	1.2721	
C:\GC-14\Data\2023\062723\062725.D	Calibration	8	x	301492	1000.0000	1.2822	
C:\GC-14\Data\2023\062723\062726.D	Calibration	9	x	592651	2000.0000	1.2867	
C:\GC-14\Data\2023\062723\062727.D	Calibration	10	x	1498833	5000.0000	1.2181	

Calibration Report

Batch Path	C:\GC-14\Data\2023\062723\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	6/29/2023 12:01 PM	Reporter Name	FA\GC14
Report Time	6/29/2023 12:03:29 PM	Batch State	Processed
Last Calib Update	6/29/2023 12:00 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

Anthracene %RSE = 16.0

Anthracene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



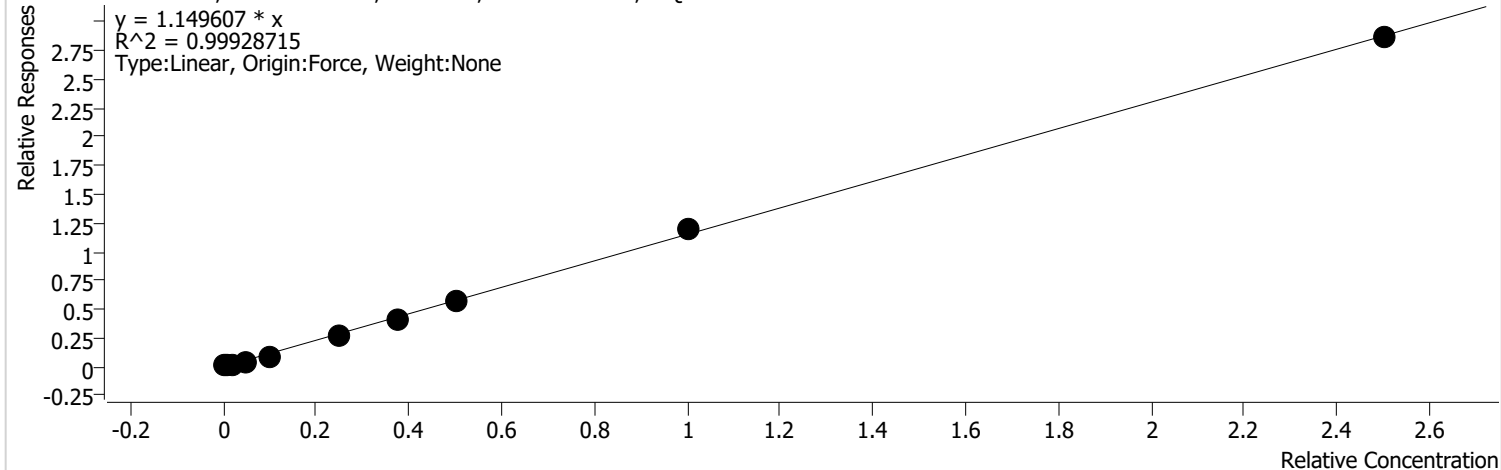
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\062723\062718.D	Calibration	1	x	2113	10.0000	0.9595	
C:\GC-14\Data\2023\062723\062719.D	Calibration	2	x	4083	20.0000	0.9499	
C:\GC-14\Data\2023\062723\062720.D	Calibration	3	x	8300	40.0000	0.9969	
C:\GC-14\Data\2023\062723\062721.D	Calibration	4	x	22060	100.0000	1.0114	
C:\GC-14\Data\2023\062723\062722.D	Calibration	5	x	51110	200.0000	1.0695	
C:\GC-14\Data\2023\062723\062723.D	Calibration	6	x	132671	500.0000	1.1960	
C:\GC-14\Data\2023\062723\062724.D	Calibration	7	x	208111	750.0000	1.2114	
C:\GC-14\Data\2023\062723\062725.D	Calibration	8	x	292230	1000.0000	1.2428	
C:\GC-14\Data\2023\062723\062726.D	Calibration	9	x	596225	2000.0000	1.2945	
C:\GC-14\Data\2023\062723\062727.D	Calibration	10	x	1521108	5000.0000	1.2362	

Calibration Report

Batch Path	C:\GC-14\Data\2023\062723\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	6/29/2023 12:01 PM	Reporter Name	FA\GC14
Report Time	6/29/2023 12:03:29 PM	Batch State	Processed
Last Calib Update	6/29/2023 12:00 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

Carbazole %RSE = 18.5

Carbazole - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



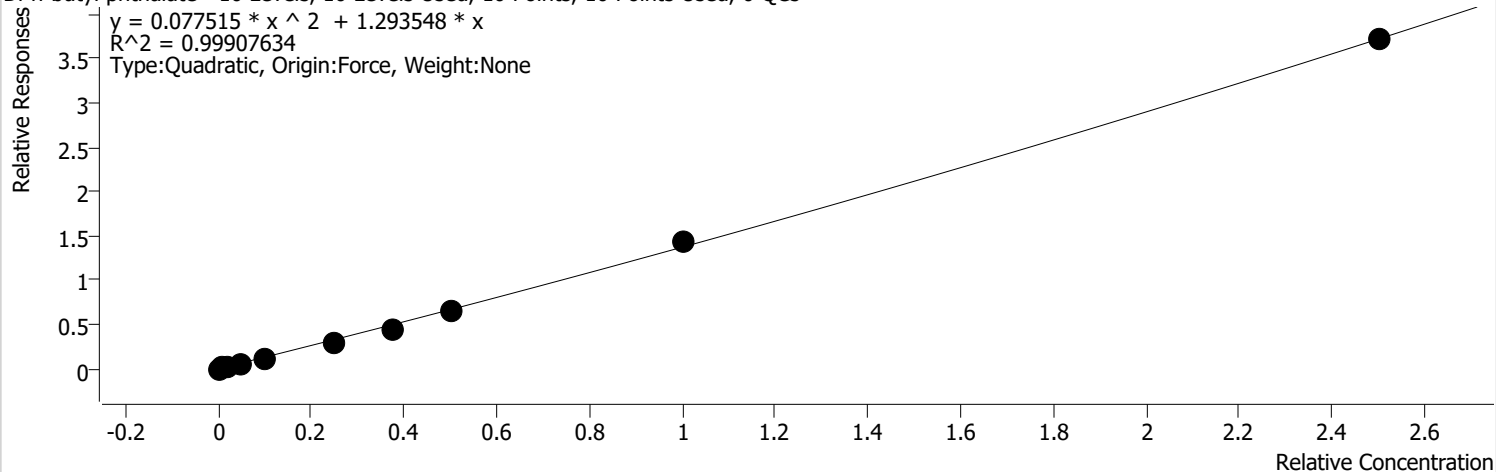
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\062723\062718.D	Calibration	1	x	1923	10.0000	0.8732	
C:\GC-14\Data\2023\062723\062719.D	Calibration	2	x	3614	20.0000	0.8409	
C:\GC-14\Data\2023\062723\062720.D	Calibration	3	x	7460	40.0000	0.8960	
C:\GC-14\Data\2023\062723\062721.D	Calibration	4	x	19202	100.0000	0.8803	
C:\GC-14\Data\2023\062723\062722.D	Calibration	5	x	45154	200.0000	0.9449	
C:\GC-14\Data\2023\062723\062723.D	Calibration	6	x	119470	500.0000	1.0770	
C:\GC-14\Data\2023\062723\062724.D	Calibration	7	x	188964	750.0000	1.0999	
C:\GC-14\Data\2023\062723\062725.D	Calibration	8	x	266274	1000.0000	1.1324	
C:\GC-14\Data\2023\062723\062726.D	Calibration	9	x	556681	2000.0000	1.2086	
C:\GC-14\Data\2023\062723\062727.D	Calibration	10	x	1406643	5000.0000	1.1432	

Calibration Report

Batch Path	C:\GC-14\Data\2023\062723\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	6/29/2023 12:01 PM	Reporter Name	FA\GC14
Report Time	6/29/2023 12:03:29 PM	Batch State	Processed
Last Calib Update	6/29/2023 12:00 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

Di-n-butyl phthalate %RSE = 25.2

Di-n-butyl phthalate - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs

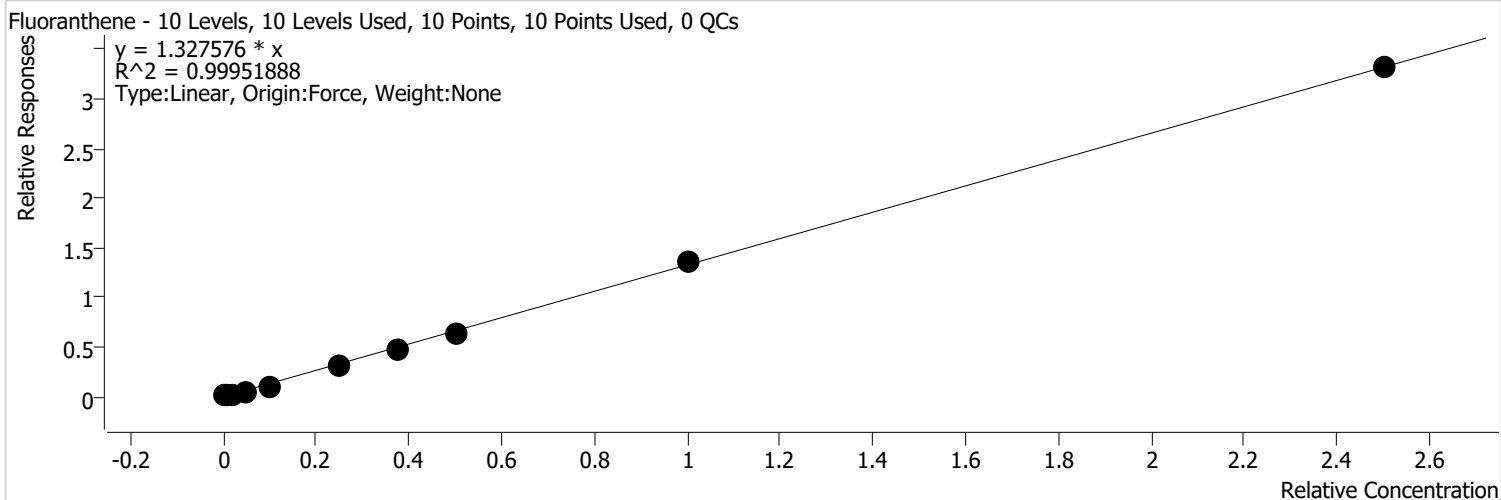


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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C:\GC-14\Data\2023\062723\062719.D	Calibration	2	x	3772	20.0000	0.8776	
C:\GC-14\Data\2023\062723\062720.D	Calibration	3	x	7668	40.0000	0.9210	
C:\GC-14\Data\2023\062723\062721.D	Calibration	4	x	19814	100.0000	0.9084	
C:\GC-14\Data\2023\062723\062722.D	Calibration	5	x	47607	200.0000	0.9962	
C:\GC-14\Data\2023\062723\062723.D	Calibration	6	x	125956	500.0000	1.1355	
C:\GC-14\Data\2023\062723\062724.D	Calibration	7	x	204116	750.0000	1.1881	
C:\GC-14\Data\2023\062723\062725.D	Calibration	8	x	301276	1000.0000	1.2813	
C:\GC-14\Data\2023\062723\062726.D	Calibration	9	x	662471	2000.0000	1.4383	
C:\GC-14\Data\2023\062723\062727.D	Calibration	10	x	1826166	5000.0000	1.4841	

Calibration Report

Batch Path	C:\GC-14\Data\2023\062723\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	6/29/2023 12:01 PM	Reporter Name	FA\GC14
Report Time	6/29/2023 12:03:29 PM	Batch State	Processed
Last Calib Update	6/29/2023 12:00 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

Fluoranthene %RSE = 15.9

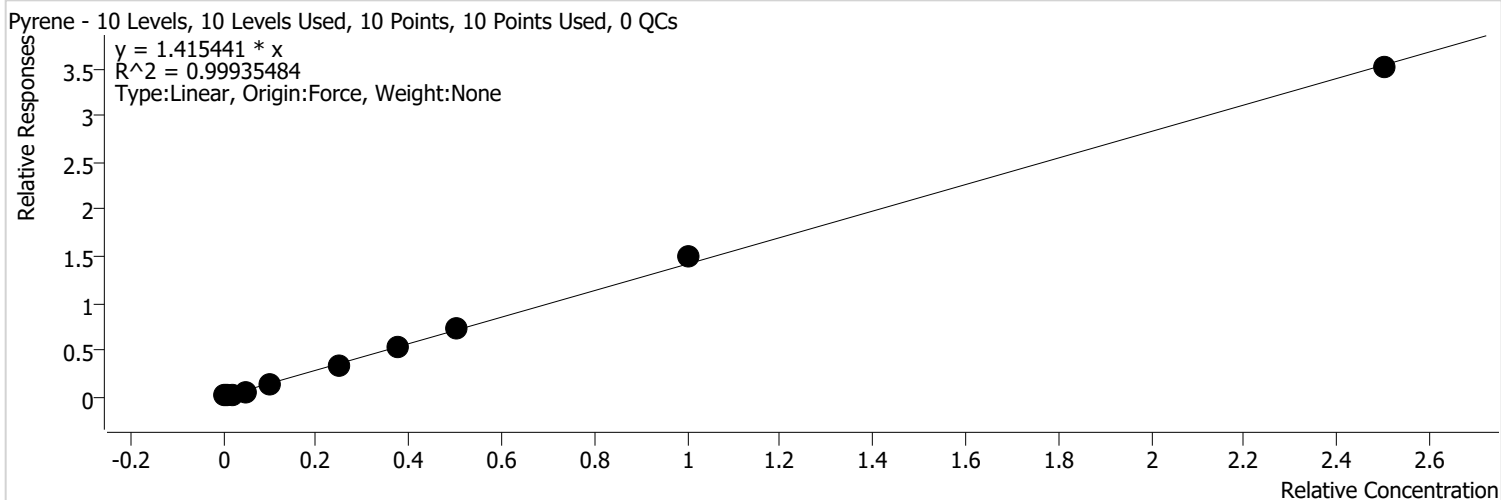


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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C:\GC-14\Data\2023\062723\062720.D	Calibration	3	x	9081	40.0000	1.0907	
C:\GC-14\Data\2023\062723\062721.D	Calibration	4	x	23349	100.0000	1.0704	
C:\GC-14\Data\2023\062723\062722.D	Calibration	5	x	53121	200.0000	1.1116	
C:\GC-14\Data\2023\062723\062723.D	Calibration	6	x	135308	500.0000	1.2198	
C:\GC-14\Data\2023\062723\062724.D	Calibration	7	x	213190	750.0000	1.2409	
C:\GC-14\Data\2023\062723\062725.D	Calibration	8	x	304623	1000.0000	1.2955	
C:\GC-14\Data\2023\062723\062726.D	Calibration	9	x	631548	2000.0000	1.3712	
C:\GC-14\Data\2023\062723\062727.D	Calibration	10	x	1630871	5000.0000	1.3254	

Calibration Report

Batch Path	C:\GC-14\Data\2023\062723\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	6/29/2023 12:01 PM	Reporter Name	FA\GC14
Report Time	6/29/2023 12:03:29 PM	Batch State	Processed
Last Calib Update	6/29/2023 12:00 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

Pyrene %RSE = 12.6



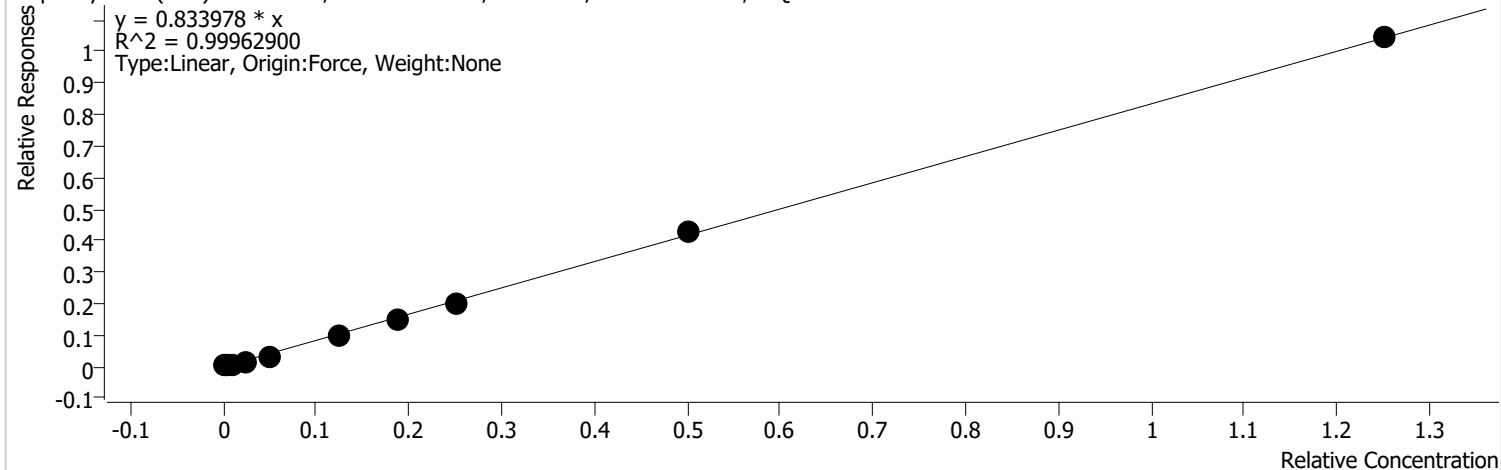
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\062723\062718.D	Calibration	1	x	2768	10.0000	1.2567	
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C:\GC-14\Data\2023\062723\062720.D	Calibration	3	x	10006	40.0000	1.2018	
C:\GC-14\Data\2023\062723\062721.D	Calibration	4	x	25184	100.0000	1.1546	
C:\GC-14\Data\2023\062723\062722.D	Calibration	5	x	59145	200.0000	1.2377	
C:\GC-14\Data\2023\062723\062723.D	Calibration	6	x	152290	500.0000	1.3729	
C:\GC-14\Data\2023\062723\062724.D	Calibration	7	x	239492	750.0000	1.3940	
C:\GC-14\Data\2023\062723\062725.D	Calibration	8	x	337268	1000.0000	1.4344	
C:\GC-14\Data\2023\062723\062726.D	Calibration	9	x	685861	2000.0000	1.4891	
C:\GC-14\Data\2023\062723\062727.D	Calibration	10	x	1727878	5000.0000	1.4042	

Calibration Report

Batch Path	C:\GC-14\Data\2023\062723\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	6/29/2023 12:01 PM	Reporter Name	FA\GC14
Report Time	6/29/2023 12:03:29 PM	Batch State	Processed
Last Calib Update	6/29/2023 12:00 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

Terphenyl-d14 (surr) %RSE =

Terphenyl-d14 (surr) - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



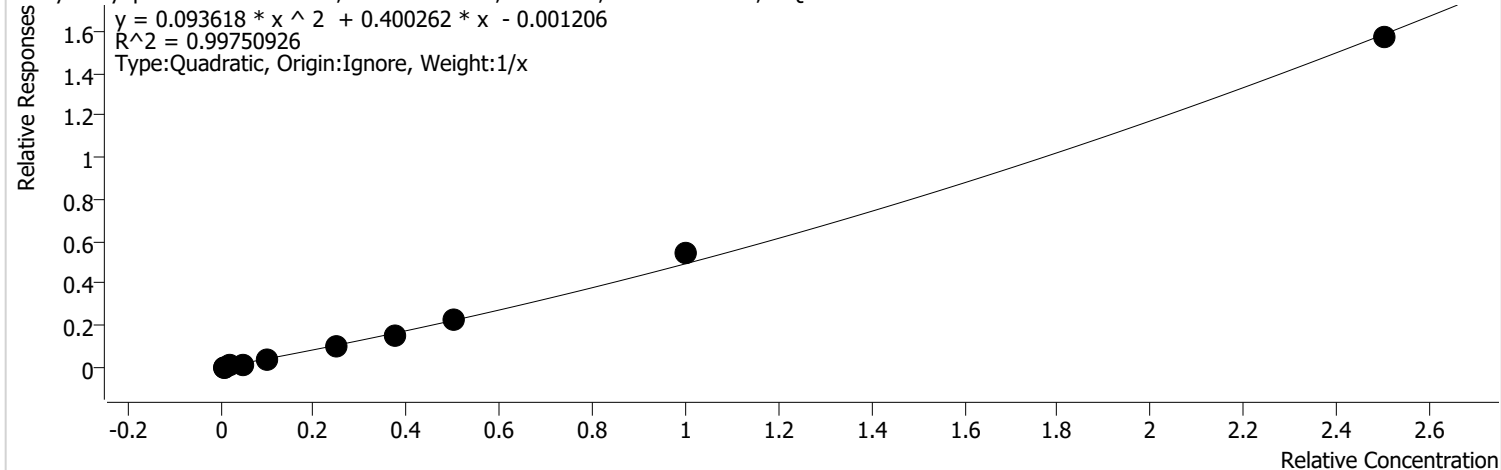
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C:\GC-14\Data\2023\062723\062719.D	Calibration	2	x	1484	10.0000	0.6907	
C:\GC-14\Data\2023\062723\062720.D	Calibration	3	x	2907	20.0000	0.6984	
C:\GC-14\Data\2023\062723\062721.D	Calibration	4	x	7317	50.0000	0.6709	
C:\GC-14\Data\2023\062723\062722.D	Calibration	5	x	16665	100.0000	0.6975	
C:\GC-14\Data\2023\062723\062723.D	Calibration	6	x	43028	250.0000	0.7758	
C:\GC-14\Data\2023\062723\062724.D	Calibration	7	x	66754	375.0000	0.7771	
C:\GC-14\Data\2023\062723\062725.D	Calibration	8	x	94483	500.0000	0.8037	
C:\GC-14\Data\2023\062723\062726.D	Calibration	9	x	195699	1000.0000	0.8498	
C:\GC-14\Data\2023\062723\062727.D	Calibration	10	x	513621	2500.0000	0.8348	

Calibration Report

Batch Path	C:\GC-14\Data\2023\062723\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	6/29/2023 12:01 PM	Reporter Name	FA\GC14
Report Time	6/29/2023 12:03:29 PM	Batch State	Processed
Last Calib Update	6/29/2023 12:00 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

Benzyl Butyl phthalate %RSE = 18.2

Benzyl Butyl phthalate - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



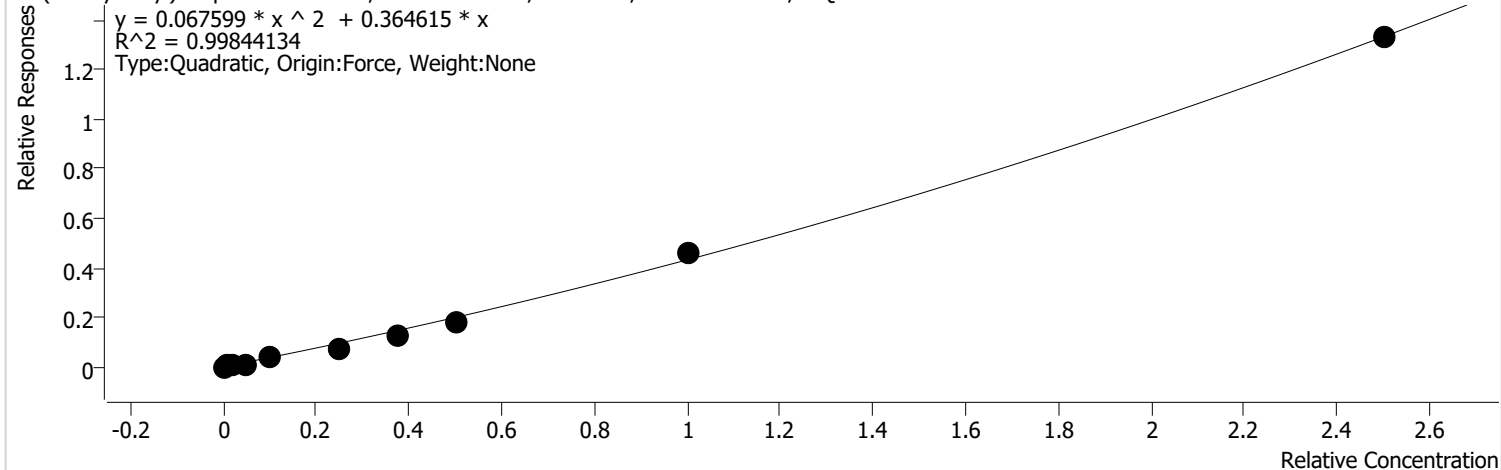
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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C:\GC-14\Data\2023\062723\062719.D	Calibration	2	x	1317	20.0000	0.3065	
C:\GC-14\Data\2023\062723\062720.D	Calibration	3	x	2606	40.0000	0.3130	
C:\GC-14\Data\2023\062723\062721.D	Calibration	4	x	6874	100.0000	0.3151	
C:\GC-14\Data\2023\062723\062722.D	Calibration	5	x	16095	200.0000	0.3368	
C:\GC-14\Data\2023\062723\062723.D	Calibration	6	x	42041	500.0000	0.3790	
C:\GC-14\Data\2023\062723\062724.D	Calibration	7	x	69392	750.0000	0.4039	
C:\GC-14\Data\2023\062723\062725.D	Calibration	8	x	104051	1000.0000	0.4425	
C:\GC-14\Data\2023\062723\062726.D	Calibration	9	x	247946	2000.0000	0.5383	
C:\GC-14\Data\2023\062723\062727.D	Calibration	10	x	772460	5000.0000	0.6278	

Calibration Report

Batch Path	C:\GC-14\Data\2023\062723\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	6/29/2023 12:01 PM	Reporter Name	FA\GC14
Report Time	6/29/2023 12:03:29 PM	Batch State	Processed
Last Calib Update	6/29/2023 12:00 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

bis (2-Ethylhexyl) adipate %RSE = 27.0

bis (2-Ethylhexyl) adipate - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



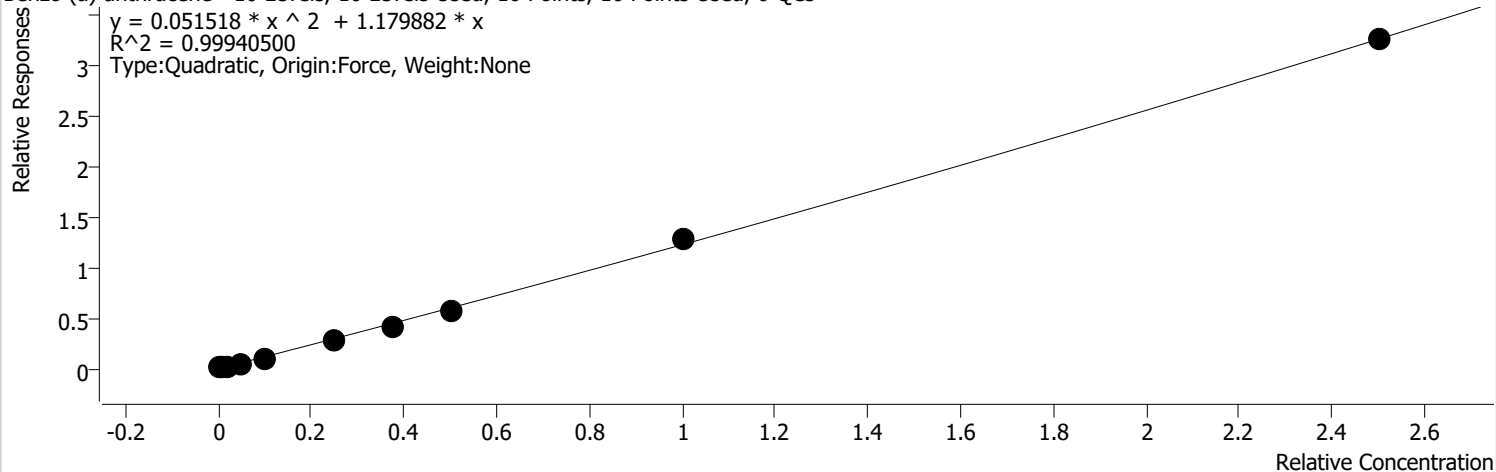
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\062723\062718.D	Calibration	1	x	445	10.0000	0.2022	
C:\GC-14\Data\2023\062723\062719.D	Calibration	2	x	1042	20.0000	0.2424	
C:\GC-14\Data\2023\062723\062720.D	Calibration	3	x	2860	40.0000	0.3435	
C:\GC-14\Data\2023\062723\062721.D	Calibration	4	x	5240	100.0000	0.2403	
C:\GC-14\Data\2023\062723\062722.D	Calibration	5	x	17629	200.0000	0.3689	
C:\GC-14\Data\2023\062723\062723.D	Calibration	6	x	33336	500.0000	0.3005	
C:\GC-14\Data\2023\062723\062724.D	Calibration	7	x	56007	750.0000	0.3260	
C:\GC-14\Data\2023\062723\062725.D	Calibration	8	x	85502	1000.0000	0.3636	
C:\GC-14\Data\2023\062723\062726.D	Calibration	9	x	214060	2000.0000	0.4647	
C:\GC-14\Data\2023\062723\062727.D	Calibration	10	x	654755	5000.0000	0.5321	

Calibration Report

Batch Path	C:\GC-14\Data\2023\062723\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	6/29/2023 12:01 PM	Reporter Name	FA\GC14
Report Time	6/29/2023 12:03:29 PM	Batch State	Processed
Last Calib Update	6/29/2023 12:00 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

Benzo (a) anthracene %RSE = 13.2

Benzo (a) anthracene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs

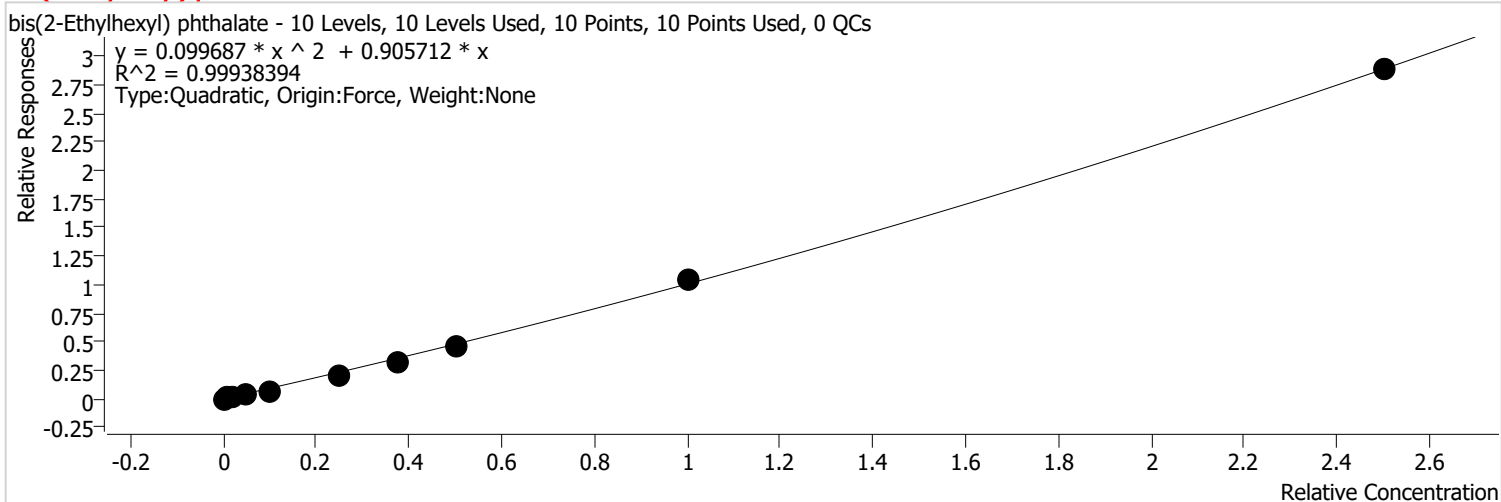


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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C:\GC-14\Data\2023\062723\062719.D	Calibration	2	x	4759	20.0000	1.1072	
C:\GC-14\Data\2023\062723\062720.D	Calibration	3	x	8742	40.0000	1.0500	
C:\GC-14\Data\2023\062723\062721.D	Calibration	4	x	21607	100.0000	0.9906	
C:\GC-14\Data\2023\062723\062722.D	Calibration	5	x	49274	200.0000	1.0311	
C:\GC-14\Data\2023\062723\062723.D	Calibration	6	x	120002	500.0000	1.0818	
C:\GC-14\Data\2023\062723\062724.D	Calibration	7	x	189142	750.0000	1.1009	
C:\GC-14\Data\2023\062723\062725.D	Calibration	8	x	272088	1000.0000	1.1572	
C:\GC-14\Data\2023\062723\062726.D	Calibration	9	x	589960	2000.0000	1.2809	
C:\GC-14\Data\2023\062723\062727.D	Calibration	10	x	1607459	5000.0000	1.3064	

Calibration Report

Batch Path	C:\GC-14\Data\2023\062723\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	6/29/2023 12:01 PM	Reporter Name	FA\GC14
Report Time	6/29/2023 12:03:29 PM	Batch State	Processed
Last Calib Update	6/29/2023 12:00 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

bis(2-Ethylhexyl) phthalate %RSE = 22.7



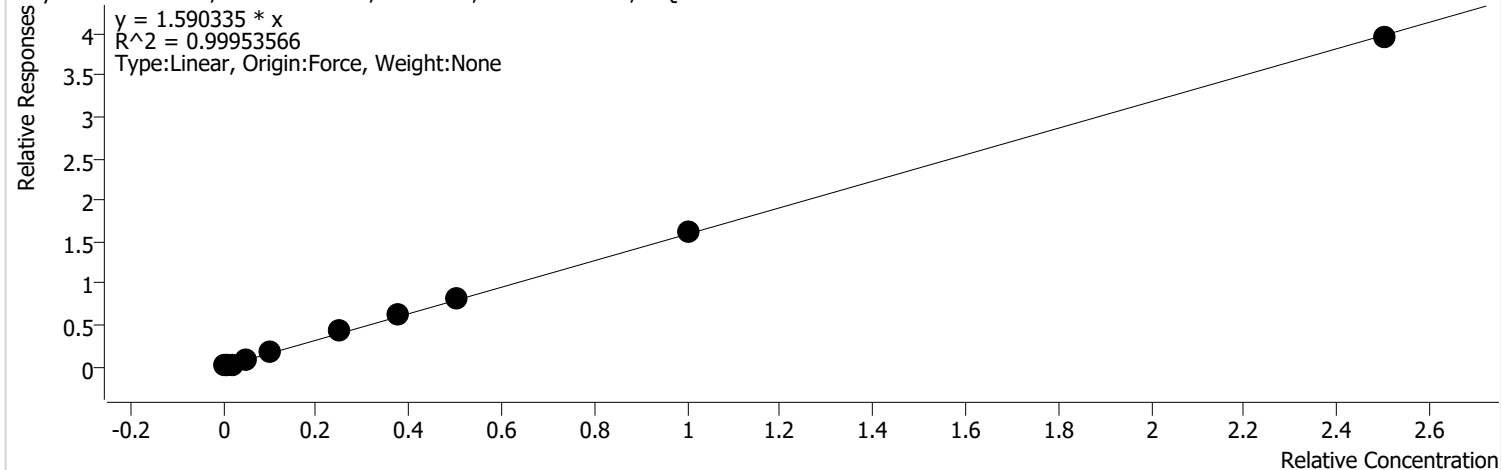
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\062723\062718.D	Calibration	1	x	1170	10.0000	0.6949	
C:\GC-14\Data\2023\062723\062719.D	Calibration	2	x	2074	20.0000	0.6450	
C:\GC-14\Data\2023\062723\062720.D	Calibration	3	x	4213	40.0000	0.6732	
C:\GC-14\Data\2023\062723\062721.D	Calibration	4	x	10847	100.0000	0.6537	
C:\GC-14\Data\2023\062723\062722.D	Calibration	5	x	26448	200.0000	0.7092	
C:\GC-14\Data\2023\062723\062723.D	Calibration	6	x	71139	500.0000	0.8036	
C:\GC-14\Data\2023\062723\062724.D	Calibration	7	x	121714	750.0000	0.8603	
C:\GC-14\Data\2023\062723\062725.D	Calibration	8	x	184137	1000.0000	0.9313	
C:\GC-14\Data\2023\062723\062726.D	Calibration	9	x	417506	2000.0000	1.0464	
C:\GC-14\Data\2023\062723\062727.D	Calibration	10	x	1192526	5000.0000	1.1529	

Calibration Report

Batch Path	C:\GC-14\Data\2023\062723\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	6/29/2023 12:01 PM	Reporter Name	FA\GC14
Report Time	6/29/2023 12:03:29 PM	Batch State	Processed
Last Calib Update	6/29/2023 12:00 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

Chrysene %RSE = 7.4

Chrysene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs

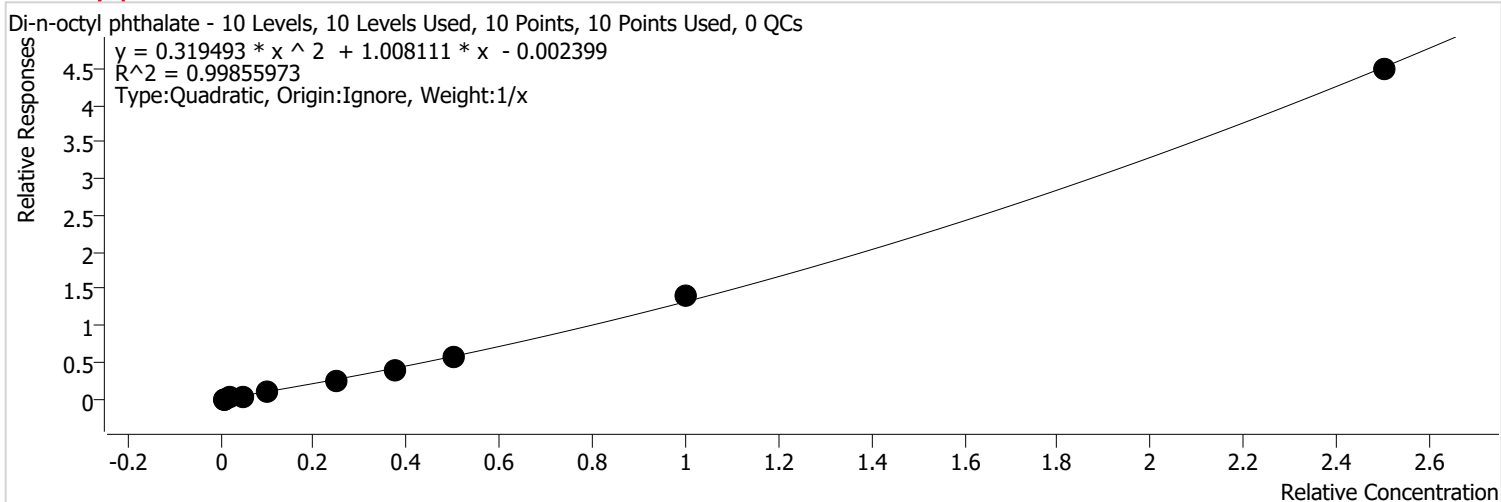


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\062723\062718.D	Calibration	1	x	2846	10.0000	1.6904	
C:\GC-14\Data\2023\062723\062719.D	Calibration	2	x	5335	20.0000	1.6590	
C:\GC-14\Data\2023\062723\062720.D	Calibration	3	x	11013	40.0000	1.7598	
C:\GC-14\Data\2023\062723\062721.D	Calibration	4	x	28383	100.0000	1.7103	
C:\GC-14\Data\2023\062723\062722.D	Calibration	5	x	62481	200.0000	1.6755	
C:\GC-14\Data\2023\062723\062723.D	Calibration	6	x	155994	500.0000	1.7622	
C:\GC-14\Data\2023\062723\062724.D	Calibration	7	x	239391	750.0000	1.6920	
C:\GC-14\Data\2023\062723\062725.D	Calibration	8	x	328878	1000.0000	1.6634	
C:\GC-14\Data\2023\062723\062726.D	Calibration	9	x	645009	2000.0000	1.6167	
C:\GC-14\Data\2023\062723\062727.D	Calibration	10	x	1633242	5000.0000	1.5790	

Calibration Report

Batch Path	C:\GC-14\Data\2023\062723\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	6/29/2023 12:01 PM	Reporter Name	FA\GC14
Report Time	6/29/2023 12:03:29 PM	Batch State	Processed
Last Calib Update	6/29/2023 12:00 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

Di-n-octyl phthalate %RSE = 11.8



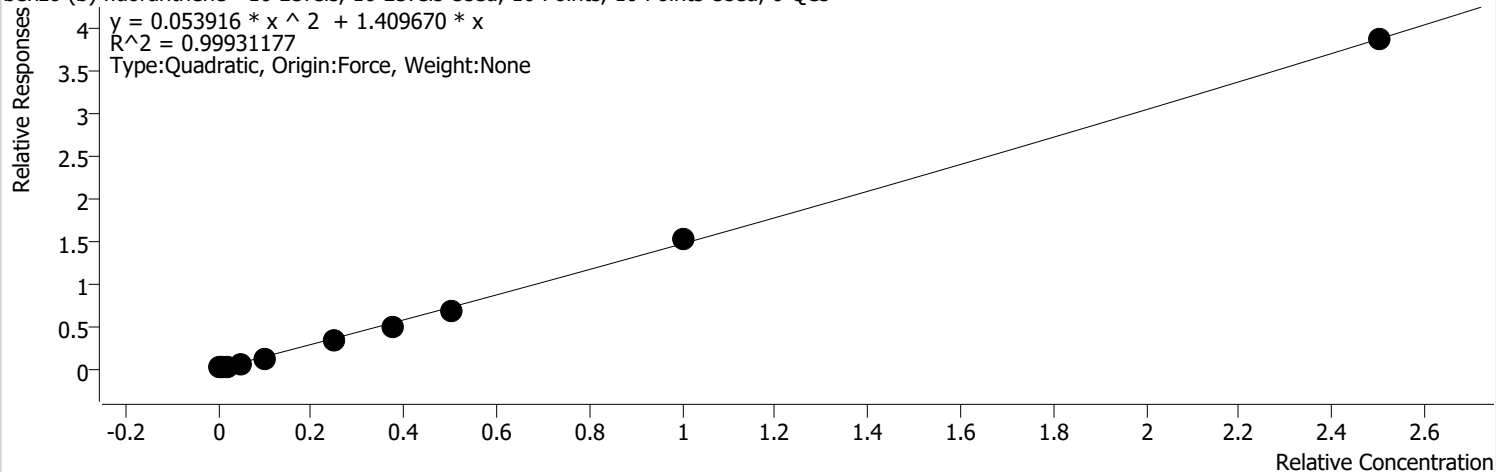
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\062723\062718.D	Calibration	1	x	1329	10.0000	0.7894	
C:\GC-14\Data\2023\062723\062719.D	Calibration	2	x	2559	20.0000	0.7957	
C:\GC-14\Data\2023\062723\062720.D	Calibration	3	x	5607	40.0000	0.8960	
C:\GC-14\Data\2023\062723\062721.D	Calibration	4	x	14348	100.0000	0.8646	
C:\GC-14\Data\2023\062723\062722.D	Calibration	5	x	34275	200.0000	0.9191	
C:\GC-14\Data\2023\062723\062723.D	Calibration	6	x	89364	500.0000	1.0095	
C:\GC-14\Data\2023\062723\062724.D	Calibration	7	x	147367	750.0000	1.0416	
C:\GC-14\Data\2023\062723\062725.D	Calibration	8	x	226826	1000.0000	1.1472	
C:\GC-14\Data\2023\062723\062726.D	Calibration	9	x	568967	2000.0000	1.4261	
C:\GC-14\Data\2023\062723\062727.D	Calibration	10	x	1854663	5000.0000	1.7931	

Calibration Report

Batch Path	C:\GC-14\Data\2023\062723\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	6/29/2023 12:01 PM	Reporter Name	FA\GC14
Report Time	6/29/2023 12:03:29 PM	Batch State	Processed
Last Calib Update	6/29/2023 12:00 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

benzo (b) fluoranthene %RSE = 14.9

benzo (b) fluoranthene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



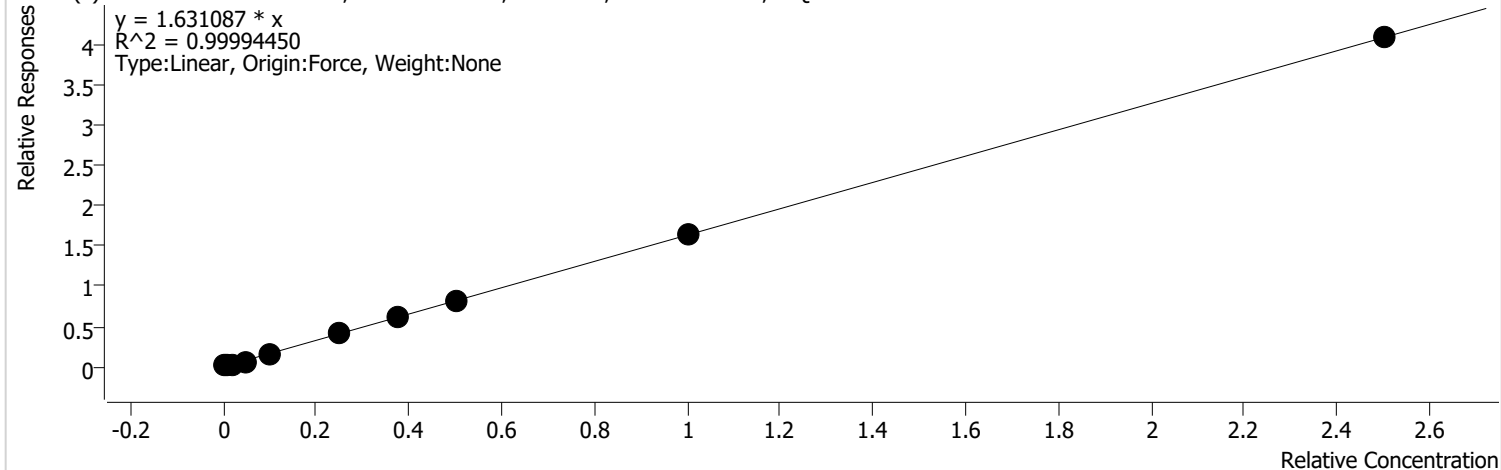
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\062723\062718.D	Calibration	1	x	1985	10.0000	1.1790	
C:\GC-14\Data\2023\062723\062719.D	Calibration	2	x	3688	20.0000	1.1469	
C:\GC-14\Data\2023\062723\062720.D	Calibration	3	x	7334	40.0000	1.1719	
C:\GC-14\Data\2023\062723\062721.D	Calibration	4	x	19592	100.0000	1.1806	
C:\GC-14\Data\2023\062723\062722.D	Calibration	5	x	45273	200.0000	1.2140	
C:\GC-14\Data\2023\062723\062723.D	Calibration	6	x	115808	500.0000	1.3083	
C:\GC-14\Data\2023\062723\062724.D	Calibration	7	x	184636	750.0000	1.3050	
C:\GC-14\Data\2023\062723\062725.D	Calibration	8	x	270088	1000.0000	1.3661	
C:\GC-14\Data\2023\062723\062726.D	Calibration	9	x	609292	2000.0000	1.5271	
C:\GC-14\Data\2023\062723\062727.D	Calibration	10	x	1594464	5000.0000	1.5415	

Calibration Report

Batch Path	C:\GC-14\Data\2023\062723\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	6/29/2023 12:01 PM	Reporter Name	FA\GC14
Report Time	6/29/2023 12:03:29 PM	Batch State	Processed
Last Calib Update	6/29/2023 12:00 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

benzo (k) fluoranthene %RSE = 17.2

benzo (k) fluoranthene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



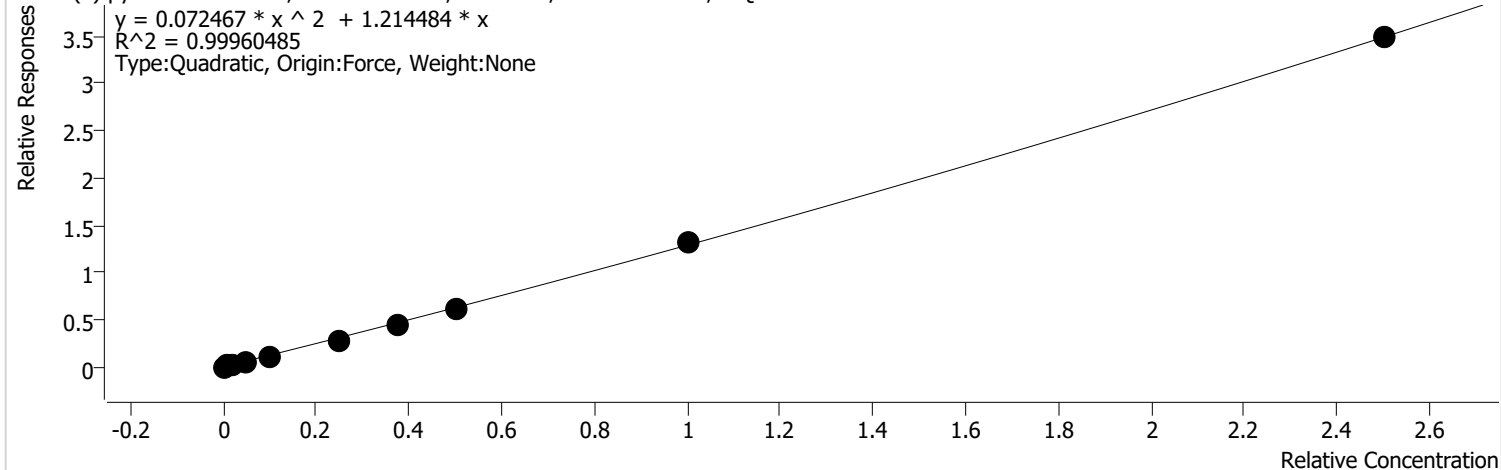
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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C:\GC-14\Data\2023\062723\062719.D	Calibration	2	x	3696	20.0000	1.1494	
C:\GC-14\Data\2023\062723\062720.D	Calibration	3	x	8417	40.0000	1.3450	
C:\GC-14\Data\2023\062723\062721.D	Calibration	4	x	23227	100.0000	1.3996	
C:\GC-14\Data\2023\062723\062722.D	Calibration	5	x	53882	200.0000	1.4449	
C:\GC-14\Data\2023\062723\062723.D	Calibration	6	x	142402	500.0000	1.6087	
C:\GC-14\Data\2023\062723\062724.D	Calibration	7	x	227754	750.0000	1.6097	
C:\GC-14\Data\2023\062723\062725.D	Calibration	8	x	326347	1000.0000	1.6506	
C:\GC-14\Data\2023\062723\062726.D	Calibration	9	x	653930	2000.0000	1.6390	
C:\GC-14\Data\2023\062723\062727.D	Calibration	10	x	1686161	5000.0000	1.6302	

Calibration Report

Batch Path	C:\GC-14\Data\2023\062723\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	6/29/2023 12:01 PM	Reporter Name	FA\GC14
Report Time	6/29/2023 12:03:29 PM	Batch State	Processed
Last Calib Update	6/29/2023 12:00 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

benzo (a) pyrene %RSE = 18.6

benzo (a) pyrene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs

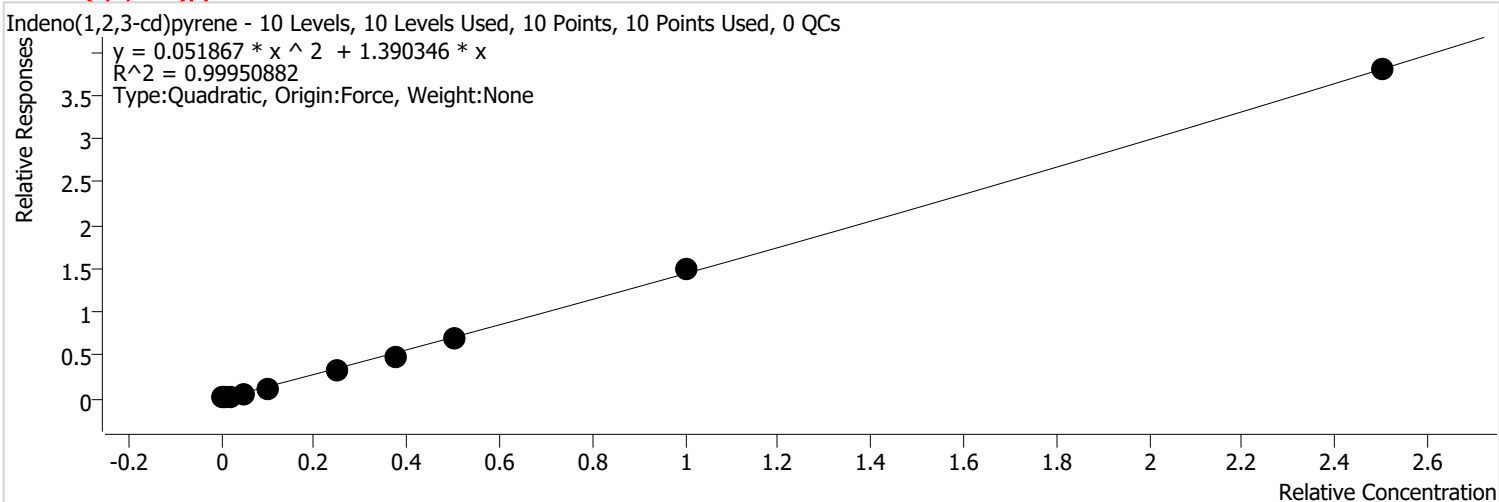


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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C:\GC-14\Data\2023\062723\062719.D	Calibration	2	x	2942	20.0000	0.9149	
C:\GC-14\Data\2023\062723\062720.D	Calibration	3	x	6080	40.0000	0.9716	
C:\GC-14\Data\2023\062723\062721.D	Calibration	4	x	15880	100.0000	0.9569	
C:\GC-14\Data\2023\062723\062722.D	Calibration	5	x	38570	200.0000	1.0343	
C:\GC-14\Data\2023\062723\062723.D	Calibration	6	x	100693	500.0000	1.1375	
C:\GC-14\Data\2023\062723\062724.D	Calibration	7	x	164188	750.0000	1.1605	
C:\GC-14\Data\2023\062723\062725.D	Calibration	8	x	239905	1000.0000	1.2134	
C:\GC-14\Data\2023\062723\062726.D	Calibration	9	x	530149	2000.0000	1.3288	
C:\GC-14\Data\2023\062723\062727.D	Calibration	10	x	1441535	5000.0000	1.3937	

Calibration Report

Batch Path	C:\GC-14\Data\2023\062723\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	6/29/2023 12:01 PM	Reporter Name	FA\GC14
Report Time	6/29/2023 12:03:29 PM	Batch State	Processed
Last Calib Update	6/29/2023 12:00 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

Indeno(1,2,3-cd)pyrene %RSE = 16.6



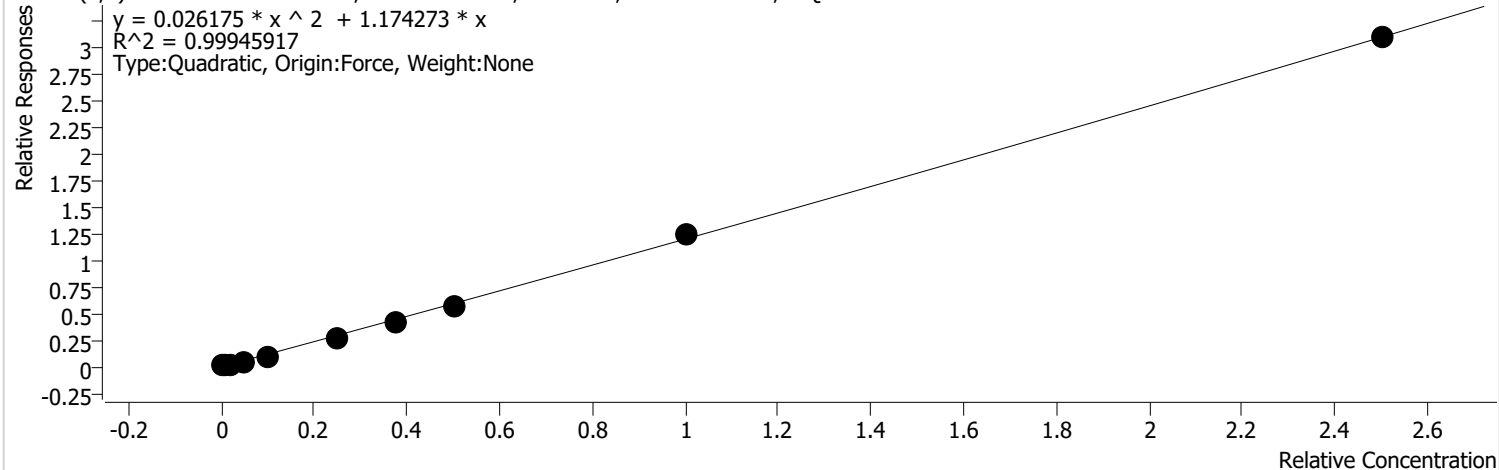
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\062723\062718.D	Calibration	1	x	2228	10.0000	1.1147	
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C:\GC-14\Data\2023\062723\062720.D	Calibration	3	x	8460	40.0000	1.1461	
C:\GC-14\Data\2023\062723\062721.D	Calibration	4	x	22512	100.0000	1.1550	
C:\GC-14\Data\2023\062723\062722.D	Calibration	5	x	50214	200.0000	1.1624	
C:\GC-14\Data\2023\062723\062723.D	Calibration	6	x	132903	500.0000	1.3030	
C:\GC-14\Data\2023\062723\062724.D	Calibration	7	x	210969	750.0000	1.3026	
C:\GC-14\Data\2023\062723\062725.D	Calibration	8	x	304021	1000.0000	1.3697	
C:\GC-14\Data\2023\062723\062726.D	Calibration	9	x	660335	2000.0000	1.4934	
C:\GC-14\Data\2023\062723\062727.D	Calibration	10	x	1754763	5000.0000	1.5176	

Calibration Report

Batch Path	C:\GC-14\Data\2023\062723\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	6/29/2023 12:01 PM	Reporter Name	FA\GC14
Report Time	6/29/2023 12:03:29 PM	Batch State	Processed
Last Calib Update	6/29/2023 12:00 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

Dibenz (a,h) anthracene %RSE = 20.1

Dibenz (a,h) anthracene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



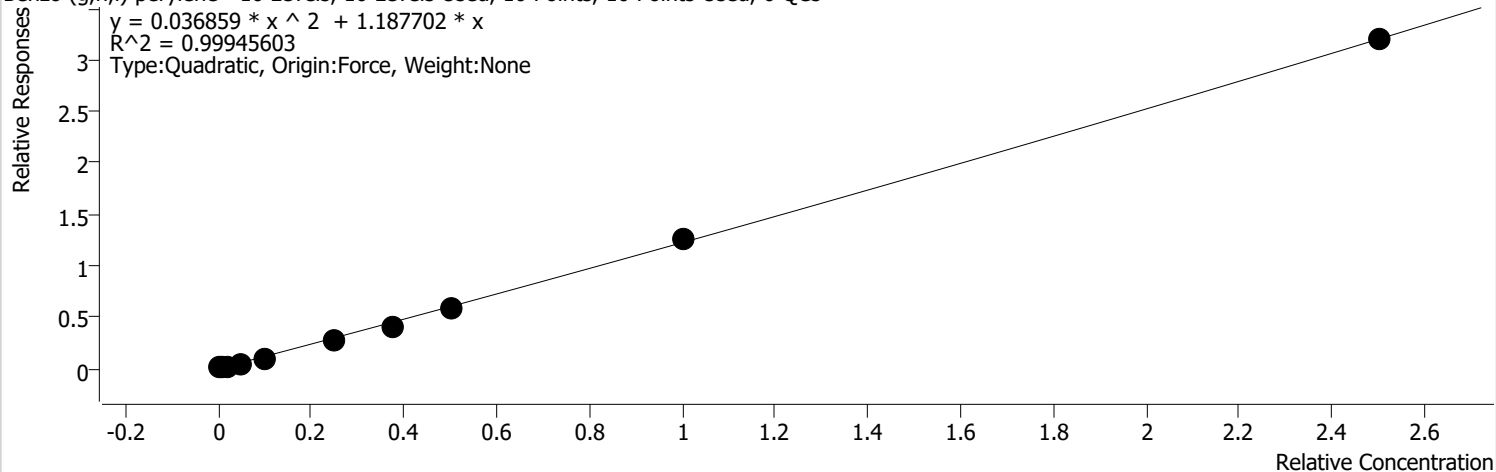
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\062723\062718.D	Calibration	1	x	1786	10.0000	0.8940	
C:\GC-14\Data\2023\062723\062719.D	Calibration	2	x	3155	20.0000	0.8318	
C:\GC-14\Data\2023\062723\062720.D	Calibration	3	x	6760	40.0000	0.9159	
C:\GC-14\Data\2023\062723\062721.D	Calibration	4	x	18187	100.0000	0.9331	
C:\GC-14\Data\2023\062723\062722.D	Calibration	5	x	41346	200.0000	0.9571	
C:\GC-14\Data\2023\062723\062723.D	Calibration	6	x	110333	500.0000	1.0817	
C:\GC-14\Data\2023\062723\062724.D	Calibration	7	x	176751	750.0000	1.0914	
C:\GC-14\Data\2023\062723\062725.D	Calibration	8	x	257002	1000.0000	1.1578	
C:\GC-14\Data\2023\062723\062726.D	Calibration	9	x	549516	2000.0000	1.2428	
C:\GC-14\Data\2023\062723\062727.D	Calibration	10	x	1431094	5000.0000	1.2377	

Calibration Report

Batch Path	C:\GC-14\Data\2023\062723\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	6/29/2023 12:01 PM	Reporter Name	FA\GC14
Report Time	6/29/2023 12:03:29 PM	Batch State	Processed
Last Calib Update	6/29/2023 12:00 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

Benzo (g,h,i) perylene %RSE = 12.3

Benzo (g,h,i) perylene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\062723\062718.D	Calibration	1	x	2141	10.0000	1.0712	
C:\GC-14\Data\2023\062723\062719.D	Calibration	2	x	3792	20.0000	0.9998	
C:\GC-14\Data\2023\062723\062720.D	Calibration	3	x	7773	40.0000	1.0531	
C:\GC-14\Data\2023\062723\062721.D	Calibration	4	x	19908	100.0000	1.0214	
C:\GC-14\Data\2023\062723\062722.D	Calibration	5	x	43723	200.0000	1.0122	
C:\GC-14\Data\2023\062723\062723.D	Calibration	6	x	112820	500.0000	1.1061	
C:\GC-14\Data\2023\062723\062724.D	Calibration	7	x	177923	750.0000	1.0986	
C:\GC-14\Data\2023\062723\062725.D	Calibration	8	x	259340	1000.0000	1.1684	
C:\GC-14\Data\2023\062723\062726.D	Calibration	9	x	561476	2000.0000	1.2698	
C:\GC-14\Data\2023\062723\062727.D	Calibration	10	x	1477391	5000.0000	1.2777	

Semivolatile Calibration

Date: 6/26/23

Analyst: CB

MeCl2: 7573

8270 Surrogate: 28412

Cal	ICV
8270 Megamix: <u>27433</u>	8270 Megamix: <u>27571</u>
2,4-DNP: <u>27477</u>	2,4-DNP: <u>26831</u>
Benzoic Acid: <u>27264</u>	Benzoic Acid: <u>25525</u>

~~BENZIOIC~~ 23501

BENZIDINE 23500

IS 28362

Spike Conc. (ppb)	BN/Acid Surr Conc. (ppb)	2° Spike (uL)	B/N Surr (uL)	Internal Standard (uL) 10	Remove (uL) 10.2	Final Vol. (mL) 1	Comments
2	2/1	0.2					FOR PARALLEL CAL ONLY
10	10/5	1	--	10	11	1	
20	20/10	2	--	10	12	1	
40	40/20	4	--	10	14	1	
100	100/50	10	--	10	20	1	
200	200/100	20	--	10	30	1	
500	500/250	50	--	10	60	1	
750	750/375	75	--	10	85	1	
1000	1000/500	100	--	10	110	1	
2000	2000/1000	200	--	10	210	1	
5000	5000/2500	500	--	10	510	1	
ICB	1000/500		5	10	15	1	
ICV (1000 ppb)	1000/500	**	5	10	15	1	**Add 1 uL of SS Mega mix, SS 2-4 DNP & SS BA

SS BENZ

	Mega Mix (uL)	2,4-DNP (uL)	Benzoic Acid (uL)	8270 Surr (uL)	Final Volume (mL)
2° Intermediate (cal)	100	100	100	100	10

BENZIDINES
50uL

500uL

CB 6/26

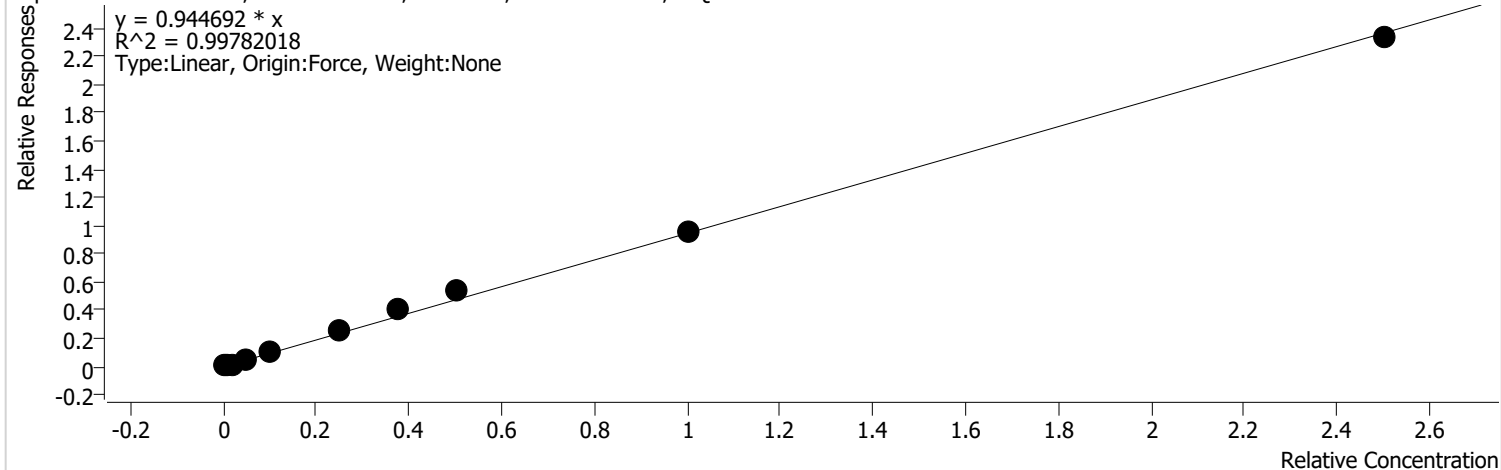
Signature and Date: CB 6/26/23

Calibration Report

Batch Path	C:\GC-14\Data\2023\072623\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	7/27/2023 9:49 AM	Reporter Name	FA\GC14
Report Time	7/27/2023 9:51:58 AM	Batch State	Processed
Last Calib Update	7/27/2023 9:48 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Naphthalene %RSE = 10.8

Naphthalene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



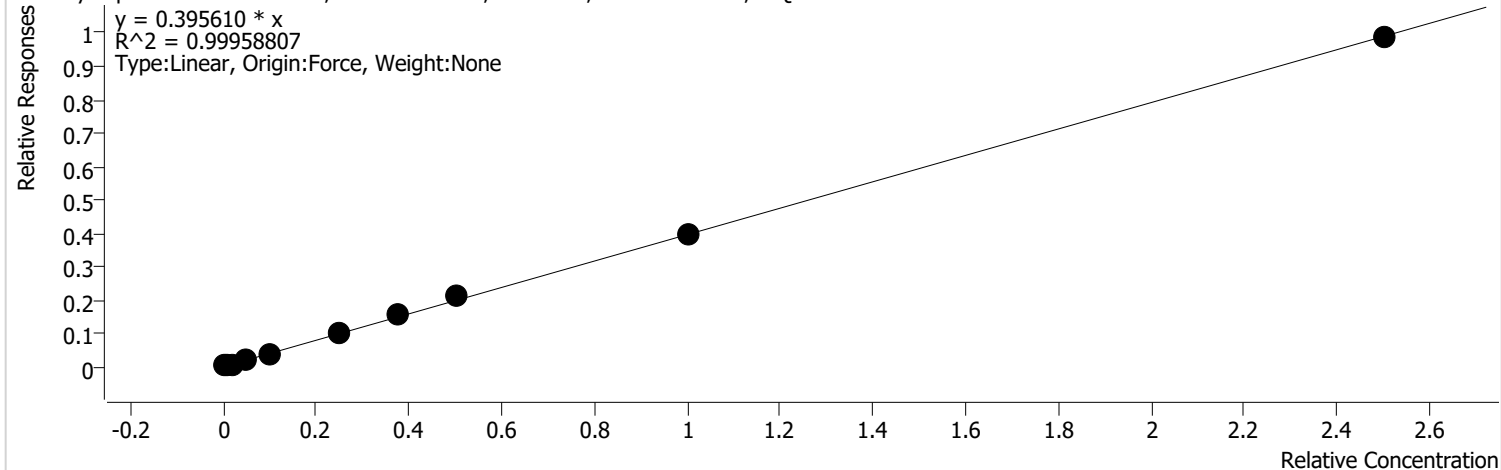
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C:\GC-14\Data\2023\072623\072611.D	Calibration	2	x	7904	20.0000	1.0295	
C:\GC-14\Data\2023\072623\072612.D	Calibration	3	x	15571	40.0000	1.0334	
C:\GC-14\Data\2023\072623\072613.D	Calibration	4	x	38480	100.0000	1.0061	
C:\GC-14\Data\2023\072623\072614.D	Calibration	5	x	77269	200.0000	0.9942	
C:\GC-14\Data\2023\072623\072615.D	Calibration	6	x	216216	500.0000	1.0617	
C:\GC-14\Data\2023\072623\072616.D	Calibration	7	x	329435	750.0000	1.0725	
C:\GC-14\Data\2023\072623\072617.D	Calibration	8	x	438764	1000.0000	1.0949	
C:\GC-14\Data\2023\072623\072618.D	Calibration	9	x	834662	2000.0000	0.9629	
C:\GC-14\Data\2023\072623\072619.D	Calibration	10	x	2029614	5000.0000	0.9316	

Calibration Report

Batch Path	C:\GC-14\Data\2023\072623\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	7/27/2023 9:49 AM	Reporter Name	FA\GC14
Report Time	7/27/2023 9:52:00 AM	Batch State	Processed
Last Calib Update	7/27/2023 9:48 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

2-Methylnaphthalene %RSE = 9.1

2-Methylnaphthalene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs

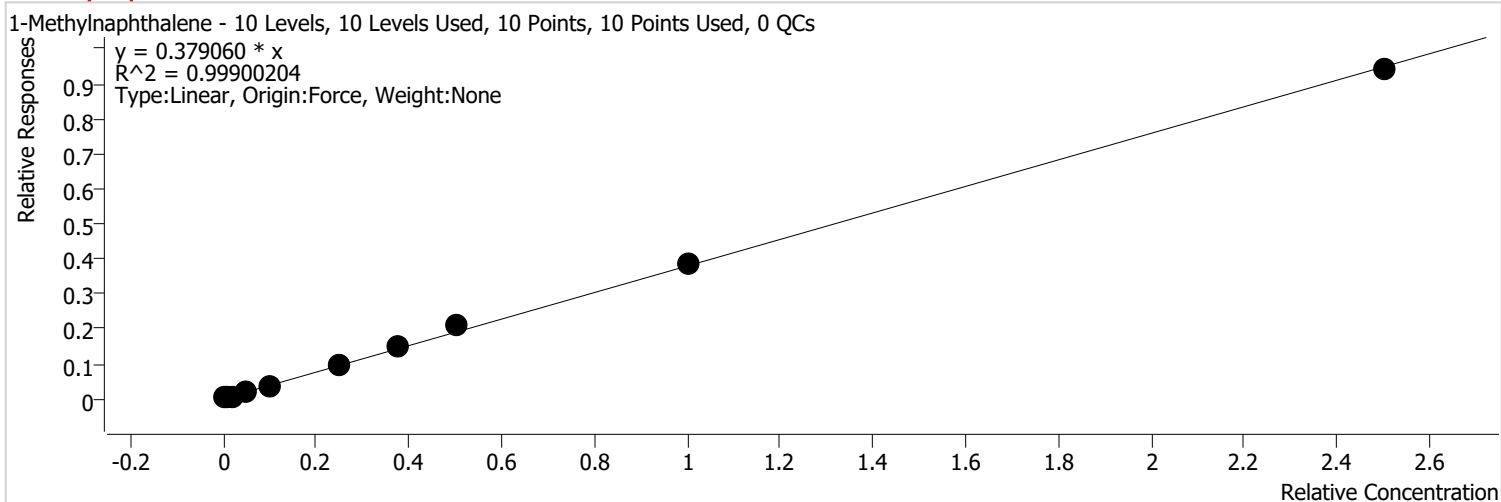


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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C:\GC-14\Data\2023\072623\072611.D	Calibration	2	x	2713	20.0000	0.3534	
C:\GC-14\Data\2023\072623\072612.D	Calibration	3	x	5390	40.0000	0.3577	
C:\GC-14\Data\2023\072623\072613.D	Calibration	4	x	13404	100.0000	0.3505	
C:\GC-14\Data\2023\072623\072614.D	Calibration	5	x	27441	200.0000	0.3531	
C:\GC-14\Data\2023\072623\072615.D	Calibration	6	x	80968	500.0000	0.3976	
C:\GC-14\Data\2023\072623\072616.D	Calibration	7	x	126285	750.0000	0.4111	
C:\GC-14\Data\2023\072623\072617.D	Calibration	8	x	171782	1000.0000	0.4287	
C:\GC-14\Data\2023\072623\072618.D	Calibration	9	x	342745	2000.0000	0.3954	
C:\GC-14\Data\2023\072623\072619.D	Calibration	10	x	858459	5000.0000	0.3940	

Calibration Report

Batch Path	C:\GC-14\Data\2023\072623\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	7/27/2023 9:49 AM	Reporter Name	FA\GC14
Report Time	7/27/2023 9:52:00 AM	Batch State	Processed
Last Calib Update	7/27/2023 9:48 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

1-Methylnaphthalene %RSE = 10.9

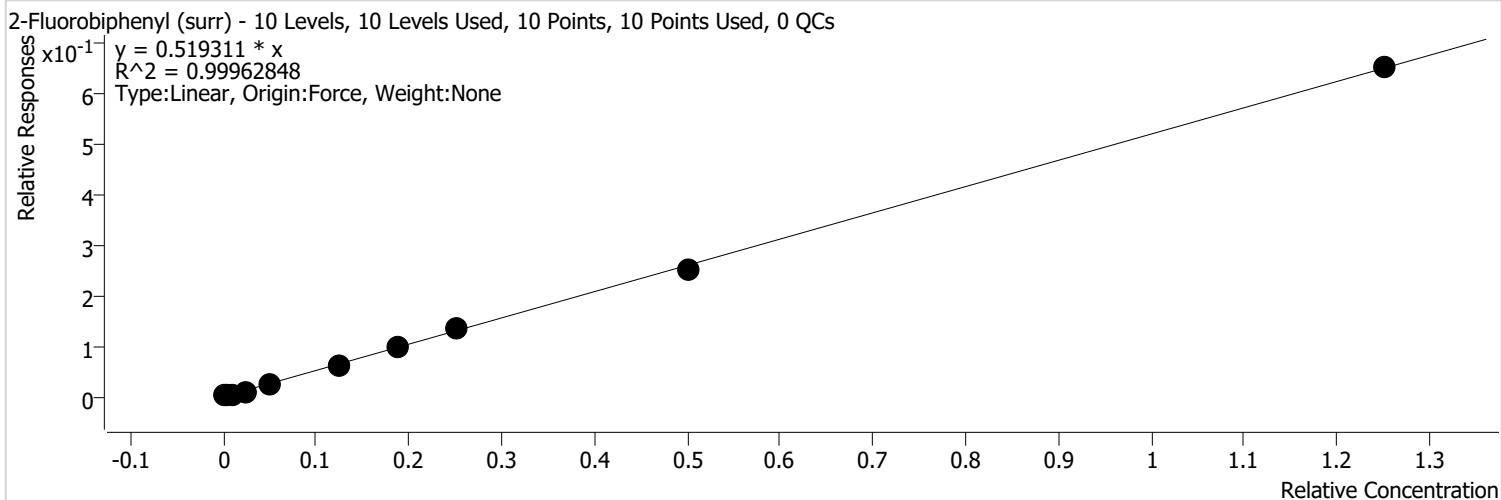


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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C:\GC-14\Data\2023\072623\072611.D	Calibration	2	x	2539	20.0000	0.3307	
C:\GC-14\Data\2023\072623\072612.D	Calibration	3	x	5083	40.0000	0.3374	
C:\GC-14\Data\2023\072623\072613.D	Calibration	4	x	12727	100.0000	0.3328	
C:\GC-14\Data\2023\072623\072614.D	Calibration	5	x	26129	200.0000	0.3362	
C:\GC-14\Data\2023\072623\072615.D	Calibration	6	x	78609	500.0000	0.3860	
C:\GC-14\Data\2023\072623\072616.D	Calibration	7	x	124615	750.0000	0.4057	
C:\GC-14\Data\2023\072623\072617.D	Calibration	8	x	170652	1000.0000	0.4258	
C:\GC-14\Data\2023\072623\072618.D	Calibration	9	x	332961	2000.0000	0.3841	
C:\GC-14\Data\2023\072623\072619.D	Calibration	10	x	818720	5000.0000	0.3758	

Calibration Report

Batch Path	C:\GC-14\Data\2023\072623\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	7/27/2023 9:49 AM	Reporter Name	FA\GC14
Report Time	7/27/2023 9:52:00 AM	Batch State	Processed
Last Calib Update	7/27/2023 9:48 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

2-Fluorobiphenyl (surr) %RSE =



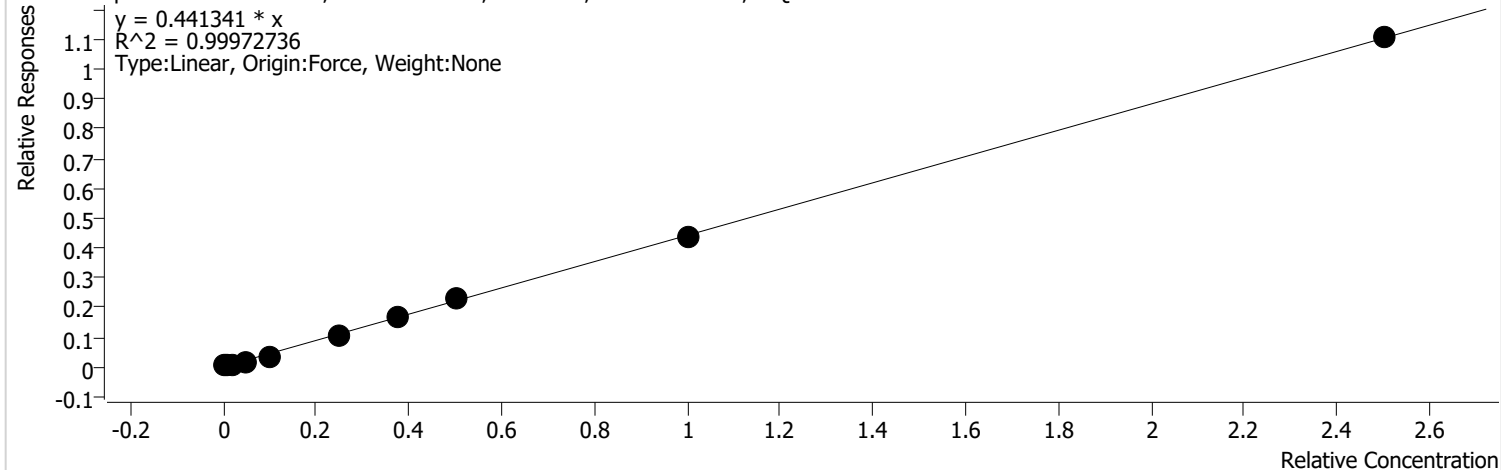
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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C:\GC-14\Data\2023\072623\072612.D	Calibration	3	x	3352	20.0000	0.4449	
C:\GC-14\Data\2023\072623\072613.D	Calibration	4	x	8402	50.0000	0.4394	
C:\GC-14\Data\2023\072623\072614.D	Calibration	5	x	17284	100.0000	0.4448	
C:\GC-14\Data\2023\072623\072615.D	Calibration	6	x	51690	250.0000	0.5076	
C:\GC-14\Data\2023\072623\072616.D	Calibration	7	x	81324	375.0000	0.5295	
C:\GC-14\Data\2023\072623\072617.D	Calibration	8	x	110537	500.0000	0.5517	
C:\GC-14\Data\2023\072623\072618.D	Calibration	9	x	219287	1000.0000	0.5059	
C:\GC-14\Data\2023\072623\072619.D	Calibration	10	x	566653	2500.0000	0.5202	

Calibration Report

Batch Path	C:\GC-14\Data\2023\072623\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	7/27/2023 9:49 AM	Reporter Name	FA\GC14
Report Time	7/27/2023 9:52:00 AM	Batch State	Processed
Last Calib Update	7/27/2023 9:48 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

2-Chloronaphthalene %RSE = 14.4

2-Chloronaphthalene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



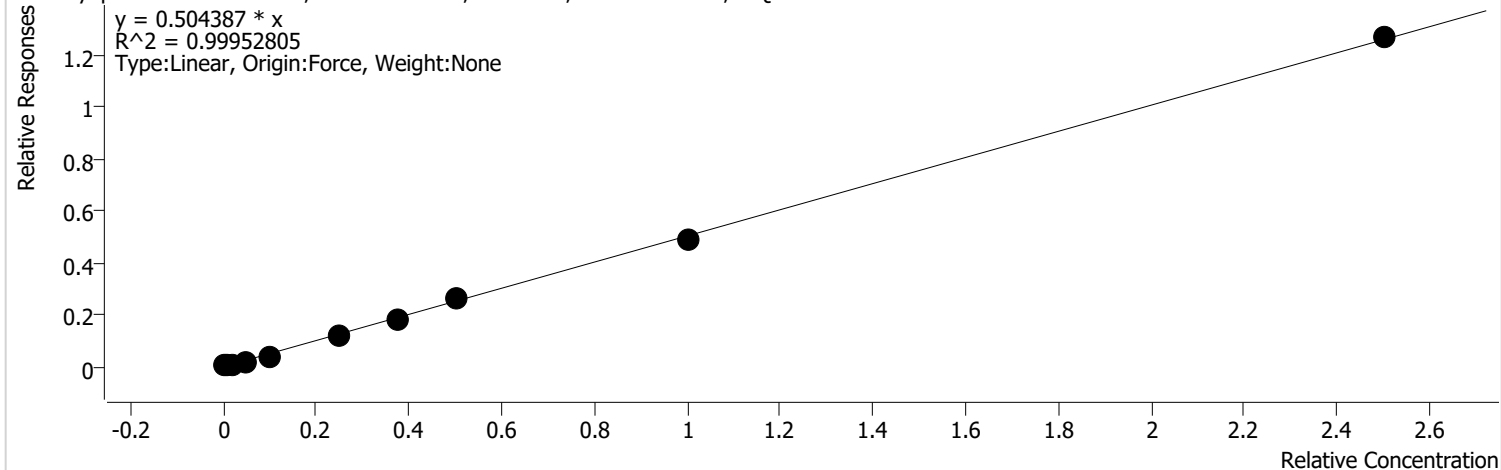
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C:\GC-14\Data\2023\072623\072612.D	Calibration	3	x	5397	40.0000	0.3582	
C:\GC-14\Data\2023\072623\072613.D	Calibration	4	x	13927	100.0000	0.3642	
C:\GC-14\Data\2023\072623\072614.D	Calibration	5	x	28795	200.0000	0.3705	
C:\GC-14\Data\2023\072623\072615.D	Calibration	6	x	86557	500.0000	0.4250	
C:\GC-14\Data\2023\072623\072616.D	Calibration	7	x	135975	750.0000	0.4427	
C:\GC-14\Data\2023\072623\072617.D	Calibration	8	x	186204	1000.0000	0.4647	
C:\GC-14\Data\2023\072623\072618.D	Calibration	9	x	375619	2000.0000	0.4333	
C:\GC-14\Data\2023\072623\072619.D	Calibration	10	x	962886	5000.0000	0.4420	

Calibration Report

Batch Path	C:\GC-14\Data\2023\072623\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	7/27/2023 9:49 AM	Reporter Name	FA\GC14
Report Time	7/27/2023 9:52:00 AM	Batch State	Processed
Last Calib Update	7/27/2023 9:48 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Dimethyl phthalate %RSE = 14.2

Dimethyl phthalate - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



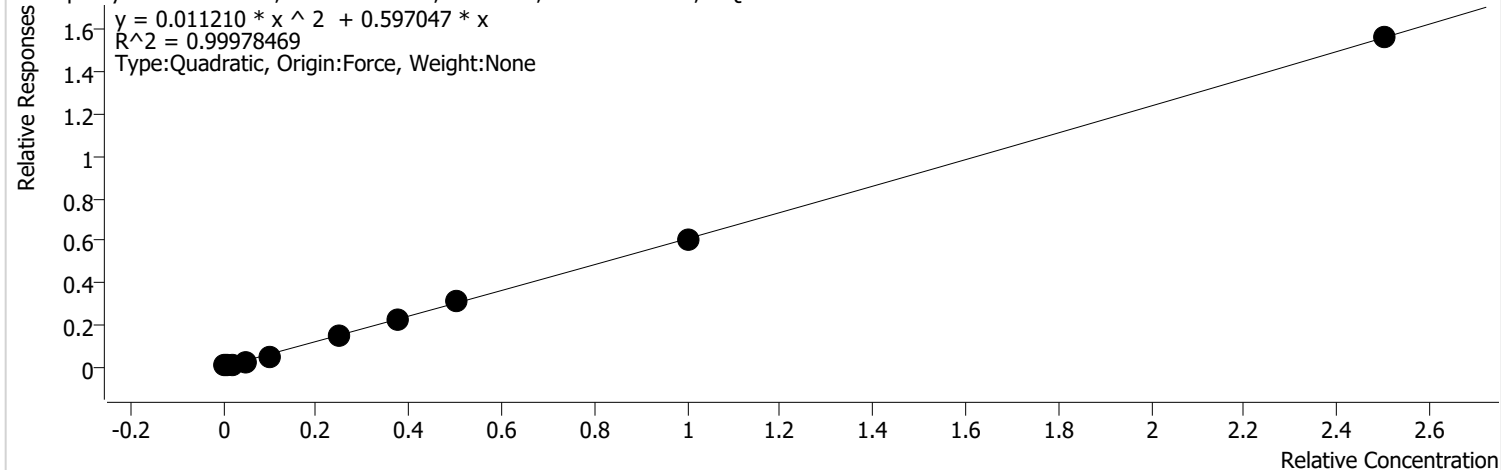
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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C:\GC-14\Data\2023\072623\072612.D	Calibration	3	x	6132	40.0000	0.4069	
C:\GC-14\Data\2023\072623\072613.D	Calibration	4	x	15170	100.0000	0.3966	
C:\GC-14\Data\2023\072623\072614.D	Calibration	5	x	31666	200.0000	0.4075	
C:\GC-14\Data\2023\072623\072615.D	Calibration	6	x	95312	500.0000	0.4680	
C:\GC-14\Data\2023\072623\072616.D	Calibration	7	x	152286	750.0000	0.4958	
C:\GC-14\Data\2023\072623\072617.D	Calibration	8	x	208468	1000.0000	0.5202	
C:\GC-14\Data\2023\072623\072618.D	Calibration	9	x	421768	2000.0000	0.4866	
C:\GC-14\Data\2023\072623\072619.D	Calibration	10	x	1105353	5000.0000	0.5074	

Calibration Report

Batch Path	C:\GC-14\Data\2023\072623\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	7/27/2023 9:49 AM	Reporter Name	FA\GC14
Report Time	7/27/2023 9:52:00 AM	Batch State	Processed
Last Calib Update	7/27/2023 9:48 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Acenaphthylene %RSE = 16.8

Acenaphthylene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs

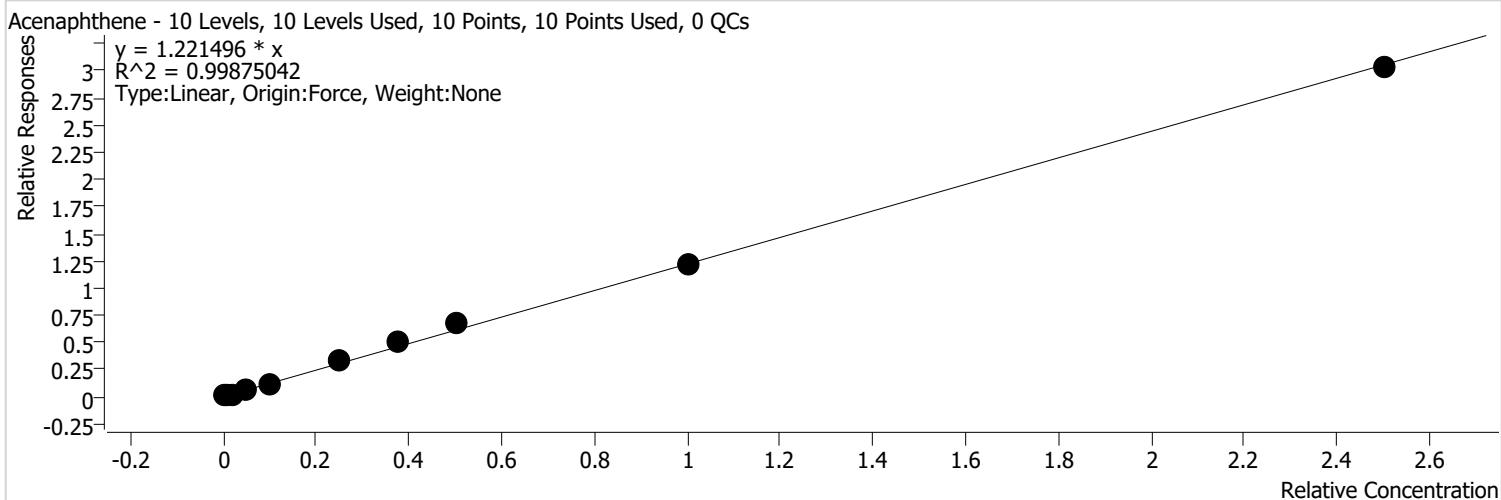


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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C:\GC-14\Data\2023\072623\072612.D	Calibration	3	x	7093	40.0000	0.4707	
C:\GC-14\Data\2023\072623\072613.D	Calibration	4	x	18278	100.0000	0.4779	
C:\GC-14\Data\2023\072623\072614.D	Calibration	5	x	37827	200.0000	0.4867	
C:\GC-14\Data\2023\072623\072615.D	Calibration	6	x	115698	500.0000	0.5681	
C:\GC-14\Data\2023\072623\072616.D	Calibration	7	x	183073	750.0000	0.5960	
C:\GC-14\Data\2023\072623\072617.D	Calibration	8	x	253128	1000.0000	0.6317	
C:\GC-14\Data\2023\072623\072618.D	Calibration	9	x	524420	2000.0000	0.6050	
C:\GC-14\Data\2023\072623\072619.D	Calibration	10	x	1361857	5000.0000	0.6251	

Calibration Report

Batch Path	C:\GC-14\Data\2023\072623\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	7/27/2023 9:49 AM	Reporter Name	FA\GC14
Report Time	7/27/2023 9:52:00 AM	Batch State	Processed
Last Calib Update	7/27/2023 9:48 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Acenaphthene %RSE = 7.9



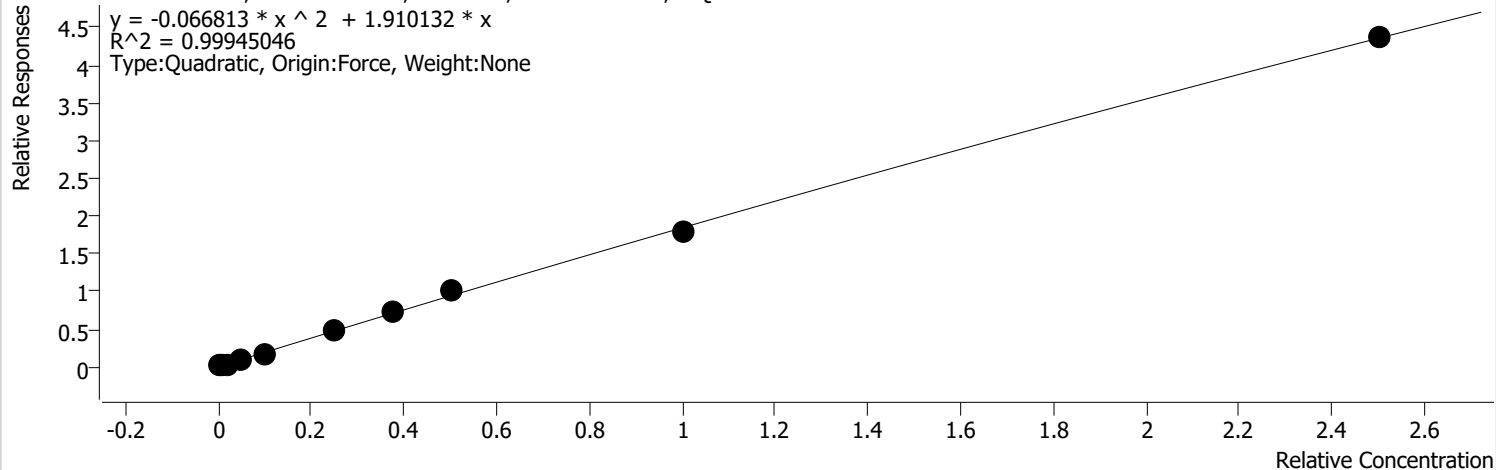
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C:\GC-14\Data\2023\072623\072612.D	Calibration	3	x	5641	40.0000	1.2845	
C:\GC-14\Data\2023\072623\072613.D	Calibration	4	x	13875	100.0000	1.2407	
C:\GC-14\Data\2023\072623\072614.D	Calibration	5	x	28474	200.0000	1.2355	
C:\GC-14\Data\2023\072623\072615.D	Calibration	6	x	84760	500.0000	1.3386	
C:\GC-14\Data\2023\072623\072616.D	Calibration	7	x	133162	750.0000	1.3545	
C:\GC-14\Data\2023\072623\072617.D	Calibration	8	x	181981	1000.0000	1.3745	
C:\GC-14\Data\2023\072623\072618.D	Calibration	9	x	366524	2000.0000	1.2223	
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Calibration Report

Batch Path	C:\GC-14\Data\2023\072623\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	7/27/2023 9:49 AM	Reporter Name	FA\GC14
Report Time	7/27/2023 9:52:00 AM	Batch State	Processed
Last Calib Update	7/27/2023 9:48 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Dibenzofuran %RSE = 5.5

Dibenzofuran - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



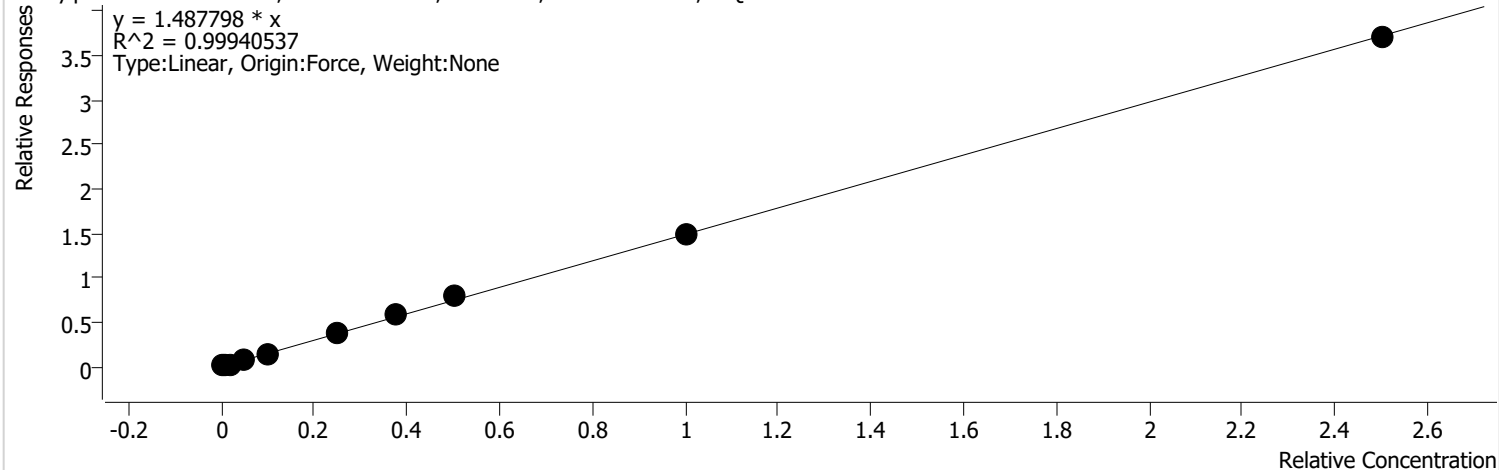
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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C:\GC-14\Data\2023\072623\072612.D	Calibration	3	x	8036	40.0000	1.8298	
C:\GC-14\Data\2023\072623\072613.D	Calibration	4	x	20037	100.0000	1.7917	
C:\GC-14\Data\2023\072623\072614.D	Calibration	5	x	41386	200.0000	1.7958	
C:\GC-14\Data\2023\072623\072615.D	Calibration	6	x	123739	500.0000	1.9541	
C:\GC-14\Data\2023\072623\072616.D	Calibration	7	x	194232	750.0000	1.9757	
C:\GC-14\Data\2023\072623\072617.D	Calibration	8	x	264479	1000.0000	1.9976	
C:\GC-14\Data\2023\072623\072618.D	Calibration	9	x	534230	2000.0000	1.7815	
C:\GC-14\Data\2023\072623\072619.D	Calibration	10	x	1358629	5000.0000	1.7457	

Calibration Report

Batch Path	C:\GC-14\Data\2023\072623\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	7/27/2023 9:49 AM	Reporter Name	FA\GC14
Report Time	7/27/2023 9:52:00 AM	Batch State	Processed
Last Calib Update	7/27/2023 9:48 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Diethylphthalate %RSE = 7.6

Diethylphthalate - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



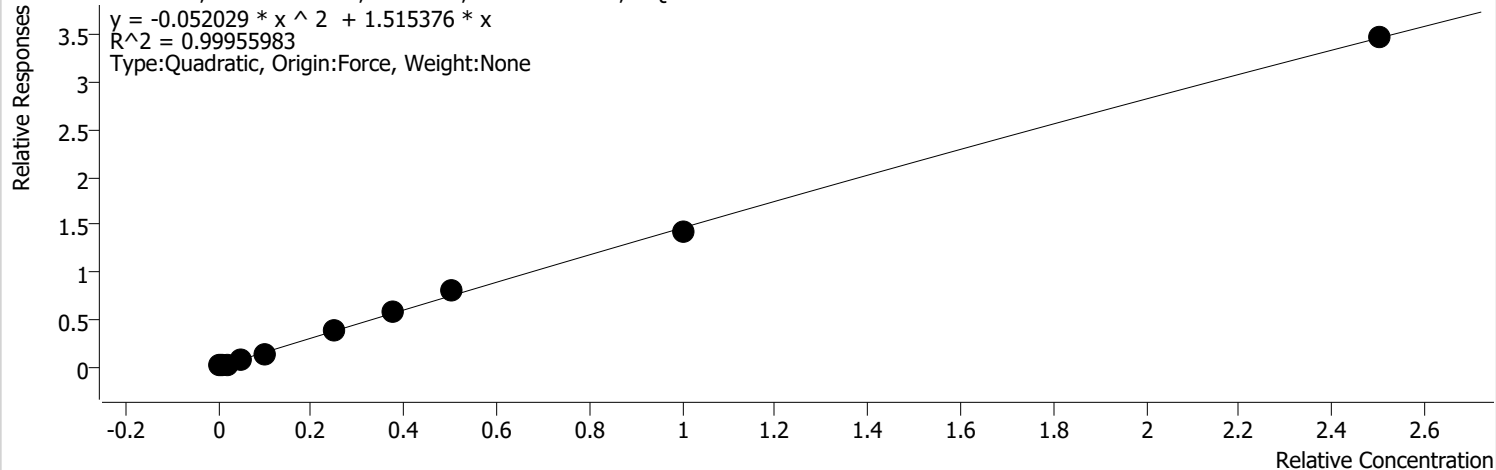
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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C:\GC-14\Data\2023\072623\072613.D	Calibration	4	x	14933	100.0000	1.3352	
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C:\GC-14\Data\2023\072623\072615.D	Calibration	6	x	96713	500.0000	1.5273	
C:\GC-14\Data\2023\072623\072616.D	Calibration	7	x	155556	750.0000	1.5823	
C:\GC-14\Data\2023\072623\072617.D	Calibration	8	x	215687	1000.0000	1.6291	
C:\GC-14\Data\2023\072623\072618.D	Calibration	9	x	446986	2000.0000	1.4906	
C:\GC-14\Data\2023\072623\072619.D	Calibration	10	x	1151416	5000.0000	1.4795	

Calibration Report

Batch Path	C:\GC-14\Data\2023\072623\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	7/27/2023 9:49 AM	Reporter Name	FA\GC14
Report Time	7/27/2023 9:52:00 AM	Batch State	Processed
Last Calib Update	7/27/2023 9:48 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Fluorene %RSE = 8.4

Fluorene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



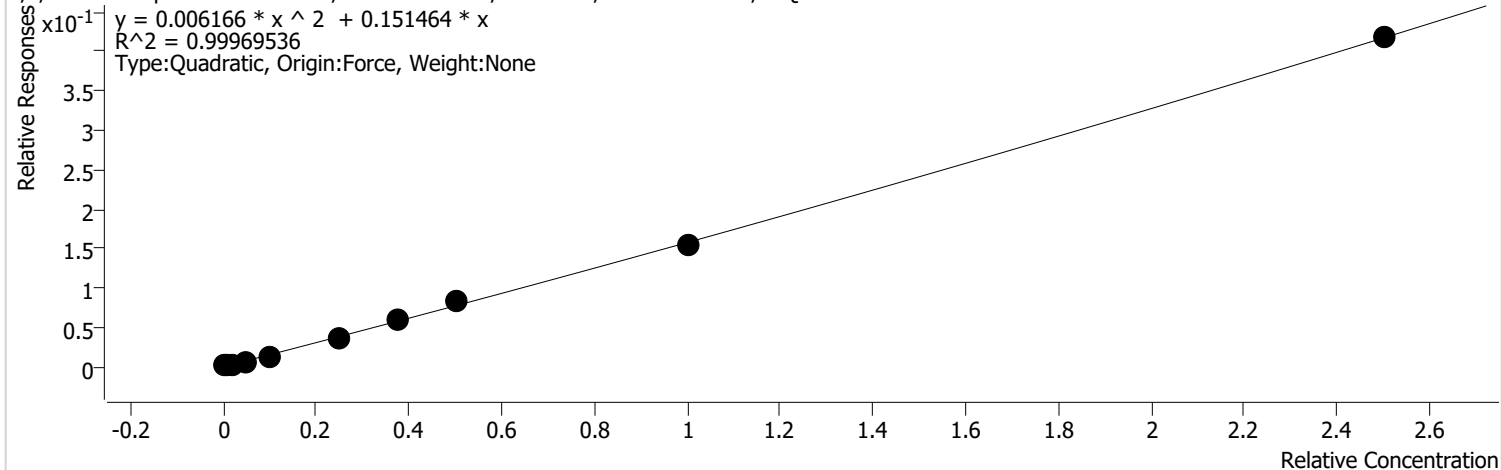
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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C:\GC-14\Data\2023\072623\072612.D	Calibration	3	x	5999	40.0000	1.3660	
C:\GC-14\Data\2023\072623\072613.D	Calibration	4	x	15144	100.0000	1.3541	
C:\GC-14\Data\2023\072623\072614.D	Calibration	5	x	31524	200.0000	1.3678	
C:\GC-14\Data\2023\072623\072615.D	Calibration	6	x	95513	500.0000	1.5084	
C:\GC-14\Data\2023\072623\072616.D	Calibration	7	x	152579	750.0000	1.5520	
C:\GC-14\Data\2023\072623\072617.D	Calibration	8	x	209706	1000.0000	1.5839	
C:\GC-14\Data\2023\072623\072618.D	Calibration	9	x	426753	2000.0000	1.4231	
C:\GC-14\Data\2023\072623\072619.D	Calibration	10	x	1079395	5000.0000	1.3869	

Calibration Report

Batch Path	C:\GC-14\Data\2023\072623\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	7/27/2023 9:49 AM	Reporter Name	FA\GC14
Report Time	7/27/2023 9:52:00 AM	Batch State	Processed
Last Calib Update	7/27/2023 9:48 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

2,4,6-Tribromophenol %RSE =

2,4,6-Tribromophenol - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



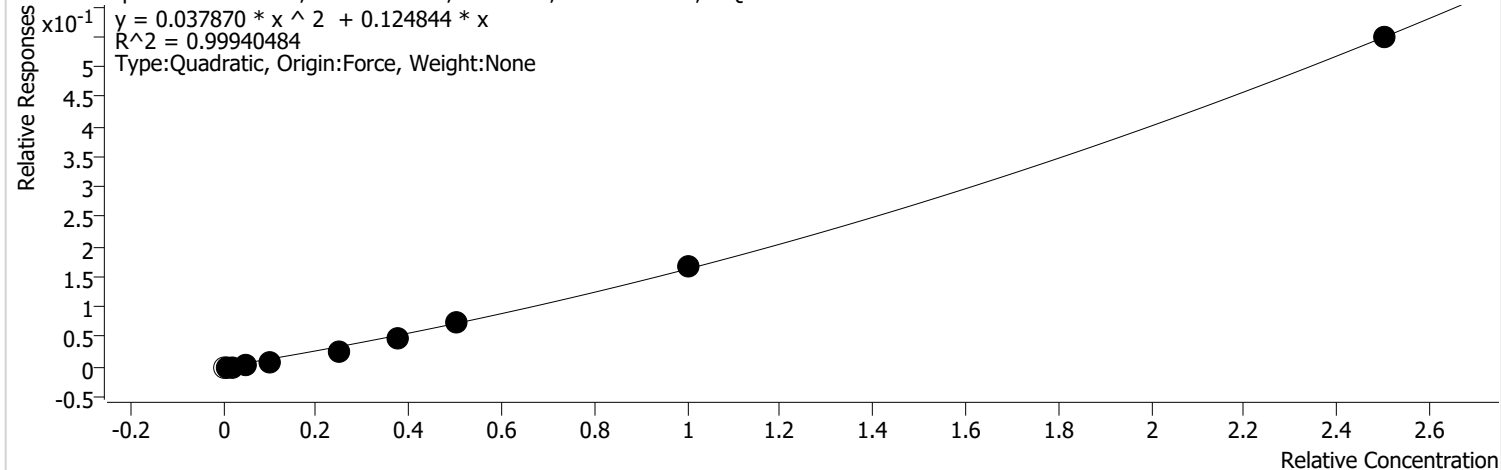
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\072623\072610.D	Calibration	1	x	150	10.0000	0.1332	
C:\GC-14\Data\2023\072623\072611.D	Calibration	2	x	272	20.0000	0.1212	
C:\GC-14\Data\2023\072623\072612.D	Calibration	3	x	520	40.0000	0.1185	
C:\GC-14\Data\2023\072623\072613.D	Calibration	4	x	1336	100.0000	0.1194	
C:\GC-14\Data\2023\072623\072614.D	Calibration	5	x	2837	200.0000	0.1231	
C:\GC-14\Data\2023\072623\072615.D	Calibration	6	x	9313	500.0000	0.1471	
C:\GC-14\Data\2023\072623\072616.D	Calibration	7	x	15479	750.0000	0.1575	
C:\GC-14\Data\2023\072623\072617.D	Calibration	8	x	21722	1000.0000	0.1641	
C:\GC-14\Data\2023\072623\072618.D	Calibration	9	x	46451	2000.0000	0.1549	
C:\GC-14\Data\2023\072623\072619.D	Calibration	10	x	129949	5000.0000	0.1670	

Calibration Report

Batch Path	C:\GC-14\Data\2023\072623\QuantResults\PAH ICAL.batch.bin		
Analysis Time	7/27/2023 9:49 AM	Analyst Name	FA\GC14
Report Time	7/27/2023 9:52:00 AM	Reporter Name	FA\GC14
Last Calib Update	7/27/2023 9:48 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Pentachlorophenol %RSE = 55.0

Pentachlorophenol - 10 Levels, 9 Levels Used, 10 Points, 9 Points Used, 0 QCs

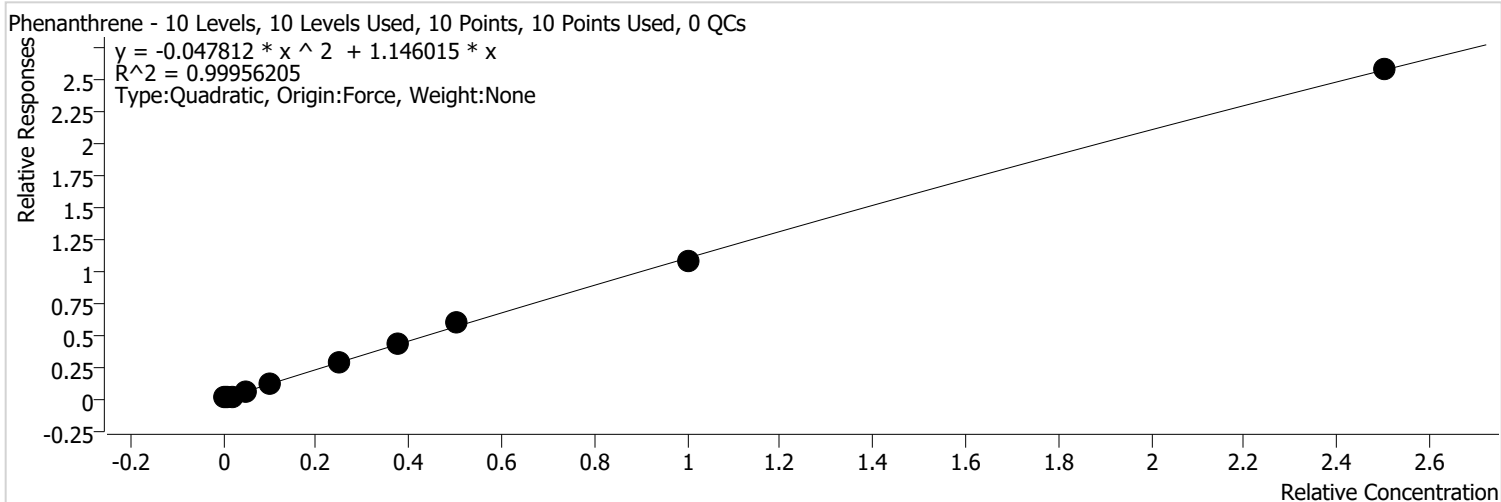


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\072623\072610.D	Calibration	1		51	10.0000	0.0453	
C:\GC-14\Data\2023\072623\072611.D	Calibration	2	x	74	20.0000	0.0331	
C:\GC-14\Data\2023\072623\072612.D	Calibration	3	x	147	40.0000	0.0334	
C:\GC-14\Data\2023\072623\072613.D	Calibration	4	x	514	100.0000	0.0460	
C:\GC-14\Data\2023\072623\072614.D	Calibration	5	x	1334	200.0000	0.0579	
C:\GC-14\Data\2023\072623\072615.D	Calibration	6	x	6718	500.0000	0.1061	
C:\GC-14\Data\2023\072623\072616.D	Calibration	7	x	12970	750.0000	0.1319	
C:\GC-14\Data\2023\072623\072617.D	Calibration	8	x	19571	1000.0000	0.1478	
C:\GC-14\Data\2023\072623\072618.D	Calibration	9	x	50069	2000.0000	0.1670	
C:\GC-14\Data\2023\072623\072619.D	Calibration	10	x	170651	5000.0000	0.2193	

Calibration Report

Batch Path	C:\GC-14\Data\2023\072623\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	7/27/2023 9:49 AM	Reporter Name	FA\GC14
Report Time	7/27/2023 9:52:00 AM	Batch State	Processed
Last Calib Update	7/27/2023 9:48 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Phenanthrene %RSE = 5.3



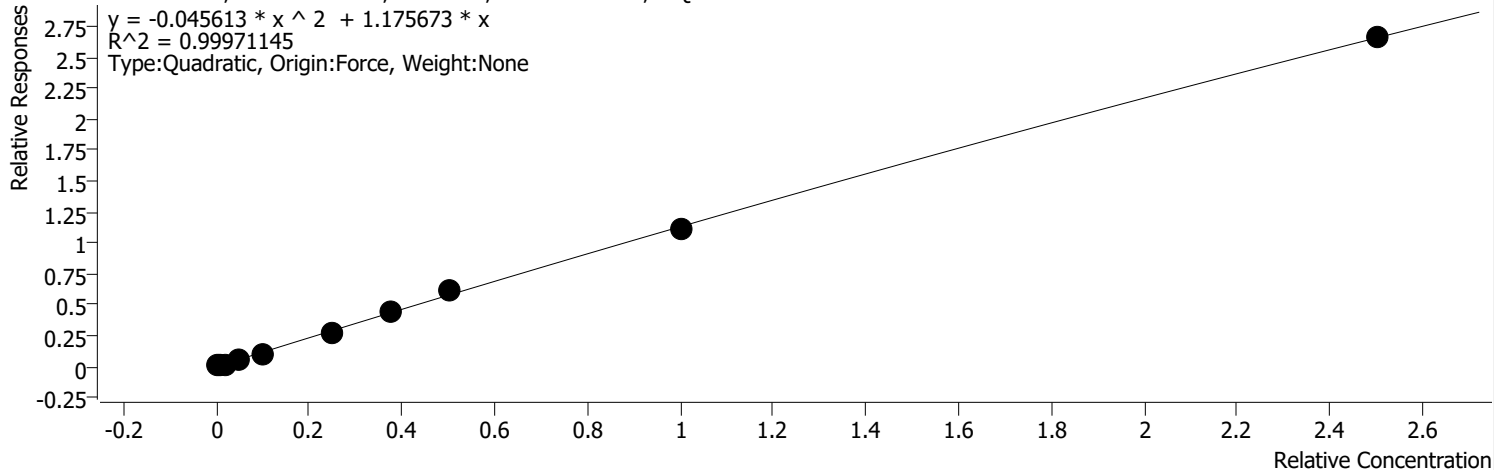
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\072623\072610.D	Calibration	1	x	2753	10.0000	1.1661	
C:\GC-14\Data\2023\072623\072611.D	Calibration	2	x	5201	20.0000	1.1007	
C:\GC-14\Data\2023\072623\072612.D	Calibration	3	x	9943	40.0000	1.0794	
C:\GC-14\Data\2023\072623\072613.D	Calibration	4	x	24589	100.0000	1.0599	
C:\GC-14\Data\2023\072623\072614.D	Calibration	5	x	51361	200.0000	1.0803	
C:\GC-14\Data\2023\072623\072615.D	Calibration	6	x	147203	500.0000	1.1523	
C:\GC-14\Data\2023\072623\072616.D	Calibration	7	x	231058	750.0000	1.1731	
C:\GC-14\Data\2023\072623\072617.D	Calibration	8	x	310224	1000.0000	1.1893	
C:\GC-14\Data\2023\072623\072618.D	Calibration	9	x	620628	2000.0000	1.0665	
C:\GC-14\Data\2023\072623\072619.D	Calibration	10	x	1590673	5000.0000	1.0278	

Calibration Report

Batch Path	C:\GC-14\Data\2023\072623\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	7/27/2023 9:49 AM	Reporter Name	FA\GC14
Report Time	7/27/2023 9:52:00 AM	Batch State	Processed
Last Calib Update	7/27/2023 9:48 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Anthracene %RSE = 14.5

Anthracene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



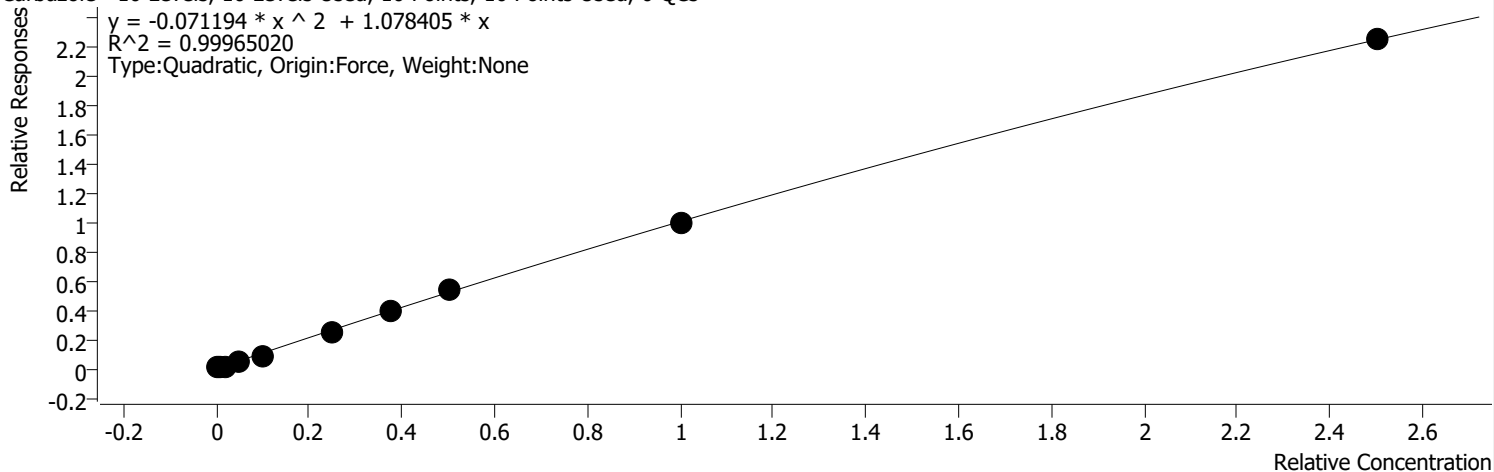
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\072623\072610.D	Calibration	1	x	2419	10.0000	1.0244	
C:\GC-14\Data\2023\072623\072611.D	Calibration	2	x	4570	20.0000	0.9672	
C:\GC-14\Data\2023\072623\072612.D	Calibration	3	x	8849	40.0000	0.9606	
C:\GC-14\Data\2023\072623\072613.D	Calibration	4	x	22183	100.0000	0.9562	
C:\GC-14\Data\2023\072623\072614.D	Calibration	5	x	46590	200.0000	0.9800	
C:\GC-14\Data\2023\072623\072615.D	Calibration	6	x	143423	500.0000	1.1227	
C:\GC-14\Data\2023\072623\072616.D	Calibration	7	x	230299	750.0000	1.1692	
C:\GC-14\Data\2023\072623\072617.D	Calibration	8	x	316680	1000.0000	1.2141	
C:\GC-14\Data\2023\072623\072618.D	Calibration	9	x	649182	2000.0000	1.1156	
C:\GC-14\Data\2023\072623\072619.D	Calibration	10	x	1643740	5000.0000	1.0621	

Calibration Report

Batch Path	C:\GC-14\Data\2023\072623\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	7/27/2023 9:49 AM	Reporter Name	FA\GC14
Report Time	7/27/2023 9:52:00 AM	Batch State	Processed
Last Calib Update	7/27/2023 9:48 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Carbazole %RSE = 18.8

Carbazole - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



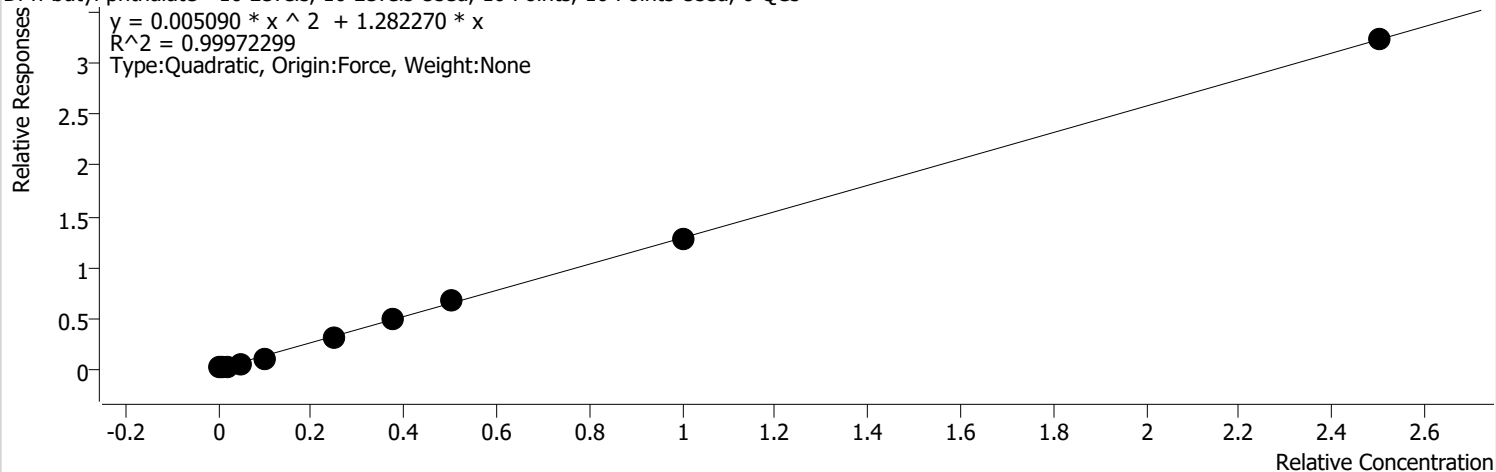
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\072623\072610.D	Calibration	1	x	2049	10.0000	0.8678	
C:\GC-14\Data\2023\072623\072611.D	Calibration	2	x	3914	20.0000	0.8284	
C:\GC-14\Data\2023\072623\072612.D	Calibration	3	x	7530	40.0000	0.8174	
C:\GC-14\Data\2023\072623\072613.D	Calibration	4	x	19233	100.0000	0.8291	
C:\GC-14\Data\2023\072623\072614.D	Calibration	5	x	40810	200.0000	0.8584	
C:\GC-14\Data\2023\072623\072615.D	Calibration	6	x	127449	500.0000	0.9977	
C:\GC-14\Data\2023\072623\072616.D	Calibration	7	x	208281	750.0000	1.0574	
C:\GC-14\Data\2023\072623\072617.D	Calibration	8	x	285036	1000.0000	1.0927	
C:\GC-14\Data\2023\072623\072618.D	Calibration	9	x	581905	2000.0000	1.0000	
C:\GC-14\Data\2023\072623\072619.D	Calibration	10	x	1393710	5000.0000	0.9005	

Calibration Report

Batch Path	C:\GC-14\Data\2023\072623\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	7/27/2023 9:49 AM	Reporter Name	FA\GC14
Report Time	7/27/2023 9:52:00 AM	Batch State	Processed
Last Calib Update	7/27/2023 9:48 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Di-n-butyl phthalate %RSE = 19.0

Di-n-butyl phthalate - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



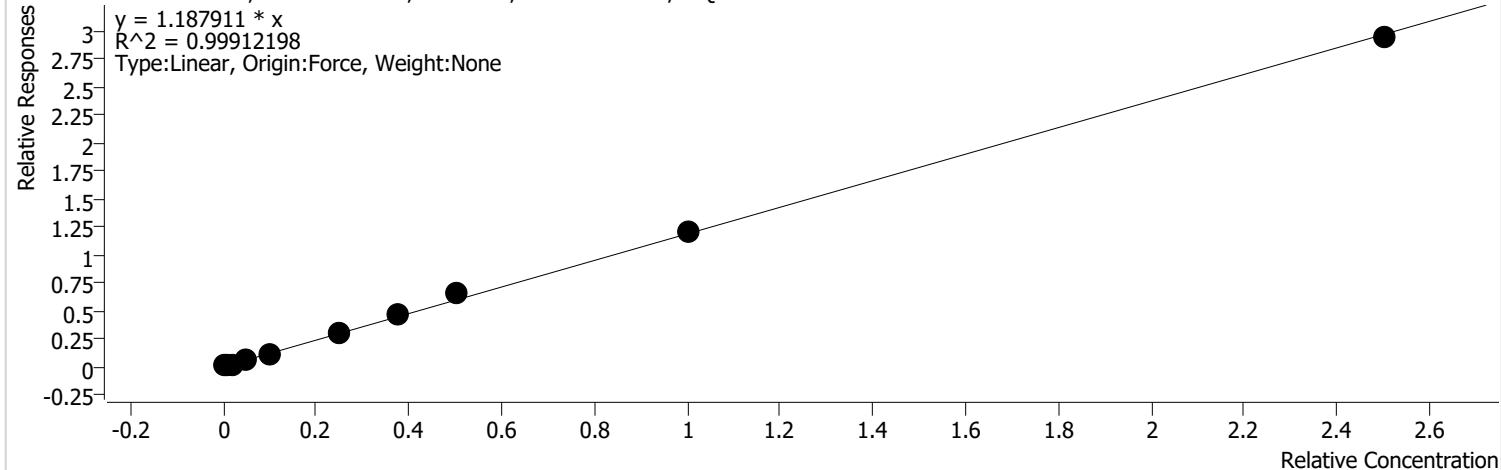
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\072623\072610.D	Calibration	1	x	2575	10.0000	1.0906	
C:\GC-14\Data\2023\072623\072611.D	Calibration	2	x	4709	20.0000	0.9966	
C:\GC-14\Data\2023\072623\072612.D	Calibration	3	x	8977	40.0000	0.9745	
C:\GC-14\Data\2023\072623\072613.D	Calibration	4	x	22199	100.0000	0.9569	
C:\GC-14\Data\2023\072623\072614.D	Calibration	5	x	47333	200.0000	0.9956	
C:\GC-14\Data\2023\072623\072615.D	Calibration	6	x	151820	500.0000	1.1884	
C:\GC-14\Data\2023\072623\072616.D	Calibration	7	x	252674	750.0000	1.2828	
C:\GC-14\Data\2023\072623\072617.D	Calibration	8	x	350000	1000.0000	1.3418	
C:\GC-14\Data\2023\072623\072618.D	Calibration	9	x	747045	2000.0000	1.2837	
C:\GC-14\Data\2023\072623\072619.D	Calibration	10	x	2004016	5000.0000	1.2949	

Calibration Report

Batch Path	C:\GC-14\Data\2023\072623\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	7/27/2023 9:49 AM	Reporter Name	FA\GC14
Report Time	7/27/2023 9:52:00 AM	Batch State	Processed
Last Calib Update	7/27/2023 9:48 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Fluoranthene %RSE = 9.9

Fluoranthene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs

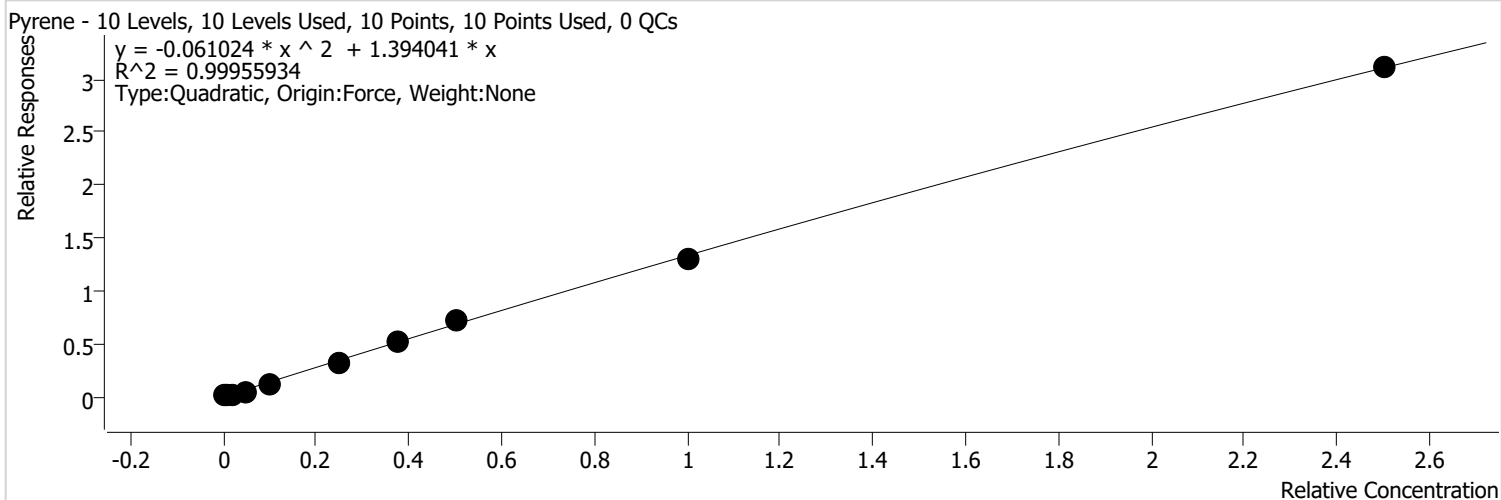


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\072623\072610.D	Calibration	1	x	2608	10.0000	1.1044	
C:\GC-14\Data\2023\072623\072611.D	Calibration	2	x	4968	20.0000	1.0515	
C:\GC-14\Data\2023\072623\072612.D	Calibration	3	x	9535	40.0000	1.0351	
C:\GC-14\Data\2023\072623\072613.D	Calibration	4	x	23975	100.0000	1.0335	
C:\GC-14\Data\2023\072623\072614.D	Calibration	5	x	50587	200.0000	1.0640	
C:\GC-14\Data\2023\072623\072615.D	Calibration	6	x	153951	500.0000	1.2051	
C:\GC-14\Data\2023\072623\072616.D	Calibration	7	x	249502	750.0000	1.2667	
C:\GC-14\Data\2023\072623\072617.D	Calibration	8	x	341699	1000.0000	1.3100	
C:\GC-14\Data\2023\072623\072618.D	Calibration	9	x	709293	2000.0000	1.2189	
C:\GC-14\Data\2023\072623\072619.D	Calibration	10	x	1820641	5000.0000	1.1764	

Calibration Report

Batch Path	C:\GC-14\Data\2023\072623\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	7/27/2023 9:49 AM	Reporter Name	FA\GC14
Report Time	7/27/2023 9:52:00 AM	Batch State	Processed
Last Calib Update	7/27/2023 9:48 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Pyrene %RSE = 17.0



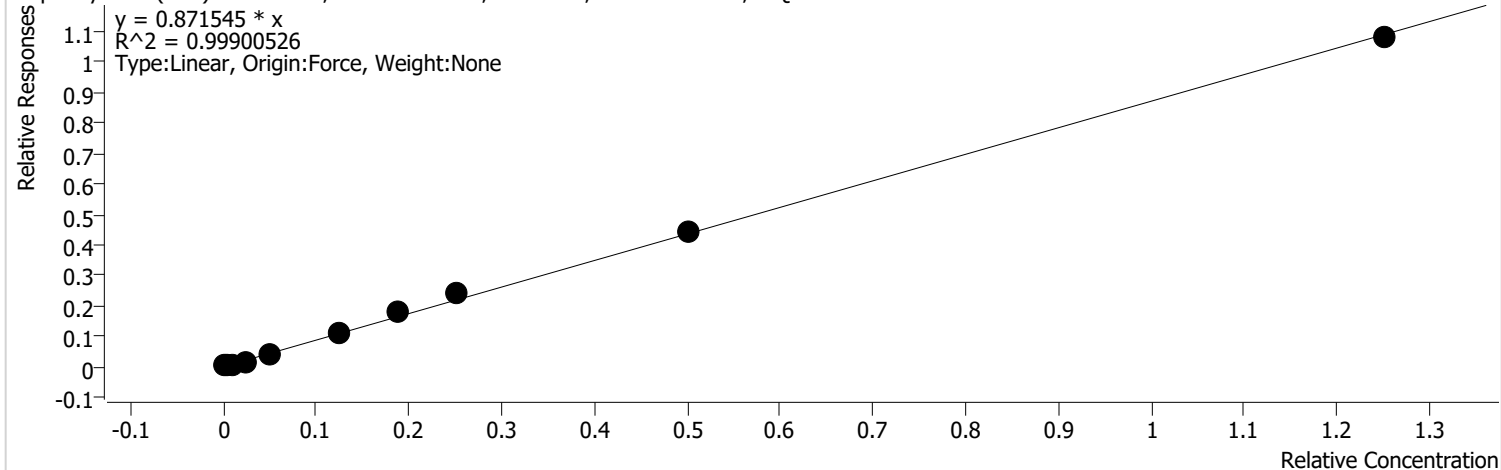
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\072623\072610.D	Calibration	1	x	2780	10.0000	1.1773	
C:\GC-14\Data\2023\072623\072611.D	Calibration	2	x	5285	20.0000	1.1184	
C:\GC-14\Data\2023\072623\072612.D	Calibration	3	x	10024	40.0000	1.0881	
C:\GC-14\Data\2023\072623\072613.D	Calibration	4	x	25276	100.0000	1.0895	
C:\GC-14\Data\2023\072623\072614.D	Calibration	5	x	53290	200.0000	1.1209	
C:\GC-14\Data\2023\072623\072615.D	Calibration	6	x	166202	500.0000	1.3010	
C:\GC-14\Data\2023\072623\072616.D	Calibration	7	x	275151	750.0000	1.3969	
C:\GC-14\Data\2023\072623\072617.D	Calibration	8	x	378019	1000.0000	1.4492	
C:\GC-14\Data\2023\072623\072618.D	Calibration	9	x	763710	2000.0000	1.3124	
C:\GC-14\Data\2023\072623\072619.D	Calibration	10	x	1922358	5000.0000	1.2421	

Calibration Report

Batch Path	C:\GC-14\Data\2023\072623\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	7/27/2023 9:49 AM	Reporter Name	FA\GC14
Report Time	7/27/2023 9:52:00 AM	Batch State	Processed
Last Calib Update	7/27/2023 9:48 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Terphenyl-d14 (surr) %RSE =

Terphenyl-d14 (surr) - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



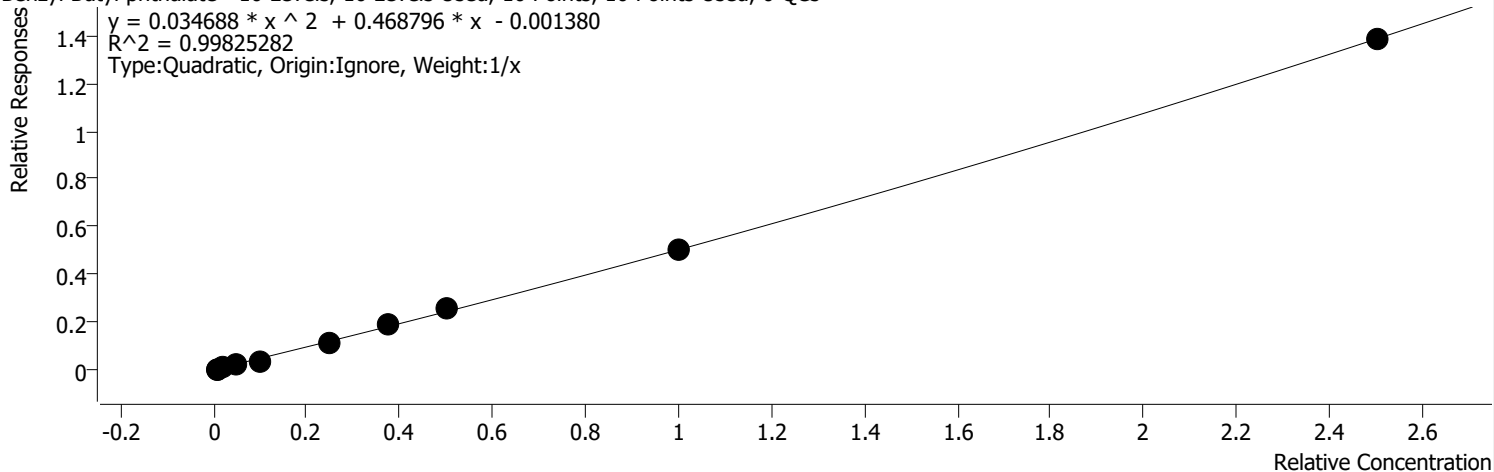
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\072623\072610.D	Calibration	1	x	918	5.0000	0.7776	
C:\GC-14\Data\2023\072623\072611.D	Calibration	2	x	1768	10.0000	0.7483	
C:\GC-14\Data\2023\072623\072612.D	Calibration	3	x	3409	20.0000	0.7400	
C:\GC-14\Data\2023\072623\072613.D	Calibration	4	x	8551	50.0000	0.7372	
C:\GC-14\Data\2023\072623\072614.D	Calibration	5	x	18007	100.0000	0.7575	
C:\GC-14\Data\2023\072623\072615.D	Calibration	6	x	56488	250.0000	0.8844	
C:\GC-14\Data\2023\072623\072616.D	Calibration	7	x	93294	375.0000	0.9473	
C:\GC-14\Data\2023\072623\072617.D	Calibration	8	x	126545	500.0000	0.9703	
C:\GC-14\Data\2023\072623\072618.D	Calibration	9	x	257856	1000.0000	0.8862	
C:\GC-14\Data\2023\072623\072619.D	Calibration	10	x	668317	2500.0000	0.8637	

Calibration Report

Batch Path	C:\GC-14\Data\2023\072623\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	7/27/2023 9:49 AM	Reporter Name	FA\GC14
Report Time	7/27/2023 9:52:00 AM	Batch State	Processed
Last Calib Update	7/27/2023 9:48 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Benzyl Butyl phthalate %RSE = 19.0

Benzyl Butyl phthalate - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



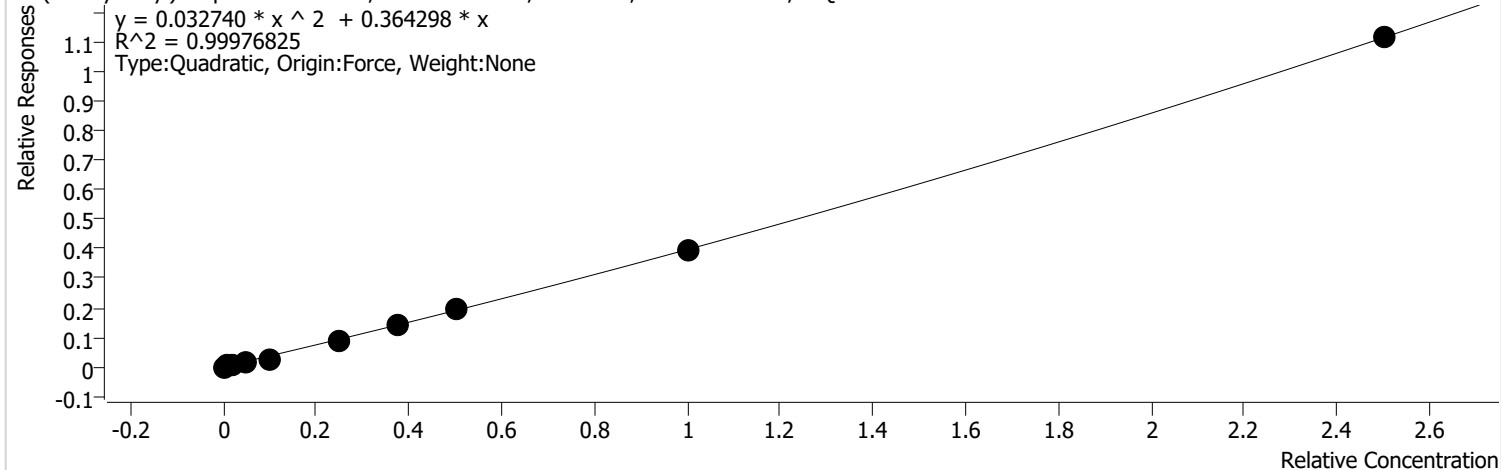
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\072623\072610.D	Calibration	1	x	888	10.0000	0.3759	
C:\GC-14\Data\2023\072623\072611.D	Calibration	2	x	1710	20.0000	0.3619	
C:\GC-14\Data\2023\072623\072612.D	Calibration	3	x	3200	40.0000	0.3473	
C:\GC-14\Data\2023\072623\072613.D	Calibration	4	x	8073	100.0000	0.3480	
C:\GC-14\Data\2023\072623\072614.D	Calibration	5	x	17496	200.0000	0.3680	
C:\GC-14\Data\2023\072623\072615.D	Calibration	6	x	57631	500.0000	0.4511	
C:\GC-14\Data\2023\072623\072616.D	Calibration	7	x	96861	750.0000	0.4918	
C:\GC-14\Data\2023\072623\072617.D	Calibration	8	x	134608	1000.0000	0.5160	
C:\GC-14\Data\2023\072623\072618.D	Calibration	9	x	292620	2000.0000	0.5028	
C:\GC-14\Data\2023\072623\072619.D	Calibration	10	x	856807	5000.0000	0.5536	

Calibration Report

Batch Path	C:\GC-14\Data\2023\072623\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	7/27/2023 9:49 AM	Reporter Name	FA\GC14
Report Time	7/27/2023 9:52:00 AM	Batch State	Processed
Last Calib Update	7/27/2023 9:48 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

bis (2-Ethylhexyl) adipate %RSE = 22.9

bis (2-Ethylhexyl) adipate - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



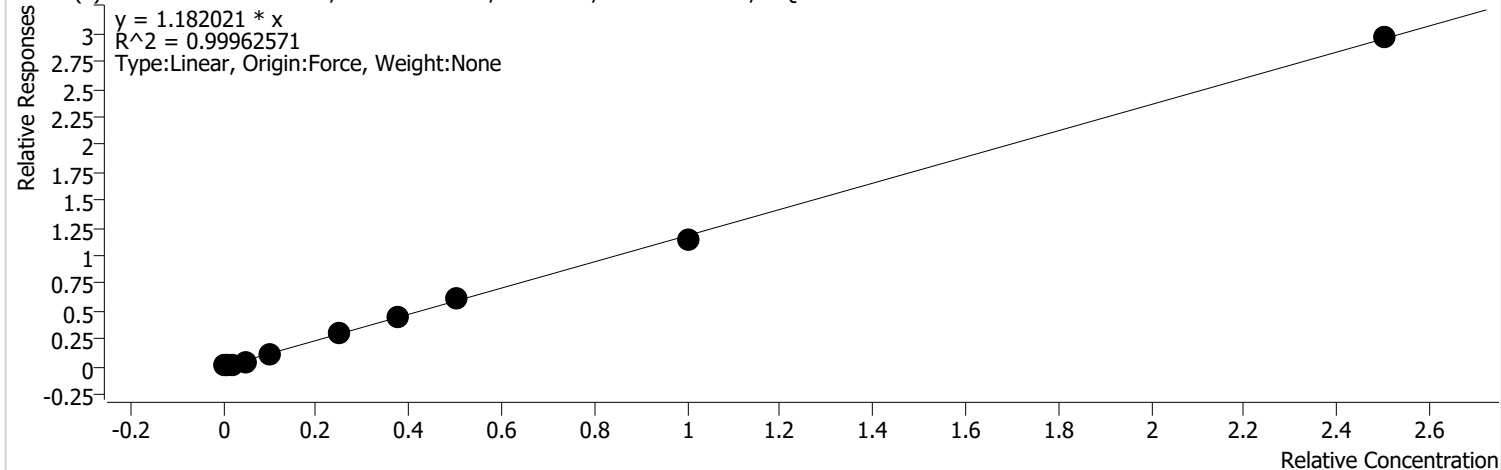
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\072623\072610.D	Calibration	1	x	709	10.0000	0.3001	
C:\GC-14\Data\2023\072623\072611.D	Calibration	2	x	1238	20.0000	0.2619	
C:\GC-14\Data\2023\072623\072612.D	Calibration	3	x	2375	40.0000	0.2578	
C:\GC-14\Data\2023\072623\072613.D	Calibration	4	x	5886	100.0000	0.2537	
C:\GC-14\Data\2023\072623\072614.D	Calibration	5	x	12829	200.0000	0.2698	
C:\GC-14\Data\2023\072623\072615.D	Calibration	6	x	43547	500.0000	0.3409	
C:\GC-14\Data\2023\072623\072616.D	Calibration	7	x	73973	750.0000	0.3756	
C:\GC-14\Data\2023\072623\072617.D	Calibration	8	x	103109	1000.0000	0.3953	
C:\GC-14\Data\2023\072623\072618.D	Calibration	9	x	231284	2000.0000	0.3974	
C:\GC-14\Data\2023\072623\072619.D	Calibration	10	x	690317	5000.0000	0.4460	

Calibration Report

Batch Path	C:\GC-14\Data\2023\072623\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	7/27/2023 9:49 AM	Reporter Name	FA\GC14
Report Time	7/27/2023 9:52:00 AM	Batch State	Processed
Last Calib Update	7/27/2023 9:48 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Benzo (a) anthracene %RSE = 15.3

Benzo (a) anthracene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs

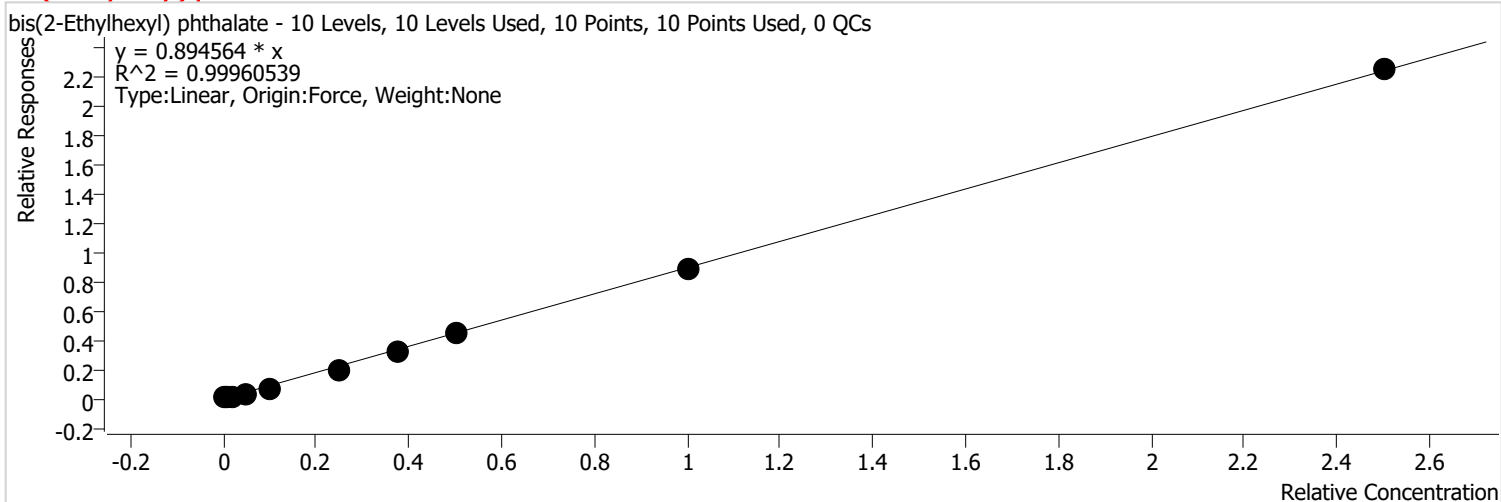


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\072623\072610.D	Calibration	1	x	3866	10.0000	1.6372	
C:\GC-14\Data\2023\072623\072611.D	Calibration	2	x	6046	20.0000	1.2796	
C:\GC-14\Data\2023\072623\072612.D	Calibration	3	x	10277	40.0000	1.1156	
C:\GC-14\Data\2023\072623\072613.D	Calibration	4	x	24044	100.0000	1.0364	
C:\GC-14\Data\2023\072623\072614.D	Calibration	5	x	50331	200.0000	1.0586	
C:\GC-14\Data\2023\072623\072615.D	Calibration	6	x	150677	500.0000	1.1795	
C:\GC-14\Data\2023\072623\072616.D	Calibration	7	x	239764	750.0000	1.2173	
C:\GC-14\Data\2023\072623\072617.D	Calibration	8	x	321236	1000.0000	1.2315	
C:\GC-14\Data\2023\072623\072618.D	Calibration	9	x	663701	2000.0000	1.1405	
C:\GC-14\Data\2023\072623\072619.D	Calibration	10	x	1835756	5000.0000	1.1862	

Calibration Report

Batch Path	C:\GC-14\Data\2023\072623\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	7/27/2023 9:49 AM	Reporter Name	FA\GC14
Report Time	7/27/2023 9:52:00 AM	Batch State	Processed
Last Calib Update	7/27/2023 9:48 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

bis(2-Ethylhexyl) phthalate %RSE = 21.7



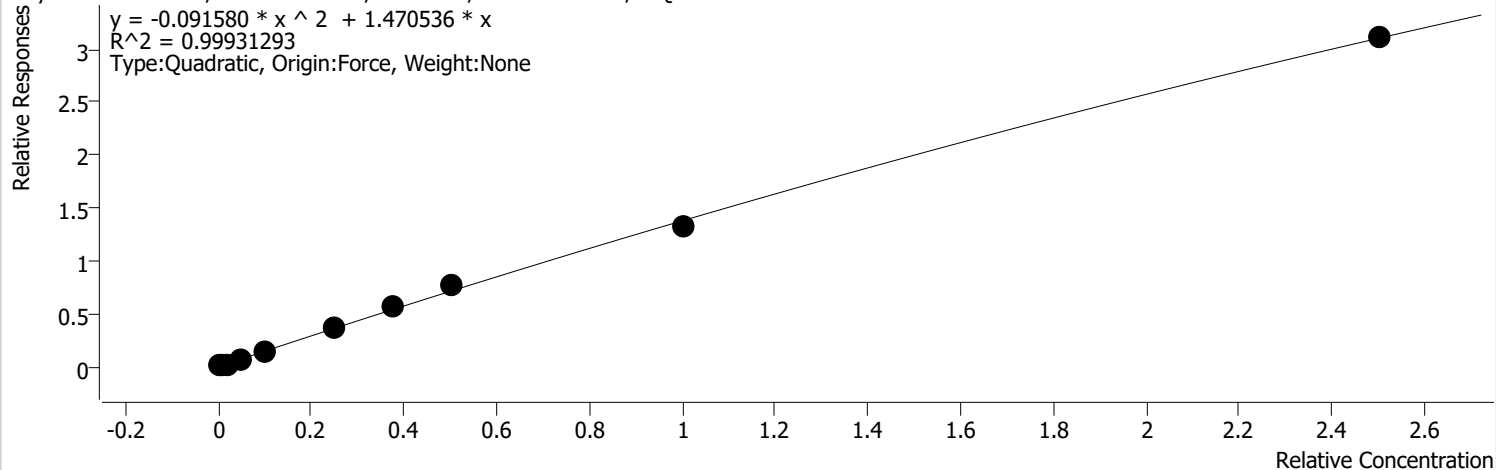
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\072623\072610.D	Calibration	1	x	1496	10.0000	0.7370	
C:\GC-14\Data\2023\072623\072611.D	Calibration	2	x	2678	20.0000	0.6574	
C:\GC-14\Data\2023\072623\072612.D	Calibration	3	x	4931	40.0000	0.6249	
C:\GC-14\Data\2023\072623\072613.D	Calibration	4	x	12445	100.0000	0.6167	
C:\GC-14\Data\2023\072623\072614.D	Calibration	5	x	27199	200.0000	0.6433	
C:\GC-14\Data\2023\072623\072615.D	Calibration	6	x	93745	500.0000	0.8104	
C:\GC-14\Data\2023\072623\072616.D	Calibration	7	x	158084	750.0000	0.8776	
C:\GC-14\Data\2023\072623\072617.D	Calibration	8	x	220310	1000.0000	0.9159	
C:\GC-14\Data\2023\072623\072618.D	Calibration	9	x	491809	2000.0000	0.8801	
C:\GC-14\Data\2023\072623\072619.D	Calibration	10	x	1353015	5000.0000	0.8978	

Calibration Report

Batch Path	C:\GC-14\Data\2023\072623\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	7/27/2023 9:49 AM	Reporter Name	FA\GC14
Report Time	7/27/2023 9:52:00 AM	Batch State	Processed
Last Calib Update	7/27/2023 9:48 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Chrysene %RSE = 7.5

Chrysene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs

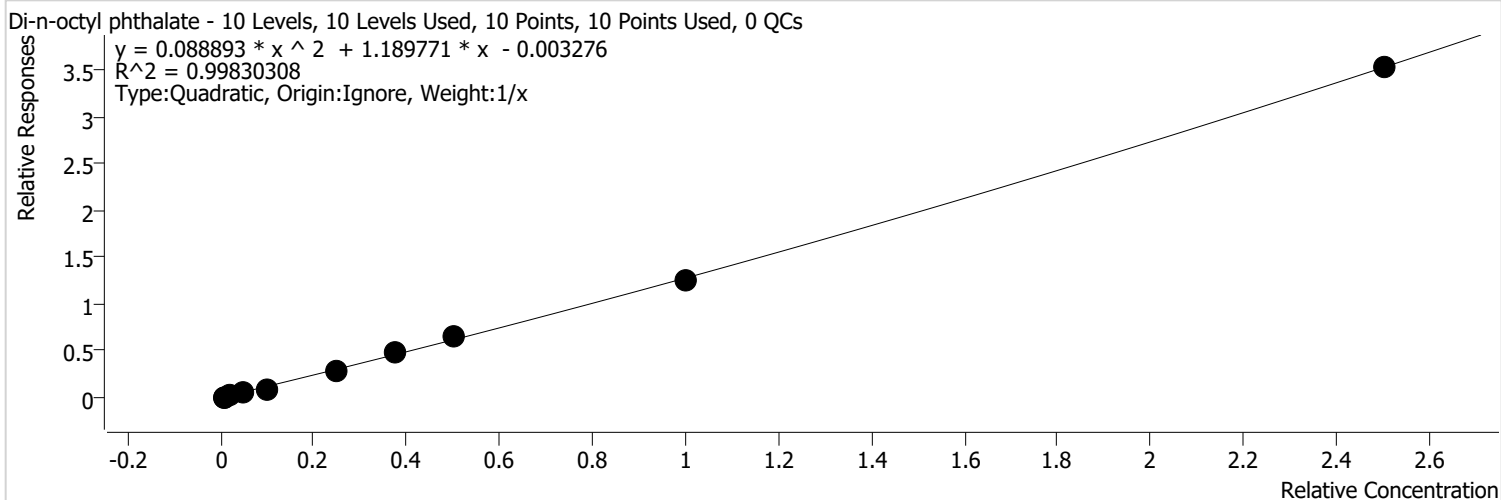


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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C:\GC-14\Data\2023\072623\072611.D	Calibration	2	x	5642	20.0000	1.3849	
C:\GC-14\Data\2023\072623\072612.D	Calibration	3	x	10499	40.0000	1.3305	
C:\GC-14\Data\2023\072623\072613.D	Calibration	4	x	26745	100.0000	1.3254	
C:\GC-14\Data\2023\072623\072614.D	Calibration	5	x	56532	200.0000	1.3370	
C:\GC-14\Data\2023\072623\072615.D	Calibration	6	x	169533	500.0000	1.4656	
C:\GC-14\Data\2023\072623\072616.D	Calibration	7	x	272894	750.0000	1.5149	
C:\GC-14\Data\2023\072623\072617.D	Calibration	8	x	366308	1000.0000	1.5229	
C:\GC-14\Data\2023\072623\072618.D	Calibration	9	x	744061	2000.0000	1.3315	
C:\GC-14\Data\2023\072623\072619.D	Calibration	10	x	1874131	5000.0000	1.2436	

Calibration Report

Batch Path	C:\GC-14\Data\2023\072623\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	7/27/2023 9:49 AM	Reporter Name	FA\GC14
Report Time	7/27/2023 9:52:00 AM	Batch State	Processed
Last Calib Update	7/27/2023 9:48 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Di-n-octyl phthalate %RSE = 18.0



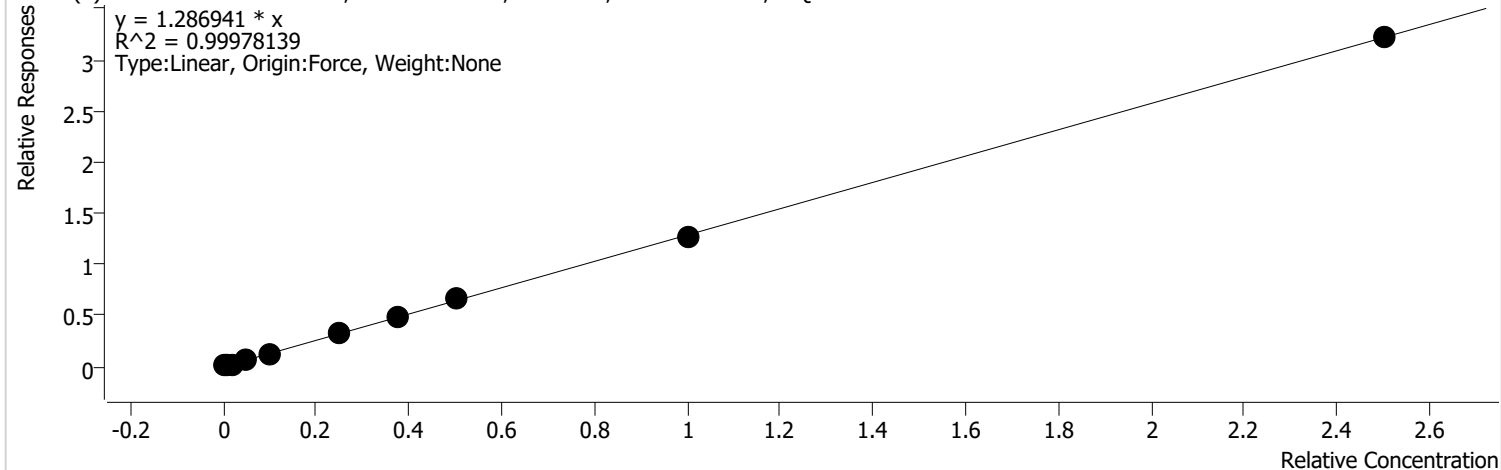
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\072623\072610.D	Calibration	1	x	1982	10.0000	0.9764	
C:\GC-14\Data\2023\072623\072611.D	Calibration	2	x	3712	20.0000	0.9112	
C:\GC-14\Data\2023\072623\072612.D	Calibration	3	x	7163	40.0000	0.9078	
C:\GC-14\Data\2023\072623\072613.D	Calibration	4	x	18265	100.0000	0.9051	
C:\GC-14\Data\2023\072623\072614.D	Calibration	5	x	39684	200.0000	0.9385	
C:\GC-14\Data\2023\072623\072615.D	Calibration	6	x	134629	500.0000	1.1638	
C:\GC-14\Data\2023\072623\072616.D	Calibration	7	x	227134	750.0000	1.2609	
C:\GC-14\Data\2023\072623\072617.D	Calibration	8	x	315791	1000.0000	1.3129	
C:\GC-14\Data\2023\072623\072618.D	Calibration	9	x	704712	2000.0000	1.2611	
C:\GC-14\Data\2023\072623\072619.D	Calibration	10	x	2123956	5000.0000	1.4093	

Calibration Report

Batch Path	C:\GC-14\Data\2023\072623\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	7/27/2023 9:49 AM	Reporter Name	FA\GC14
Report Time	7/27/2023 9:52:00 AM	Batch State	Processed
Last Calib Update	7/27/2023 9:48 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

benzo (b) fluoranthene %RSE = 6.7

benzo (b) fluoranthene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



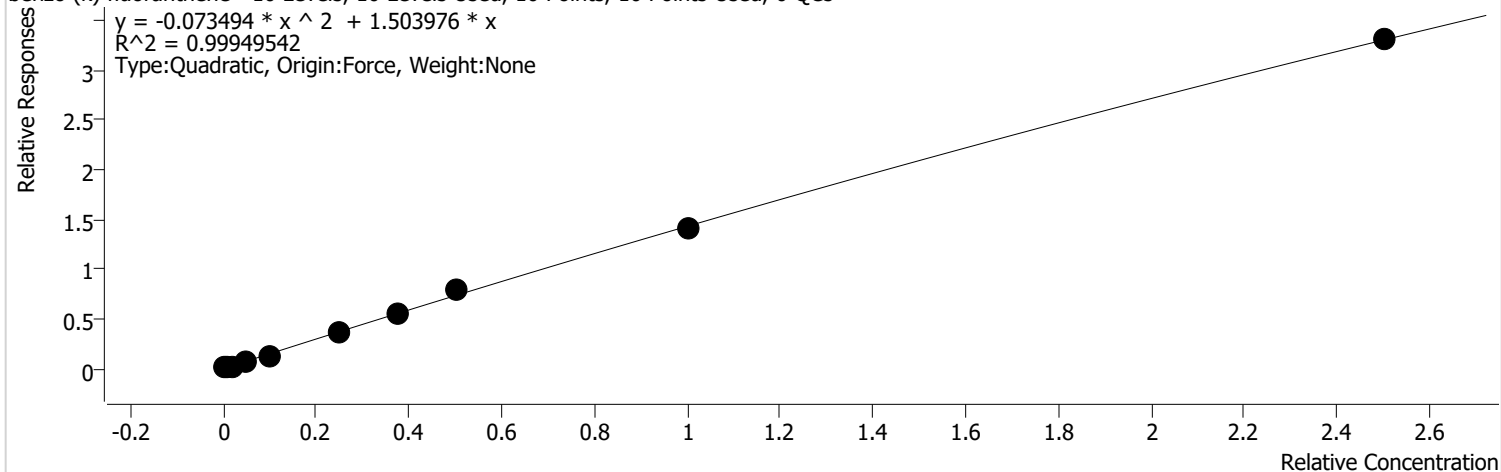
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\072623\072610.D	Calibration	1	x	2550	10.0000	1.2560	
C:\GC-14\Data\2023\072623\072611.D	Calibration	2	x	4814	20.0000	1.1817	
C:\GC-14\Data\2023\072623\072612.D	Calibration	3	x	9161	40.0000	1.1610	
C:\GC-14\Data\2023\072623\072613.D	Calibration	4	x	23554	100.0000	1.1673	
C:\GC-14\Data\2023\072623\072614.D	Calibration	5	x	50654	200.0000	1.1980	
C:\GC-14\Data\2023\072623\072615.D	Calibration	6	x	153937	500.0000	1.3308	
C:\GC-14\Data\2023\072623\072616.D	Calibration	7	x	239851	750.0000	1.3315	
C:\GC-14\Data\2023\072623\072617.D	Calibration	8	x	325261	1000.0000	1.3523	
C:\GC-14\Data\2023\072623\072618.D	Calibration	9	x	708568	2000.0000	1.2680	
C:\GC-14\Data\2023\072623\072619.D	Calibration	10	x	1938265	5000.0000	1.2861	

Calibration Report

Batch Path	C:\GC-14\Data\2023\072623\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	7/27/2023 9:49 AM	Reporter Name	FA\GC14
Report Time	7/27/2023 9:52:00 AM	Batch State	Processed
Last Calib Update	7/27/2023 9:48 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

benzo (k) fluoranthene %RSE = 13.9

benzo (k) fluoranthene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



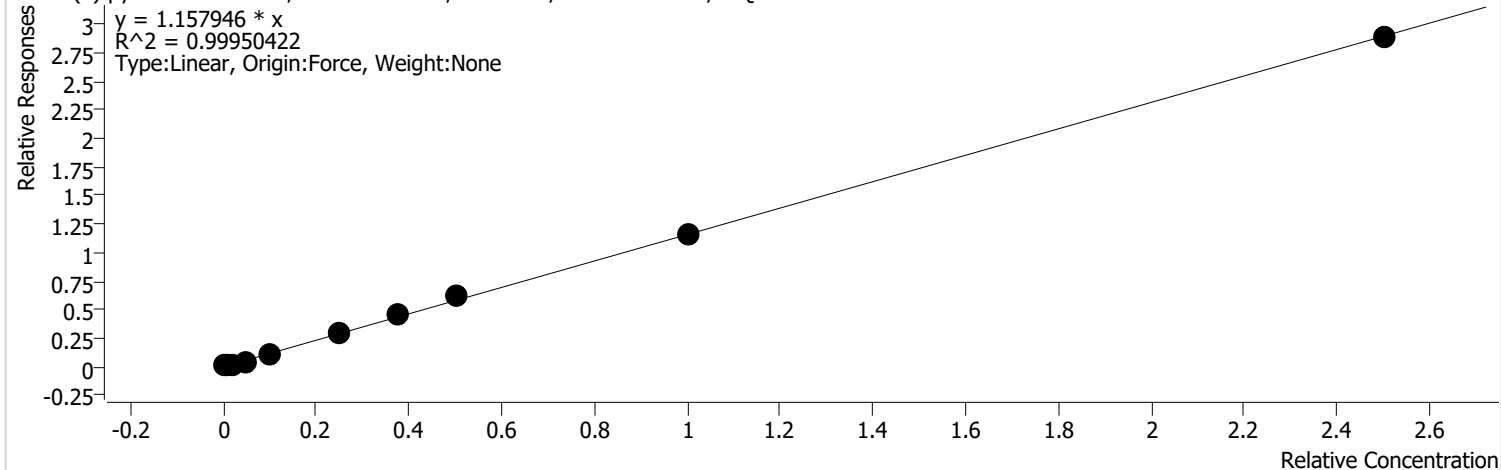
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\072623\072610.D	Calibration	1	x	2614	10.0000	1.2875	
C:\GC-14\Data\2023\072623\072611.D	Calibration	2	x	5115	20.0000	1.2555	
C:\GC-14\Data\2023\072623\072612.D	Calibration	3	x	9905	40.0000	1.2553	
C:\GC-14\Data\2023\072623\072613.D	Calibration	4	x	24959	100.0000	1.2369	
C:\GC-14\Data\2023\072623\072614.D	Calibration	5	x	53800	200.0000	1.2724	
C:\GC-14\Data\2023\072623\072615.D	Calibration	6	x	166427	500.0000	1.4387	
C:\GC-14\Data\2023\072623\072616.D	Calibration	7	x	272192	750.0000	1.5110	
C:\GC-14\Data\2023\072623\072617.D	Calibration	8	x	378069	1000.0000	1.5718	
C:\GC-14\Data\2023\072623\072618.D	Calibration	9	x	781199	2000.0000	1.3980	
C:\GC-14\Data\2023\072623\072619.D	Calibration	10	x	1991486	5000.0000	1.3214	

Calibration Report

Batch Path	C:\GC-14\Data\2023\072623\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	7/27/2023 9:49 AM	Reporter Name	FA\GC14
Report Time	7/27/2023 9:52:00 AM	Batch State	Processed
Last Calib Update	7/27/2023 9:48 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

benzo (a) pyrene %RSE = 10.4

benzo (a) pyrene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs

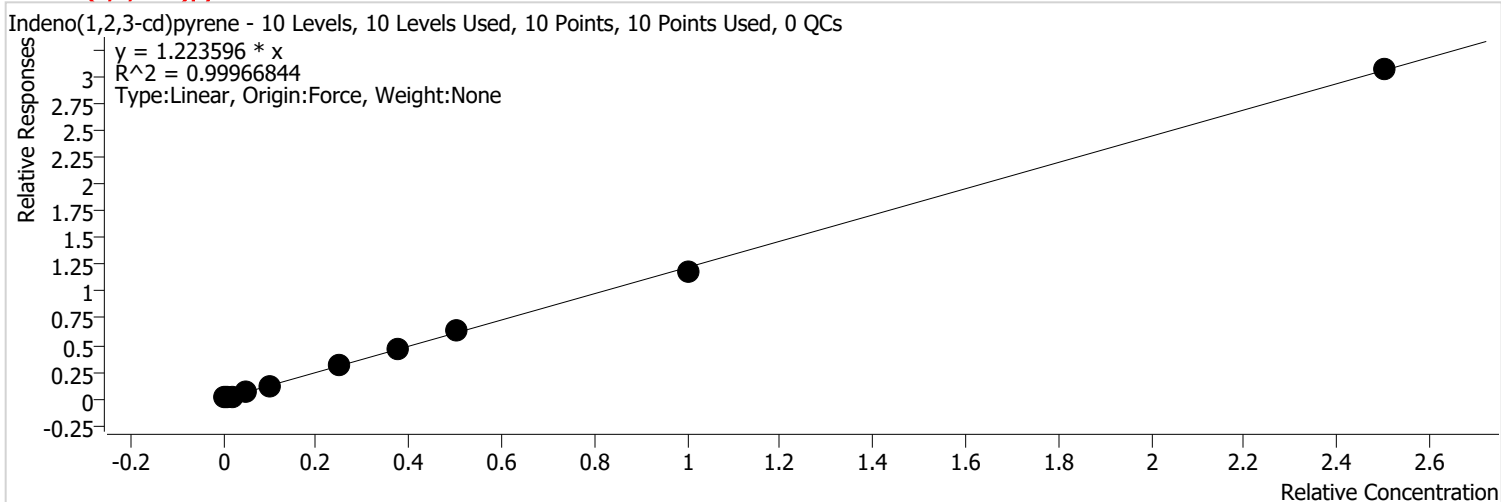


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\072623\072610.D	Calibration	1	x	2191	10.0000	1.0790	
C:\GC-14\Data\2023\072623\072611.D	Calibration	2	x	4114	20.0000	1.0098	
C:\GC-14\Data\2023\072623\072612.D	Calibration	3	x	7860	40.0000	0.9961	
C:\GC-14\Data\2023\072623\072613.D	Calibration	4	x	20042	100.0000	0.9932	
C:\GC-14\Data\2023\072623\072614.D	Calibration	5	x	43087	200.0000	1.0190	
C:\GC-14\Data\2023\072623\072615.D	Calibration	6	x	134562	500.0000	1.1633	
C:\GC-14\Data\2023\072623\072616.D	Calibration	7	x	219414	750.0000	1.2180	
C:\GC-14\Data\2023\072623\072617.D	Calibration	8	x	303118	1000.0000	1.2602	
C:\GC-14\Data\2023\072623\072618.D	Calibration	9	x	647419	2000.0000	1.1586	
C:\GC-14\Data\2023\072623\072619.D	Calibration	10	x	1737120	5000.0000	1.1526	

Calibration Report

Batch Path	C:\GC-14\Data\2023\072623\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	7/27/2023 9:49 AM	Reporter Name	FA\GC14
Report Time	7/27/2023 9:52:00 AM	Batch State	Processed
Last Calib Update	7/27/2023 9:48 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Indeno(1,2,3-cd)pyrene %RSE = 5.5



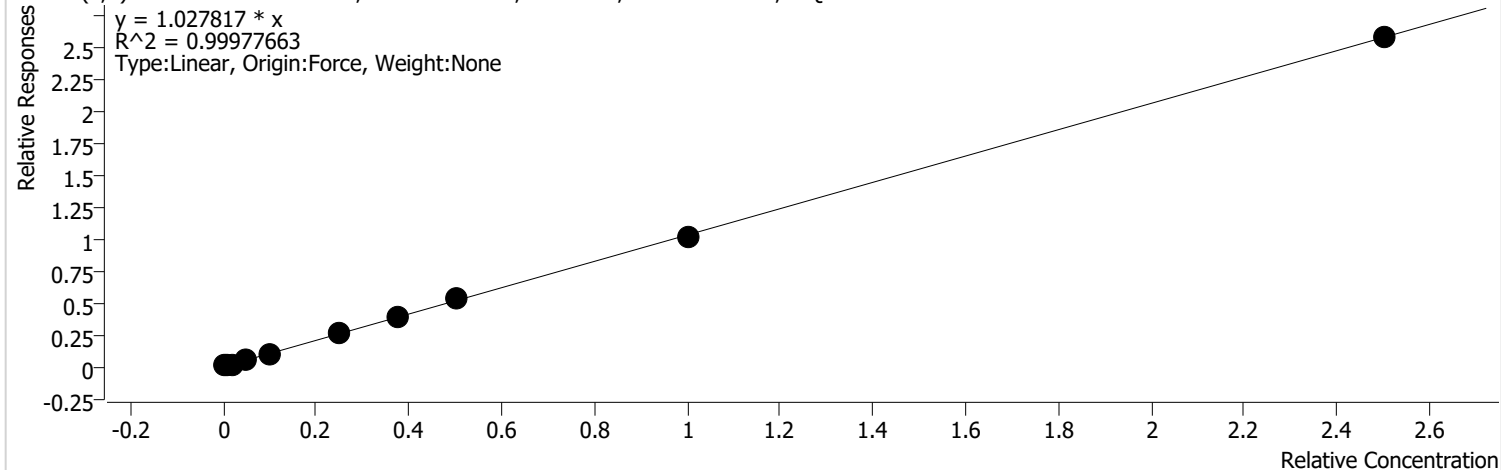
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\072623\072610.D	Calibration	1	x	3122	10.0000	1.2382	
C:\GC-14\Data\2023\072623\072611.D	Calibration	2	x	5816	20.0000	1.1501	
C:\GC-14\Data\2023\072623\072612.D	Calibration	3	x	11093	40.0000	1.1426	
C:\GC-14\Data\2023\072623\072613.D	Calibration	4	x	27827	100.0000	1.1245	
C:\GC-14\Data\2023\072623\072614.D	Calibration	5	x	59529	200.0000	1.1436	
C:\GC-14\Data\2023\072623\072615.D	Calibration	6	x	179939	500.0000	1.2574	
C:\GC-14\Data\2023\072623\072616.D	Calibration	7	x	285796	750.0000	1.2584	
C:\GC-14\Data\2023\072623\072617.D	Calibration	8	x	389719	1000.0000	1.2818	
C:\GC-14\Data\2023\072623\072618.D	Calibration	9	x	817392	2000.0000	1.1855	
C:\GC-14\Data\2023\072623\072619.D	Calibration	10	x	2184061	5000.0000	1.2264	

Calibration Report

Batch Path	C:\GC-14\Data\2023\072623\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	7/27/2023 9:49 AM	Reporter Name	FA\GC14
Report Time	7/27/2023 9:52:00 AM	Batch State	Processed
Last Calib Update	7/27/2023 9:48 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Dibenz (a,h) anthracene %RSE = 6.9

Dibenz (a,h) anthracene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



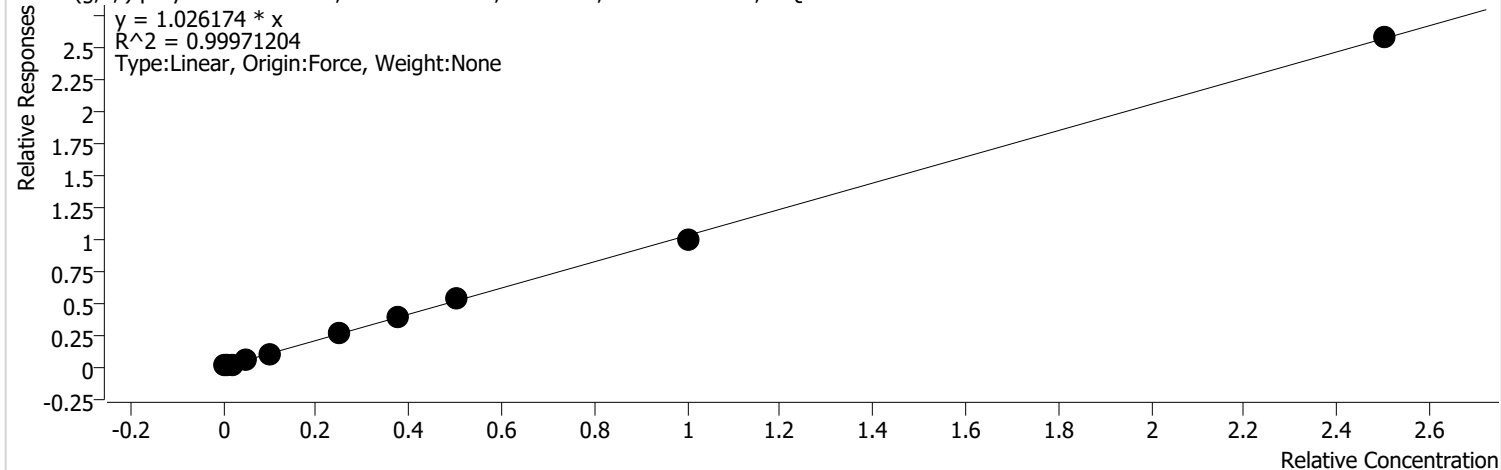
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\072623\072610.D	Calibration	1	x	2519	10.0000	0.9991	
C:\GC-14\Data\2023\072623\072611.D	Calibration	2	x	4771	20.0000	0.9434	
C:\GC-14\Data\2023\072623\072612.D	Calibration	3	x	9060	40.0000	0.9332	
C:\GC-14\Data\2023\072623\072613.D	Calibration	4	x	22827	100.0000	0.9225	
C:\GC-14\Data\2023\072623\072614.D	Calibration	5	x	48847	200.0000	0.9384	
C:\GC-14\Data\2023\072623\072615.D	Calibration	6	x	149476	500.0000	1.0445	
C:\GC-14\Data\2023\072623\072616.D	Calibration	7	x	240416	750.0000	1.0586	
C:\GC-14\Data\2023\072623\072617.D	Calibration	8	x	330150	1000.0000	1.0859	
C:\GC-14\Data\2023\072623\072618.D	Calibration	9	x	699930	2000.0000	1.0152	
C:\GC-14\Data\2023\072623\072619.D	Calibration	10	x	1828675	5000.0000	1.0269	

Calibration Report

Batch Path	C:\GC-14\Data\2023\072623\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	7/27/2023 9:49 AM	Reporter Name	FA\GC14
Report Time	7/27/2023 9:52:00 AM	Batch State	Processed
Last Calib Update	7/27/2023 9:48 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Benzo (g,h,i) perylene %RSE = 4.8

Benzo (g,h,i) perylene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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C:\GC-14\Data\2023\072623\072611.D	Calibration	2	x	5007	20.0000	0.9899	
C:\GC-14\Data\2023\072623\072612.D	Calibration	3	x	9516	40.0000	0.9802	
C:\GC-14\Data\2023\072623\072613.D	Calibration	4	x	23501	100.0000	0.9497	
C:\GC-14\Data\2023\072623\072614.D	Calibration	5	x	49632	200.0000	0.9535	
C:\GC-14\Data\2023\072623\072615.D	Calibration	6	x	148912	500.0000	1.0406	
C:\GC-14\Data\2023\072623\072616.D	Calibration	7	x	236140	750.0000	1.0397	
C:\GC-14\Data\2023\072623\072617.D	Calibration	8	x	325495	1000.0000	1.0706	
C:\GC-14\Data\2023\072623\072618.D	Calibration	9	x	685886	2000.0000	0.9948	
C:\GC-14\Data\2023\072623\072619.D	Calibration	10	x	1832711	5000.0000	1.0291	

PAH Calibration

Date: 7/26/23

Analyst: SRH

MeCl2: 2971/7583

Cal	ICV
8270 Megamix: <u>28525</u>	8270 Megamix: <u>27571</u>
8270 Surrogate: <u>28415</u>	IS: <u>28261</u>

66-14
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66-21
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Spike Conc. (ppb)	BN/Acid Surr Conc. (ppb)	2° Spike (uL)	B/N Surr (uL)	Internal Standard (uL)	Remove (uL)	Final Vol. (mL)	Comments
2	2/1	0.2	--	10	10.2	1	For PAH-LL Cal Only
10	10/5	1	--	10	11	1	
20	20/10	2	--	10	12	1	
40	40/20	4	--	10	14	1	
100	100/50	10	--	10	20	1	
200	200/100	20	--	10	30	1	
500	500/250	50	--	10	60	1	
750	750/375	75	--	10	85	1	
1000	1000/500	100	--	10	110	1	
2000	2000/1000	200	--	10	210	1	
5000	5000/2500	500	--	10	510	1	
ICB	1000/500		5	10	15	1	
ICV (1000 ppb)	1000/500	**	5	10	16	1	**Add 1 uL of SS Megamix

	Mega Mix (uL)	8270 Surr (uL)	Final Volume (mL)
2° Intermediate (cal)	100	500	10

SRH 7/26/23

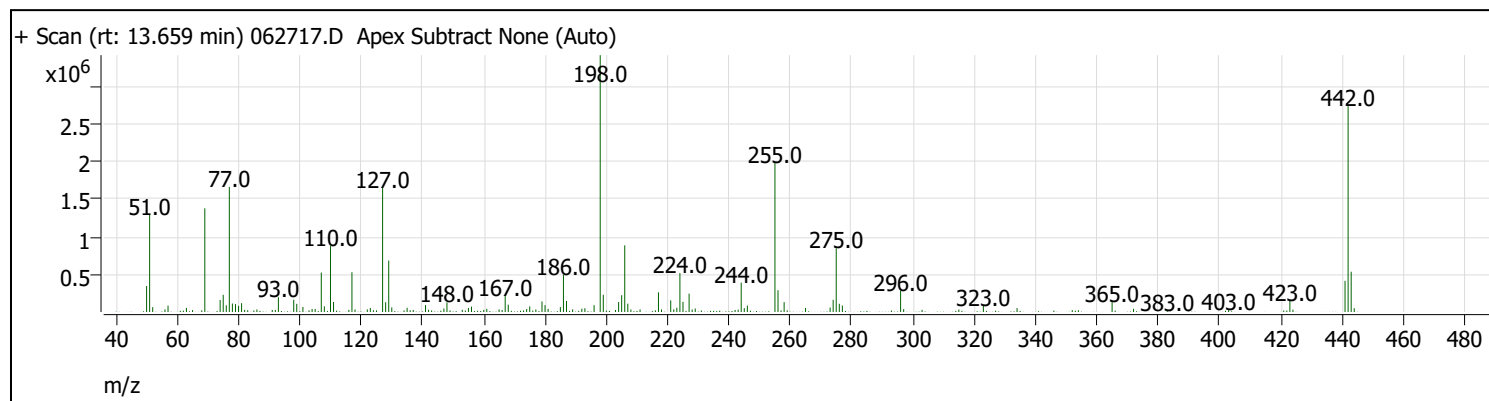
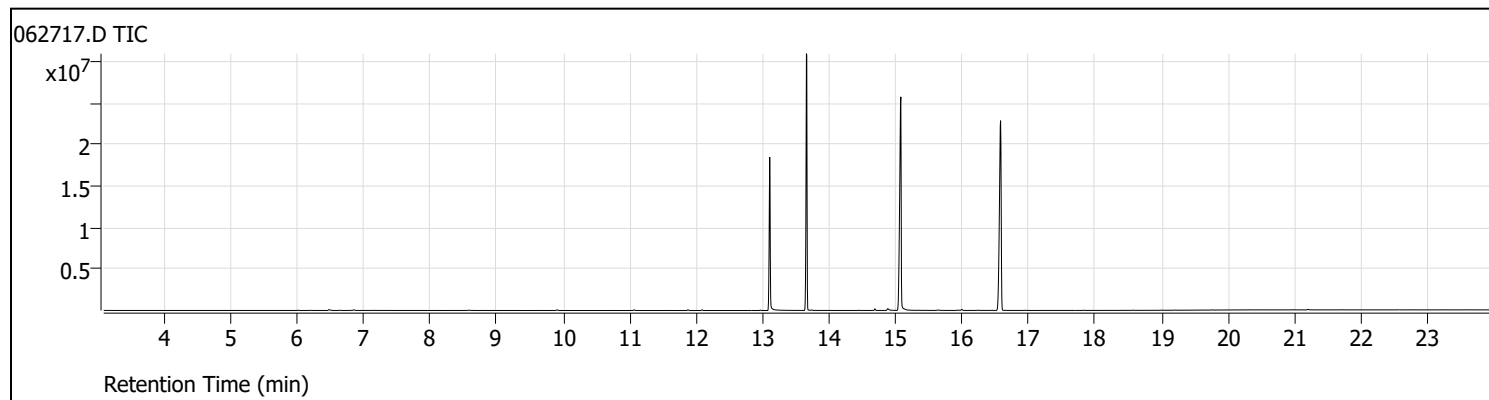
Signature and Date: *SRH* 7/26/23



Tunes

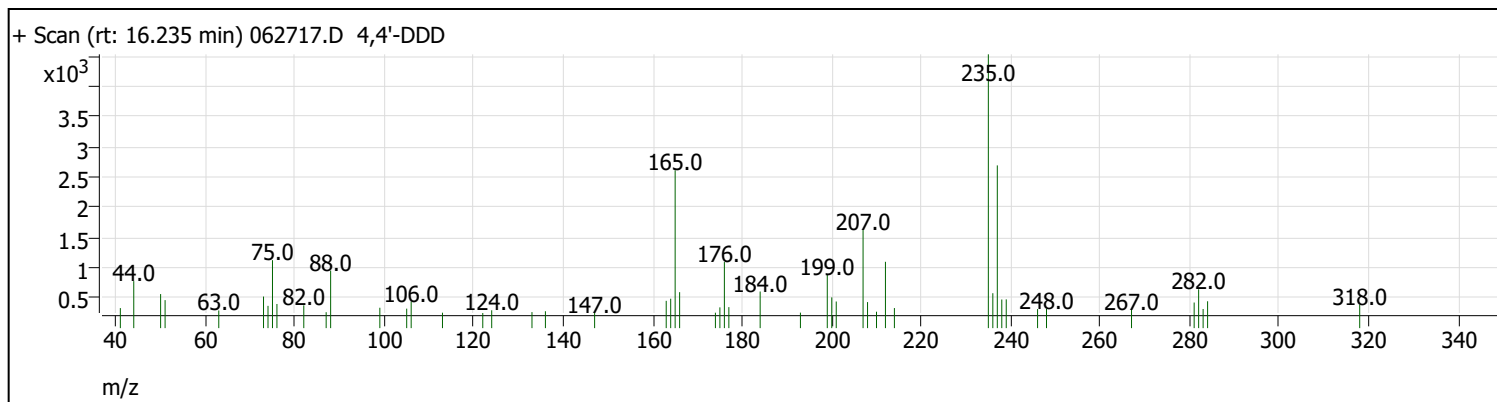
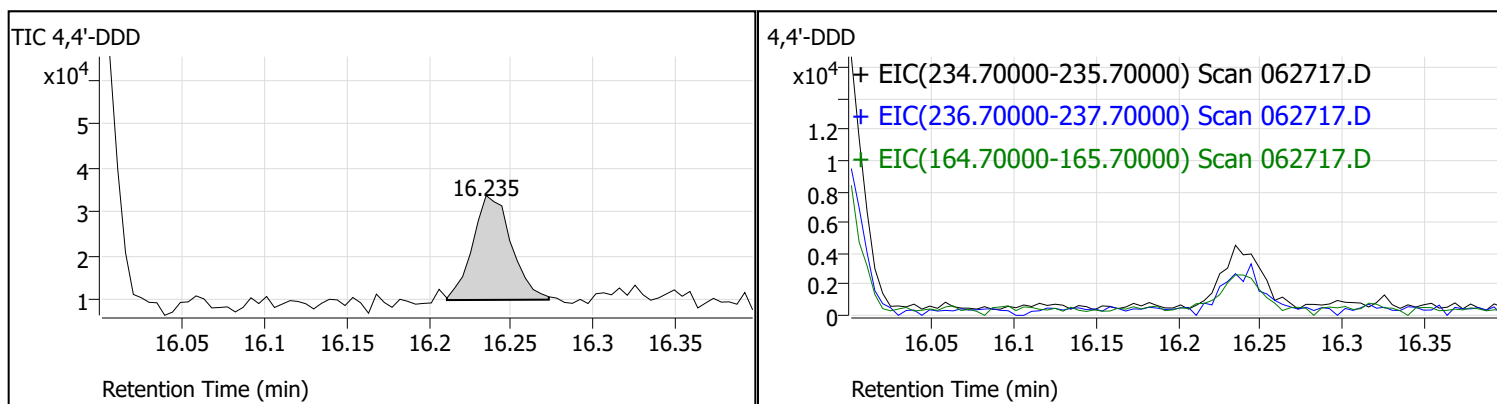
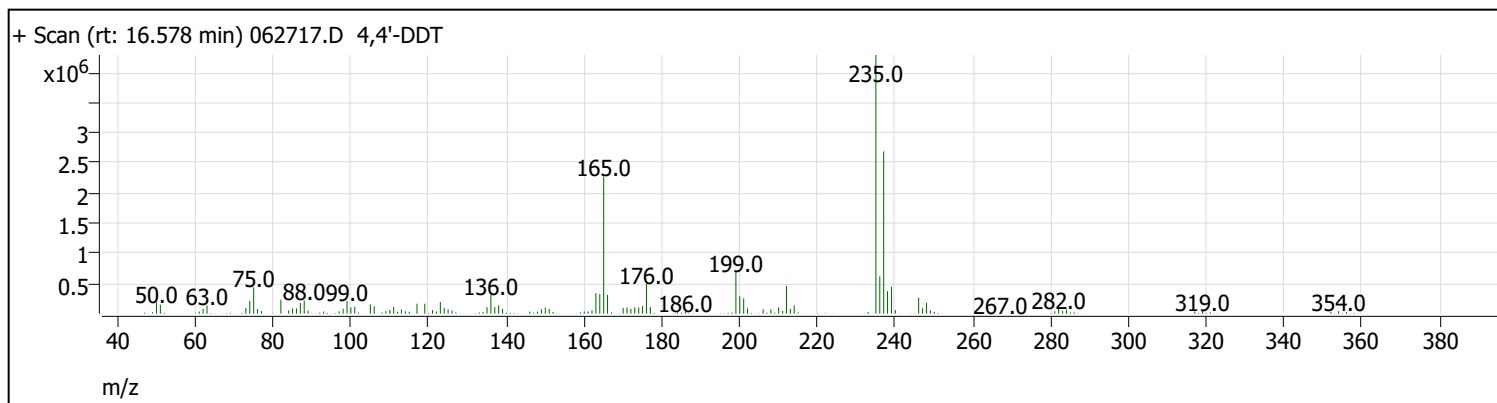
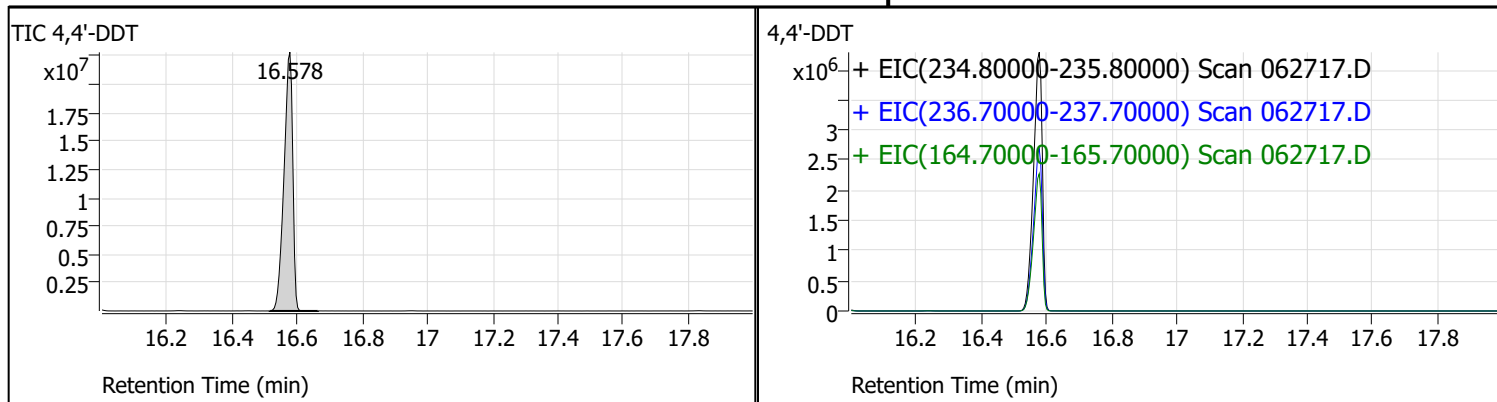
Tune Evaluation Report

Data Path: C:\GC-14\Data\2023\062723\062717.D
 Acq on: 6/27/2023 5:16:01 PM
 Operator: FA\GC14
 Sample: tune
 Inst Name: GC-14
 ALS Vial: 1
 Method: C:\GC-14\Methods\Quant
 Methods\TUNE\DFTPPwBreak&TailingGC218270E.m



Target Mass	Rel. To Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Pass/Fail
68	69	0	2	1.6	22096	Pass
70	69	0	2	0.4	6192	Pass
197	198	0	2	0.0	0	Pass
198	198	100	100	100.0	3410944	Pass
199	198	5	9	6.7	229184	Pass
365	198	1	100	4.0	135168	Pass
441	443	1E-10	150	77.4	414016	Pass
442	442	100	100	100.0	2733568	Pass
443	442	15	24	19.6	535168	Pass
69	69	100	100	100.0	1376768	Pass

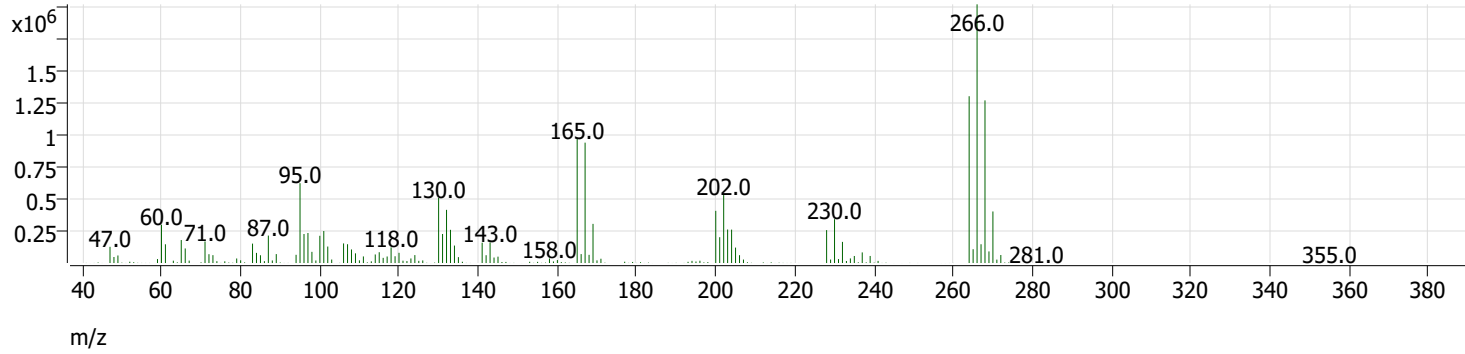
Tune Evaluation Report



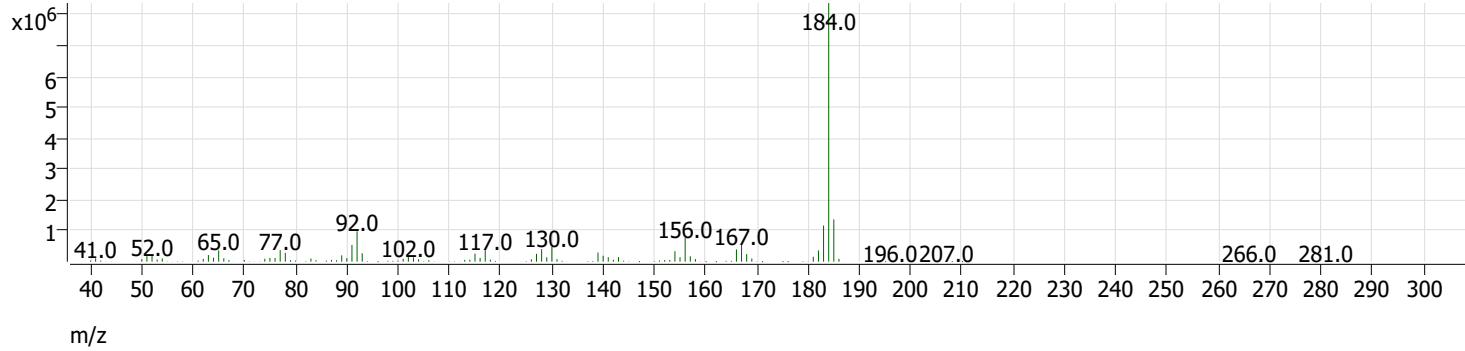
Compound Name	Expected RT	Observed RT	TIC Area	Breakdown %	Pass/Fail
4,4'-DDT	17.000	16.578	42427694	0.1	Pass
4,4'-DDD	16.200	16.235	38645		

Tune Evaluation Report

+ Scan (rt: 13.106 min) 062717.D Pentachlorophenol



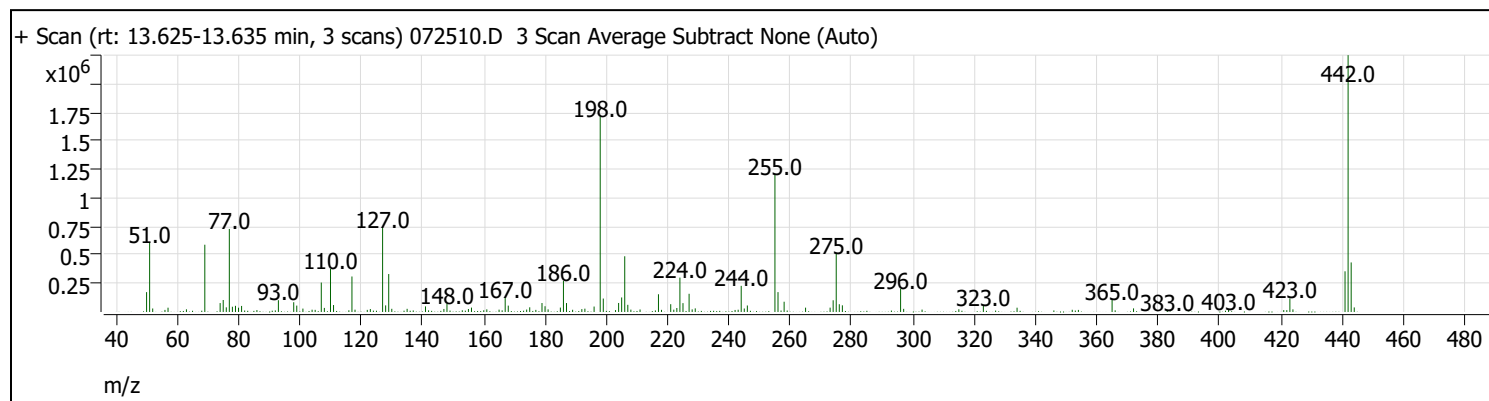
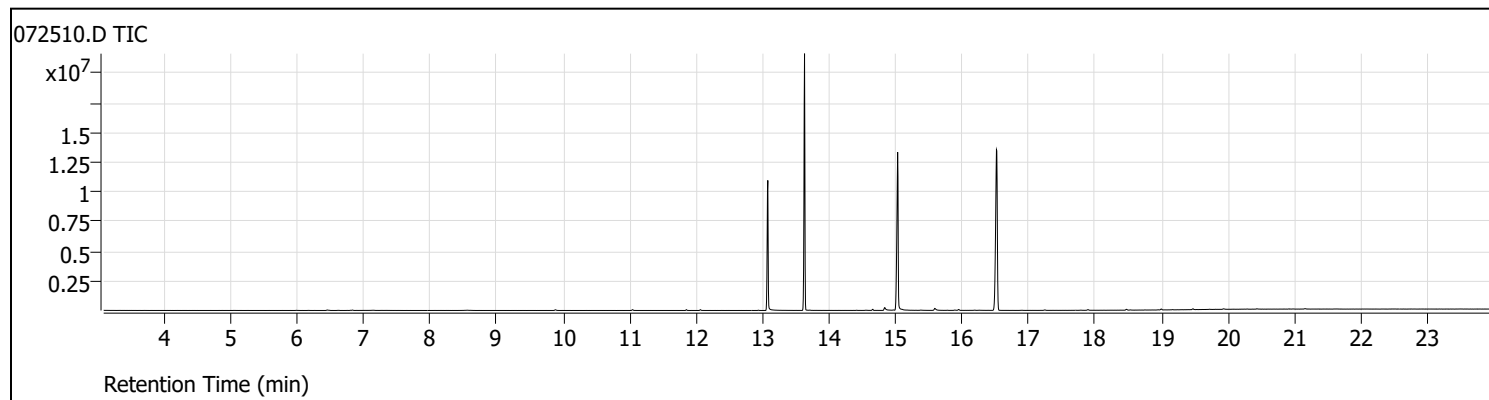
+ Scan (rt: 15.078 min) 062717.D Benzidine



Compound Name	Expected RT	Observed RT	Tailing Factor	PGF	Pass/Fail
Pentachlorophenol	13.400	13.106	0.8	6.4	Pass
Benzidine	15.450	15.078	0.3	4.3	Pass

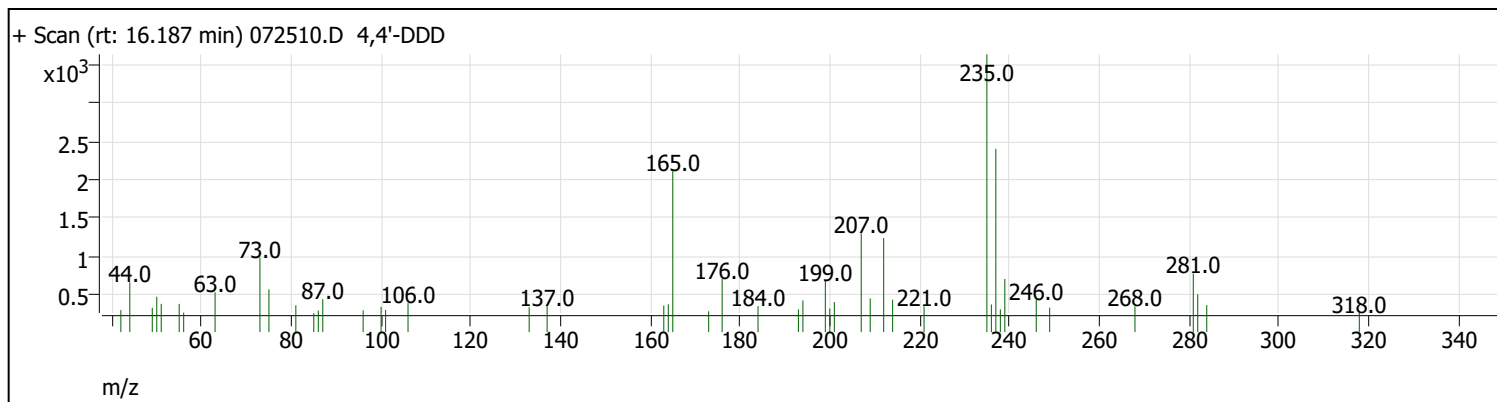
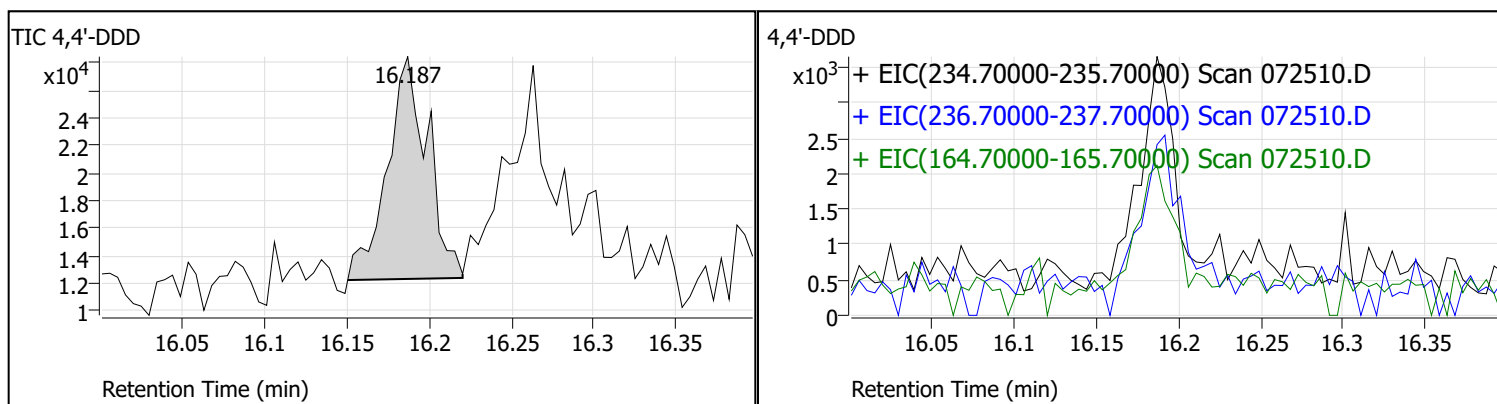
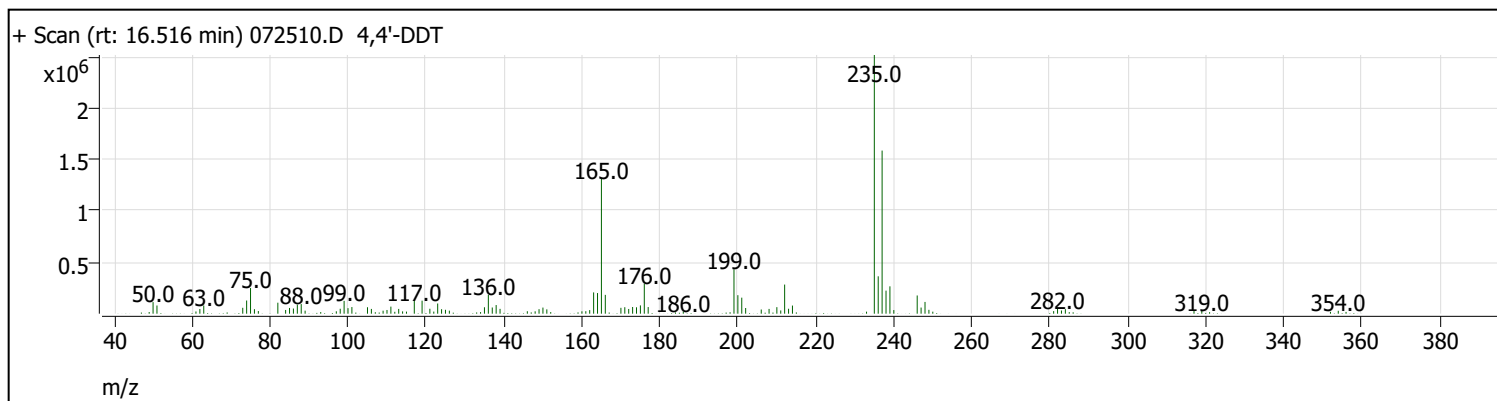
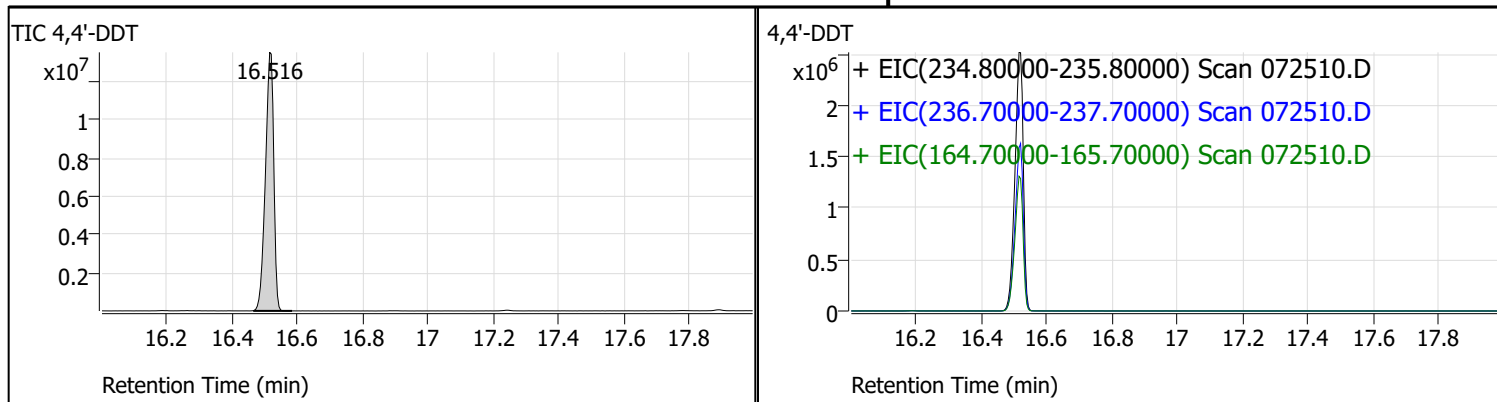
Tune Evaluation Report

Data Path: C:\GC-14\Data\2023\072523\072510.D
 Acq on: 7/25/2023 5:05:42 PM
 Operator: FA\GC14
 Sample: tune
 Inst Name: GC-14
 ALS Vial: 1
 Method: C:\GC-14\Methods\Quant
 Methods\TUNE\DFTPPwBreak&TailingGC218270E.m



Target Mass	Rel. To Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Pass/Fail
68	69	0	2	1.9	11205	Pass
70	69	0	2	0.6	3430	Pass
197	198	0	2	0.0	0	Pass
198	198	100	100	100.0	1713493	Pass
199	198	5	9	6.9	117688	Pass
365	442	1	100	4.7	106872	Pass
441	443	1E-10	150	82.1	356565	Pass
442	442	100	100	100.0	2251435	Pass
443	442	15	24	19.3	434240	Pass
69	69	100	100	100.0	589568	Pass

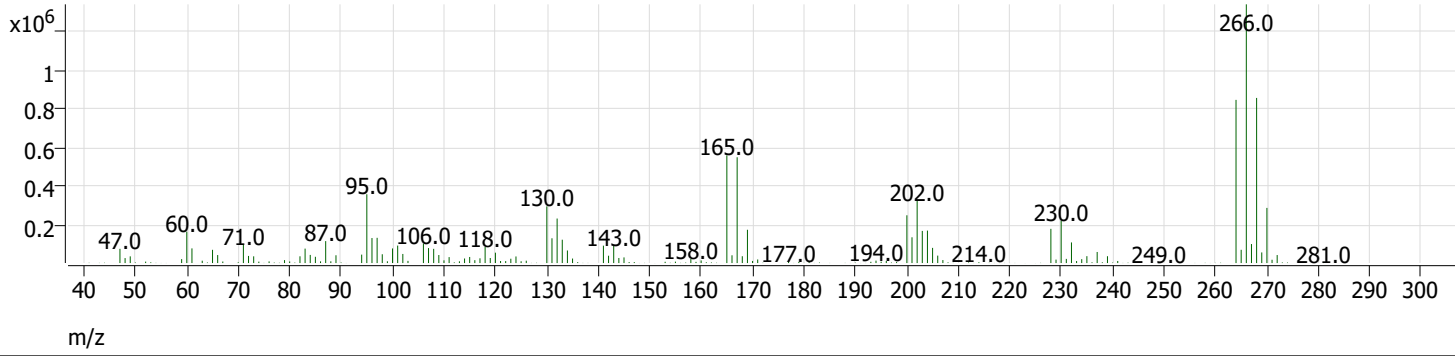
Tune Evaluation Report



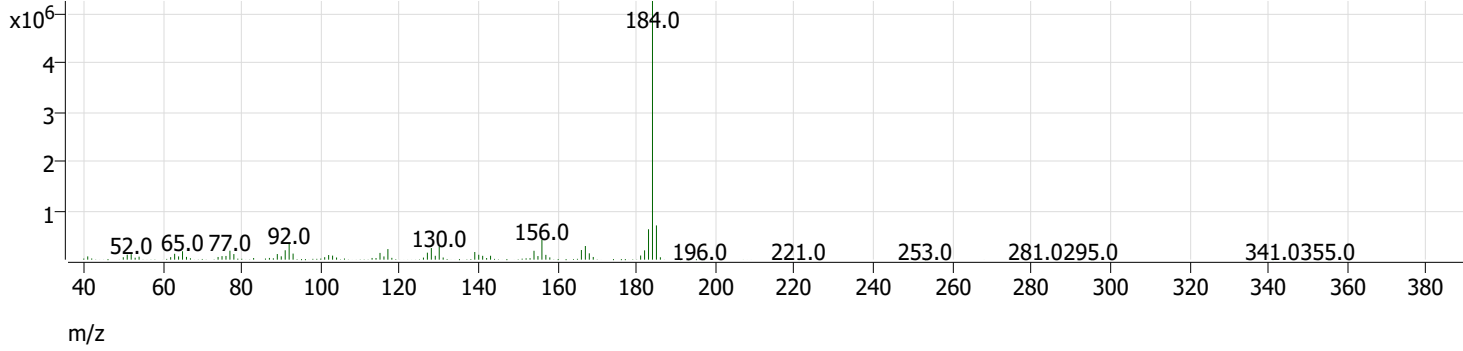
Compound Name	Expected RT	Observed RT	TIC Area	Breakdown %	Pass/Fail
4,4'-DDT	17.000	16.516	24045661	0.1	Pass
4,4'-DDD	16.200	16.187	27467		

Tune Evaluation Report

+ Scan (rt: 13.077 min) 072510.D Pentachlorophenol



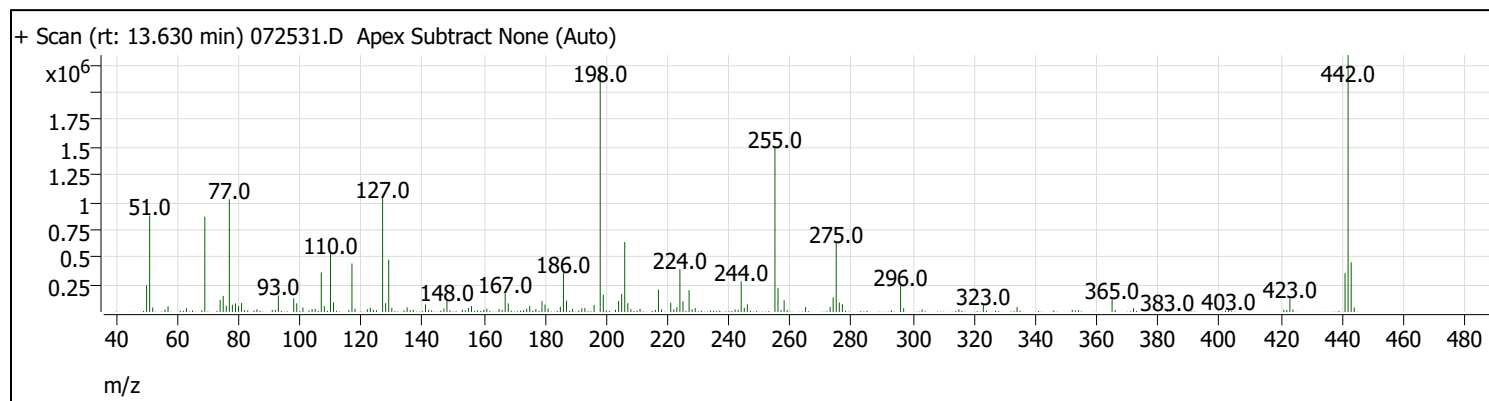
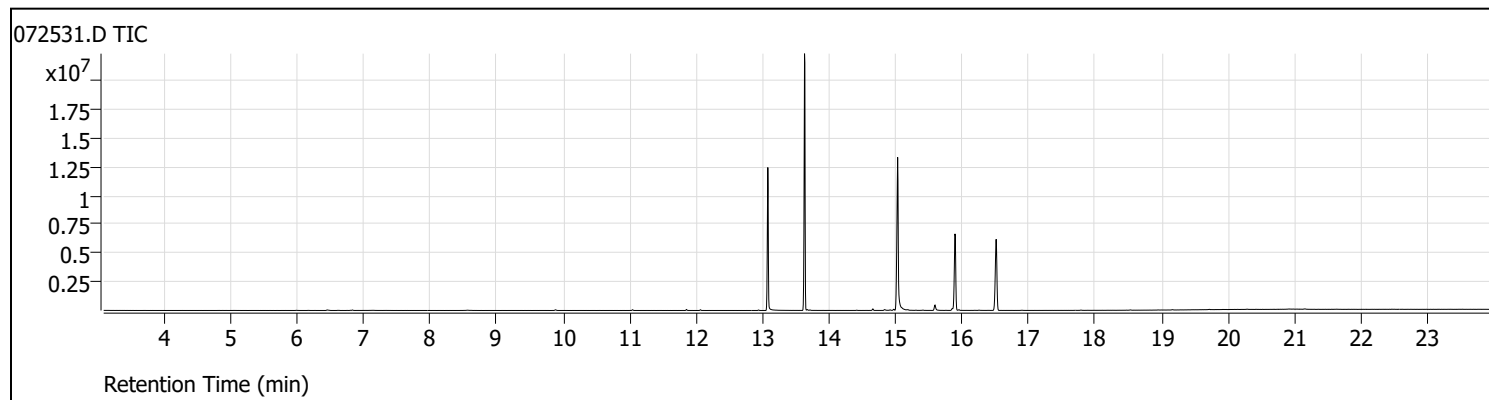
+ Scan (rt: 15.030 min) 072510.D Benzidine



Compound Name	Expected RT	Observed RT	Tailing Factor	PGF	Pass/Fail
Pentachlorophenol	13.092	13.077	0.6	8.1	Pass
Benzidine	15.049	15.030	0.6	6.3	Pass

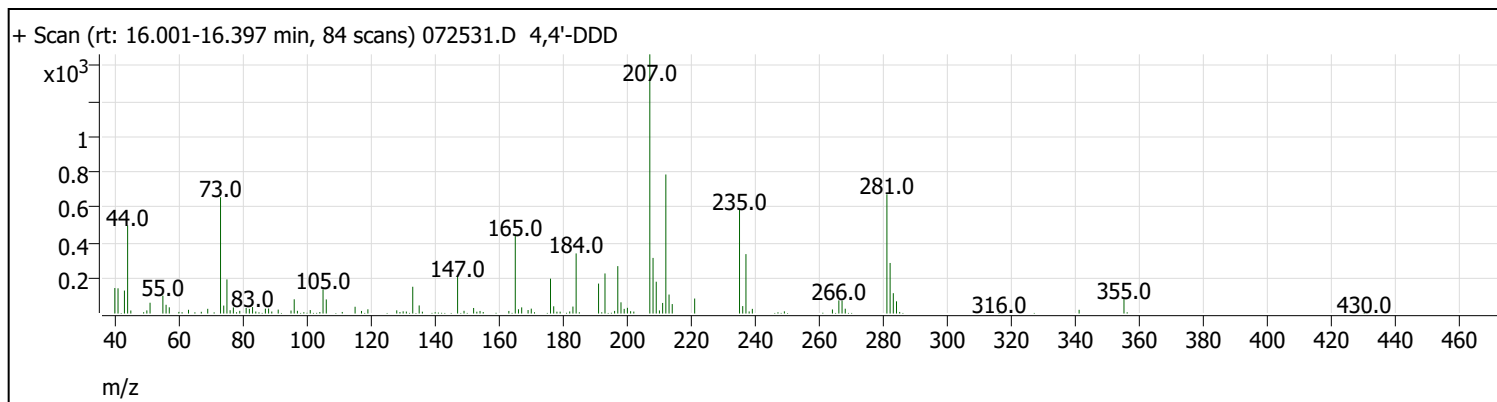
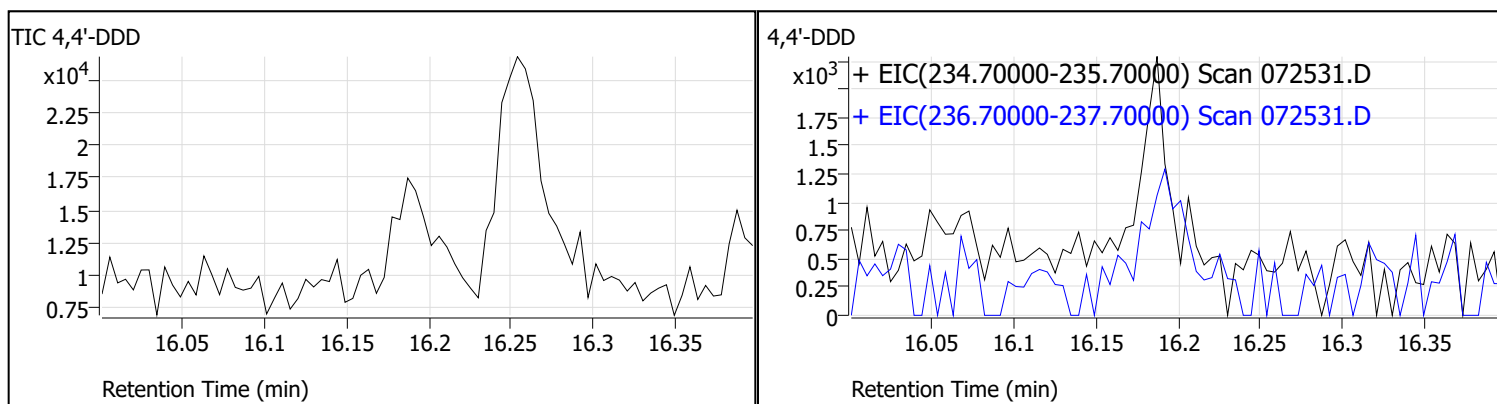
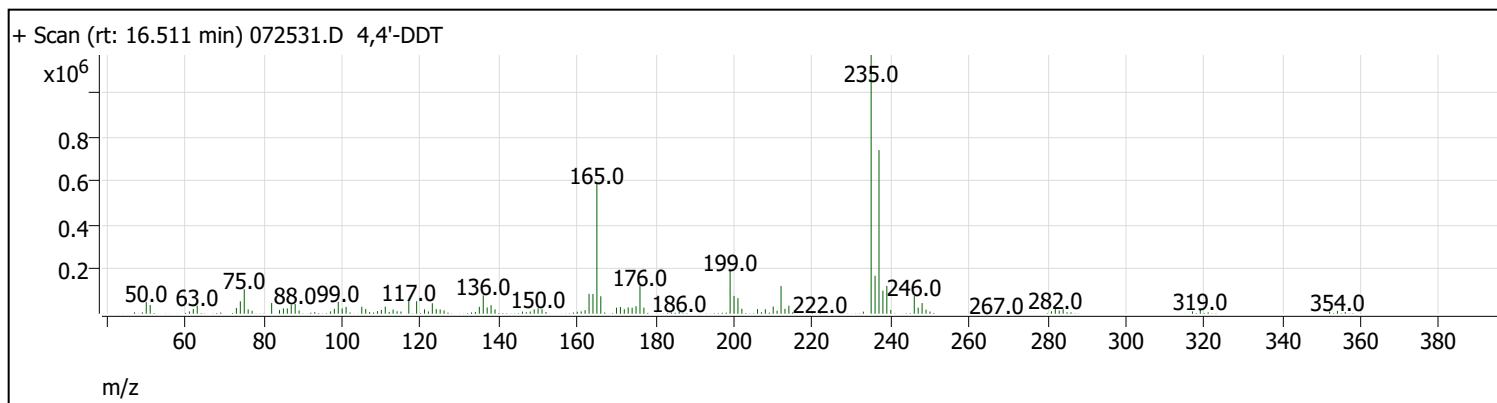
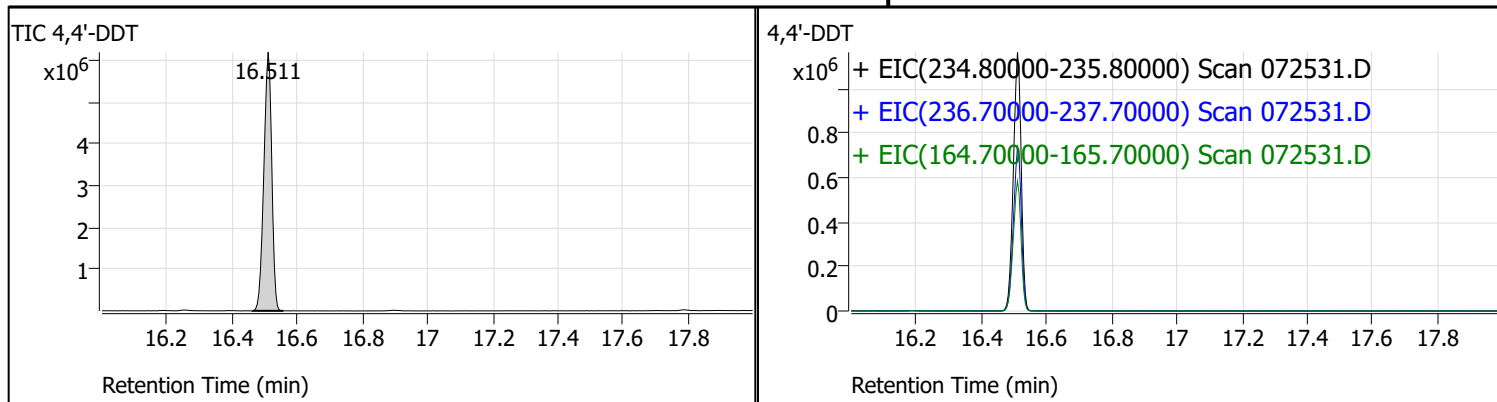
Tune Evaluation Report

Data Path: C:\GC-14\Data\2023\072523\072531.D
 Acq on: 7/26/2023 3:00:49 AM
 Operator: FA\GC14
 Sample: tune
 Inst Name: GC-14
 ALS Vial: 1
 Method: C:\GC-14\Methods\Quant
 Methods\TUNE\DFTPPwBreak&TailingGC218270E.m



Target Mass	Rel. To Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Pass/Fail
68	69	0	2	1.8	15954	Pass
70	69	0	2	0.5	4117	Pass
197	198	0	2	0.0	0	Pass
198	198	100	100	100.0	2225664	Pass
199	198	5	9	7.1	157120	Pass
365	442	1	100	5.0	117696	Pass
441	443	1E-10	150	78.2	354112	Pass
442	442	100	100	100.0	2338304	Pass
443	442	15	24	19.4	452608	Pass
69	69	100	100	100.0	867392	Pass

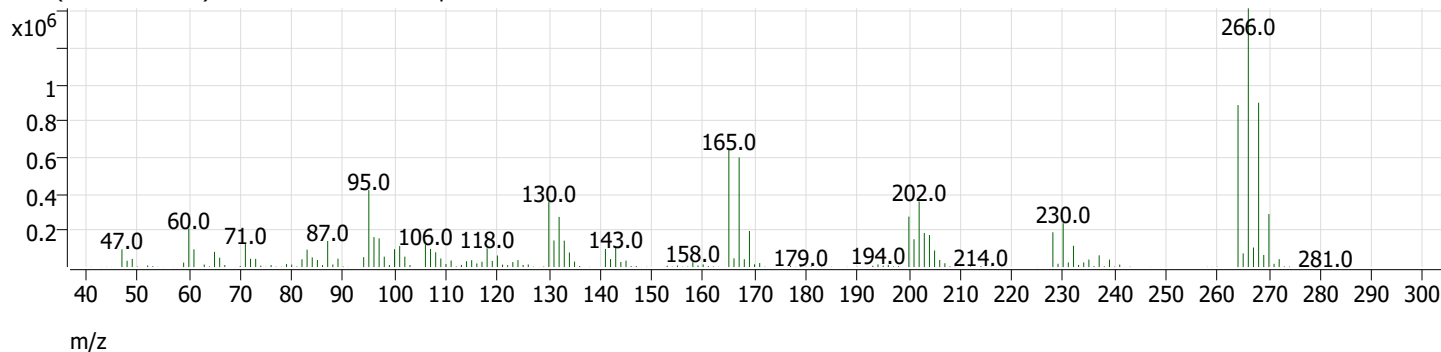
Tune Evaluation Report



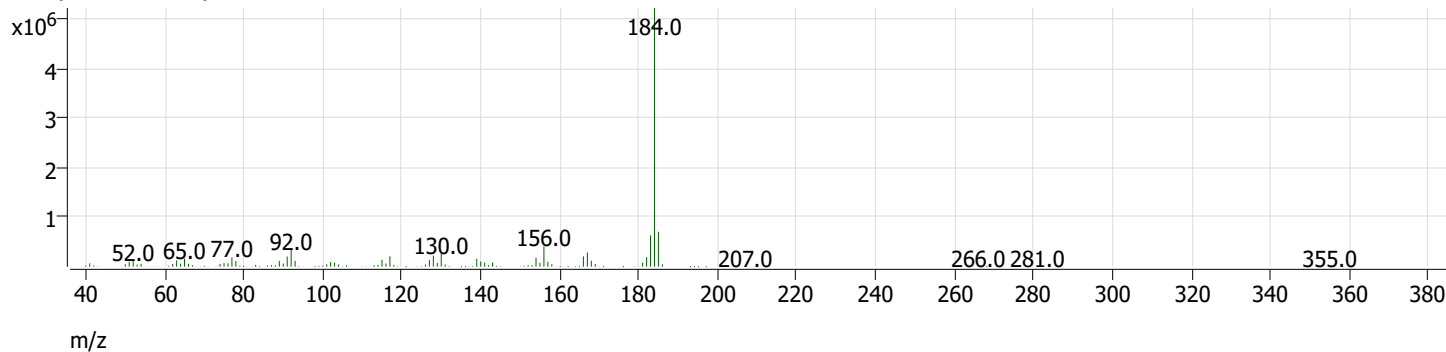
Compound Name	Expected RT	Observed RT	TIC Area	Breakdown %	Pass/Fail
4,4'-DDT	17.000	16.511	10418450	0.0	Pass
4,4'-DDD	16.200	0.000	0		

Tune Evaluation Report

+ Scan (rt: 13.078 min) 072531.D Pentachlorophenol



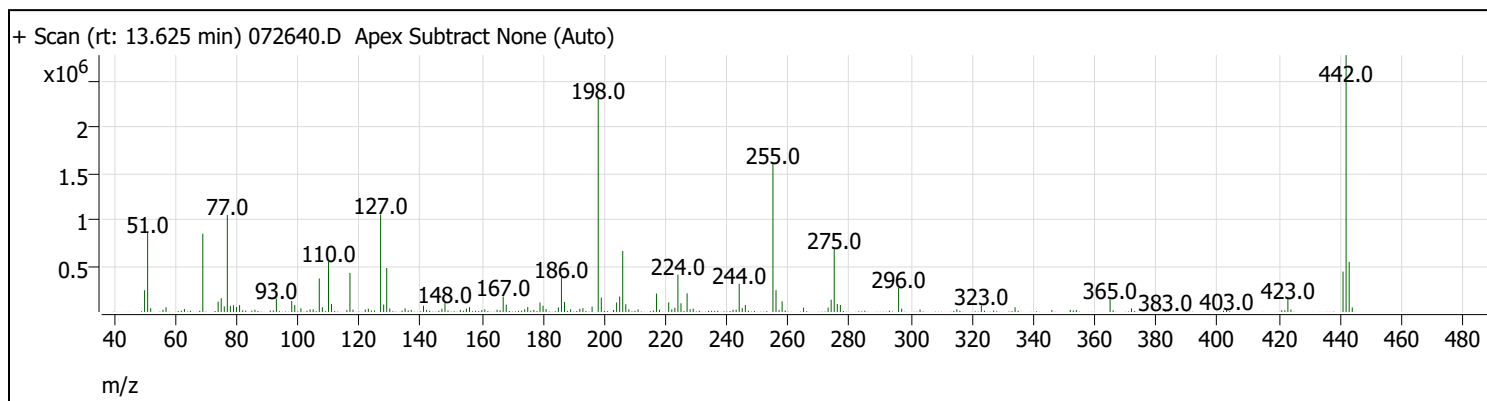
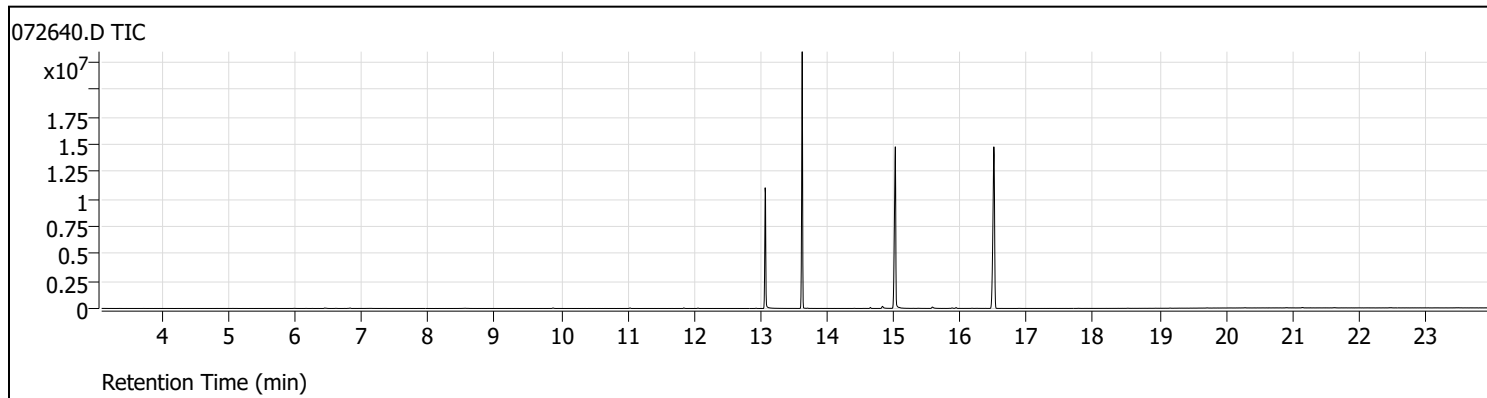
+ Scan (rt: 15.030 min) 072531.D Benzidine



Compound Name	Expected RT	Observed RT	Tailing Factor	PGF	Pass/Fail
Pentachlorophenol	13.092	13.078	0.9	3.9	Pass
Benzidine	15.049	15.030	0.8	2.9	Pass

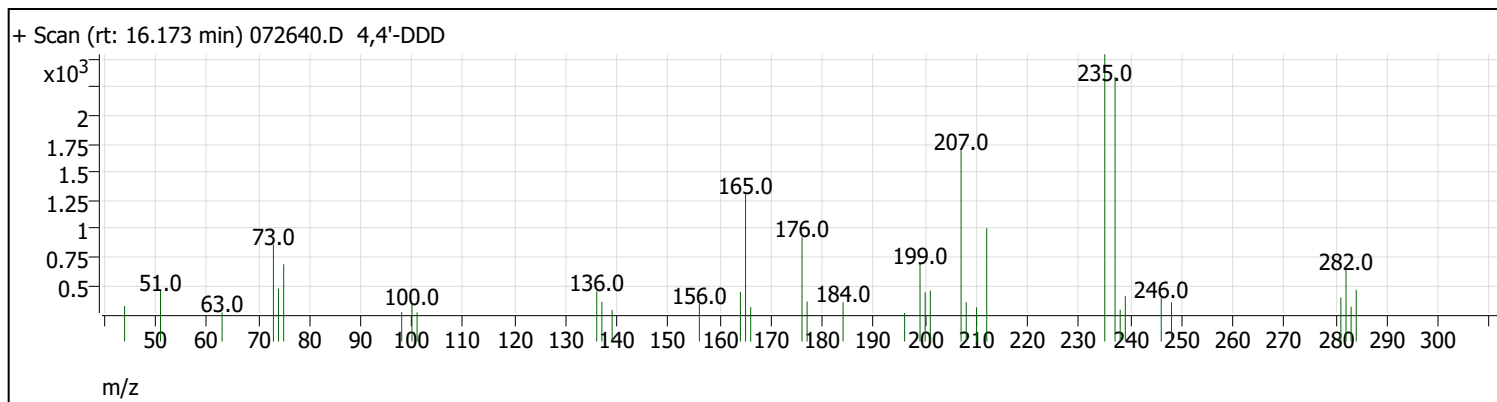
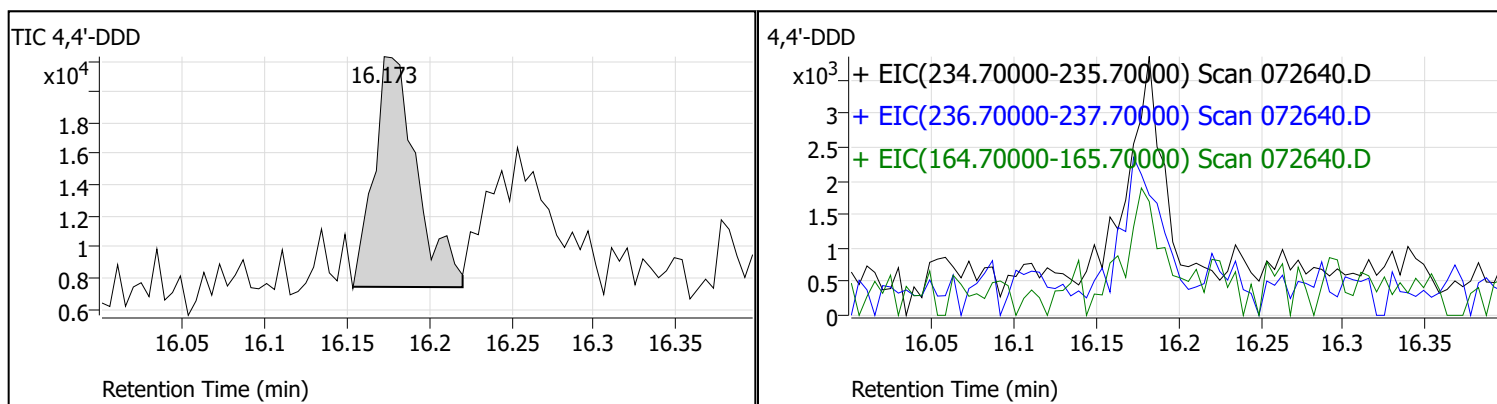
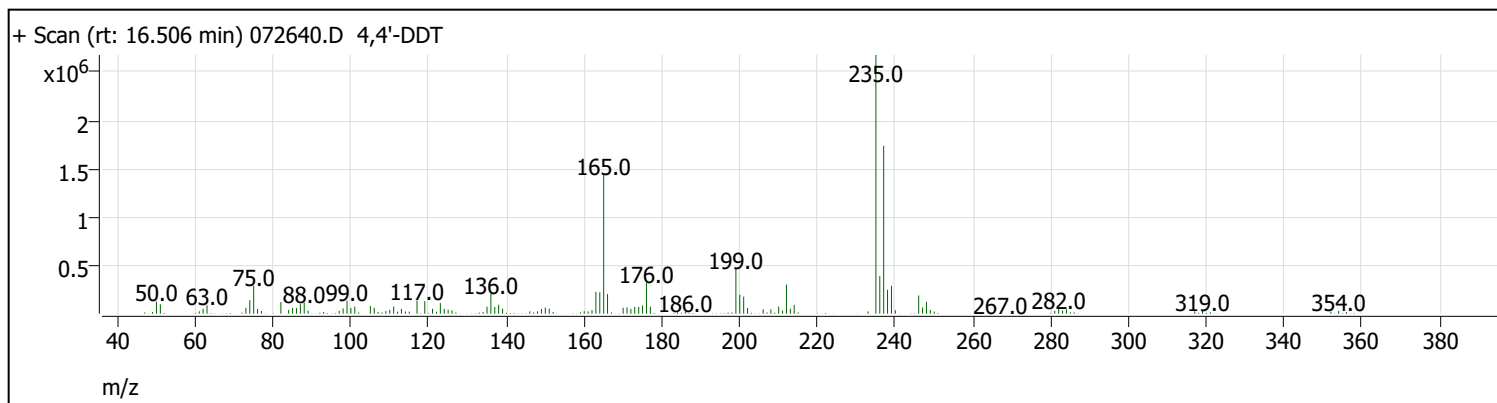
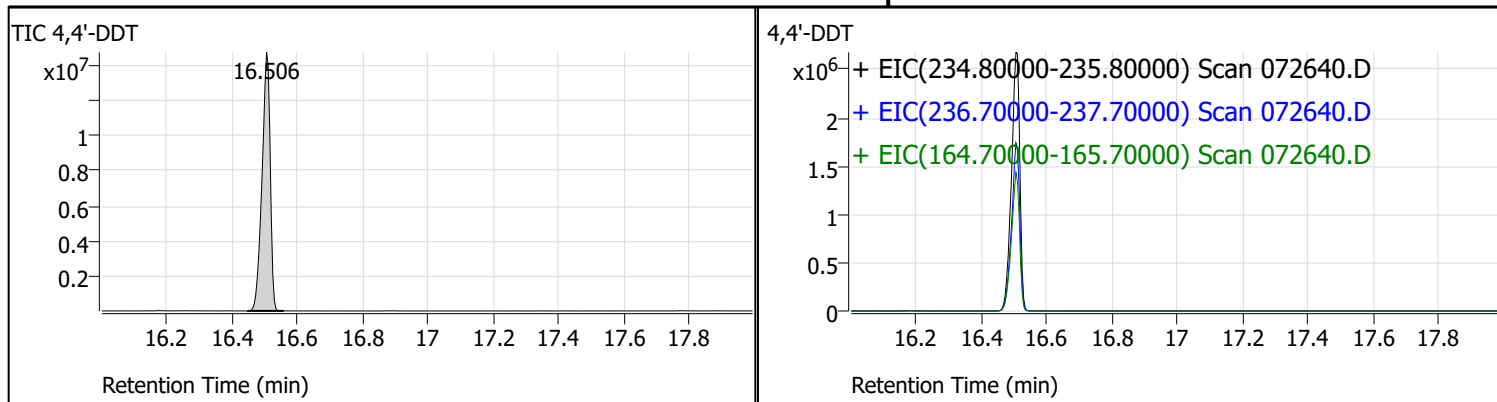
Tune Evaluation Report

Data Path: C:\GC-14\Data\2023\072623\072640.D
 Acq on: 7/27/2023 6:47:50 AM
 Operator: FA\GC14
 Sample: TUNE
 Inst Name: GC-14
 ALS Vial: 1
 Method: C:\GC-14\Methods\Quant
 Methods\TUNE\DFTPPwBreak&TailingGC218270E.m



Target Mass	Rel. To Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Pass/Fail
68	69	0	2	1.6	13713	Pass
70	69	0	2	0.5	4522	Pass
197	198	0	2	0.0	0	Pass
198	198	100	100	100.0	2302976	Pass
199	198	5	9	6.7	155008	Pass
365	442	1	100	5.1	141056	Pass
441	443	1E-10	150	80.7	437056	Pass
442	442	100	100	100.0	2776064	Pass
443	442	15	24	19.5	541696	Pass
69	69	100	100	100.0	846848	Pass

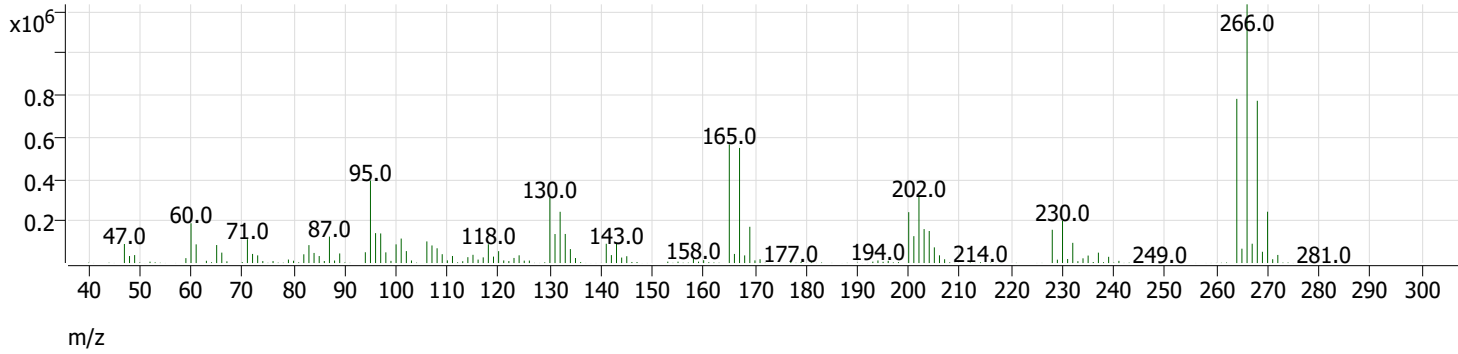
Tune Evaluation Report



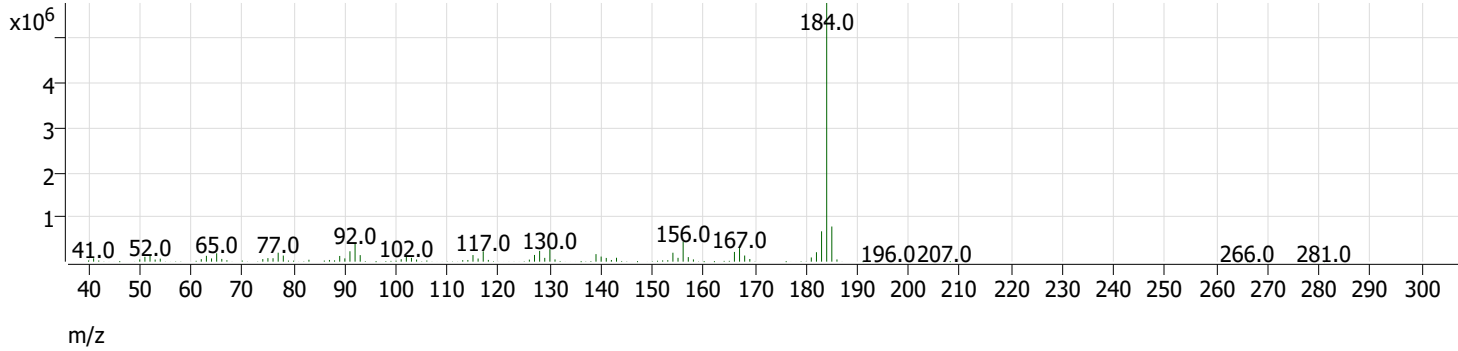
Compound Name	Expected RT	Observed RT	TIC Area	Breakdown %	Pass/Fail
4,4'-DDT	17.000	16.506	25701381	0.1	Pass
4,4'-DDD	16.200	16.173	26280		

Tune Evaluation Report

+ Scan (rt: 13.068 min) 072640.D Pentachlorophenol



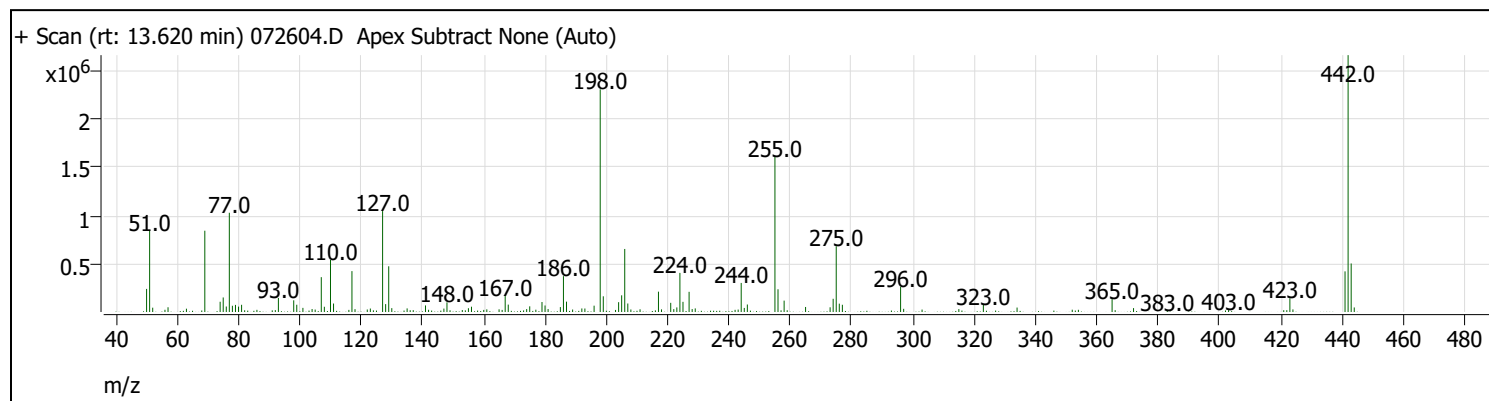
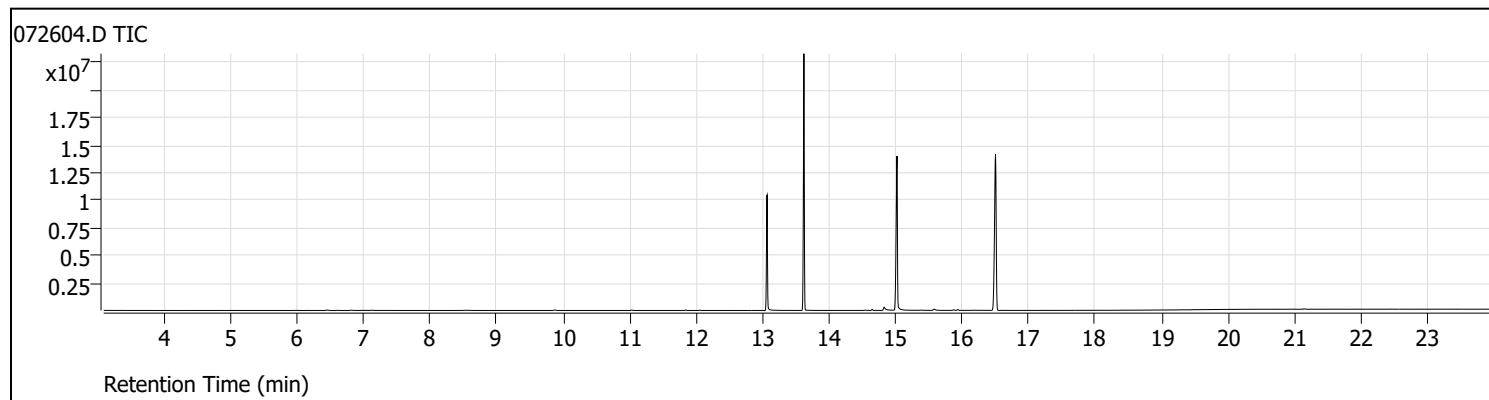
+ Scan (rt: 15.025 min) 072640.D Benzidine



Compound Name	Expected RT	Observed RT	Tailing Factor	PGF	Pass/Fail
Pentachlorophenol	13.092	13.068	1.1	1.1	Pass
Benzidine	15.049	15.025	0.5	0.8	Pass

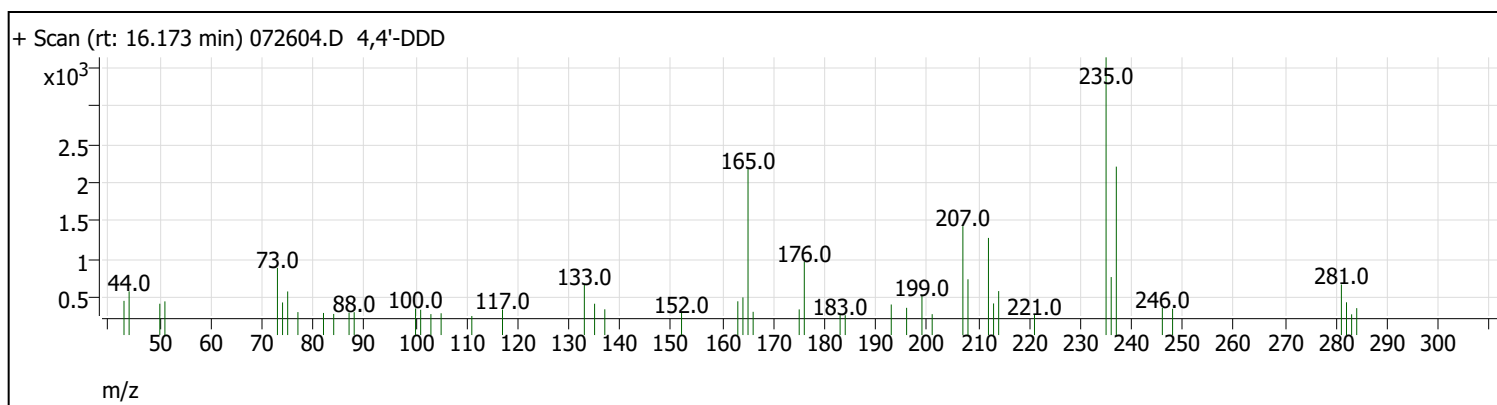
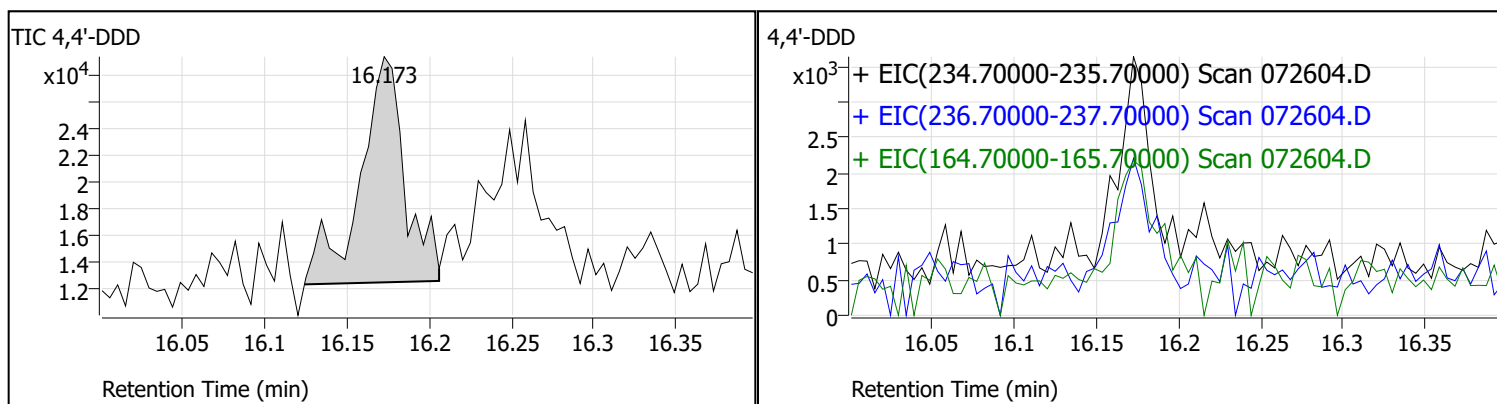
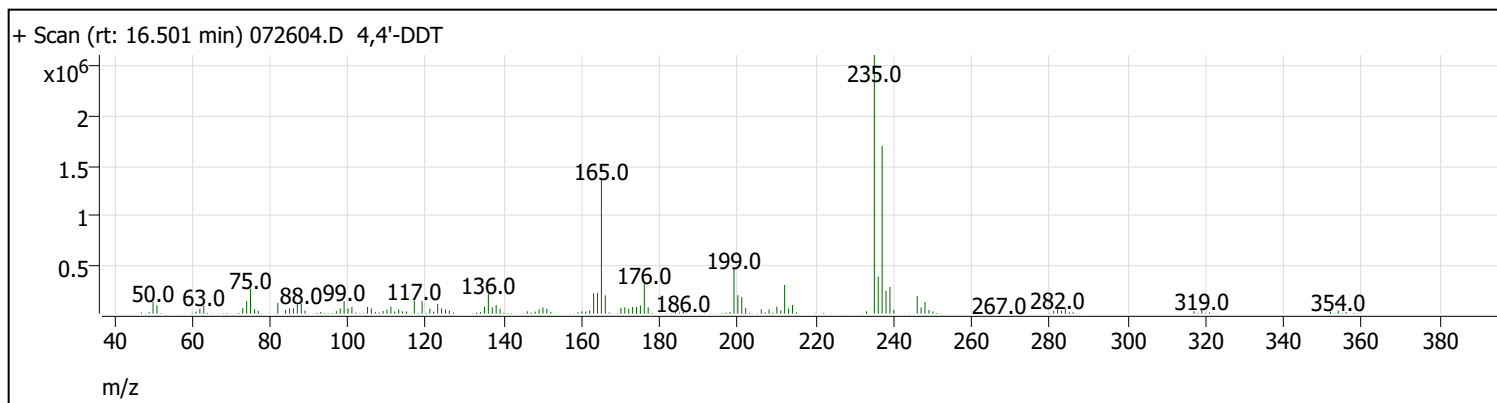
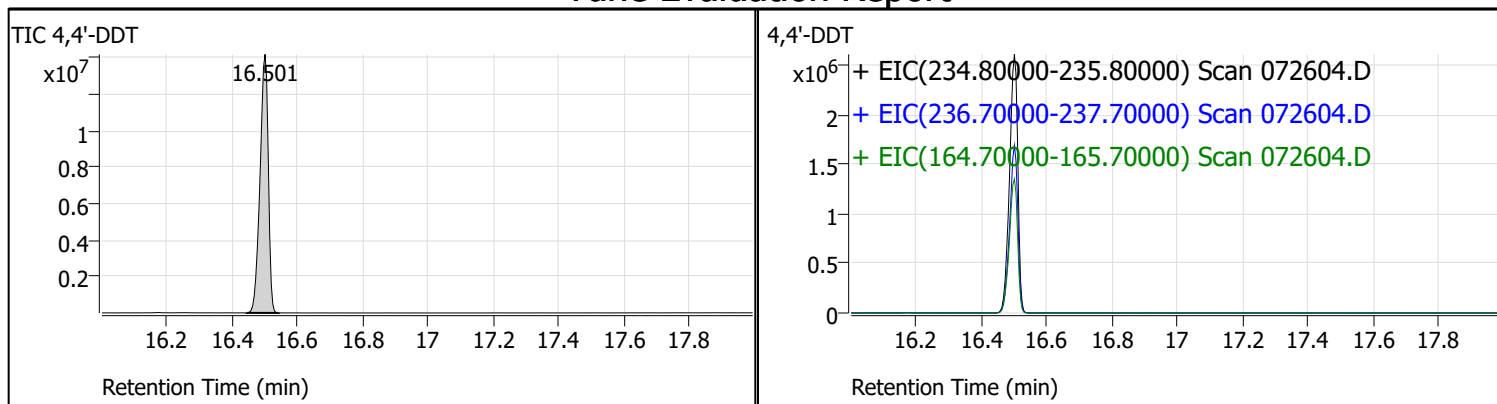
Tune Evaluation Report

Data Path: C:\GC-14\Data\2023\072623\072604.D
 Acq on: 7/26/2023 1:48:55 PM
 Operator: FA\GC14
 Sample: TUNE
 Inst Name: GC-14
 ALS Vial: 1
 Method: C:\GC-14\Methods\Quant
 Methods\TUNE\DFTPPwBreak&TailingGC218270E.m



Target Mass	Rel. To Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Pass/Fail
68	69	0	2	1.9	15715	Pass
70	69	0	2	0.5	3867	Pass
197	198	0	2	0.0	0	Pass
198	198	100	100	100.0	2311168	Pass
199	198	5	9	7.0	162880	Pass
365	442	1	100	5.0	133952	Pass
441	443	1E-10	150	83.8	421888	Pass
442	442	100	100	100.0	2665472	Pass
443	442	15	24	18.9	503552	Pass
69	69	100	100	100.0	843648	Pass

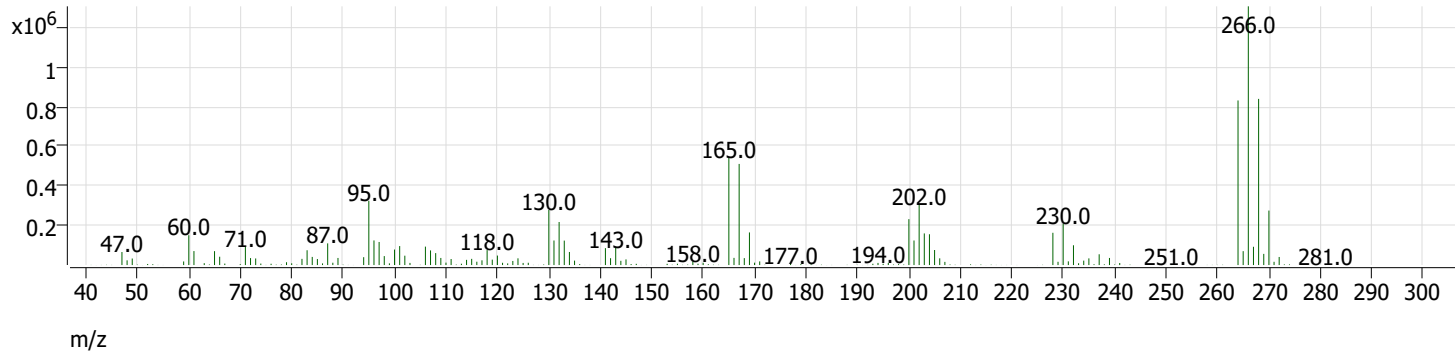
Tune Evaluation Report



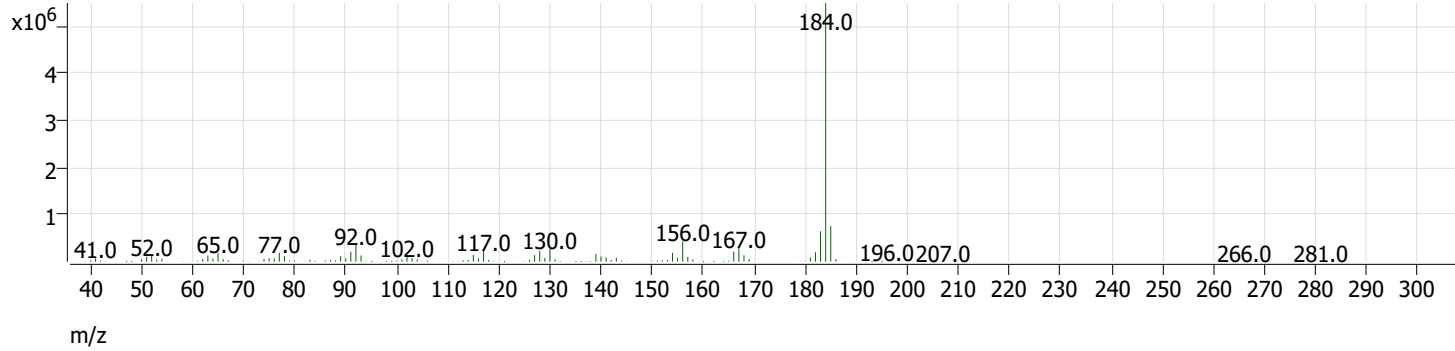
Compound Name	Expected RT	Observed RT	TIC Area	Breakdown %	Pass/Fail
4,4'-DDT	17.000	16.501	24908262	0.1	Pass
4,4'-DDD	16.200	16.173	31622		

Tune Evaluation Report

+ Scan (rt: 13.068 min) 072604.D Pentachlorophenol



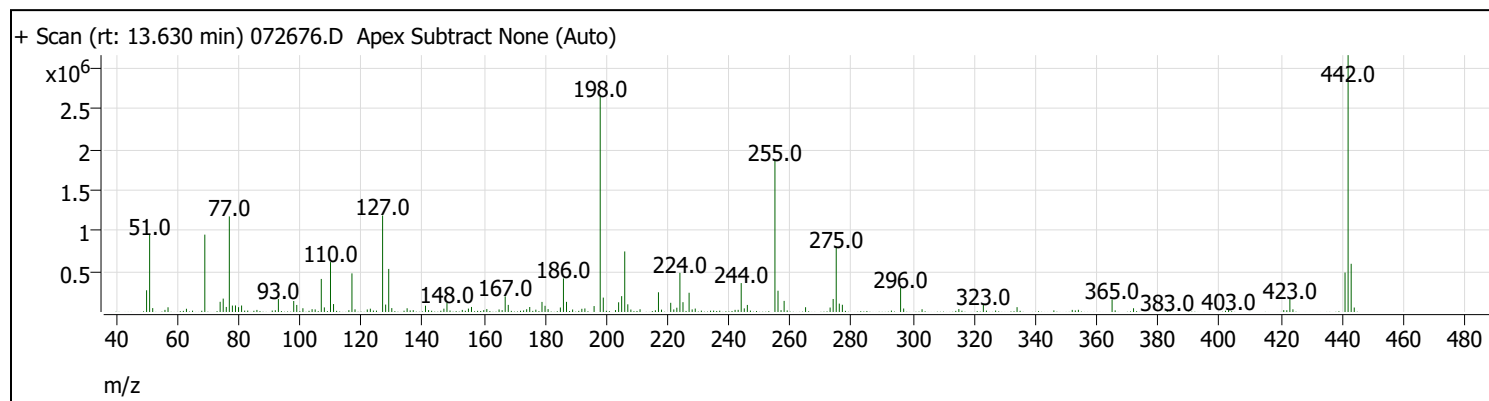
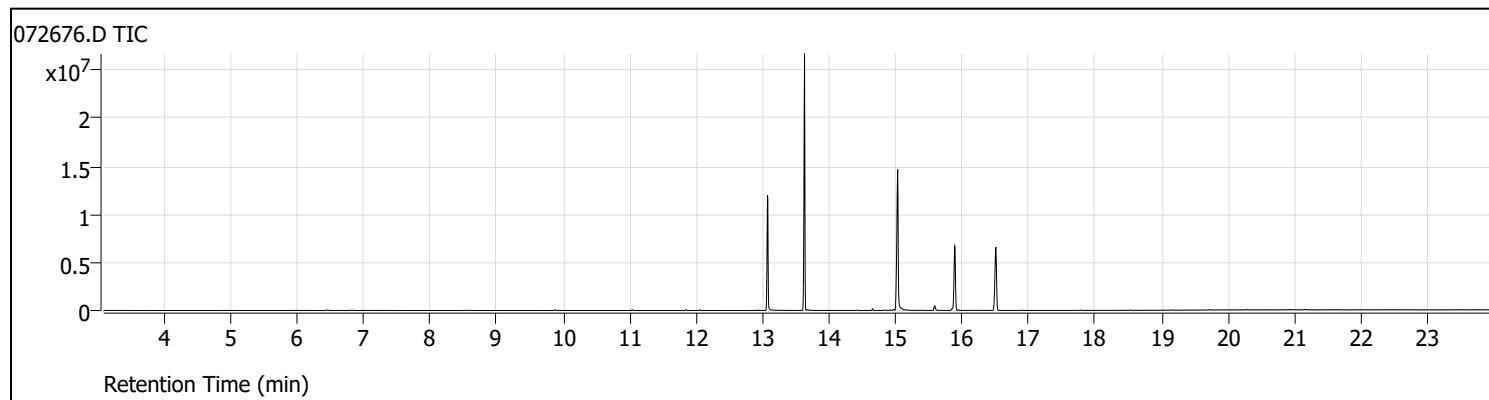
+ Scan (rt: 15.020 min) 072604.D Benzidine



Compound Name	Expected RT	Observed RT	Tailing Factor	PGF	Pass/Fail
Pentachlorophenol	13.092	13.068	0.6	8.8	Pass
Benzidine	15.049	15.020	0.5	6.7	Pass

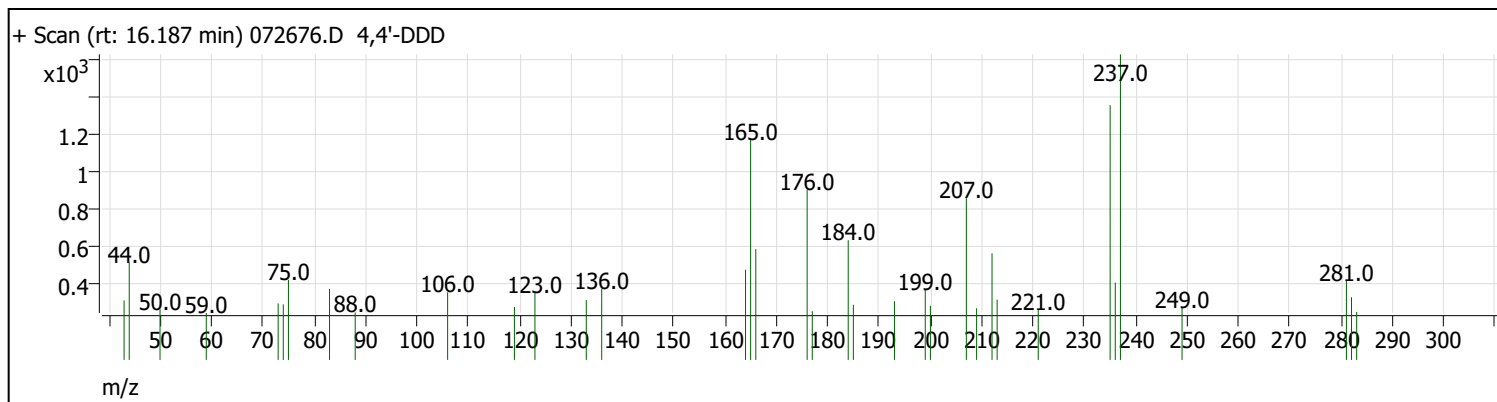
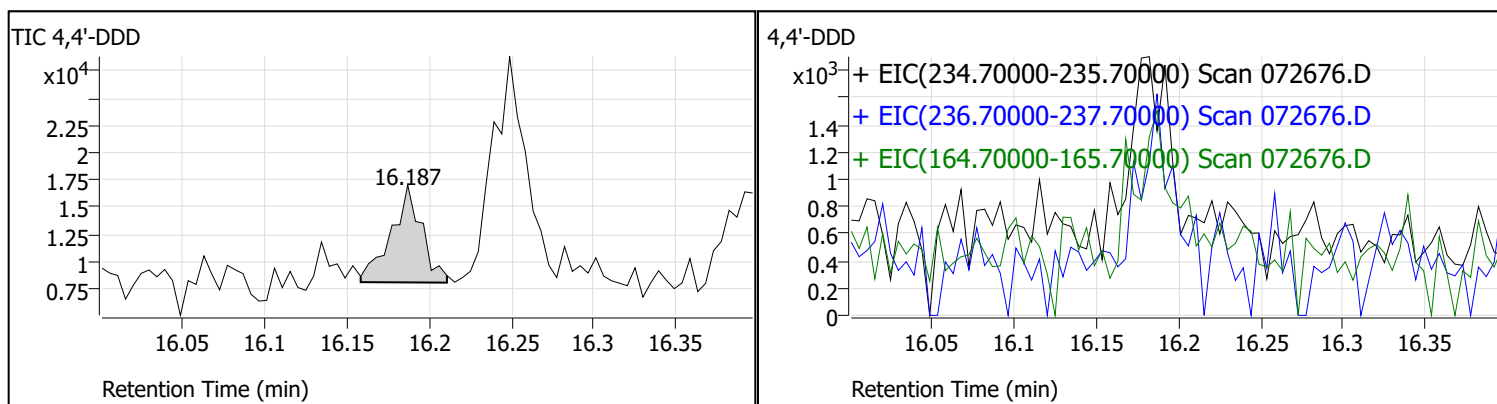
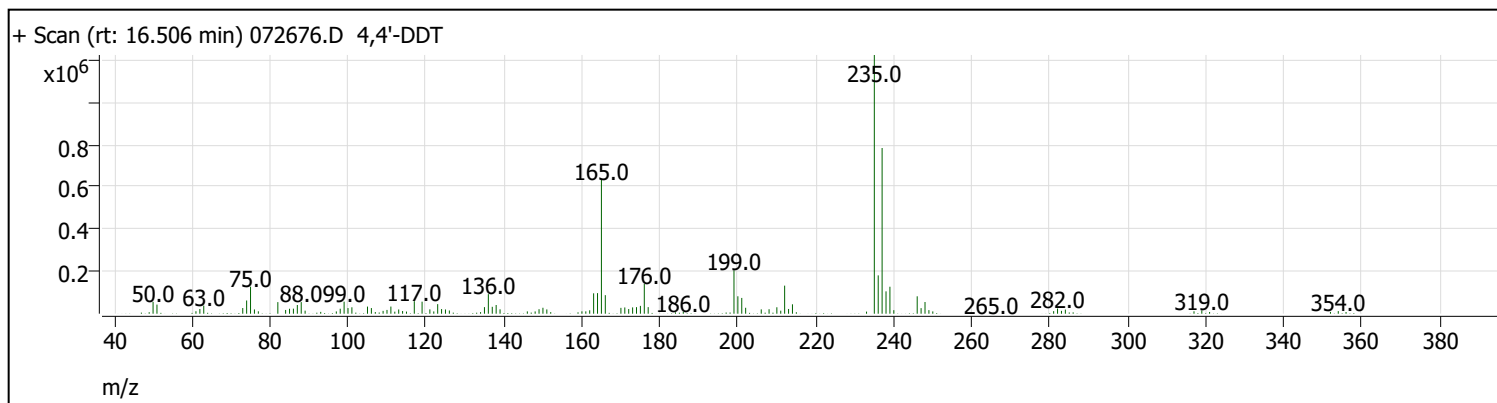
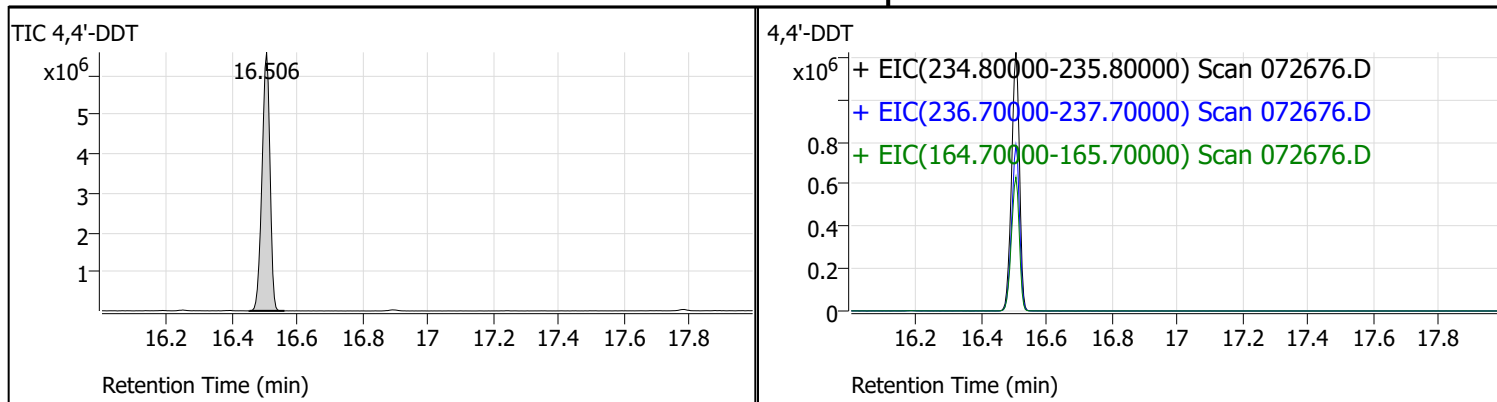
Tune Evaluation Report

Data Path: C:\GC-14\Data\2023\072623\072676.D
 Acq on: 7/28/2023 1:38:24 AM
 Operator: FA\GC14
 Sample: TUNE
 Inst Name: GC-14
 ALS Vial: 1
 Method: C:\GC-14\Methods\Quant
 Methods\TUNE\DFTPPwBreak&TailingGC218270E.m



Target Mass	Rel. To Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Pass/Fail
68	69	0	2	1.6	15241	Pass
70	69	0	2	0.4	3969	Pass
197	198	0	2	0.0	0	Pass
198	198	100	100	100.0	2654208	Pass
199	198	5	9	6.7	177408	Pass
365	442	1	100	4.9	156416	Pass
441	443	1E-10	150	81.9	486528	Pass
442	442	100	100	100.0	3165696	Pass
443	442	15	24	18.8	594112	Pass
69	69	100	100	100.0	953600	Pass

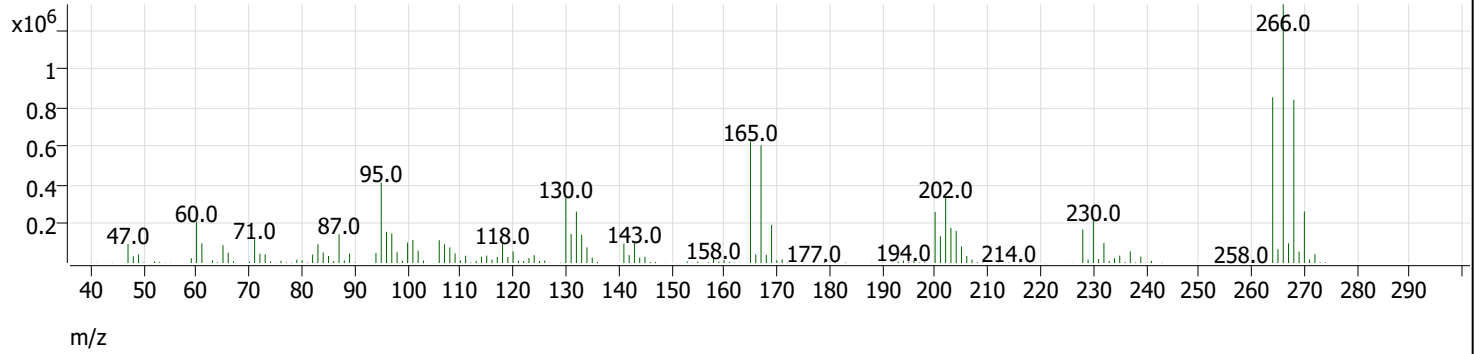
Tune Evaluation Report



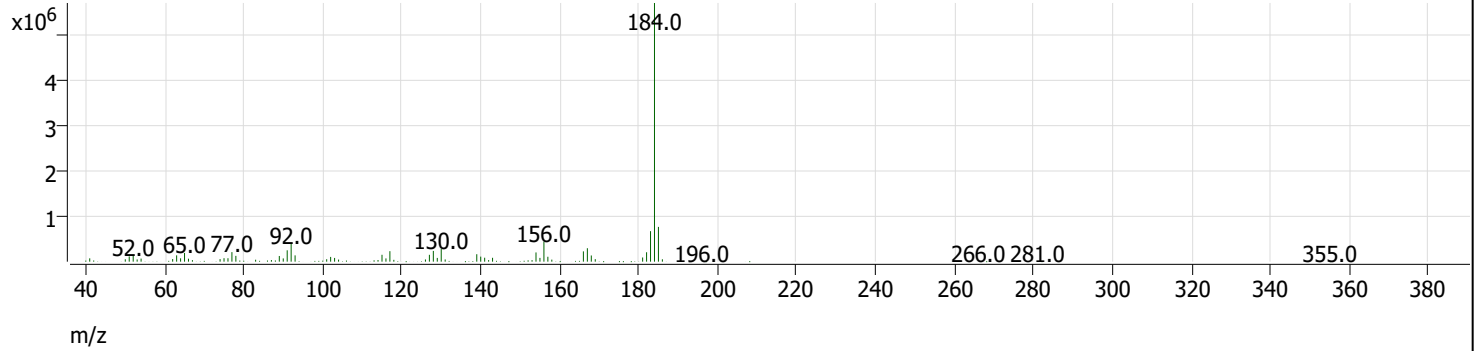
Compound Name	Expected RT	Observed RT	TIC Area	Breakdown %	Pass/Fail
4,4'-DDT	17.000	16.506	11119491	0.1	Pass
4,4'-DDD	16.200	16.187	11513		

Tune Evaluation Report

+ Scan (rt: 13.073 min) 072676.D Pentachlorophenol



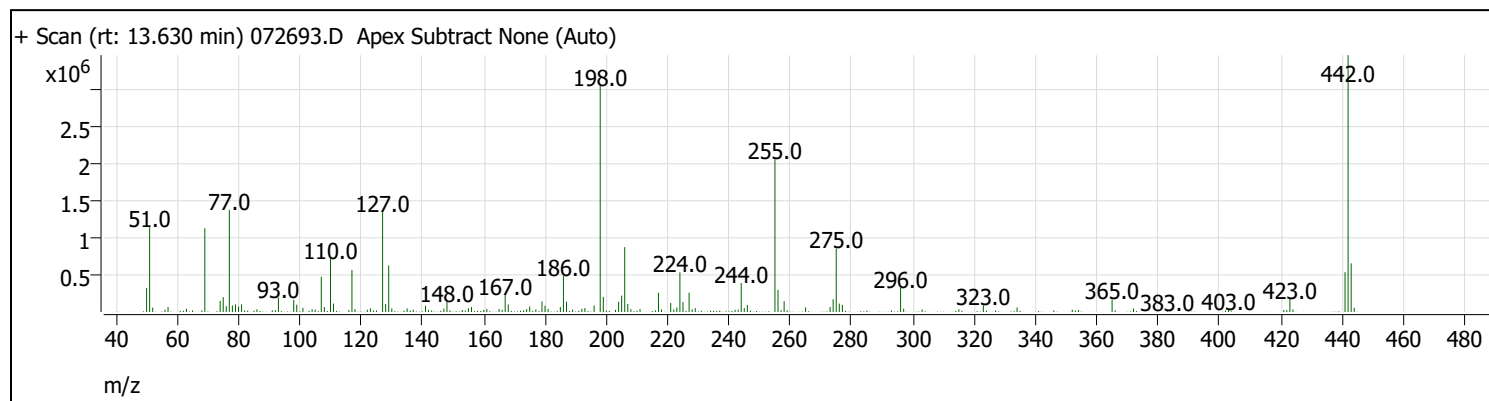
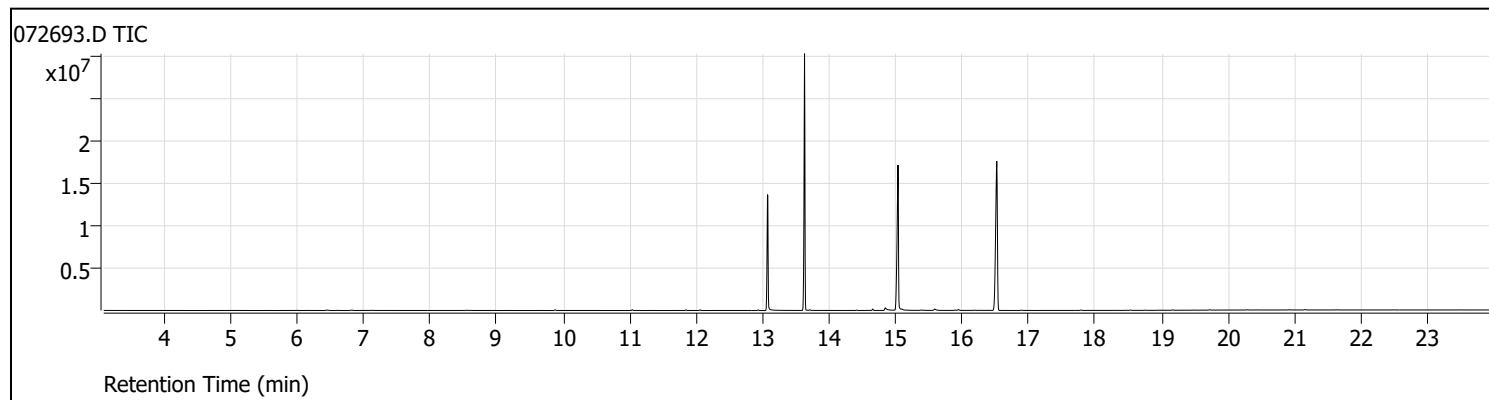
+ Scan (rt: 15.030 min) 072676.D Benzidine



Compound Name	Expected RT	Observed RT	Tailing Factor	PGF	Pass/Fail
Pentachlorophenol	13.092	13.073	1.0	15.5	Pass
Benzidine	15.049	15.030	0.6	11.5	Pass

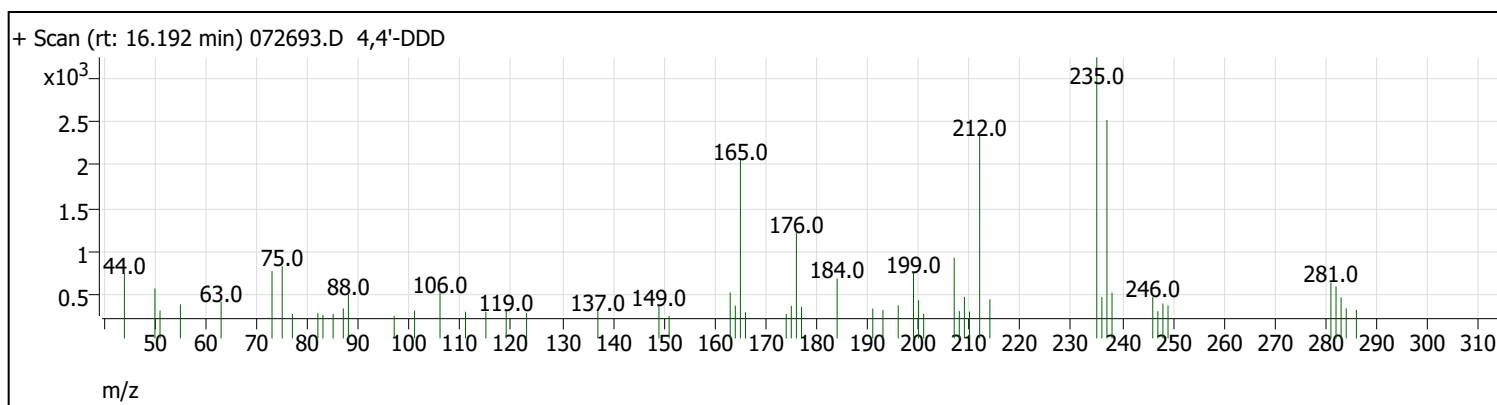
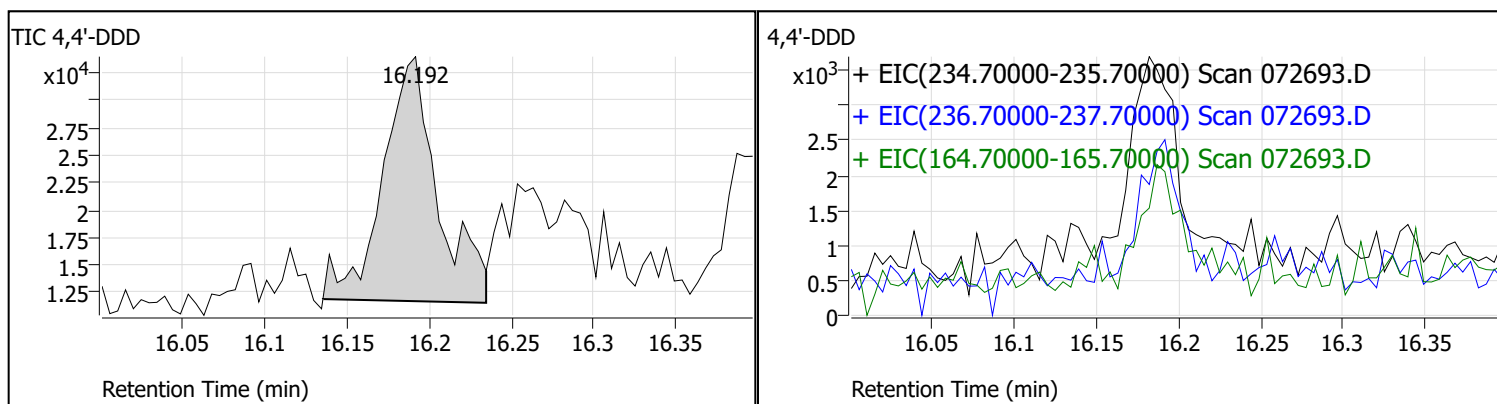
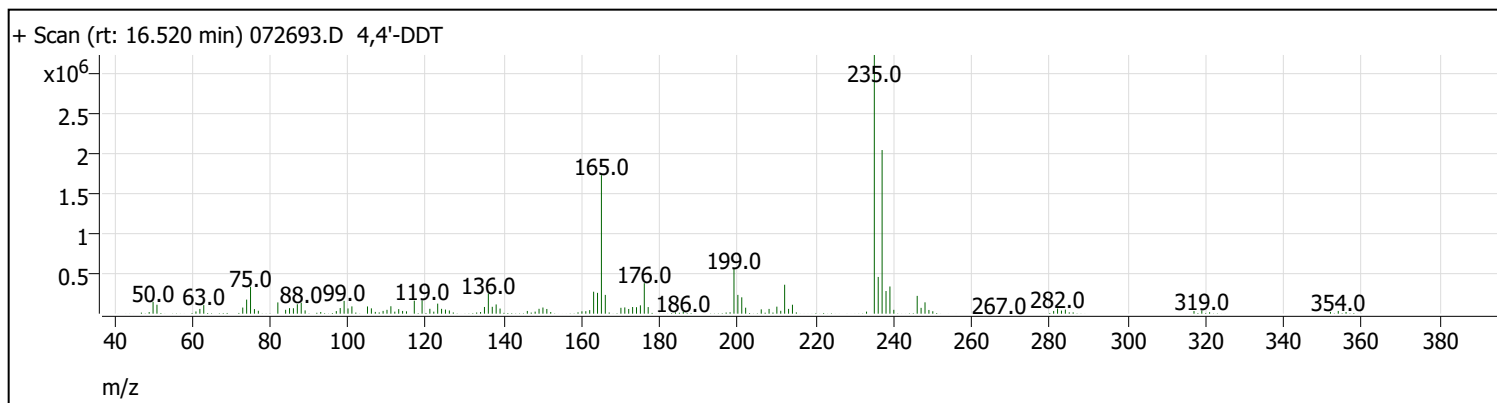
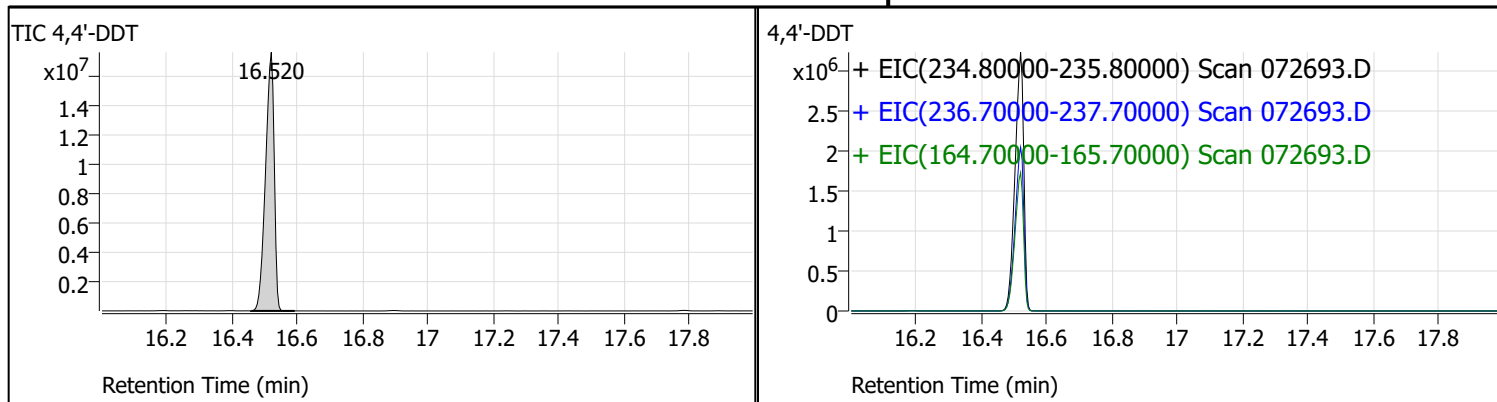
Tune Evaluation Report

Data Path: C:\GC-14\Data\2023\072623\072693.D
 Acq on: 7/28/2023 9:44:49 AM
 Operator: FA\GC14
 Sample: TUNE
 Inst Name: GC-14
 ALS Vial: 1
 Method: C:\GC-14\Methods\Quant
 Methods\TUNE\DFTPPwBreak&TailingGC218270E.m



Target Mass	Rel. To Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Pass/Fail
68	69	0	2	1.7	19408	Pass
70	69	0	2	0.6	6976	Pass
197	198	0	2	0.0	0	Pass
198	198	100	100	100.0	3051520	Pass
199	198	5	9	6.7	203200	Pass
365	442	1	100	4.9	169280	Pass
441	443	1E-10	150	81.8	536704	Pass
442	442	100	100	100.0	3465216	Pass
443	442	15	24	18.9	655808	Pass
69	69	100	100	100.0	1129472	Pass

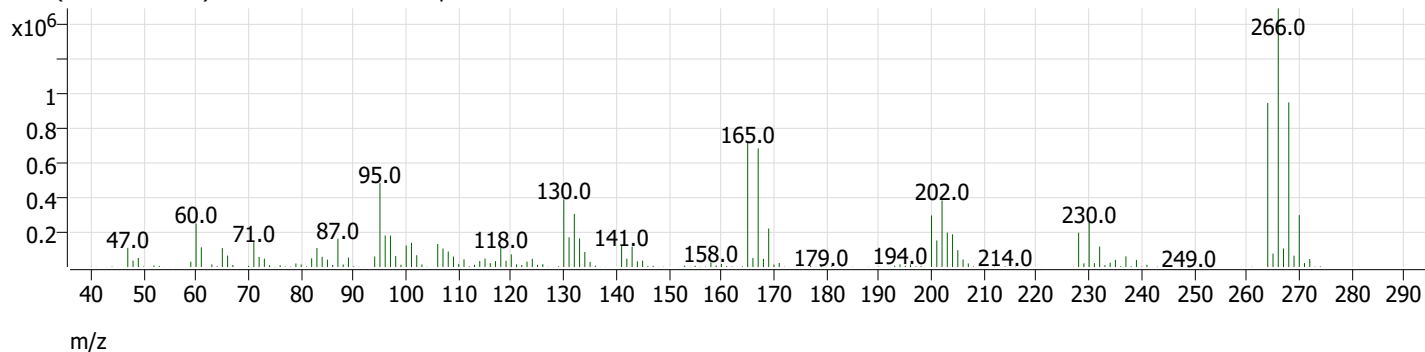
Tune Evaluation Report



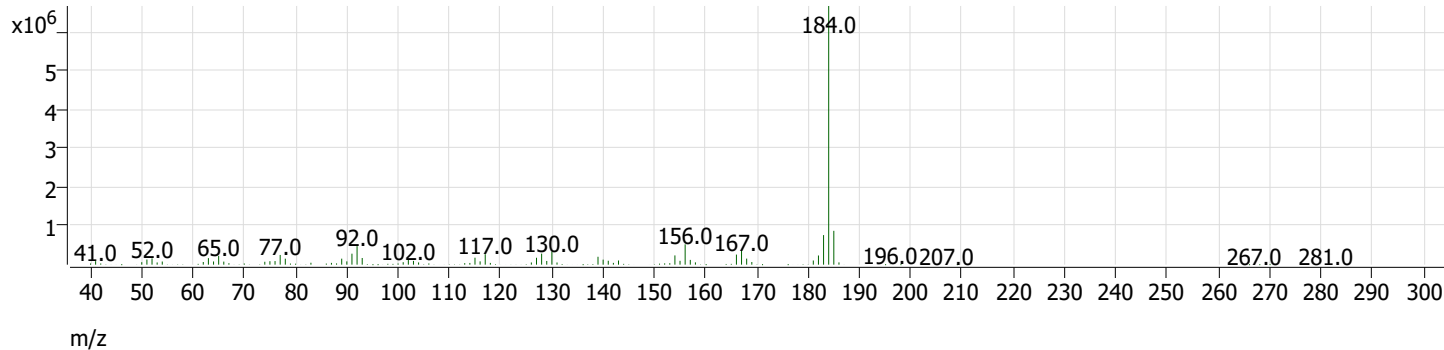
Compound Name	Expected RT	Observed RT	TIC Area	Breakdown %	Pass/Fail
4,4'-DDT	17.000	16.520	32672540	0.2	Pass
4,4'-DDD	16.200	16.192	51132		

Tune Evaluation Report

+ Scan (rt: 13.073 min) 072693.D Pentachlorophenol



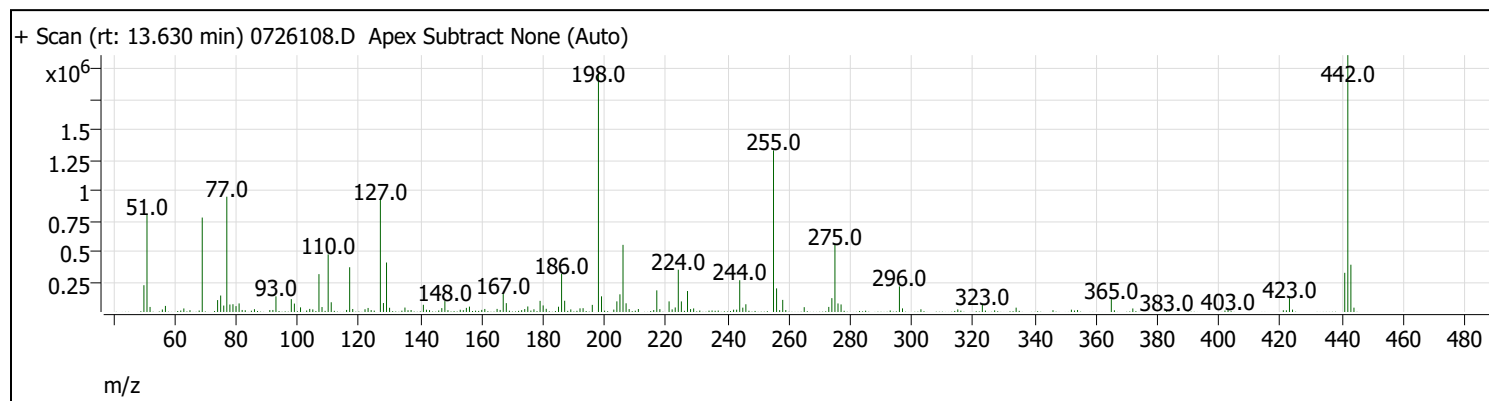
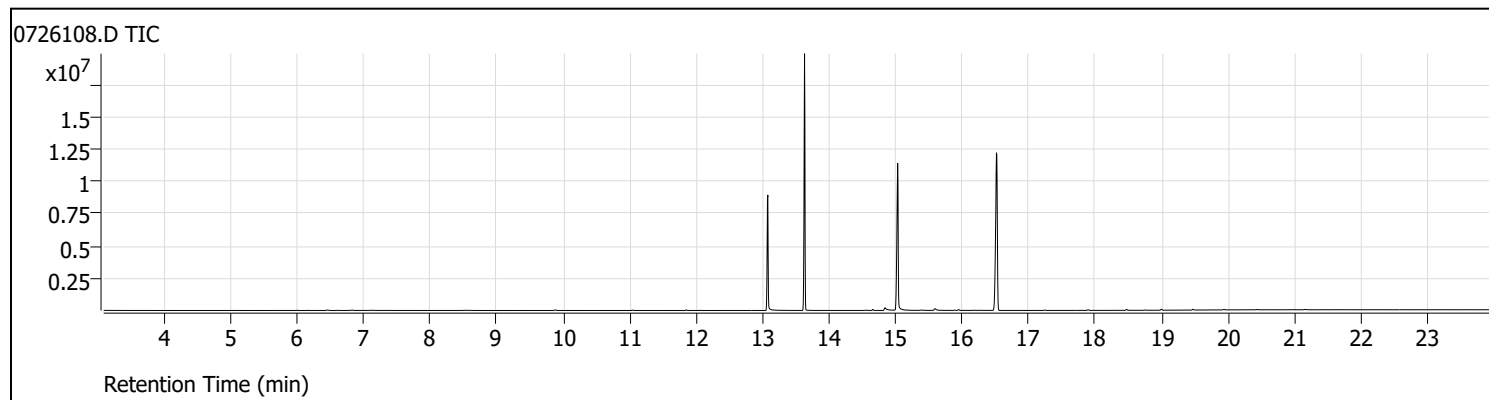
+ Scan (rt: 15.035 min) 072693.D Benzidine



Compound Name	Expected RT	Observed RT	Tailing Factor	PGF	Pass/Fail
Pentachlorophenol	13.092	13.073	1.0	8.5	Pass
Benzidine	15.049	15.035	0.5	6.3	Pass

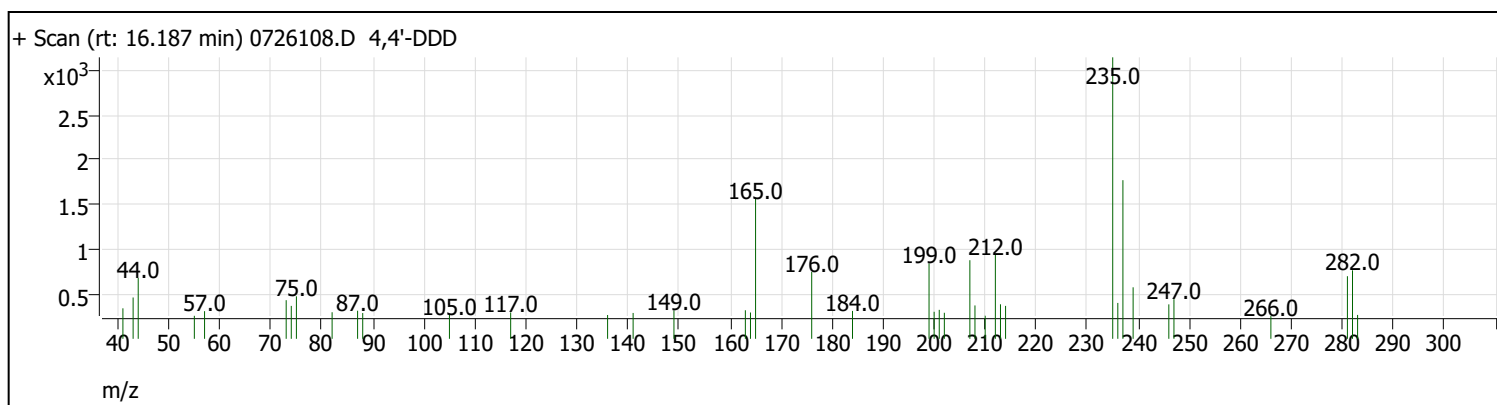
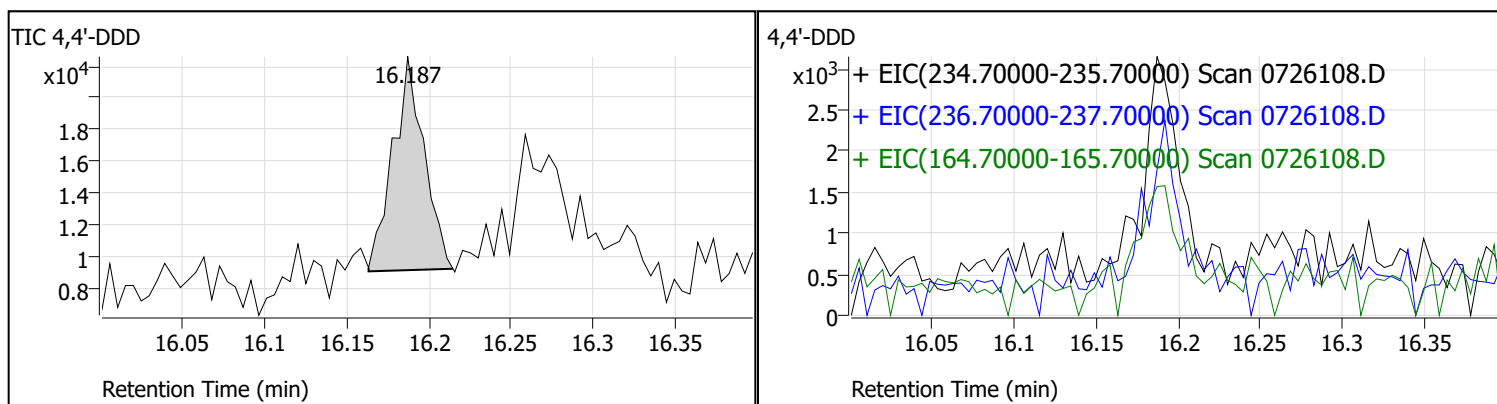
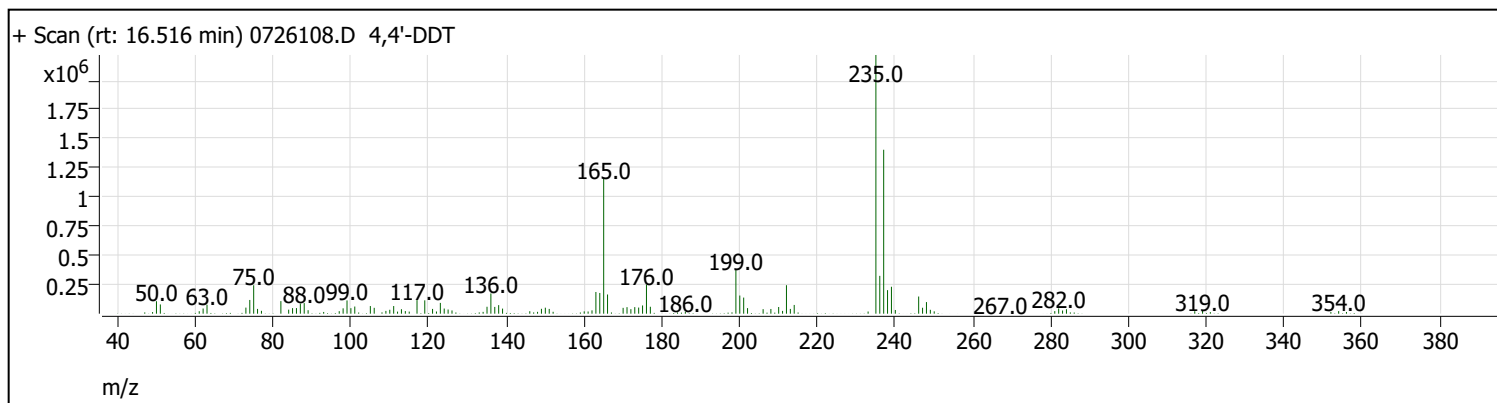
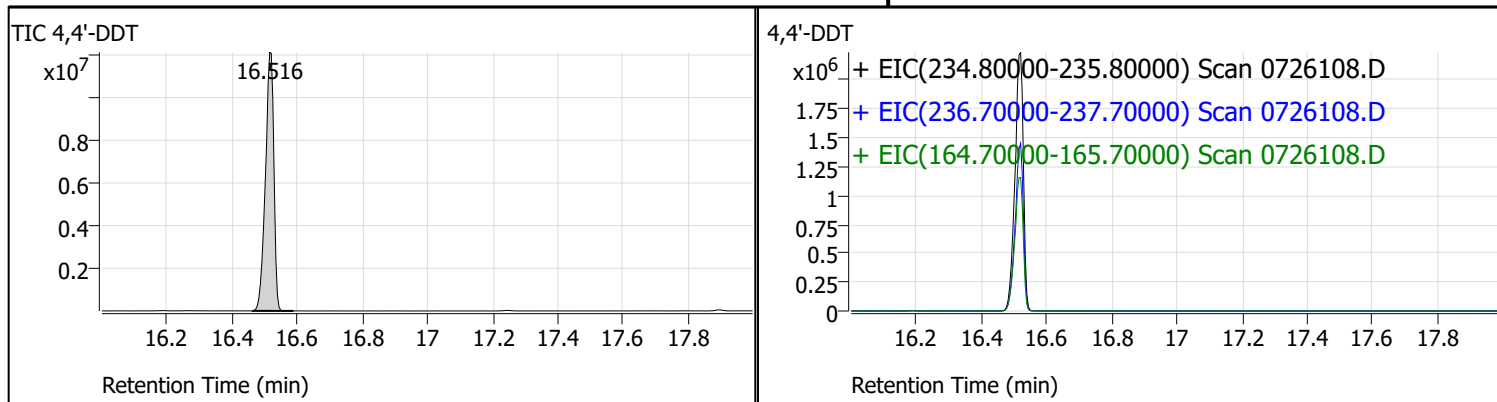
Tune Evaluation Report

Data Path: C:\GC-14\Data\2023\072623\0726108.D
 Acq on: 7/28/2023 4:52:22 PM
 Operator: FA\GC14
 Sample: TUNE
 Inst Name: GC-14
 ALS Vial: 1
 Method: C:\GC-14\Methods\Quant
 Methods\TUNE\DFTPPwBreak&TailingGC218270E.m



Target Mass	Rel. To Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Pass/Fail
68	69	0	2	1.6	12324	Pass
70	69	0	2	0.6	4300	Pass
197	198	0	2	0.0	0	Pass
198	198	100	100	100.0	1968128	Pass
199	198	5	9	6.6	129232	Pass
365	442	1	100	5.1	107352	Pass
441	443	1E-10	150	82.9	323008	Pass
442	442	100	100	100.0	2116608	Pass
443	442	15	24	18.4	389696	Pass
69	69	100	100	100.0	778176	Pass

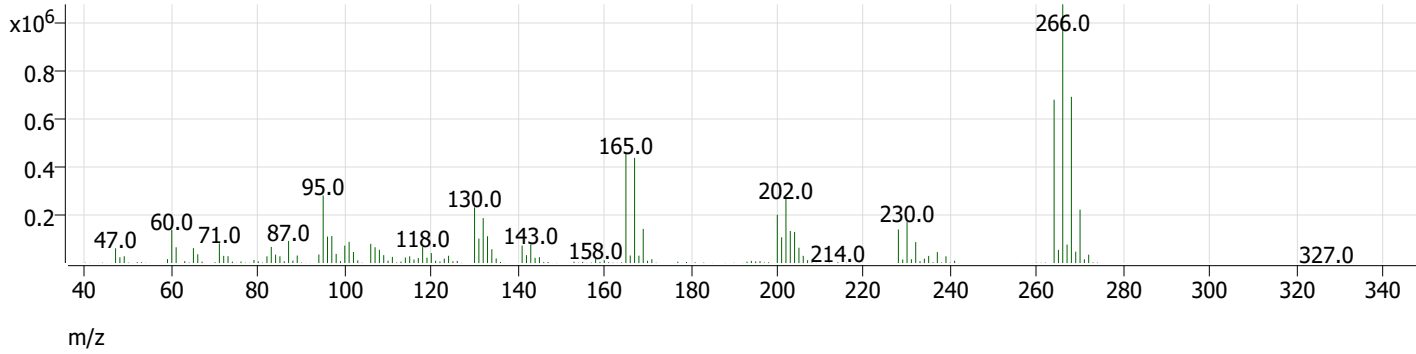
Tune Evaluation Report



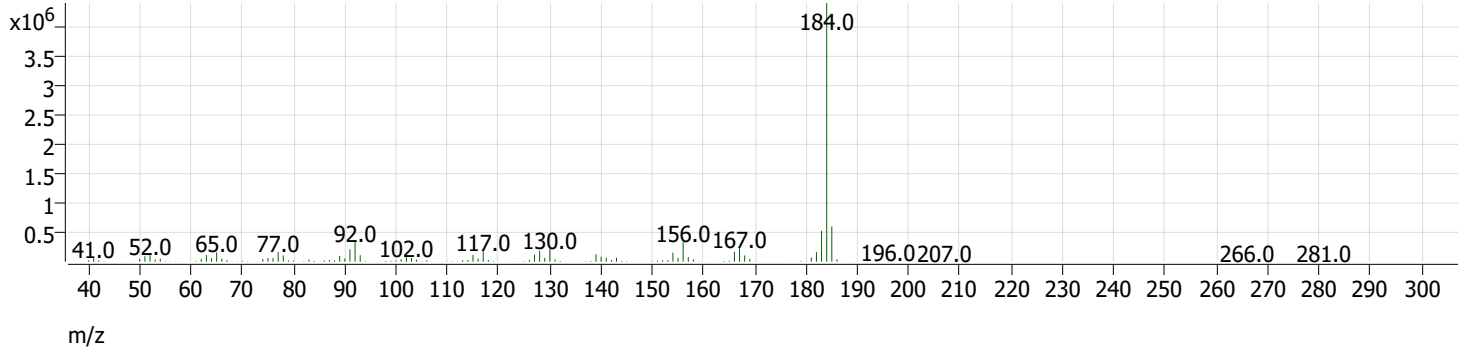
Compound Name	Expected RT	Observed RT	TIC Area	Breakdown %	Pass/Fail
4,4'-DDT	17.000	16.516	21746230	0.1	Pass
4,4'-DDD	16.200	16.187	17737		

Tune Evaluation Report

+ Scan (rt: 13.078 min) 0726108.D Pentachlorophenol



+ Scan (rt: 15.030 min) 0726108.D Benzidine



Compound Name	Expected RT	Observed RT	Tailing Factor	PGF	Pass/Fail
Pentachlorophenol	13.092	13.078	0.6	10.5	Pass
Benzidine	15.049	15.030	0.6	8.0	Pass



Supporting Data

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-14 230726A CCV Name: PAH-S MDPT
 Run No: 85506 CCV SeqNo: 1784088
 Lab File ID (Standard): 062725.D Date Analyzed: 6/27/2023
 Instrument ID: GC-14 Time Analyzed: 21:00
 GC Column: ID (mm): Length (M):

	IS1 (14DCBZ)		IS2 Acenaphthene-d10		IS3 Chrysene-d12		IS4 Naphthalene-d8	
	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	0	0.000	264944	11.460	395428	17.544	700252	9.241
UPPER LIMIT	0	0.500	529888	11.960	790856	18.044	1400504	9.741
LOWER LIMIT	0	-0.500	132472	10.960	197714	17.044	350126	8.741
SAMPLE NO.								
01 CCV-40988A	0	0	195760	11.437	362474	17.507	623032	9.219
02 CCV-40988B	0	0	218158	11.436	432124	17.507	685278	9.219
03 QCS-40988A	0	0	218302	11.437	438877	17.507	685065	9.219

IS1 (14DCBZ) = 1,4-Dichlorobenzene-d4

IS3 Chrysene-d12 = Chrysene-d12

IS2 Acenaphthene-d10 = Acenaphthene-d10

IS4 Naphthalene-d8 = Naphthalene-d8

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-14 230726A CCV Name: PAH-S MDPT
 Run No: 85506 CCV SeqNo: 1784088
 Lab File ID (Standard): 062725.D Date Analyzed: 6/27/2023
 Instrument ID: GC-14 Time Analyzed: 21:00
 GC Column: ID (mm): Length (M):

	S5 Perylene-d12		S6 Phenanthrene-d10				
	AREA #	RT #	AREA #	RT #			
12 HOUR STD	443932	19.903	470263	13.334			
UPPER LIMIT	887864	20.403	940526	13.834			
LOWER LIMIT	221966	19.403	235132	12.834			
SAMPLE NO.							
01	CCV-40988A	455884	19.863	390842	13.307		
02	CCV-40988B	529491	19.863	439548	13.307		
03	QCS-40988A	500807	19.876	438196	13.307		

IS5 Perylene-d12 = Perylene-d12

IS6 Phenanthrene-d10 = Phenanthrene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-14 230726A CCV Name: CCV-40988A
 Run No: 85506 CCV SeqNo: 1784058
 Lab File ID (Standard): 072511.D Date Analyzed: 7/25/2023
 Instrument ID: GC-14 Time Analyzed: 17:34
 GC Column: ID (mm): Length (M):

	IS1 (14DCBZ)		2 Acenaphthene-d		IS3 Chrysene-d12		S4 Naphthalene-d8	
	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	0	0.000	195760	11.437	362474	17.507	623032	9.219
UPPER LIMIT	0	0.500	391520	11.937	724948	18.007	1246064	9.719
LOWER LIMIT	0	-0.500	97880	10.937	181237	17.007	311516	8.719
SAMPLE NO.								
01 MB-40988	0	0	181650	11.436	351379	17.508	622119	9.219
02 LCS-40988	0	0	198389	11.436	368769	17.507	602315	9.219

IS1 (14DCBZ) = 1,4-Dichlorobenzene-d4

IS3 Chrysene-d12 = Chrysene-d12

IS2 Acenaphthene-d10 = Acenaphthene-d10

IS4 Naphthalene-d8 = Naphthalene-d8

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-14 230726A CCV Name: CCV-40988A
 Run No: 85506 CCV SeqNo: 1784058
 Lab File ID (Standard): 072511.D Date Analyzed: 7/25/2023
 Instrument ID: GC-14 Time Analyzed: 17:34
 GC Column: ID (mm): Length (M):

	S5 Perylene-d12		S6 Phenanthrene-d10					
	AREA #	RT #	AREA #	RT #				
12 HOUR STD	455884	19.863	390842	13.307				
UPPER LIMIT	911768	20.363	781684	13.807				
LOWER LIMIT	227942	19.363	195421	12.807				
SAMPLE NO.								
01 MB-40988	436562	19.864	381335	13.307				
02 LCS-40988	462320	19.867	381162	13.307				

IS5 Perylene-d12 = Perylene-d12

IS6 Phenanthrene-d10 = Phenanthrene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-14 230726A CCV Name: CCV-40988B
 Run No: 85506 CCV SeqNo: 1784077
 Lab File ID (Standard): 072532.D Date Analyzed: 7/26/2023
 Instrument ID: GC-14 Time Analyzed: 3:29
 GC Column: ID (mm): Length (M):

	IS1 (14DCBZ)		2 Acenaphthene-d		IS3 Chrysene-d12		S4 Naphthalene-d	
	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	0	0.000	218158	11.436	432124	17.507	685278	9.219
UPPER LIMIT	0	0.500	436316	11.936	864248	18.007	1370556	9.719
LOWER LIMIT	0	-0.500	109079	10.936	216062	17.007	342639	8.719
SAMPLE NO.								
01 2307302-002A	0	0	201435	11.435	382880	17.507	675174	9.219

IS1 (14DCBZ) = 1,4-Dichlorobenzene-d4

IS3 Chrysene-d12 = Chrysene-d12

IS2 Acenaphthene-d10 = Acenaphthene-d10

IS4 Naphthalene-d8 = Naphthalene-d8

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-14 230726A CCV Name: CCV-40988B
 Run No: 85506 CCV SeqNo: 1784077
 Lab File ID (Standard): 072532.D Date Analyzed: 7/26/2023
 Instrument ID: GC-14 Time Analyzed: 3:29
 GC Column: ID (mm): Length (M):

	S5 Perylene-d12		S6 Phenanthrene-d10					
	AREA #	RT #	AREA #	RT #				
12 HOUR STD	529491	19.863	439548	13.307				
UPPER LIMIT	1058982	20.363	879096	13.807				
LOWER LIMIT	264746	19.363	219774	12.807				
SAMPLE NO.								
01 2307302-002A	436881	19.868	428555	13.307				

IS5 Perylene-d12 = Perylene-d12

IS6 Phenanthrene-d10 = Phenanthrene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-14 230726A CCV Name: PAH-S MDPT
 Run No: 85506 CCV SeqNo: 1784554
 Lab File ID (Standard): 072617.D Date Analyzed: 7/26/2023
 Instrument ID: GC-14 Time Analyzed: 19:58
 GC Column: ID (mm): Length (M):

	IS1 (14DCBZ)		2 Acenaphthene-d		IS3 Chrysene-d12		S4 Naphthalene-d	
	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	0	0.000	264799	11.429	481056	17.493	801473	9.210
UPPER LIMIT	0	0.500	529598	11.929	962112	17.993	1602946	9.710
LOWER LIMIT	0	-0.500	132400	10.929	240528	16.993	400737	8.710
SAMPLE NO.								
01 CCV-40988B	0	0	247280	11.429	452650	17.493	751521	9.21

IS1 (14DCBZ) = 1,4-Dichlorobenzene-d4

IS3 Chrysene-d12 = Chrysene-d12

IS2 Acenaphthene-d10 = Acenaphthene-d10

IS4 Naphthalene-d8 = Naphthalene-d8

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-14 230726A CCV Name: PAH-S MDPT
 Run No: 85506 CCV SeqNo: 1784554
 Lab File ID (Standard): 072617.D Date Analyzed: 7/26/2023
 Instrument ID: GC-14 Time Analyzed: 19:58
 GC Column: ID (mm): Length (M):

	S5 Perylene-d12		S6 Phenanthrene-d10					
	AREA #	RT #	AREA #	RT #				
12 HOUR STD	608061	19.857	521687	13.297				
UPPER LIMIT	1216122	20.357	1043374	13.797				
LOWER LIMIT	304031	19.357	260844	12.797				
SAMPLE NO.								
01 CCV-40988B	571143	19.857	492362	13.297				

IS5 Perylene-d12 = Perylene-d12

IS6 Phenanthrene-d10 = Phenanthrene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-14 230726A CCV Name: CCV-40988B
 Run No: 85506 CCV SeqNo: 1784550
 Lab File ID (Standard): 072641.D Date Analyzed: 7/27/2023
 Instrument ID: GC-14 Time Analyzed: 7:16
 GC Column: ID (mm): Length (M):

	IS1 (14DCBZ)	IS2 Acenaphthene-d10	IS3 Chrysene-d12	IS4 Naphthalene-d8
	AREA #	RT #	AREA #	RT #
12 HOUR STD	0	0.000	247280	11.429
UPPER LIMIT	0	0.500	494560	11.929
LOWER LIMIT	0	-0.500	123640	10.929
SAMPLE NO.				
01 MB-40988	0	0	221270	11.429
02 LCS-40988	0	0	240669	11.429
03 2307302-002A	0	0	218422	11.429

IS1 (14DCBZ) = 1,4-Dichlorobenzene-d4

IS3 Chrysene-d12 = Chrysene-d12

IS2 Acenaphthene-d10 = Acenaphthene-d10

IS4 Naphthalene-d8 = Naphthalene-d8

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-14 230726A CCV Name: CCV-40988B
 Run No: 85506 CCV SeqNo: 1784550
 Lab File ID (Standard): 072641.D Date Analyzed: 7/27/2023
 Instrument ID: GC-14 Time Analyzed: 7:16
 GC Column: ID (mm): Length (M):

	S5 Perylene-d12		S6 Phenanthrene-d10					
	AREA #	RT #	AREA #	RT #				
12 HOUR STD	571143	19.857	492362	13.297				
UPPER LIMIT	1142286	20.357	984724	13.797				
LOWER LIMIT	285572	19.357	246181	12.797				
SAMPLE NO.								
01 MB-40988	465067	19.857	453679	13.297				
02 LCS-40988	524676	19.857	457291	13.297				
03 2307302-002A	487371	19.861	456251	13.297				

IS5 Perylene-d12 = Perylene-d12

IS6 Phenanthrene-d10 = Phenanthrene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-14 230728B CCV Name: PAH-S MDPT
 Run No: 85545 CCV SeqNo: 1784858
 Lab File ID (Standard): 072617.D Date Analyzed: 7/26/2023
 Instrument ID: GC-14 Time Analyzed: 19:58
 GC Column: ID (mm): Length (M):

	IS1 (14DCBZ)	IS2 Acenaphthene-d10	IS3 Chrysene-d12	IS4 Naphthalene-d8
	AREA #	RT #	AREA #	RT #
12 HOUR STD	0	0.000	264799	11.429
UPPER LIMIT	0	0.500	529598	11.929
LOWER LIMIT	0	-0.500	132400	10.929
SAMPLE NO.				
01 CCV-40996A	0	0	223505	11.429
02 CCV-40996B	0	0	231048	11.428
03 CCV-40996C	0	0	226501	11.434
04 QCS-40996D	0	0	226821	11.429

IS1 (14DCBZ) = 1,4-Dichlorobenzene-d4

IS3 Chrysene-d12 = Chrysene-d12

IS2 Acenaphthene-d10 = Acenaphthene-d10

IS4 Naphthalene-d8 = Naphthalene-d8

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-14 230728B CCV Name: PAH-S MDPT
 Run No: 85545 CCV SeqNo: 1784858
 Lab File ID (Standard): 072617.D Date Analyzed: 7/26/2023
 Instrument ID: GC-14 Time Analyzed: 19:58
 GC Column: ID (mm): Length (M):

	S5 Perylene-d12		S6 Phenanthrene-d10					
	AREA #	RT #	AREA #	RT #				
12 HOUR STD	608061	19.857	521687	13.297				
UPPER LIMIT	1216122	20.357	1043374	13.797				
LOWER LIMIT	304031	19.357	260844	12.797				
SAMPLE NO.								
01	CCV-40996A	539877	19.862	451775	13.304			
02	CCV-40996B	525098	19.866	454379	13.304			
03	CCV-40996C	529792	19.866	452108	13.304			
04	QCS-40996D	521429	19.862	450312	13.304			

IS5 Perylene-d12 = Perylene-d12

IS6 Phenanthrene-d10 = Phenanthrene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-14 230728B CCV Name: CCV-40996A
 Run No: 85545 CCV SeqNo: 1784859
 Lab File ID (Standard): 072677.D Date Analyzed: 7/28/2023
 Instrument ID: GC-14 Time Analyzed: 2:07
 GC Column: ID (mm): Length (M):

	IS1 (14DCBZ)	IS2 Acenaphthene-d10	IS3 Chrysene-d12	IS4 Naphthalene-d8
	AREA #	RT #	AREA #	RT #
12 HOUR STD	0	0.000	223505	11.429
UPPER LIMIT	0	0.500	447010	11.929
LOWER LIMIT	0	-0.500	111753	10.929
SAMPLE NO.				
01 MB-40996	0	0	178304	11.429
02 LCS-40996	0	0	214948	11.429
03 2307302-001A	0	0	185614	11.429
04 2307302-004A	0	0	191651	11.429
05 2307302-005A	0	0	183375	11.428

IS1 (14DCBZ) = 1,4-Dichlorobenzene-d4

IS3 Chrysene-d12 = Chrysene-d12

IS2 Acenaphthene-d10 = Acenaphthene-d10

IS4 Naphthalene-d8 = Naphthalene-d8

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-14 230728B CCV Name: CCV-40996A
 Run No: 85545 CCV SeqNo: 1784859
 Lab File ID (Standard): 072677.D Date Analyzed: 7/28/2023
 Instrument ID: GC-14 Time Analyzed: 2:07
 GC Column: ID (mm): Length (M):

	S5 Perylene-d12		S6 Phenanthrene-d10					
	AREA #	RT #	AREA #	RT #				
12 HOUR STD	539877	19.862	451775	13.304				
UPPER LIMIT	1079754	20.362	903550	13.804				
LOWER LIMIT	269939	19.362	225888	12.804				
SAMPLE NO.								
01 MB-40996	390726	19.862	364291	13.304				
02 LCS-40996	468864	19.861	414795	13.303				
03 2307302-001A	401700	19.866	381956	13.304				
04 2307302-004A	412948	19.866	391172	13.304				
05 2307302-005A	394134	19.866	374803	13.303				

IS5 Perylene-d12 = Perylene-d12

IS6 Phenanthrene-d10 = Phenanthrene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-14 230728BCCV Name: CCV-40996BRun No: 85545CCV SeqNo: 1784995Lab File ID (Standard): 072694.DDate Analyzed: 7/28/2023Instrument ID: GC-14Time Analyzed: 10:13

GC Column:

ID (mm):

Length (M):

	IS1 (14DCBZ)		IS2 Acenaphthene-d10		IS3 Chrysene-d12		IS4 Naphthalene-d8	
	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	0	0.000	231048	11.428	411163	17.501	683769	9.210
UPPER LIMIT	0	0.500	462096	11.928	822326	18.001	1367538	9.710
LOWER LIMIT	0	-0.500	115524	10.928	205582	17.001	341885	8.710
SAMPLE NO.								
01 MB-40996	0	0	187035	11.429	334265	17.501	640001	9.21
02 LCS-40996	0	0	218943	11.429	391027	17.501	635108	9.21
03 2307302-004A	0	0	195329	11.429	341524	17.501	668438	9.21
04 2307278-006A	0	0	183101	11.435	318678	17.5	625265	9.214
05 2307278-006AMS	0	0	216631	11.434	399356	17.501	640202	9.214
06 2307278-006AMSD	0	0	217312	11.436	381528	17.501	642053	9.215

IS1 (14DCBZ) = 1,4-Dichlorobenzene-d4

IS3 Chrysene-d12 = Chrysene-d12

IS2 Acenaphthene-d10 = Acenaphthene-d10

IS4 Naphthalene-d8 = Naphthalene-d8

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-14 230728B CCV Name: CCV-40996B
 Run No: 85545 CCV SeqNo: 1784995
 Lab File ID (Standard): 072694.D Date Analyzed: 7/28/2023
 Instrument ID: GC-14 Time Analyzed: 10:13
 GC Column: ID (mm): Length (M):

	S5 Perylene-d12		S6 Phenanthrene-d10					
	AREA #	RT #	AREA #	RT #				
12 HOUR STD	525098	19.866	454379	13.304				
UPPER LIMIT	1050196	20.366	908758	13.804				
LOWER LIMIT	262549	19.366	227190	12.804				
SAMPLE NO.								
01 MB-40996	404219	19.866	382479	13.304				
02 LCS-40996	462836	19.866	419009	13.304				
03 2307302-004A	408966	19.866	399715	13.304				
04 2307278-006A	379649	19.866	374788	13.303				
05 2307278-006AMS	472281	19.866	417536	13.304				
06 2307278-006AMSD	447138	19.866	407778	13.304				

IS5 Perylene-d12 = Perylene-d12

IS6 Phenanthrene-d10 = Phenanthrene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-14 230728B

CCV Name: CCV-40996C

Run No: 85545

CCV SeqNo: 1785601

Lab File ID (Standard): 0726109.D

Date Analyzed: 7/28/2023

Instrument ID: GC-14

Time Analyzed: 17:21

GC Column: ID (mm):

Length (M):

	IS1 (14DCBZ)	RT #	IS2 Acenaphthene-d10	RT #	IS3 Chrysene-d12	RT #	IS4 Naphthalene-d8	RT #
	AREA #		AREA #		AREA #		AREA #	
12 HOUR STD	0	0.000	226501	11.434	418963	17.508	679252	9.214
UPPER LIMIT	0	0.500	453002	11.934	837926	18.008	1358504	9.714
LOWER LIMIT	0	-0.500	113251	10.934	209482	17.008	339626	8.714
SAMPLE NO.								
01 2307278-001A	0	0	182807	11.436	332410	17.508	619935	9.214
02 2307278-008A	0	0	182042	11.434	335553	17.508	617309	9.214
03 2307278-009A	0	0	175107	11.435	308810	17.508	600554	9.214
04 2307278-010A	0	0	188004	11.436	339025	17.508	636762	9.214
05 2307278-011A	0	0	179454	11.436	324667	17.508	614043	9.214
06 2307278-012A	0	0	183823	11.435	335023	17.508	627571	9.214

IS1 (14DCBZ) = 1,4-Dichlorobenzene-d4

IS3 Chrysene-d12 = Chrysene-d12

IS2 Acenaphthene-d10 = Acenaphthene-d10

IS4 Naphthalene-d8 = Naphthalene-d8

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-14 230728B CCV Name: CCV-40996C
 Run No: 85545 CCV SeqNo: 1785601
 Lab File ID (Standard): 0726109.D Date Analyzed: 7/28/2023
 Instrument ID: GC-14 Time Analyzed: 17:21
 GC Column: ID (mm): Length (M):

	S5 Perylene-d12		S6 Phenanthrene-d10					
	AREA #	RT #	AREA #	RT #				
12 HOUR STD	529792	19.866	452108	13.304				
UPPER LIMIT	1059584	20.366	904216	13.804				
LOWER LIMIT	264896	19.366	226054	12.804				
SAMPLE NO.								
01 2307278-001A	400887	19.866	379286	13.304				
02 2307278-008A	410306	19.866	379886	13.304				
03 2307278-009A	378272	19.866	364444	13.303				
04 2307278-010A	401528	19.866	389826	13.304				
05 2307278-011A	384402	19.87	372419	13.304				
06 2307278-012A	400858	19.866	386037	13.304				

IS5 Perylene-d12 = Perylene-d12

IS6 Phenanthrene-d10 = Phenanthrene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

DATA SET for Review - Deliverable Requirements

Total Metals by EPA Method 6020B

Fremont Analytical Work Order No. 2307302

GeoEngineers

Project Name: S Jackson Street

Project Number: 24504-001-01

This data set contains the following:

- Analytical Sequence Summary
- Calibration Information
- Tune Information
- Internal Standards Report

Batch Summary Report

Batch Folder: D:\Agilent\ICPMH\1\DATA\072823JR.b\
 Analysis File: 072823JR.batch.bin
 Tune Step: #1 No Gas
 #2 He

	Rjct	Acq. Date-Time	Data File	Sample Name	Type	Level	Dilution
1	On	7/28/2023 09:59:03	001CALB.d	CAL BLANK	CalBlk	1	1.0000
2	On	7/28/2023 10:01:38	002CALB.d	CAL BLANK	CalBlk	1	100.0000
3		7/28/2023 10:04:26	003CALB.d	CAL BLANK	CalBlk	1	1.0000
4		7/28/2023 10:07:12	004CALB.d	STANDARD 1	CalStd	2	200.0000
5		7/28/2023 10:10:00	005CALB.d	STANDARD 2	CalStd	3	100.0000
6		7/28/2023 10:12:49	006CALB.d	STANDARD 3	CalStd	4	20.0000
7		7/28/2023 10:15:38	007CALB.d	STANDARD 4	CalStd	5	4.0000
8		7/28/2023 10:18:26	008CALB.d	STANDARD 5	CalStd	6	1.0000
9		7/28/2023 10:20:58	009CALB.d	STANDARD 6	CalStd	7	1.0000
10		7/28/2023 10:23:16	010CALB.d	STANDARD 7	CalStd	8	1.0000
11	On	7/28/2023 10:25:27	011SMPL.d	Wash	Sample		1.0000
12		7/28/2023 10:28:01	012 ICB.d	ICB	ICB		1.0000
13	On	7/28/2023 10:30:35	013 ICV.d	ICV	ICV		1.0000
14	On	7/28/2023 10:32:56	014SMPL.d	ICSA	Sample		1.0000
15	On	7/28/2023 10:35:21	015SMPL.d	Wash	Sample		1.0000
16	On	7/28/2023 10:54:31	016 ICV.d	ICV	ICV		1.0000
17	On	7/28/2023 10:56:53	017SMPL.d	ICSA	Sample		1.0000
18		7/28/2023 11:05:58	018 ICV.d	ICV	ICV		1.0000
19		7/28/2023 11:08:20	019SMPL.d	ICSA	Sample		1.0000
20	On	7/28/2023 11:10:45	020 CCV.d	CCV	CCV		1.0000
21	On	7/28/2023 11:13:07	021 CCB.d	CCB	CCB		1.0000
22	On	7/28/2023 11:15:41	022SMPL.d	Wash	Sample		1.0000
23	On	7/28/2023 11:18:15	023SMPL.d	MB-41012	Sample		1.0000
24	On	7/28/2023 11:20:49	024SMPL.d	LCS-41012	Sample		1.0000
25	On	7/28/2023 11:23:16	025SMPL.d	2307302-003A	Sample		1.0000
26	On	7/28/2023 11:25:38	026SMPL.d	2307302-003ADIL	Sample		1.0000

Batch Summary Report

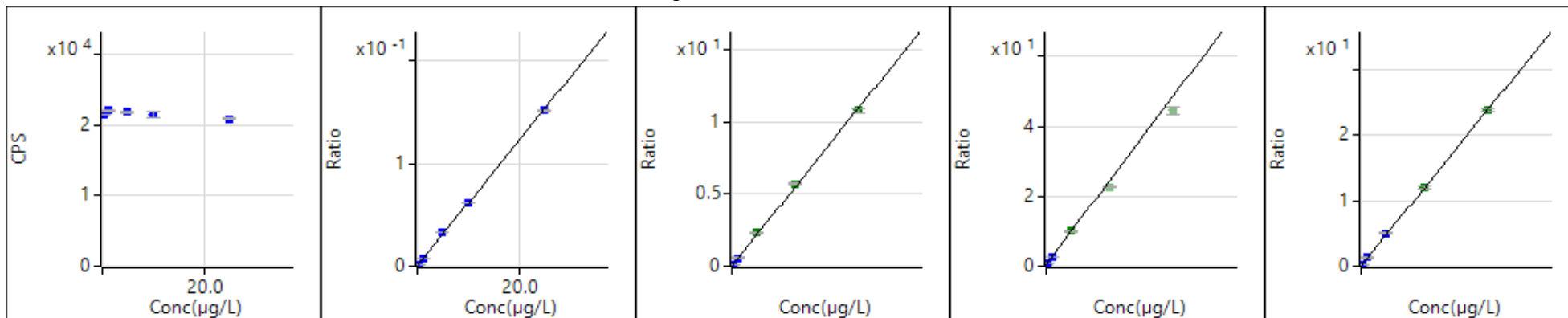
	Rjct	Acq. Date-Time	Data File	Sample Name	Type	Level	Dilution
27	On	7/28/2023 11:28:07	027SMPL.d	2307302-003AMS	Sample		1.0000
28	On	7/28/2023 11:30:18	028SMPL.d	2307302-003AMSD	Sample		1.0000
29	On	7/28/2023 11:32:30	029SMPL.d	2307302-003APDS	Sample		1.0000
30	On	7/28/2023 11:34:41	030SMPL.d	2307302-004A	Sample		1.0000
31	On	7/28/2023 11:37:03	031SMPL.d	2307271-001A	Sample		1.0000
32	On	7/28/2023 11:39:27	032_CCV.d	CCV	CCV		1.0000
33	On	7/28/2023 11:41:47	033_CCB.d	CCB	CCB		1.0000
34	On	7/28/2023 11:44:21	034SMPL.d	2307271-002A	Sample		1.0000
35	On	7/28/2023 11:46:42	035SMPL.d	2307271-003A	Sample		1.0000
36	On	7/28/2023 11:49:07	036SMPL.d	2307271-004A	Sample		1.0000
37	On	7/28/2023 11:51:33	037SMPL.d	2307271-005A	Sample		1.0000
38	On	7/28/2023 11:53:59	038SMPL.d	2307271-006A	Sample		1.0000
39	On	7/28/2023 11:56:27	039SMPL.d	2307271-007A	Sample		1.0000
40	On	7/28/2023 11:58:50	040SMPL.d	2307271-008A	Sample		1.0000
41	On	7/28/2023 12:01:17	041SMPL.d	2307271-009A	Sample		1.0000
42	On	7/28/2023 12:03:42	042SMPL.d	2307271-010A	Sample		1.0000
43	On	7/28/2023 12:06:08	043SMPL.d	2307271-011A	Sample		1.0000
44	On	7/28/2023 12:08:35	044_CCV.d	CCV	CCV		1.0000
45	On	7/28/2023 12:10:55	045_CCB.d	CCB	CCB		1.0000
46	On	7/28/2023 12:13:29	046SMPL.d	2307271-012A	Sample		1.0000
47	On	7/28/2023 12:15:57	047SMPL.d	2307271-013A	Sample		1.0000
48	On	7/28/2023 12:18:19	048SMPL.d	2307271-014A	Sample		1.0000
49	On	7/28/2023 12:20:42	049SMPL.d	2307271-015A	Sample		1.0000
50	On	7/28/2023 12:23:10	050SMPL.d	2307340-001A	Sample		1.0000
51	On	7/28/2023 12:25:41	051_CCV.d	CCV	CCV		1.0000
52	On	7/28/2023 12:28:02	052_CCB.d	CCB	CCB		1.0000
53	On	7/28/2023 12:30:36	053SMPL.d	Wash	Sample		1.0000
54	On	7/28/2023 12:33:12	054SMPL.d	MB-41024	Sample		1.0000
55	On	7/28/2023 12:35:46	055SMPL.d	LCS-41024	Sample		1.0000
56	On	7/28/2023 12:38:07	056SMPL.d	2307316-001A	Sample		1.0000
57	On	7/28/2023 12:40:31	057SMPL.d	2307316-001ADUP	Sample		1.0000
58	On	7/28/2023 12:42:56	058SMPL.d	2307316-001AMS	Sample		1.0000

Batch Summary Report

	Rjct	Acq. Date-Time	Data File	Sample Name	Type	Level	Dilution
59	On	7/28/2023 12:45:08	059SMPL.d	2307324-001B	Sample		1.0000
60	On	7/28/2023 12:47:49	060SMPL.d	LCS-41012	Sample		1.0000
61	On	7/28/2023 12:50:13	061SMPL.d	2307324-002B	Sample		1.0000
62	On	7/28/2023 12:55:29	062SMPL.d	LCS-41012	Sample		1.0000
63	On	7/28/2023 12:57:54	063_CCV.d	CCV	CCV		1.0000
64	On	7/28/2023 13:00:16	064_CCB.d	CCB	CCB		1.0000
65	On	7/28/2023 13:02:51	065SMPL.d	2307324-003B	Sample		1.0000
66	On	7/28/2023 13:05:17	066SMPL.d	LCS-41012	Sample		1.0000
67	On	7/28/2023 13:07:41	067_CCV.d	CCV	CCV		1.0000
68	On	7/28/2023 13:10:05	068_CCB.d	CCB	CCB		1.0000
69	On	7/28/2023 13:12:40	069SMPL.d	2307324-004B	Sample		1.0000
70	On	7/28/2023 13:15:09	070SMPL.d	2307324-005B	Sample		1.0000
71	On	7/28/2023 13:17:36	071SMPL.d	2307324-006B	Sample		1.0000
72	On	7/28/2023 13:20:04	072SMPL.d	2307324-006BMS	Sample		1.0000
73	On	7/28/2023 13:22:20	073SMPL.d	2307324-007B	Sample		1.0000
74	On	7/28/2023 13:24:48	074SMPL.d	2307324-008B	Sample		1.0000
75	On	7/28/2023 13:27:17	075SMPL.d	2307284-001C	Sample		1.0000
76	On	7/28/2023 13:29:41	076SMPL.d	2307284-002C	Sample		1.0000
77	On	7/28/2023 13:32:07	077SMPL.d	2307284-003C	Sample		1.0000
78	On	7/28/2023 13:34:31	078SMPL.d	2307284-004C	Sample		1.0000
79	On	7/28/2023 13:36:55	079_CCV.d	CCV	CCV		1.0000
80	On	7/28/2023 13:39:19	080_CCB.d	CCB	CCB		1.0000
81	On	7/28/2023 13:41:54	081SMPL.d	MB-41025 FB	Sample		1.0000
82	On	7/28/2023 13:44:28	082SMPL.d	MB-41010 FB	Sample		1.0000
83	On	7/28/2023 13:47:02	083_CCV.d	CCV	CCV		1.0000
84	On	7/28/2023 13:49:26	084_CCB.d	CCB	CCB		1.0000
85	On	7/28/2023 14:13:54	085SMPL.d	Wash	Sample		1.0000
86	On	7/28/2023 14:16:30	086SMPL.d	MB-41023	Sample		1.0000
87	On	7/28/2023 14:19:04	087SMPL.d	LCS-41023	Sample		1.0000
88	On	7/28/2023 14:21:32	088SMPL.d	2307346-007A	Sample		1.0000
89	On	7/28/2023 14:24:02	089SMPL.d	2307346-007ADIL	Sample		1.0000
90	On	7/28/2023 14:26:32	090SMPL.d	2307346-007AMS	Sample		1.0000



Calibration



7 Li [No Gas]

ISTD: ---

Excluded

R

9 Be [No Gas]

ISTD: 6 Li

$y = 6.093E-3 x + 4.500E-5$

R 0.9999

DL 0.006587

BEC 0.007385

11 B [No Gas]

ISTD: 6 Li

$y = 4.372E-3 x + 4.528E-3$

R 0.9996

DL 0.2426

BEC 1.036

23 Na [He]

ISTD: 45 Sc

$y = 9.618E-3 x + 4.105E-1$

R 1.0000

DL 0.5918

BEC 42.68

24 Mg [He]

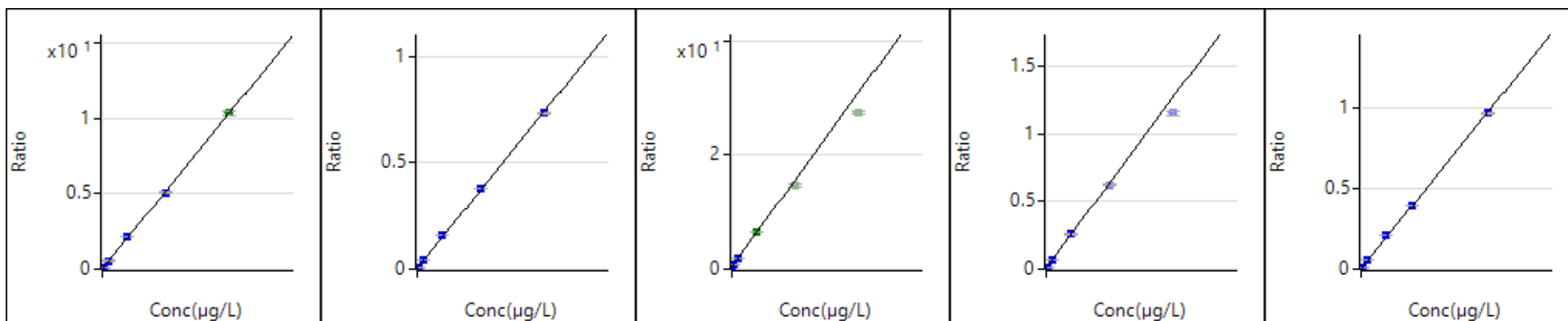
ISTD: 45 Sc

$y = 4.767E-3 x + 1.266E-2$

R 0.9999

DL 0.1338

BEC 2.656



27 Al [He]

ISTD: 45 Sc

$y = 2.067E-3 x + 1.455E-2$

R 0.9999

DL 6.463

BEC 7.04

31 P [He]

ISTD: 45 Sc

$y = 1.475E-4 x + 2.605E-3$

R 0.9998

DL 3.513

BEC 17.66

39 K [He]

ISTD: 45 Sc

$y = 6.099E-3 x + 3.938E-1$

R 1.0000

DL 0.8944

BEC 64.58

44 Ca [He]

ISTD: 45 Sc

$y = 2.523E-4 x + 5.982E-3$

R 0.9999

DL 1.061

BEC 23.71

47 Ti [He]

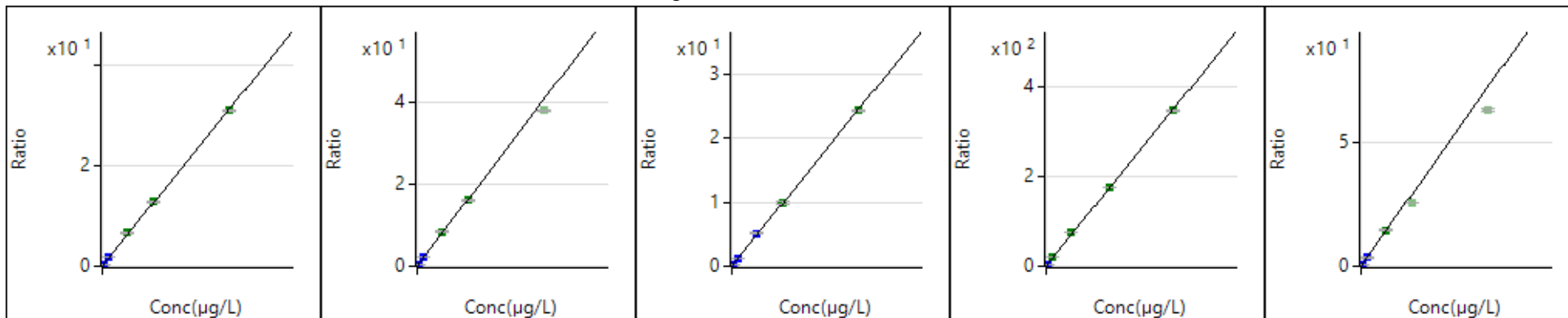
ISTD: 45 Sc

$y = 1.942E-3 x + 5.909E-5$

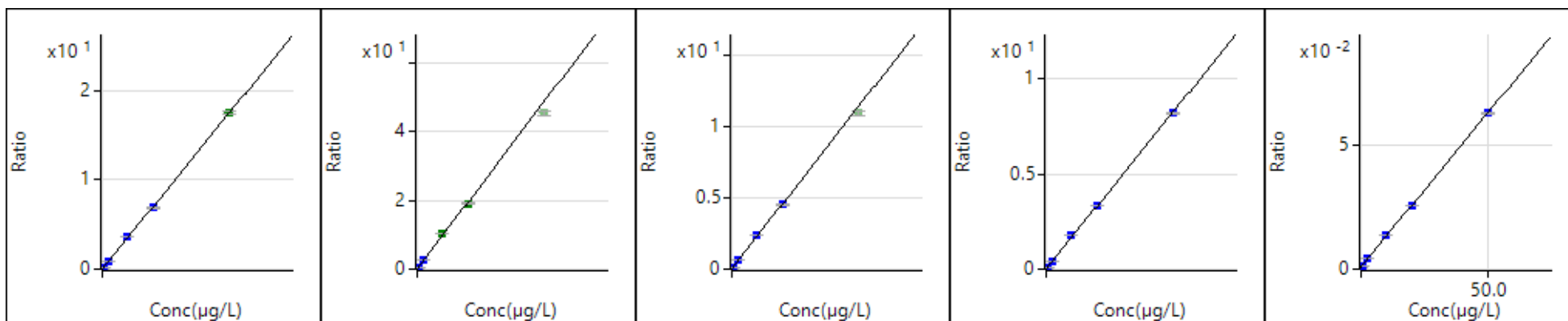
R 0.9998

DL 0.01169

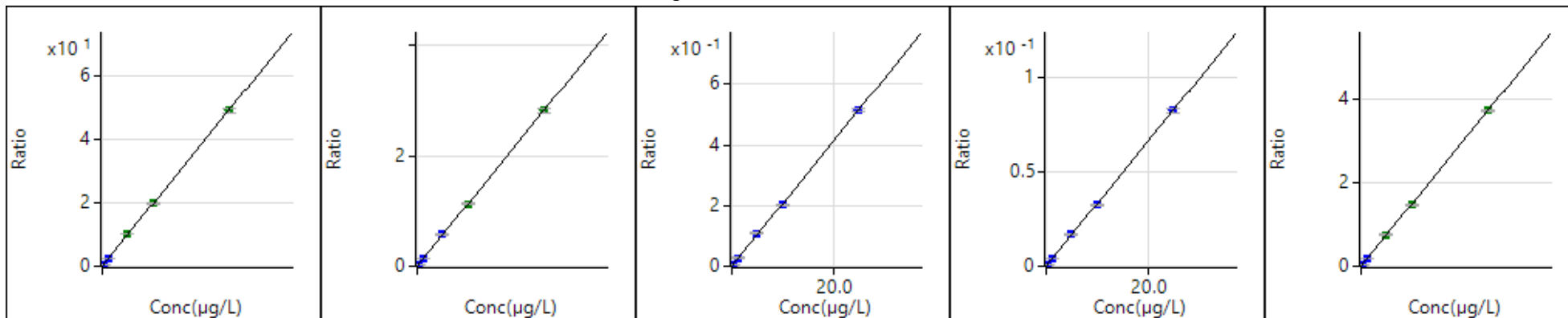
BEC 0.03043



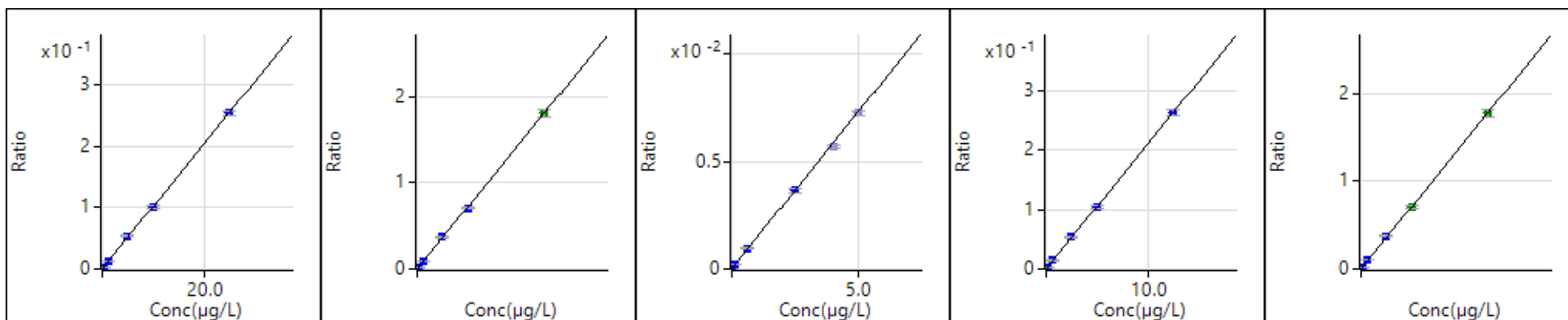
51 V [He] ISTD: 45 Sc $y = 6.205E-2 x + 4.787E-2$ R 0.9999 DL 0.08038 BEC 0.7714	52 Cr [He] ISTD: 45 Sc $y = 8.168E-2 x + 4.869E-3$ R 0.9997 DL 0.008207 BEC 0.05962	55 Mn [He] ISTD: 45 Sc $y = 4.899E-2 x + 3.221E-3$ R 0.9999 DL 0.01824 BEC 0.06574	56 Fe [He] ISTD: 45 Sc $y = 6.974E-2 x + 4.833E-1$ R 0.9999 DL 0.1656 BEC 6.93	59 Co [He] ISTD: 45 Sc $y = 1.446E-1 x + 1.487E-3$ R 0.9999 DL 0.0006622 BEC 0.01029
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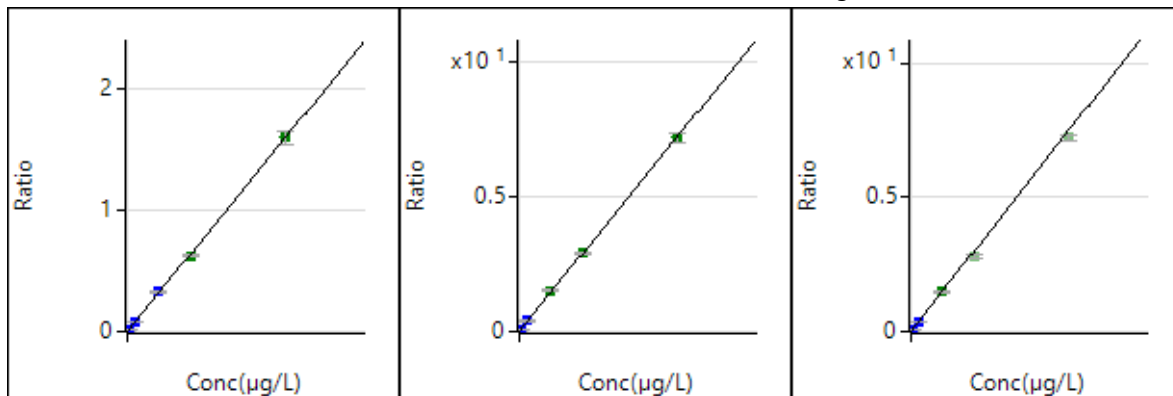
60 Ni [He] ISTD: 45 Sc $y = 3.490E-2 x + 3.124E-3$ R 1.0000 DL 0.006565 BEC 0.08951	63 Cu [He] ISTD: 45 Sc $y = 9.701E-2 x + 1.610E-2$ R 0.9988 DL 0.0318 BEC 0.1659	66 Zn [He] ISTD: 72 Ge $y = 2.265E-2 x + 1.846E-2$ R 0.9997 DL 0.05565 BEC 0.8149	75 As [He] ISTD: 72 Ge $y = 1.649E-2 x + 1.358E-3$ R 0.9999 DL 0.01391 BEC 0.08234	78 Se [He] ISTD: 72 Ge $y = 1.247E-3 x + 8.850E-4$ R 1.0000 DL 0.08388 BEC 0.7095
--	---	--	---	--



88 Sr [He]	95 Mo [He]	107 Ag [He]	111 Cd [He]	118 Sn [He]
ISTD: 72 Ge	ISTD: 115 In	ISTD: 115 In	ISTD: 115 In	ISTD: 115 In
$y = 9.869E-2 x + 2.788E-3$	$y = 5.651E-3 x + 6.566E-5$	$y = 2.055E-2 x + 8.871E-5$	$y = 3.299E-3 x + 7.249E-6$	$y = 7.449E-3 x + 4.664E-4$
R 0.9999	R 1.0000	R 0.9999	R 0.9999	R 1.0000
DL 0.006691	DL 0.007908	DL 0.003324	DL 0.002352	DL 0.0119
BEC 0.02825	BEC 0.01162	BEC 0.004318	BEC 0.002197	BEC 0.06262



121 Sb [He]	137 Ba [He]	201 Hg [He]	205 Tl [He]	206 Pb [He]
ISTD: 115 In	ISTD: 115 In	ISTD: 209 Bi	ISTD: 209 Bi	ISTD: 209 Bi
$y = 1.018E-2 x + 9.063E-5$	$y = 3.607E-3 x + 4.679E-4$	$y = 1.463E-3 x + 9.112E-6$	$y = 2.104E-2 x + 8.148E-6$	$y = 7.129E-3 x + 1.705E-4$
R 0.9999	R 0.9999	R 0.9999	R 0.9999	R 0.9999
DL 0.004811	DL 0.01293	DL 0.001513	DL 0.0006591	DL 0.003068
BEC 0.008903	BEC 0.1297	BEC 0.006228	BEC 0.0003873	BEC 0.02392



207 [Pb] [He]

ISTD: 209 Bi

$$y = 6.384E-3 x + 1.488E-4$$

R 0.9999

DL 0.003388

BEC 0.0233

208 Pb [He]

ISTD: 209 Bi

$$y = 2.878E-2 x + 6.896E-4$$

R 0.9999

DL 0.0004485

BEC 0.02396

238 U [He]

ISTD: 209 Bi

$$y = 1.495E-2 x + 9.411E-6$$

R 0.9999

DL 0.0007955

BEC 0.0006297

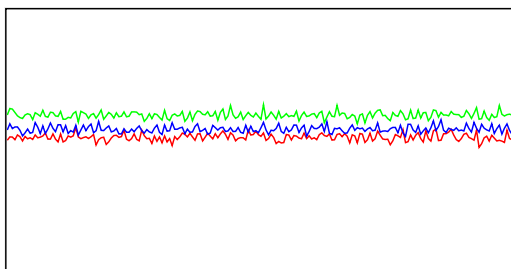


Tunes

Performance Report

Operator Name ICPMS
Acq. Date-Time 7/28/2023 09:28:15
Instrument Name G8422A SG22151236
Sample Introduction PeriPump
Nebulizer Type MicroMist
Ion Lens Model x-Lens
Tune Parameters Standard Tune

Sensitivity



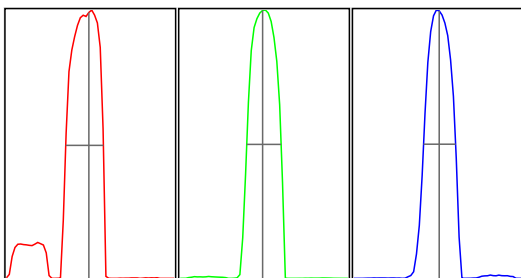
Mass	Range	Count	RSD%	Background
7	5000	2574	2.659	0.450
89	20000	11992	2.178	0.400
205	20000	10910	2.376	2.050

Sampling Period [sec] 0.311
 Integration Time [sec] 0.1

Oxide/Doubly Charged Ratio

Oxide 156 / 140 1.355 %
 Doubly Charged 70 / 140 0.871 %

Resolution/Axis



Mass	Peak Height	Axis	W-50%	W-10%
7	2559.62	7.00	0.66	0.77
89	11995.04	89.00	0.60	0.75
205	10954.09	205.05	0.56	0.76

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.74

Tune Parameters

Plasma Parameters

RF Power	1550 W	Option Gas	---	Makeup Gas	0.00 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Auxiliary Gas	0.90 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C	Plasma Gas	15.0 L/min
Nebulizer Gas	1.07 L/min				

Lens Parameters

Extract 1	0.0 V	Omega Lens	9.4 V	Deflect	12.0 V
Extract 2	-185.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-90 V	Cell Exit	-50 V		

Performance Report

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	0.0 mL/min	OctP RF	200 V		

QP Parameters

QP Bias	-3.0 V
---------	--------

Hardware Settings

Torch

Torch H	0.3 mm	Torch H (Hot)	---	Torch H (Cool)	---
Torch V	0.6 mm	Torch V (Hot)	---	Torch V (Cool)	---

Plasma Correction

Nebulizer Gas Offset	0.02 L/min	Makeup Gas (Hot)	---	Makeup Gas (Cool)	---
		Sample Depth (Hot)	---		

Resolution/Axis

Mass Gain	123	Axis Gain	0.9996
Mass Offset	124	Axis Offset	0.00

EM

Discriminator	3.1 mV	Analog HV	2150 V	Pulse HV	1235 V
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Performance Report

Meter

Name	Value	Unit
Nebulizer Gas	1.07	L/min
MU./Dil. Gas	0.00	L/min
Plasma Gas	14.99	L/min
Aux Gas	0.90	L/min
Ar Gas Tank Press	5.74E+2	kPa
+5V (Press Gage)	5.0	V
Ar AMFC Temp	34.0	°C
Nebulizer Gas(DP)	6.36E+0	kPa
MU./Dil. Gas(DP)	-2.47E-1	kPa
Aux Gas(DP)	1.07E+1	kPa
Plasma Gas(DP)	1.17E+1	kPa
Nebulizer Gas(BP)	2.48E+2	kPa
MU./Dil. Gas(BP)	3.09E-1	kPa
Aux Gas(BP)	6.05E+1	kPa
Plasma Gas(BP)	4.33E+1	kPa
S/C Temp (H)	26.7	°C
S/C Temp (L)	2.1	°C
Peltier Voltage	4.5	V
IF/BK Press	2.30E+2	Pa
Analyzer Press	5.77E-5	Pa
IG HV	178	V
IG Emission	4.96	µA
TMP Revolution	100.0	%
TMP Rev (Raw)	100.9	%
TMP Current	2.69	A
PWR AMP Drain I	0.3	A
PWR AMP Bias	4.06	V
OctP RF (Avg)	202.8	V
OctP RF Set	3.9	V
OctP FET Bias Set	3.95	V
OctP RF(+)	178.1	V
OctP RF(-)	226.4	V
OctP Bias	-7.9	V
Cell Temp.	65.0	°C
Cell Heater Volt.	3.9	V
+U Voltage	6.1	V

Name	Value	Unit
-U Voltage	-11.8	V
V Voltage	31.6	V
QPRF Fader	0.0	V
Pickup Temp	55.0	°C
PWR Amp Temp	0.1	V
+600V	621.4	V
-120V	-133.7	V
-720V	-741.8	V
Prefilter Bias	-4.98	V
Pickup Heater I	0.07	A
QP PS +48V	47.6	V
QP PS +48V I	0.00	A
Analog HV	-2168	V
Pulse HV	1245	V
EM Gate	97.9	V
Pulse Gate	3.8	V
EM Entrance	0.1	V
EM HV Gain	-776.7	V
Inner Pole	-300.1	V
Outer Pole	19.9	V
Analog -5V	-5.1	V
Analog +15V	14.5	V
Analog -15V	-14.4	V
Analog +5V	5.2	V
Shunt C Pos	1.5	V
Drain Volt.(max)	61.1	V
RF PS +48V	47.5	V
Forward Power	1550	W
Reflected Power	2	W
Plasma Freq.	27.10	MHz
Drain I 1	11.80	A
Drain I 2	10.71	A
Drain I 3	11.03	A
Drain I 4	11.63	A
Temp Sensor	2.6	V
Driver I	5.93	A

Name	Value	Unit
Igniter	0.0	V
Driver Voltage Set	6.9	V
Unbalance Current	0.33	A
PWM Threshold Set	0.2	V
Driver Voltage	5.5	V
PWM Threshold	0.2	V
Phase Detector	0.0	mV
H2 Gas	0.00	mL/min
He Gas	0.11	mL/min
H2 Gas Press	1.68E+2	kPa
He Gas Press	0.00E+0	kPa
ORS AMFC Temp	33.9	°C
Atmospheric Press	1.01E+2	kPa
Extract 1	0.0	V
Extract 2	-185.2	V
Omega Bias	-90.1	V
Omega Lens	9.5	V
Cell Entrance	-30.0	V
Cell Exit	-50.0	V
Deflect	12.0	V
Plate Bias	-35.1	V
HV+530V	531	V
HV+240V	239	V
HV-360V	-360	V
Inlet Temp	30.7	°C
Internal Temp	38.7	°C
+24V	23.7	V
Water Temp	27.6	°C
Water RF/WC/IF	1.44	L/min
ISIS 3 Pump Speed	0.0	%
Valve Position		
Tune/ISTD Valve		

Performance Report History

Sensitivity

Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
7/28/2023 09:28:15	2574	11992	10910
7/27/2023 09:17:24	2638	11942	10885
7/26/2023 10:24:37	2628	12086	10721
7/25/2023 09:08:43	2645	13109	12010
7/24/2023 09:25:55	2866	13213	12584
7/21/2023 09:38:18	3045	12777	11213
7/20/2023 09:50:16	3015	13608	11979
7/19/2023 09:51:11	2972	13534	11794
7/18/2023 10:02:58	2480	9926	8625
7/17/2023 11:07:27	3529	15060	11733
7/17/2023 09:51:07	3312	15288	13391
7/14/2023 13:20:39	2401	9970	8567
7/14/2023 13:13:20	858	3455	3011
7/14/2023 13:04:01	35	15	30
7/14/2023 12:49:03	1150	4213	3169
7/14/2023 09:43:22	3304	13648	12348
7/13/2023 17:06:49	3012	11414	10194
7/13/2023 16:18:09	2955	11378	10283
7/13/2023 13:12:33	2347	9669	10238
7/12/2023 10:11:37	3266	14662	11672
7/11/2023 10:12:22	3435	14541	11159
7/11/2023 10:02:13	1682	4632	2699
7/10/2023 10:27:11	3998	13300	6429
7/7/2023 10:03:10	3562	15900	10842
7/7/2023 09:53:18	3887	15915	9865
7/6/2023 09:39:20	3915	15094	8706
7/5/2023 09:21:22	3530	13882	7836
7/3/2023 09:52:13	3101	14414	11001
7/3/2023 09:30:59	2325	8553	5822
6/30/2023 09:54:22	3674	15262	10933
6/29/2023 09:42:14	3257	14111	11174
6/28/2023 09:24:23	3603	14430	11195
6/27/2023 09:21:37	3474	14301	11162
6/26/2023 13:04:07	2984	13198	10818
6/23/2023 09:35:05	4548	13496	8799
6/22/2023 09:46:11	3987	12820	9360
6/21/2023 09:51:51	4030	13146	9814
6/20/2023 09:45:37	4312	13311	10018
6/19/2023 09:55:02	4181	12573	9901
6/16/2023 09:23:49	4267	13074	9801
6/15/2023 09:47:30	4629	12970	9475

Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
6/14/2023 09:16:14	3934	12479	10197
6/13/2023 09:49:15	4567	13183	10070
6/12/2023 11:34:15	4144	12001	9698
6/12/2023 09:54:55	3392	10831	10127
6/9/2023 12:39:33	3926	15367	11134
6/9/2023 09:23:31	3672	15849	11841
6/8/2023 10:16:31	4083	16245	11759
6/7/2023 09:48:23	3788	15983	11493
6/6/2023 09:46:41	4195	16624	10957
6/5/2023 09:22:56	3853	16849	11906
6/2/2023 09:34:45	3243	12651	7710
6/1/2023 09:48:17	4008	16726	11170
5/31/2023 09:40:40	3604	17615	11865
5/30/2023 09:32:39	4046	17790	11322
5/26/2023 12:43:13	3927	16239	12218
5/26/2023 12:35:21	761	3406	2008
5/26/2023 12:24:37	184	549	395
5/26/2023 12:20:08	554	1783	1426
5/26/2023 12:15:41	745	2452	1922
5/26/2023 09:21:24	4039	16585	12317
5/25/2023 09:20:09	4040	16615	11868
5/24/2023 12:08:16	4075	16656	11488
5/24/2023 09:30:58	4357	17430	11641
5/23/2023 10:10:03	4128	14901	12444
5/22/2023 10:18:03	3703	16482	11595
5/19/2023 09:10:18	3614	16447	11473
5/18/2023 10:26:22	3977	16258	11430
5/17/2023 09:16:47	3878	16266	12092
5/16/2023 09:59:27	4248	16604	11458
5/15/2023 10:01:28	3608	15995	12083
5/12/2023 09:47:09	3710	14725	12670
5/11/2023 09:16:07	3615	16694	11489
5/10/2023 09:42:50	3643	16651	11072
5/9/2023 09:27:44	3049	13792	9652
5/8/2023 09:26:50	4462	18082	11483
5/5/2023 09:05:22	4399	16357	12967
5/4/2023 10:18:52	5492	15573	10604
5/4/2023 09:42:19	3329	10245	9107
5/3/2023 09:25:16	3021	11228	9134
5/2/2023 14:32:57	3253	10925	8420
5/2/2023 11:11:55	3007	10527	8496

Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
5/2/2023 10:06:56	2763	10198	8556
5/2/2023 09:20:27	1757	4748	3682
5/1/2023 08:58:25	3835	14776	11277
4/28/2023 15:08:06	3400	12379	10252
4/28/2023 11:06:46	3035	12513	11008
4/28/2023 09:28:29	2667	9198	8023
4/27/2023 09:00:22	4967	15984	10961
4/26/2023 08:49:33	3812	15401	12317
4/25/2023 10:22:10	3613	13723	11649
4/24/2023 08:55:03	3223	11437	9245
4/21/2023 12:21:05	2309	8904	8075
4/21/2023 11:08:42	3585	13031	10380
4/21/2023 08:53:22	3675	12662	9407
4/20/2023 09:37:29	3414	12407	9925
4/19/2023 17:09:43	3618	12571	9512
4/19/2023 15:46:38	3448	13274	10340
4/19/2023 14:35:32	3462	12482	9880
4/19/2023 13:54:58	3220	11909	9076
4/19/2023 09:45:34	3711	13588	10208
4/18/2023 09:17:03	4001	15807	11823
4/17/2023 10:23:48	2878	11093	9732
4/17/2023 10:00:25	2905	10987	9354
4/14/2023 08:59:17	3797	14951	12432
4/13/2023 09:01:53	4318	14773	11319
4/12/2023 08:48:04	4928	16846	11839
4/11/2023 14:04:25	4530	15489	11208
4/11/2023 11:58:48	5326	16891	11025
4/11/2023 09:06:40	3954	15395	11003
4/10/2023 10:37:44	2194	8633	7826
4/10/2023 10:22:12	1899	8212	8001
4/10/2023 09:55:11	1701	5404	5012
4/10/2023 09:40:08	1137	2728	2210
4/7/2023 09:12:03	2772	10636	8482
4/6/2023 09:29:25	3180	12523	9525
4/5/2023 12:01:25	3397	12261	8977
4/4/2023 09:25:41	3746	15001	10717
4/4/2023 09:16:16	3774	15323	10930
4/3/2023 10:44:46	3816	16733	12434
3/31/2023 13:01:29	3689	14276	11079
3/31/2023 09:26:11	4028	14610	11523
3/30/2023 09:11:37	5025	18708	14607

Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
3/30/2023 09:01:02	5089	19072	14859
3/29/2023 09:27:41	5221	18650	13966
3/28/2023 09:13:20	4760	16933	13578
3/27/2023 09:16:40	5767	20845	15106
3/24/2023 09:19:12	5395	19720	14041
3/23/2023 10:30:11	6291	21448	13416
3/22/2023 09:09:24	2696	9011	6944
3/21/2023 11:29:57	5734	16669	12164
3/20/2023 15:01:09	6363	19486	13888
3/20/2023 14:56:00	5009	16683	9718
3/20/2023 14:34:11	2834	10712	5829
3/20/2023 11:10:11	7530	22977	15012
3/17/2023 09:15:52	5750	18440	11963
3/16/2023 10:04:21	4980	19675	11461
3/15/2023 08:50:05	4999	21116	13825
3/14/2023 09:23:23	4061	12104	9854
3/13/2023 09:02:28	3215	10694	7776
3/10/2023 09:50:25	5164	18928	14123
3/9/2023 10:05:54	4252	14786	10051
3/8/2023 13:14:50	3752	11270	7378
3/7/2023 10:34:30	4374	16704	11777
3/6/2023 10:45:07	3273	13385	9184
3/3/2023 08:01:46	4929	20899	12798
3/2/2023 09:47:36	5032	21800	13030
3/1/2023 08:51:22	5345	21950	12808
2/28/2023 09:34:23	6338	22463	12670
2/27/2023 14:30:30	4812	15793	10582
2/27/2023 11:22:50	2660	6341	5374
2/27/2023 10:51:56	2687	6395	5542
2/27/2023 10:44:59	2767	6642	5568
2/24/2023 16:23:45	4656	17757	14021
2/24/2023 16:07:57	259	10	1
2/23/2023 08:54:28	5450	21137	15863
2/22/2023 08:37:14	6587	23092	14287
2/21/2023 10:21:12	5717	19848	15529
2/20/2023 08:52:02	5102	19535	16027
2/17/2023 08:36:41	5650	19696	13966
2/16/2023 08:44:34	5427	18692	15094
2/15/2023 12:26:22	5476	16249	14697
2/14/2023 13:04:03	5114	18973	14711
2/13/2023 11:40:00	5622	21074	13839

Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
2/10/2023 10:01:05	5342	19862	13915
2/9/2023 11:28:46	5286	16698	13470
2/8/2023 08:23:24	2500	8272	6431
2/7/2023 11:36:23	5011	17251	13767
2/6/2023 12:36:01	4650	16849	13463
2/3/2023 08:20:53	4694	16500	12971
2/2/2023 07:55:34	4126	16618	13815
2/1/2023 07:42:39	4262	15843	13824
1/31/2023 09:19:32	3770	13798	12047
1/30/2023 10:17:02	4337	16436	13025
1/27/2023 08:15:42	4501	16617	13319
1/26/2023 08:18:20	4191	17132	13749
1/25/2023 09:02:42	4450	15538	12000
1/24/2023 08:45:18	4336	16580	13340
1/23/2023 07:54:12	2590	9369	7241
1/20/2023 07:43:21	4826	18818	14697
1/19/2023 08:47:40	5243	18006	12448
1/18/2023 08:40:18	4557	17530	14362
1/17/2023 09:51:42	4181	15622	13807
1/13/2023 08:18:49	4548	18577	14569
1/12/2023 08:58:54	4387	18033	14854
1/11/2023 08:26:54	4545	18169	14422
1/10/2023 09:03:33	4726	18711	15508
1/9/2023 08:33:43	5629	19269	14475
1/6/2023 09:09:20	5213	18911	14085
1/5/2023 08:59:03	5159	19900	15721
1/4/2023 09:22:57	5368	19455	14720
1/3/2023 07:54:14	4612	19533	15792
12/30/2022 12:03:44	61	23	2
12/30/2022 11:44:52	74	26	2
12/30/2022 08:53:04	103	30	8
12/30/2022 08:43:33	4844	19749	15375
12/29/2022 09:51:14	5727	20311	14775
12/28/2022 10:56:59	5379	19562	14038
12/27/2022 11:51:09	2917	13215	10039
12/22/2022 13:03:41	5910	20405	14964
12/20/2022 10:03:57	6068	20428	15363
12/15/2022 08:54:42	5797	20392	15125
12/14/2022 07:30:17	4875	19420	15909
12/13/2022 08:19:58	6040	20311	15825
12/12/2022 09:25:41	5282	17431	13118

Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
12/9/2022 07:32:14	5734	18212	14695
12/7/2022 09:04:52	5322	21110	16195
12/6/2022 09:40:47	5815	21208	16339
12/5/2022 09:33:56	6313	20948	15766
12/2/2022 08:43:06	5550	21444	17003
12/1/2022 08:14:13	6173	21650	16355
11/30/2022 09:05:47	5892	20987	16063
11/29/2022 09:56:17	4094	14596	10603
11/22/2022 08:57:48	4099	12381	7804
11/21/2022 09:24:58	4059	13597	9996
11/18/2022 08:02:10	5896	21100	16764
11/17/2022 14:32:03	5110	18966	16326
11/14/2022 13:14:56	5191	16854	13936
11/11/2022 08:35:49	5504	20364	14691
11/10/2022 10:24:53	4996	20056	14474
11/9/2022 12:14:57	4371	19332	15801
11/7/2022 10:37:58	5685	18033	11927
11/7/2022 08:51:17	146	29	32
11/4/2022 09:20:34	7168	18645	12118
11/3/2022 10:28:57	3530	13884	7706
11/2/2022 08:32:00	4974	16880	8970
11/1/2022 11:19:50	3994	15305	8677
11/1/2022 11:02:36	4266	16862	10879
10/31/2022 09:19:47	5485	18924	11532
10/28/2022 09:14:48	6686	19237	10543
10/27/2022 10:50:18	6536	19264	10753
10/26/2022 11:02:54	7130	20921	11654
10/19/2022 12:45:34	6920	20484	11015
10/18/2022 09:12:59	7274	20876	11667
10/13/2022 11:08:12	6974	19838	11390
10/12/2022 09:54:30	5786	18972	9741
10/11/2022 09:12:35	5552	19520	11580
10/6/2022 10:34:09	5625	19891	13032
9/30/2022 08:08:09	5495	19202	12599
9/29/2022 08:44:14	5232	19124	12103
9/28/2022 09:42:45	4963	19363	12220
9/27/2022 08:29:24	5178	18784	11329
9/26/2022 10:25:12	5330	19090	12061
9/23/2022 07:41:43	5103	18871	12031
9/22/2022 11:03:47	4952	18979	11589
9/21/2022 10:21:37	4886	19212	13138

Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
9/20/2022 12:23:56	5002	19051	13455
9/15/2022 11:07:18	5302	18910	11562
9/14/2022 09:29:39	5075	20632	13468
9/13/2022 14:42:43	5153	20537	14155
9/13/2022 08:12:52	5034	20027	12445
9/12/2022 08:42:30	5784	20793	13929
9/9/2022 09:45:48	6147	20766	13709
9/8/2022 12:04:46	4051	14292	8447
9/8/2022 11:48:01	41	6	2
9/8/2022 11:27:44	4889	20574	14952
9/2/2022 07:38:00	6624	23227	14887
9/1/2022 08:15:43	5991	21208	13985
8/31/2022 07:49:17	5373	21196	15352
8/30/2022 09:25:59	5235	20223	15276
8/30/2022 09:00:54	13	1	2
8/25/2022 08:44:13	5528	21089	15029
8/24/2022 08:11:08	5585	20407	15666
8/22/2022 11:28:23	5644	19080	14194
8/22/2022 08:02:13	5908	24300	19093
8/19/2022 08:45:48	5153	20283	15070
8/18/2022 08:00:38	5492	20290	13446
8/17/2022 07:50:25	6314	21249	13568
8/16/2022 08:11:19	6612	21262	13203
8/15/2022 07:58:53	5887	22676	15751
8/12/2022 07:30:34	6745	21079	11749
8/11/2022 12:53:44	6477	19179	10232
8/11/2022 08:29:41	6957	21714	11530
8/10/2022 08:08:22	6409	22095	13386
8/9/2022 08:36:25	17	5	13
8/9/2022 07:53:48	6922	23611	15152
8/1/2022 09:30:01	5884	22782	15120
8/1/2022 08:12:58	6185	22941	21185
7/29/2022 07:24:42	6291	22723	20278
7/28/2022 07:59:19	6521	24058	19698
7/27/2022 08:17:37	6920	24215	18319
7/26/2022 07:53:10	6343	24801	18781
7/25/2022 09:48:29	5345	21220	12528
6/30/2022 11:28:41	5342	21861	14116
6/3/2022 08:15:26	7965	26259	18626
6/1/2022 09:09:25	7540	22818	17488
5/31/2022 12:07:21	7463	21617	16999

Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
5/31/2022 11:56:36	6060	17631	14046
5/26/2022 09:53:19	6021	17710	14820
5/25/2022 11:34:00	6269	17834	14297
5/25/2022 10:52:32	6525	17820	14265

Background

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
7/28/2023 09:28:15	0.450	0.400	2.050
7/27/2023 09:17:24	0.400	0.200	1.900
7/26/2023 10:24:37	1.000	0.400	2.400
7/25/2023 09:08:43	0.250	0.500	1.350
7/24/2023 09:25:55	0.550	0.150	1.700
7/21/2023 09:38:18	0.450	0.400	1.850
7/20/2023 09:50:16	0.550	0.250	2.250
7/19/2023 09:51:11	0.700	0.300	1.350
7/18/2023 10:02:58	0.800	0.350	1.500
7/17/2023 11:07:27	0.950	0.200	1.800
7/17/2023 09:51:07	0.650	0.300	2.300
7/14/2023 13:20:39	0.950	0.550	2.500
7/14/2023 13:13:20	0.950	0.200	1.900
7/14/2023 13:04:01	0.450	0.300	0.950
7/14/2023 12:49:03	1.000	0.400	2.600
7/14/2023 09:43:22	0.950	0.350	1.400
7/13/2023 17:06:49	0.900	0.450	1.350
7/13/2023 16:18:09	0.800	0.250	1.700
7/13/2023 13:12:33	0.500	0.050	1.350
7/12/2023 10:11:37	0.850	0.350	1.900
7/11/2023 10:12:22	0.900	0.350	2.450
7/11/2023 10:02:13	1.000	0.300	3.100
7/10/2023 10:27:11	0.950	0.250	2.300
7/7/2023 10:03:10	1.100	0.300	2.800
7/7/2023 09:53:18	1.200	0.550	2.750
7/6/2023 09:39:20	0.850	0.400	3.100
7/5/2023 09:21:22	1.300	0.550	2.800
7/3/2023 09:52:13	1.100	0.150	1.700
7/3/2023 09:30:59	1.100	0.300	1.900
6/30/2023 09:54:22	1.150	0.250	2.450

Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
6/29/2023 09:42:14	0.850	0.350	1.800
6/28/2023 09:24:23	1.350	0.300	2.500
6/27/2023 09:21:37	0.750	0.350	2.100
6/26/2023 13:04:07	0.700	0.350	1.750
6/23/2023 09:35:05	2.000	0.750	4.350
6/22/2023 09:46:11	1.750	0.550	4.300
6/21/2023 09:51:51	1.550	0.550	3.450
6/20/2023 09:45:37	1.700	0.900	4.050
6/19/2023 09:55:02	1.450	0.350	3.650
6/16/2023 09:23:49	1.250	0.650	3.500
6/15/2023 09:47:30	1.300	0.500	4.100
6/14/2023 09:16:14	1.900	0.300	2.850
6/13/2023 09:49:15	1.600	0.250	3.300
6/12/2023 11:34:15	1.350	0.350	3.050
6/12/2023 09:54:55	1.300	0.300	2.050
6/9/2023 12:39:33	1.150	0.450	3.100
6/9/2023 09:23:31	1.700	0.350	2.500
6/8/2023 10:16:31	0.900	0.350	2.450
6/7/2023 09:48:23	1.250	0.300	2.350
6/6/2023 09:46:41	1.150	0.550	2.950
6/5/2023 09:22:56	1.450	0.250	2.050
6/2/2023 09:34:45	1.000	0.250	2.900
6/1/2023 09:48:17	1.050	0.300	2.150
5/31/2023 09:40:40	0.900	0.150	2.800
5/30/2023 09:32:39	1.350	0.350	2.200
5/26/2023 12:43:13	1.600	0.250	1.900
5/26/2023 12:35:21	1.050	0.400	2.200
5/26/2023 12:24:37	1.300	0.150	1.850
5/26/2023 12:20:08	1.050	0.300	2.200
5/26/2023 12:15:41	0.700	0.200	1.700
5/26/2023 09:21:24	1.050	0.350	2.750
5/25/2023 09:20:09	1.450	0.500	3.000
5/24/2023 12:08:16	1.250	0.400	2.500
5/24/2023 09:30:58	1.250	0.700	2.600
5/23/2023 10:10:03	0.850	0.150	1.800
5/22/2023 10:18:03	1.300	0.100	2.500
5/19/2023 09:10:18	1.550	0.150	2.800
5/18/2023 10:26:22	1.250	0.350	3.000
5/17/2023 09:16:47	1.300	0.100	1.900
5/16/2023 09:59:27	1.800	0.050	2.900
5/15/2023 10:01:28	1.350	0.200	2.350

Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
5/12/2023 09:47:09	0.750	0.150	1.650
5/11/2023 09:16:07	1.250	0.200	2.450
5/10/2023 09:42:50	1.050	0.300	1.850
5/9/2023 09:27:44	1.150	0.450	2.500
5/8/2023 09:26:50	2.000	0.250	2.900
5/5/2023 09:05:22	0.900	0.450	1.850
5/4/2023 10:18:52	1.550	0.600	2.450
5/4/2023 09:42:19	0.800	0.350	1.550
5/3/2023 09:25:16	1.400	0.250	2.800
5/2/2023 14:32:57	1.850	0.350	3.750
5/2/2023 11:11:55	1.400	0.350	3.300
5/2/2023 10:06:56	1.200	0.550	2.950
5/2/2023 09:20:27	1.800	0.600	3.600
5/1/2023 08:58:25	1.350	0.350	3.650
4/28/2023 15:08:06	1.050	0.550	3.650
4/28/2023 11:06:46	1.650	0.150	2.350
4/28/2023 09:28:29	1.000	0.300	2.600
4/27/2023 09:00:22	1.450	0.600	4.200
4/26/2023 08:49:33	1.500	0.400	3.850
4/25/2023 10:22:10	1.400	0.300	2.800
4/24/2023 08:55:03	1.500	0.100	2.750
4/21/2023 12:21:05	1.100	0.400	2.250
4/21/2023 11:08:42	2.000	0.450	2.300
4/21/2023 08:53:22	1.200	0.250	3.600
4/20/2023 09:37:29	1.500	0.500	2.950
4/19/2023 17:09:43	1.750	0.700	3.450
4/19/2023 15:46:38	1.600	0.600	3.600
4/19/2023 14:35:32	1.350	0.600	3.100
4/19/2023 13:54:58	1.450	0.500	2.850
4/19/2023 09:45:34	1.250	0.350	4.350
4/18/2023 09:17:03	1.750	0.400	3.900
4/17/2023 10:23:48	0.800	0.300	2.450
4/17/2023 10:00:25	1.500	0.250	2.650
4/14/2023 08:59:17	0.950	0.450	3.250
4/13/2023 09:01:53	1.400	0.500	2.850
4/12/2023 08:48:04	1.350	0.450	4.300
4/11/2023 14:04:25	1.750	0.700	3.800
4/11/2023 11:58:48	1.350	0.550	4.900
4/11/2023 09:06:40	1.500	0.500	3.750
4/10/2023 10:37:44	0.550	0.350	1.300
4/10/2023 10:22:12	1.050	0.200	1.950

Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
4/10/2023 09:55:11	1.100	0.350	2.700
4/10/2023 09:40:08	1.350	0.250	3.000
4/7/2023 09:12:03	1.350	0.300	2.850
4/6/2023 09:29:25	1.600	0.350	3.450
4/5/2023 12:01:25	1.650	0.450	3.900
4/4/2023 09:25:41	1.050	0.500	3.300
4/4/2023 09:16:16	2.000	0.500	3.850
4/3/2023 10:44:46	0.950	0.700	4.000
3/31/2023 13:01:29	1.600	0.150	2.600
3/31/2023 09:26:11	1.150	0.450	2.800
3/30/2023 09:11:37	1.450	0.550	2.750
3/30/2023 09:01:02	1.500	0.250	3.350
3/29/2023 09:27:41	1.600	0.350	3.600
3/28/2023 09:13:20	1.150	0.250	2.650
3/27/2023 09:16:40	1.250	0.600	3.200
3/24/2023 09:19:12	1.550	0.700	3.750
3/23/2023 10:30:11	2.050	0.250	3.650
3/22/2023 09:09:24	2.200	0.300	1.850
3/21/2023 11:29:57	1.700	0.450	2.750
3/20/2023 15:01:09	2.350	0.600	4.250
3/20/2023 14:56:00	2.950	0.600	4.950
3/20/2023 14:34:11	3.650	1.050	6.050
3/20/2023 11:10:11	2.050	0.700	5.350
3/17/2023 09:15:52	2.250	0.650	3.950
3/16/2023 10:04:21	2.250	0.750	4.300
3/15/2023 08:50:05	1.550	0.500	3.400
3/14/2023 09:23:23	1.000	0.300	2.750
3/13/2023 09:02:28	1.800	0.700	3.500
3/10/2023 09:50:25	1.450	0.450	4.250
3/9/2023 10:05:54	2.200	0.350	4.150
3/8/2023 13:14:50	2.350	0.450	4.200
3/7/2023 10:34:30	2.300	0.600	2.900
3/6/2023 10:45:07	3.100	0.350	3.250
3/3/2023 08:01:46	2.200	0.650	4.350
3/2/2023 09:47:36	2.500	0.450	4.100
3/1/2023 08:51:22	1.800	0.350	3.800
2/28/2023 09:34:23	1.750	0.800	3.650
2/27/2023 14:30:30	1.550	0.600	3.100
2/27/2023 11:22:50	0.800	0.200	1.500
2/27/2023 10:51:56	0.950	0.250	2.200
2/27/2023 10:44:59	1.000	0.100	1.750

Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
2/24/2023 16:23:45	0.600	0.650	2.400
2/24/2023 16:07:57	0.900	0.350	2.300
2/23/2023 08:54:28	0.650	0.150	2.700
2/22/2023 08:37:14	1.200	0.350	4.250
2/21/2023 10:21:12	1.050	0.100	2.800
2/20/2023 08:52:02	0.900	0.200	2.050
2/17/2023 08:36:41	0.900	0.150	2.150
2/16/2023 08:44:34	0.950	0.200	2.100
2/15/2023 12:26:22	0.550	0.200	1.150
2/14/2023 13:04:03	1.150	0.250	1.250
2/13/2023 11:40:00	1.600	0.200	2.000
2/10/2023 10:01:05	1.350	0.550	2.150
2/9/2023 11:28:46	1.150	0.200	2.100
2/8/2023 08:23:24	1.300	0.400	1.800
2/7/2023 11:36:23	1.550	0.300	2.250
2/6/2023 12:36:01	1.350	0.150	1.900
2/3/2023 08:20:53	1.050	0.300	2.050
2/2/2023 07:55:34	0.850	0.100	1.950
2/1/2023 07:42:39	0.800	0.250	1.550
1/31/2023 09:19:32	0.850	0.250	1.350
1/30/2023 10:17:02	0.800	0.150	2.050
1/27/2023 08:15:42	1.300	0.250	2.400
1/26/2023 08:18:20	1.100	0.250	2.600
1/25/2023 09:02:42	0.650	0.200	2.100
1/24/2023 08:45:18	1.150	0.200	1.950
1/23/2023 07:54:12	1.000	0.000	1.650
1/20/2023 07:43:21	0.950	0.150	1.550
1/19/2023 08:47:40	1.850	0.400	2.200
1/18/2023 08:40:18	1.000	0.250	2.250
1/17/2023 09:51:42	0.550	0.150	1.550
1/13/2023 08:18:49	0.700	0.350	2.000
1/12/2023 08:58:54	0.950	0.150	1.550
1/11/2023 08:26:54	0.950	0.150	1.800
1/10/2023 09:03:33	0.600	0.250	2.050
1/9/2023 08:33:43	0.650	0.250	2.000
1/6/2023 09:09:20	1.000	0.250	2.250
1/5/2023 08:59:03	0.700	0.100	2.000
1/4/2023 09:22:57	0.850	0.200	2.250
1/3/2023 07:54:14	0.750	0.200	1.900
12/30/2022 12:03:44	0.800	0.200	1.400
12/30/2022 11:44:52	0.500	0.100	1.700

Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
12/30/2022 08:53:04	0.600	0.100	1.850
12/30/2022 08:43:33	0.650	0.400	2.700
12/29/2022 09:51:14	1.300	0.350	2.050
12/28/2022 10:56:59	0.900	0.350	2.000
12/27/2022 11:51:09	1.350	0.150	1.800
12/22/2022 13:03:41	1.100	0.250	2.300
12/20/2022 10:03:57	1.050	0.300	2.650
12/15/2022 08:54:42	1.100	0.100	1.850
12/14/2022 07:30:17	0.650	0.150	1.900
12/13/2022 08:19:58	0.850	0.250	2.000
12/12/2022 09:25:41	1.250	0.350	2.250
12/9/2022 07:32:14	1.000	0.300	1.650
12/7/2022 09:04:52	1.000	0.150	1.900
12/6/2022 09:40:47	1.100	0.550	2.250
12/5/2022 09:33:56	1.300	0.200	1.800
12/2/2022 08:43:06	1.250	0.100	1.650
12/1/2022 08:14:13	1.000	0.050	1.400
11/30/2022 09:05:47	1.150	0.250	2.650
11/29/2022 09:56:17	0.900	0.000	1.850
11/22/2022 08:57:48	1.400	0.150	2.850
11/21/2022 09:24:58	0.900	0.150	2.200
11/18/2022 08:02:10	1.350	0.100	2.300
11/17/2022 14:32:03	0.850	0.200	1.550
11/14/2022 13:14:56	1.000	0.100	1.800
11/11/2022 08:35:49	1.350	0.150	1.950
11/10/2022 10:24:53	1.000	0.150	1.950
11/9/2022 12:14:57	0.900	0.250	1.450
11/7/2022 10:37:58	1.300	0.300	2.500
11/7/2022 08:51:17	0.750	0.150	2.700
11/4/2022 09:20:34	1.150	0.250	1.950
11/3/2022 10:28:57	1.400	0.100	1.950
11/2/2022 08:32:00	0.850	0.100	2.250
11/1/2022 11:19:50	1.500	0.500	1.900
11/1/2022 11:02:36	0.850	0.450	1.850
10/31/2022 09:19:47	0.650	0.350	1.650
10/28/2022 09:14:48	0.800	0.050	2.350
10/27/2022 10:50:18	1.100	0.350	2.350
10/26/2022 11:02:54	1.000	0.100	2.600
10/19/2022 12:45:34	1.200	0.150	2.250
10/18/2022 09:12:59	0.800	0.300	2.300
10/13/2022 11:08:12	1.300	0.350	2.150

Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
10/12/2022 09:54:30	1.200	0.300	2.000
10/11/2022 09:12:35	1.250	0.400	2.250
10/6/2022 10:34:09	1.100	0.100	1.950
9/30/2022 08:08:09	1.200	0.400	2.350
9/29/2022 08:44:14	0.800	0.000	2.200
9/28/2022 09:42:45	1.800	0.150	1.950
9/27/2022 08:29:24	1.350	0.250	1.750
9/26/2022 10:25:12	1.400	0.200	1.800
9/23/2022 07:41:43	0.750	0.350	1.900
9/22/2022 11:03:47	1.550	0.350	2.550
9/21/2022 10:21:37	0.800	0.200	1.100
9/20/2022 12:23:56	0.750	0.200	1.550
9/15/2022 11:07:18	0.800	0.400	2.600
9/14/2022 09:29:39	1.050	0.150	2.900
9/13/2022 14:42:43	1.100	0.300	1.550
9/13/2022 08:12:52	1.550	0.450	2.300
9/12/2022 08:42:30	1.500	0.200	1.950
9/9/2022 09:45:48	1.300	0.300	2.050
9/8/2022 12:04:46	2.050	0.200	2.100
9/8/2022 11:48:01	1.000	0.050	1.900
9/8/2022 11:27:44	1.500	0.150	2.100
9/2/2022 07:38:00	1.350	0.050	2.250
9/1/2022 08:15:43	1.350	0.050	1.850
8/31/2022 07:49:17	0.800	0.200	1.700
8/30/2022 09:25:59	1.500	0.150	1.350
8/30/2022 09:00:54	0.900	0.000	0.750
8/25/2022 08:44:13	1.300	0.400	2.000
8/24/2022 08:11:08	0.850	0.100	1.500
8/22/2022 11:28:23	0.700	0.100	1.550
8/22/2022 08:02:13	1.350	0.300	1.050
8/19/2022 08:45:48	1.000	0.150	1.700
8/18/2022 08:00:38	1.650	0.450	2.500
8/17/2022 07:50:25	1.750	0.150	2.650
8/16/2022 08:11:19	1.350	0.300	2.400
8/15/2022 07:58:53	1.100	0.250	1.500
8/12/2022 07:30:34	1.750	0.150	3.000
8/11/2022 12:53:44	1.400	0.450	3.400
8/11/2022 08:29:41	1.850	0.250	2.850
8/10/2022 08:08:22	1.050	0.200	2.000
8/9/2022 08:36:25	1.000	0.200	2.000
8/9/2022 07:53:48	1.050	0.100	1.700

Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
8/1/2022 09:30:01	1.050	0.300	1.750
8/1/2022 08:12:58	1.350	0.250	1.800
7/29/2022 07:24:42	1.300	0.250	2.450
7/28/2022 07:59:19	1.850	0.300	1.950
7/27/2022 08:17:37	1.600	0.250	2.600
7/26/2022 07:53:10	1.150	0.200	1.850
7/25/2022 09:48:29	1.800	0.450	1.850
6/30/2022 11:28:41	1.500	0.150	2.100
6/3/2022 08:15:26	1.550	0.150	1.550
6/1/2022 09:09:25	1.250	0.150	1.050
5/31/2022 12:07:21	1.500	0.200	1.200
5/31/2022 11:56:36	1.250	0.150	1.100
5/26/2022 09:53:19	1.000	0.150	1.400
5/25/2022 11:34:00	1.450	0.050	1.350
5/25/2022 10:52:32	0.950	0.200	1.100

Tune Parameters

Created Date	Extract 1	Extract 2	Omega Bias
7/28/2023 09:28:15	0.0 V	-185.0 V	-90 V
7/27/2023 09:17:24	0.0 V	-185.0 V	-100 V
7/26/2023 10:24:37	0.0 V	-200.0 V	-100 V
7/25/2023 09:08:43	0.0 V	-200.0 V	-120 V
7/24/2023 09:25:55	0.0 V	-175.0 V	-90 V
7/21/2023 09:38:18	0.0 V	-170.0 V	-90 V
7/20/2023 09:50:16	0.0 V	-170.0 V	-90 V
7/19/2023 09:51:11	0.0 V	-165.0 V	-90 V
7/18/2023 10:02:58	0.0 V	-165.0 V	-80 V
7/17/2023 11:07:27	0.0 V	-195.0 V	-100 V
7/17/2023 09:51:07	0.0 V	-200.0 V	-100 V
7/14/2023 13:20:39	0.0 V	-200.0 V	-110 V
7/14/2023 13:13:20	0.0 V	-200.0 V	-110 V
7/14/2023 13:04:01	0.0 V	-200.0 V	-120 V
7/14/2023 12:49:03	0.0 V	-200.0 V	-120 V
7/14/2023 09:43:22	0.0 V	-195.0 V	-110 V
7/13/2023 17:06:49	0.0 V	-200.0 V	-100 V
7/13/2023 16:18:09	0.0 V	-200.0 V	-100 V
7/13/2023 13:12:33	0.0 V	-195.0 V	-110 V

Performance Report

Created Date	Extract 1	Extract 2	Omega Bias
7/12/2023 10:11:37	0.0 V	-190.0 V	-80 V
7/11/2023 10:12:22	0.0 V	-200.0 V	-80 V
7/11/2023 10:02:13	0.0 V	-185.0 V	-100 V
7/10/2023 10:27:11	0.0 V	-140.0 V	-70 V
7/7/2023 10:03:10	0.0 V	-170.0 V	-70 V
7/7/2023 09:53:18	0.0 V	-165.0 V	-70 V
7/6/2023 09:39:20	0.0 V	-145.0 V	-70 V
7/5/2023 09:21:22	0.0 V	-140.0 V	-70 V
7/3/2023 09:52:13	0.0 V	-170.0 V	-70 V
7/3/2023 09:30:59	0.0 V	-175.0 V	-70 V
6/30/2023 09:54:22	0.0 V	-200.0 V	-90 V
6/29/2023 09:42:14	0.0 V	-200.0 V	-90 V
6/28/2023 09:24:23	0.0 V	-200.0 V	-90 V
6/27/2023 09:21:37	0.0 V	-195.0 V	-90 V
6/26/2023 13:04:07	0.0 V	-180.0 V	-80 V
6/23/2023 09:35:05	0.0 V	-200.0 V	-80 V
6/22/2023 09:46:11	0.0 V	-195.0 V	-80 V
6/21/2023 09:51:51	0.0 V	-200.0 V	-80 V
6/20/2023 09:45:37	0.0 V	-195.0 V	-80 V
6/19/2023 09:55:02	0.0 V	-190.0 V	-80 V
6/16/2023 09:23:49	0.0 V	-200.0 V	-90 V
6/15/2023 09:47:30	0.0 V	-200.0 V	-90 V
6/14/2023 09:16:14	0.0 V	-200.0 V	-80 V
6/13/2023 09:49:15	0.0 V	-200.0 V	-80 V
6/12/2023 11:34:15	0.0 V	-195.0 V	-80 V
6/12/2023 09:54:55	0.0 V	-185.0 V	-80 V
6/9/2023 12:39:33	0.0 V	-200.0 V	-90 V
6/9/2023 09:23:31	0.0 V	-200.0 V	-80 V
6/8/2023 10:16:31	0.0 V	-200.0 V	-90 V
6/7/2023 09:48:23	0.0 V	-200.0 V	-90 V
6/6/2023 09:46:41	0.0 V	-200.0 V	-90 V
6/5/2023 09:22:56	0.0 V	-200.0 V	-90 V
6/2/2023 09:34:45	0.0 V	-200.0 V	-100 V
6/1/2023 09:48:17	0.0 V	-180.0 V	-80 V
5/31/2023 09:40:40	0.0 V	-180.0 V	-70 V
5/30/2023 09:32:39	0.0 V	-160.0 V	-70 V
5/26/2023 12:43:13	0.0 V	-195.0 V	-80 V
5/26/2023 12:35:21	0.0 V	-200.0 V	-80 V
5/26/2023 12:24:37	0.0 V	-200.0 V	-90 V
5/26/2023 12:20:08	0.0 V	-200.0 V	-90 V
5/26/2023 12:15:41	0.0 V	-200.0 V	-90 V

Performance Report

Created Date	Extract 1	Extract 2	Omega Bias
5/26/2023 09:21:24	0.0 V	-200.0 V	-90 V
5/25/2023 09:20:09	0.0 V	-200.0 V	-90 V
5/24/2023 12:08:16	0.0 V	-200.0 V	-90 V
5/24/2023 09:30:58	0.0 V	-200.0 V	-90 V
5/23/2023 10:10:03	0.0 V	-195.0 V	-90 V
5/22/2023 10:18:03	0.0 V	-200.0 V	-90 V
5/19/2023 09:10:18	0.0 V	-200.0 V	-90 V
5/18/2023 10:26:22	0.0 V	-200.0 V	-90 V
5/17/2023 09:16:47	0.0 V	-200.0 V	-90 V
5/16/2023 09:59:27	0.0 V	-200.0 V	-90 V
5/15/2023 10:01:28	0.0 V	-200.0 V	-80 V
5/12/2023 09:47:09	0.0 V	-190.0 V	-80 V
5/11/2023 09:16:07	0.0 V	-195.0 V	-80 V
5/10/2023 09:42:50	0.0 V	-175.0 V	-80 V
5/9/2023 09:27:44	0.0 V	-175.0 V	-70 V
5/8/2023 09:26:50	0.0 V	-200.0 V	-90 V
5/5/2023 09:05:22	0.0 V	-200.0 V	-100 V
5/4/2023 10:18:52	0.0 V	-200.0 V	-110 V
5/4/2023 09:42:19	0.0 V	-175.0 V	-80 V
5/3/2023 09:25:16	0.0 V	-175.0 V	-80 V
5/2/2023 14:32:57	0.0 V	-170.0 V	-80 V
5/2/2023 11:11:55	0.0 V	-175.0 V	-80 V
5/2/2023 10:06:56	0.0 V	-175.0 V	-80 V
5/2/2023 09:20:27	0.0 V	-180.0 V	-80 V
5/1/2023 08:58:25	0.0 V	-190.0 V	-80 V
4/28/2023 15:08:06	0.0 V	-185.0 V	-80 V
4/28/2023 11:06:46	0.0 V	-195.0 V	-80 V
4/28/2023 09:28:29	0.0 V	-175.0 V	-90 V
4/27/2023 09:00:22	0.0 V	-195.0 V	-90 V
4/26/2023 08:49:33	0.0 V	-195.0 V	-80 V
4/25/2023 10:22:10	0.0 V	-190.0 V	-80 V
4/24/2023 08:55:03	0.0 V	-170.0 V	-80 V
4/21/2023 12:21:05	0.0 V	-165.0 V	-80 V
4/21/2023 11:08:42	0.0 V	-175.0 V	-80 V
4/21/2023 08:53:22	0.0 V	-165.0 V	-80 V
4/20/2023 09:37:29	0.0 V	-175.0 V	-80 V
4/19/2023 17:09:43	0.0 V	-185.0 V	-80 V
4/19/2023 15:46:38	0.0 V	-185.0 V	-80 V
4/19/2023 14:35:32	0.0 V	-180.0 V	-80 V
4/19/2023 13:54:58	0.0 V	-185.0 V	-80 V
4/19/2023 09:45:34	0.0 V	-180.0 V	-80 V

Performance Report

Created Date	Extract 1	Extract 2	Omega Bias
4/18/2023 09:17:03	0.0 V	-190.0 V	-80 V
4/17/2023 10:23:48	0.0 V	-170.0 V	-70 V
4/17/2023 10:00:25	0.0 V	-190.0 V	-80 V
4/14/2023 08:59:17	0.0 V	-200.0 V	-90 V
4/13/2023 09:01:53	0.0 V	-190.0 V	-90 V
4/12/2023 08:48:04	0.0 V	-200.0 V	-90 V
4/11/2023 14:04:25	0.0 V	-185.0 V	-80 V
4/11/2023 11:58:48	0.0 V	-185.0 V	-80 V
4/11/2023 09:06:40	0.0 V	-200.0 V	-80 V
4/10/2023 10:37:44	0.0 V	-155.0 V	-70 V
4/10/2023 10:22:12	0.0 V	-175.0 V	-80 V
4/10/2023 09:55:11	0.0 V	-175.0 V	-80 V
4/10/2023 09:40:08	0.0 V	-170.0 V	-80 V
4/7/2023 09:12:03	0.0 V	-170.0 V	-80 V
4/6/2023 09:29:25	0.0 V	-175.0 V	-80 V
4/5/2023 12:01:25	0.0 V	-170.0 V	-80 V
4/4/2023 09:25:41	0.0 V	-175.0 V	-80 V
4/4/2023 09:16:16	0.0 V	-175.0 V	-80 V
4/3/2023 10:44:46	0.0 V	-190.0 V	-80 V
3/31/2023 13:01:29	0.0 V	-185.0 V	-80 V
3/31/2023 09:26:11	0.0 V	-175.0 V	-80 V
3/30/2023 09:11:37	0.0 V	-195.0 V	-80 V
3/30/2023 09:01:02	0.0 V	-195.0 V	-80 V
3/29/2023 09:27:41	0.0 V	-195.0 V	-80 V
3/28/2023 09:13:20	0.0 V	-175.0 V	-80 V
3/27/2023 09:16:40	0.0 V	-185.0 V	-80 V
3/24/2023 09:19:12	0.0 V	-190.0 V	-80 V
3/23/2023 10:30:11	0.0 V	-190.0 V	-80 V
3/22/2023 09:09:24	0.0 V	-185.0 V	-70 V
3/21/2023 11:29:57	0.0 V	-175.0 V	-80 V
3/20/2023 15:01:09	0.0 V	-195.0 V	-80 V
3/20/2023 14:56:00	0.0 V	-195.0 V	-80 V
3/20/2023 14:34:11	0.0 V	-200.0 V	-80 V
3/20/2023 11:10:11	0.0 V	-200.0 V	-90 V
3/17/2023 09:15:52	0.0 V	-200.0 V	-90 V
3/16/2023 10:04:21	0.0 V	-200.0 V	-80 V
3/15/2023 08:50:05	0.0 V	-195.0 V	-70 V
3/14/2023 09:23:23	0.0 V	-185.0 V	-70 V
3/13/2023 09:02:28	0.0 V	-195.0 V	-70 V
3/10/2023 09:50:25	0.0 V	-195.0 V	-80 V
3/9/2023 10:05:54	0.0 V	-200.0 V	-80 V

Performance Report

Created Date	Extract 1	Extract 2	Omega Bias
3/8/2023 13:14:50	0.0 V	-200.0 V	-80 V
3/7/2023 10:34:30	0.0 V	-200.0 V	-80 V
3/6/2023 10:45:07	0.0 V	-200.0 V	-80 V
3/3/2023 08:01:46	0.0 V	-200.0 V	-80 V
3/2/2023 09:47:36	0.0 V	-200.0 V	-80 V
3/1/2023 08:51:22	0.0 V	-200.0 V	-80 V
2/28/2023 09:34:23	0.0 V	-195.0 V	-80 V
2/27/2023 14:30:30	0.0 V	-200.0 V	-80 V
2/27/2023 11:22:50	0.0 V	-170.0 V	-80 V
2/27/2023 10:51:56	0.0 V	-170.0 V	-80 V
2/27/2023 10:44:59	0.0 V	-170.0 V	-80 V
2/24/2023 16:23:45	0.0 V	-185.0 V	-80 V
2/24/2023 16:07:57	0.0 V	-185.0 V	-80 V
2/23/2023 08:54:28	0.0 V	-185.0 V	-80 V
2/22/2023 08:37:14	0.0 V	-200.0 V	-80 V
2/21/2023 10:21:12	0.0 V	-195.0 V	-80 V
2/20/2023 08:52:02	0.0 V	-195.0 V	-80 V
2/17/2023 08:36:41	0.0 V	-200.0 V	-90 V
2/16/2023 08:44:34	0.0 V	-200.0 V	-90 V
2/15/2023 12:26:22	0.0 V	-180.0 V	-90 V
2/14/2023 13:04:03	0.0 V	-190.0 V	-80 V
2/13/2023 11:40:00	0.0 V	-200.0 V	-80 V
2/10/2023 10:01:05	0.0 V	-195.0 V	-80 V
2/9/2023 11:28:46	0.0 V	-200.0 V	-80 V
2/8/2023 08:23:24	0.0 V	-200.0 V	-90 V
2/7/2023 11:36:23	0.0 V	-200.0 V	-90 V
2/6/2023 12:36:01	0.0 V	-200.0 V	-100 V
2/3/2023 08:20:53	0.0 V	-200.0 V	-90 V
2/2/2023 07:55:34	0.0 V	-200.0 V	-90 V
2/1/2023 07:42:39	0.0 V	-195.0 V	-90 V
1/31/2023 09:19:32	0.0 V	-175.0 V	-90 V
1/30/2023 10:17:02	0.0 V	-200.0 V	-90 V
1/27/2023 08:15:42	0.0 V	-195.0 V	-90 V
1/26/2023 08:18:20	0.0 V	-200.0 V	-80 V
1/25/2023 09:02:42	0.0 V	-195.0 V	-90 V
1/24/2023 08:45:18	0.0 V	-200.0 V	-80 V
1/23/2023 07:54:12	0.0 V	-200.0 V	-80 V
1/20/2023 07:43:21	0.0 V	-195.0 V	-90 V
1/19/2023 08:47:40	0.0 V	-200.0 V	-90 V
1/18/2023 08:40:18	0.0 V	-200.0 V	-80 V
1/17/2023 09:51:42	0.0 V	-170.0 V	-80 V

Performance Report

Created Date	Extract 1	Extract 2	Omega Bias
1/13/2023 08:18:49	0.0 V	-200.0 V	-80 V
1/12/2023 08:58:54	0.0 V	-195.0 V	-80 V
1/11/2023 08:26:54	0.0 V	-200.0 V	-80 V
1/10/2023 09:03:33	0.0 V	-195.0 V	-80 V
1/9/2023 08:33:43	0.0 V	-195.0 V	-90 V
1/6/2023 09:09:20	0.0 V	-200.0 V	-80 V
1/5/2023 08:59:03	0.0 V	-200.0 V	-80 V
1/4/2023 09:22:57	0.0 V	-200.0 V	-90 V
1/3/2023 07:54:14	0.0 V	-190.0 V	-80 V
12/30/2022 12:03:44	0.0 V	-195.0 V	-80 V
12/30/2022 11:44:52	0.0 V	-195.0 V	-80 V
12/30/2022 08:53:04	0.0 V	-195.0 V	-80 V
12/30/2022 08:43:33	0.0 V	-195.0 V	-80 V
12/29/2022 09:51:14	0.0 V	-200.0 V	-80 V
12/28/2022 10:56:59	0.0 V	-200.0 V	-90 V
12/27/2022 11:51:09	0.0 V	-195.0 V	-80 V
12/22/2022 13:03:41	0.0 V	-200.0 V	-90 V
12/20/2022 10:03:57	0.0 V	-200.0 V	-90 V
12/15/2022 08:54:42	0.0 V	-200.0 V	-90 V
12/14/2022 07:30:17	0.0 V	-200.0 V	-80 V
12/13/2022 08:19:58	0.0 V	-200.0 V	-90 V
12/12/2022 09:25:41	0.0 V	-200.0 V	-90 V
12/9/2022 07:32:14	0.0 V	-185.0 V	-90 V
12/7/2022 09:04:52	0.0 V	-200.0 V	-80 V
12/6/2022 09:40:47	0.0 V	-200.0 V	-90 V
12/5/2022 09:33:56	0.0 V	-200.0 V	-90 V
12/2/2022 08:43:06	0.0 V	-200.0 V	-90 V
12/1/2022 08:14:13	0.0 V	-200.0 V	-90 V
11/30/2022 09:05:47	0.0 V	-200.0 V	-90 V
11/29/2022 09:56:17	0.0 V	-190.0 V	-80 V
11/22/2022 08:57:48	0.0 V	-200.0 V	-80 V
11/21/2022 09:24:58	0.0 V	-200.0 V	-80 V
11/18/2022 08:02:10	0.0 V	-200.0 V	-90 V
11/17/2022 14:32:03	0.0 V	-195.0 V	-90 V
11/14/2022 13:14:56	0.0 V	-180.0 V	-90 V
11/11/2022 08:35:49	0.0 V	-195.0 V	-90 V
11/10/2022 10:24:53	0.0 V	-185.0 V	-80 V
11/9/2022 12:14:57	0.0 V	-185.0 V	-70 V
11/7/2022 10:37:58	0.0 V	-200.0 V	-80 V
11/7/2022 08:51:17	0.0 V	-200.0 V	-110 V
11/4/2022 09:20:34	0.0 V	-200.0 V	-110 V

Performance Report

Created Date	Extract 1	Extract 2	Omega Bias
11/3/2022 10:28:57	0.0 V	-200.0 V	-120 V
11/2/2022 08:32:00	0.0 V	-200.0 V	-120 V
11/1/2022 11:19:50	0.0 V	-200.0 V	-120 V
11/1/2022 11:02:36	0.0 V	-200.0 V	-120 V
10/31/2022 09:19:47	0.0 V	-200.0 V	-120 V
10/28/2022 09:14:48	0.0 V	-200.0 V	-120 V
10/27/2022 10:50:18	0.0 V	-200.0 V	-120 V
10/26/2022 11:02:54	0.0 V	-200.0 V	-120 V
10/19/2022 12:45:34	0.0 V	-200.0 V	-120 V
10/18/2022 09:12:59	0.0 V	-200.0 V	-120 V
10/13/2022 11:08:12	0.0 V	-200.0 V	-120 V
10/12/2022 09:54:30	0.0 V	-200.0 V	-120 V
10/11/2022 09:12:35	0.0 V	-200.0 V	-110 V
10/6/2022 10:34:09	0.0 V	-195.0 V	-100 V
9/30/2022 08:08:09	0.0 V	-195.0 V	-100 V
9/29/2022 08:44:14	0.0 V	-195.0 V	-100 V
9/28/2022 09:42:45	0.0 V	-195.0 V	-100 V
9/27/2022 08:29:24	0.0 V	-195.0 V	-100 V
9/26/2022 10:25:12	0.0 V	-195.0 V	-100 V
9/23/2022 07:41:43	0.0 V	-195.0 V	-100 V
9/22/2022 11:03:47	0.0 V	-195.0 V	-100 V
9/21/2022 10:21:37	0.0 V	-195.0 V	-100 V
9/20/2022 12:23:56	0.0 V	-195.0 V	-100 V
9/15/2022 11:07:18	0.0 V	-195.0 V	-100 V
9/14/2022 09:29:39	0.0 V	-200.0 V	-80 V
9/13/2022 14:42:43	0.0 V	-200.0 V	-80 V
9/13/2022 08:12:52	0.0 V	-195.0 V	-80 V
9/12/2022 08:42:30	0.0 V	-190.0 V	-80 V
9/9/2022 09:45:48	0.0 V	-200.0 V	-80 V
9/8/2022 12:04:46	0.0 V	-200.0 V	-80 V
9/8/2022 11:48:01	0.0 V	-200.0 V	-70 V
9/8/2022 11:27:44	0.0 V	-200.0 V	-70 V
9/2/2022 07:38:00	0.0 V	-200.0 V	-80 V
9/1/2022 08:15:43	0.0 V	-200.0 V	-80 V
8/31/2022 07:49:17	0.0 V	-200.0 V	-80 V
8/30/2022 09:25:59	0.0 V	-200.0 V	-80 V
8/30/2022 09:00:54	0.0 V	-200.0 V	-90 V
8/25/2022 08:44:13	0.0 V	-200.0 V	-90 V
8/24/2022 08:11:08	0.0 V	-200.0 V	-90 V
8/22/2022 11:28:23	0.0 V	-200.0 V	-80 V
8/22/2022 08:02:13	0.0 V	-200.0 V	-80 V

Performance Report

Created Date	Extract 1	Extract 2	Omega Bias
8/19/2022 08:45:48	0.0 V	-200.0 V	-80 V
8/18/2022 08:00:38	0.0 V	-200.0 V	-80 V
8/17/2022 07:50:25	0.0 V	-200.0 V	-80 V
8/16/2022 08:11:19	0.0 V	-200.0 V	-80 V
8/15/2022 07:58:53	0.0 V	-200.0 V	-80 V
8/12/2022 07:30:34	0.0 V	-200.0 V	-80 V
8/11/2022 12:53:44	0.0 V	-200.0 V	-80 V
8/11/2022 08:29:41	0.0 V	-200.0 V	-80 V
8/10/2022 08:08:22	0.0 V	-200.0 V	-70 V
8/9/2022 08:36:25	0.0 V	-200.0 V	-80 V
8/9/2022 07:53:48	0.0 V	-200.0 V	-80 V
8/1/2022 09:30:01	0.0 V	-200.0 V	-80 V
8/1/2022 08:12:58	0.0 V	-200.0 V	-80 V
7/29/2022 07:24:42	0.0 V	-200.0 V	-80 V
7/28/2022 07:59:19	0.0 V	-200.0 V	-80 V
7/27/2022 08:17:37	0.0 V	-200.0 V	-90 V
7/26/2022 07:53:10	0.0 V	-200.0 V	-90 V
7/25/2022 09:48:29	0.0 V	-195.0 V	-90 V
6/30/2022 11:28:41	0.0 V	-200.0 V	-90 V
6/3/2022 08:15:26	0.0 V	-200.0 V	-90 V
6/1/2022 09:09:25	0.0 V	-195.0 V	-90 V
5/31/2022 12:07:21	0.0 V	-200.0 V	-90 V
5/31/2022 11:56:36	0.0 V	-200.0 V	-90 V
5/26/2022 09:53:19	0.0 V	-200.0 V	-110 V
5/25/2022 11:34:00	0.0 V	-200.0 V	-100 V
5/25/2022 10:52:32	0.0 V	-200.0 V	-100 V

US EPA Tune Check Report

Operator Name ICPMS
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\072823JR.b
Acq. Date-Time 7/28/2023 09:58:24
Report Comment ---
Instrument Name G8422A SG22151236

[No Gas]

Sensitivity

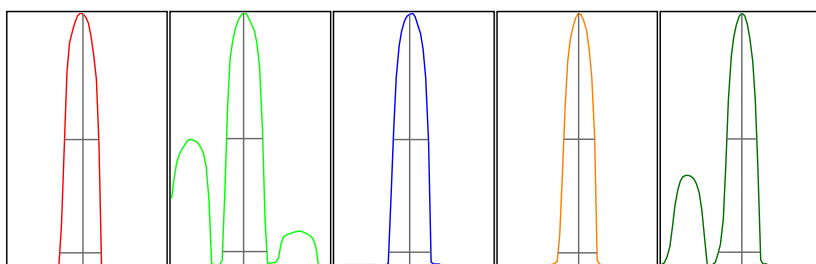
Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/(ug/l)]	Resp (Flag)	RSD%	RSD% (Required)
9	10.00	11207	112069.21			0.611	5.000
24	10.00	61716	617164.61			1.784	5.000
59	10.00	143574	1435735.16			0.958	5.000
115	10.00	243085	2430849.79			1.007	5.000
208	10.00	136813	1368125.50			1.473	5.000

Mass	RSD% (Flag)
9	
24	
59	
115	
208	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	11135	11176	11180	11313	11231
24	60331	62445	62432	60716	62658
59	144385	142821	141653	143823	145185
115	240344	244222	240861	246199	243798
208	134020	138499	135417	137548	138579

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	18239.09	8.95	8.90 - 9.10	
24	95614.30	23.90	23.90 - 24.10	
59	228378.39	58.95	58.90 - 59.10	
115	443161.69	115.05	114.90 - 115.10	
208	251087.06	208.05	207.90 - 208.10	

US EPA Tune Check Report

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.64	0.780	0.900	
24	0.67	0.831	0.900	
59	0.66	0.787	0.900	
115	0.57	0.731	0.900	
208	0.56	0.785	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 153.699999999999
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.70 L/min	Makeup Gas	0.50 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	4.8 V	Deflect	11.0 V
Extract 2	-50.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-30 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	0.0 mL/min	OctP RF	200 V		

QP Parameters

Mass Gain	123	Axis Gain	0.9996	QP Bias	-3.0 V
Mass Offset	124	Axis Offset	0.00		

Hardware Settings

Torch

Torch H	0.3 mm	Torch V	0.6 mm
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EM

Discriminator	3.1 mV	Analog HV	2150 V	Pulse HV	1235 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/(ug/l)]	Resp (Flag)	RSD%	RSD% (Required)
24	10.00	3601	36009.47			0.699	5.000
59	10.00	90882	908820.14			1.188	5.000
115	10.00	147191	1471907.50			0.932	5.000
208	10.00	184542	1845421.09			0.775	5.000

Mass	RSD% (Flag)
24	
59	

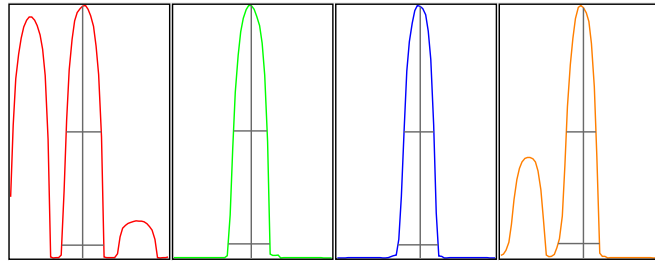
US EPA Tune Check Report

Mass	RSD% (Flag)
115	
208	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
24	3640	3597	3608	3583	3576
59	90671	89794	91005	92637	90303
115	149295	145582	147177	146506	147395
208	183902	183975	187091	183706	184037

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
24	5782.12	23.90	23.90 - 24.10	
59	151617.45	59.00	58.90 - 59.10	
115	273292.72	115.10	114.90 - 115.10	
208	338805.36	208.10	207.90 - 208.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
24	0.65	0.787	0.900	
59	0.63	0.781	0.900	
115	0.56	0.754	0.900	
208	0.55	0.773	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 122.96
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.70 L/min	Makeup Gas	0.35 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	8.3 V	Deflect	-0.8 V
Extract 2	-145.0 V	Cell Entrance	-40 V	Plate Bias	-55 V
Omega Bias	-75 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	3.0 V
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US EPA Tune Check Report

He Flow	4.3 mL/min	OctP Bias	-18.0 V
H2 Flow	0.0 mL/min	OctP RF	200 V

QP Parameters

Mass Gain	123	Axis Gain	0.9996	QP Bias	-15.0 V
Mass Offset	124	Axis Offset	0.00		

Hardware Settings

Torch

Torch H	0.3 mm	Torch V	0.6 mm
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EM

Discriminator	3.1 mV	Analog HV	2150 V	Pulse HV	1235 V
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Supporting Data

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: ICP-MS 2 AGILENT 7850 230728A

CCV Name: CAL BLANK

Run No: 85556

CCV SeqNo: 1785038

Lab File ID (Standard): 003CALB.d

Date Analyzed: 7/28/2023

Instrument ID: ICP-MS 2 Agilent 7850

Time Analyzed: 10:04

GC Column: ID (mm):

Length (M):

	IS1 Lithium 6		IS2 Scandium		IS3 Germanium		IS4 Yttrium	
	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	395927.91	0.000	146612.73	0.000	120536.79	0.000	0	0.000
UPPER LIMIT	1979639.55	1.000	733063.65	1.000	602683.95	1.000	0	1.000
LOWER LIMIT	118778	-1.000	43984	-1.000	36161	-1.000	0	-1.000
SAMPLE NO.								
01	ICV	364899	0	125155	0	104447	0	0
02	ICSA	356554	0	120979	0	101213	0	0
03	CCV-41012A	368210	0	123200	0	104149	0	0
04	CCB-41012A	370292	0	122110	0	102987	0	0
05	MB-41012	366053	0	122371	0	103312	0	0
06	LCS-41012	365620	0	122100	0	103580	0	0
07	2307302-003A	376530	0	167909	0	112509	0	0
08	2307302-003ADIL	381448	0	142540	0	113149	0	0
09	2307302-003AMS	378729	0	171491	0	113994	0	0
10	2307302-003AMSD	376781	0	170134	0	112944	0	0
11	2307302-003APDS	373016	0	166167	0	112961	0	0
12	2307302-004A	381762	0	168738	0	114251	0	0
13	CCV-41012B	381641	0	137160	0	113799	0	0
14	CCB-41012B	373212	0	137707	0	113505	0	0
15	CCV-41012C	372259	0	138396	0	114726	0	0
16	CCB-41012C	361212	0	138765	0	115867	0	0
17	2307340-001A	369018	0	132123	0	111037	0	0
18	CCV-41012D	355168	0	132192	0	110722	0	0
19	CCB-41012D	355398	0	133329	0	110171	0	0
20	CCV-41012E	20929.7 *	0	1.057e+006 *	0	108437	0	0
21	CCB-41012E	20859.6 *	0	1.01805e+006 *	0	106577	0	0
22	LCS-41012	20959.8 *	0	1.03018e+006 *	0	106937	0	0
23	CCV-41012F	20955.3 *	0	1.03444e+006 *	0	106654	0	0
24	CCB-41012F	20622.6 *	0	1.01474e+006 *	0	105292	0	0

IS1 Lithium 6 = Lithium 6

IS3 Germanium = Germanium

IS2 Scandium = Scandium

IS4 Yttrium = Yttrium (89)

AREA UPPER LIMIT = +400% of internal standard area

AREA LOWER LIMIT = -70% of internal standard area

RT UPPER LIMIT = +1.00 minutes of internal standard RT

RT LOWER LIMIT = -1.00 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: ICP-MS 2 AGILENT 7850 230728A CCV Name: CAL BLANK
 Run No: 85556 CCV SeqNo: 1785038
 Lab File ID (Standard): 003CALB.d Date Analyzed: 7/28/2023
 Instrument ID: ICP-MS 2 Agilent 7850 Time Analyzed: 10:04
 GC Column: ID (mm): Length (M):

	IS5 Indium AREA #	RT #	IS6 Bismuth AREA #	RT #				
12 HOUR STD	1471996.98	0.000	2804075	0.000				
UPPER LIMIT	7359984.9	1.000	14020375	1.000				
LOWER LIMIT	441599	-1.000	841223	-1.000				
SAMPLE NO.								
01 ICV	1.31429e+006	0	2.76428e+006	0				
02 ICSA	1.23077e+006	0	2.5824e+006	0				
03 CCV-41012A	1.30048e+006	0	2.70912e+006	0				
04 CCB-41012A	1.28627e+006	0	2.74441e+006	0				
05 MB-41012	1.32867e+006	0	2.7646e+006	0				
06 LCS-41012	1.2368e+006	0	2.69326e+006	0				
07 2307302-003A	1.3207e+006	0	2.62241e+006	0				
08 2307302-003ADIL	1.38283e+006	0	2.88639e+006	0				
09 2307302-003AMS	1.32316e+006	0	2.64736e+006	0				
10 2307302-003AMSD	1.27933e+006	0	2.67736e+006	0				
11 2307302-003APDS	1.26221e+006	0	2.64801e+006	0				
12 2307302-004A	1.32148e+006	0	2.65358e+006	0				
13 CCV-41012B	1.40991e+006	0	2.87782e+006	0				
14 CCB-41012B	1.41553e+006	0	2.836e+006	0				
15 CCV-41012C	1.40958e+006	0	2.80161e+006	0				
16 CCB-41012C	1.4358e+006	0	2.79395e+006	0				
17 2307340-001A	1.3993e+006	0	2.79417e+006	0				
18 CCV-41012D	1.39997e+006	0	2.87504e+006	0				
19 CCB-41012D	1.39467e+006	0	2.79031e+006	0				
20 CCB-41012E	1.32564e+006	0	2.82025e+006	0				
21 LCS-41012	1.35066e+006	0	2.74688e+006	0				
22 CCV-41012F	1.37679e+006	0	2.67993e+006	0				
23 CCB-41012F	1.34991e+006	0	2.76353e+006	0				
24 CCV-41012E	1.33322e+006	0	2.77622e+006	0				

IS5 Indium = Indium
 IS6 Bismuth = Bismuth

AREA UPPER LIMIT = +400% of internal standard area
 AREA LOWER LIMIT = -70% of internal standard area
 RT UPPER LIMIT = +1.00 minutes of internal standard RT
 RT LOWER LIMIT = -1.00 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.



3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

GeoEngineers

Robert Trahan
2101 4th Ave, Suite 950
Seattle, WA 98121

**RE: S Jackson Street
Work Order Number: 2308053**

August 04, 2023

Attention Robert Trahan:

Fremont Analytical, Inc. received 4 sample(s) on 8/3/2023 for the analyses presented in the following report.

***Sample Moisture (Percent Moisture)
Total Metals by EPA Method 6020B***

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager

*DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.3 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910*

Revision v1

www.fremontanalytical.com

CLIENT: GeoEngineers
Project: S Jackson Street
Work Order: 2308053

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2308053-001	R1-B-95	08/03/2023 1:10 PM	08/03/2023 2:32 PM
2308053-002	R1-WSW-98	08/03/2023 1:25 PM	08/03/2023 2:32 PM
2308053-003	R1-SSW-98	08/03/2023 1:15 PM	08/03/2023 2:32 PM
2308053-004	DUP-R1	08/03/2023 6:00 AM	08/03/2023 2:32 PM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: GeoEngineers
Project: S Jackson Street

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

9/28/2023: Revision 1 includes Level 2B data.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Client: GeoEngineers

Collection Date: 8/3/2023 1:10:00 PM

Project: S Jackson Street

Lab ID: 2308053-001

Matrix: Soil

Client Sample ID: R1-B-95

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
----------	--------	----	------	-------	----	---------------

Total Metals by EPA Method 6020B

Batch ID: 41095 Analyst: FG

Lead	4.97	0.903		mg/Kg-dry	1	8/4/2023 1:28:00 PM
------	------	-------	--	-----------	---	---------------------

Sample Moisture (Percent Moisture)

Batch ID: R85709 Analyst: MP

Percent Moisture	11.4	0.500		wt%	1	8/4/2023 8:24:55 AM
------------------	------	-------	--	-----	---	---------------------



Client: GeoEngineers

Collection Date: 8/3/2023 1:25:00 PM

Project: S Jackson Street

Lab ID: 2308053-002

Matrix: Soil

Client Sample ID: R1-WSW-98

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
----------	--------	----	------	-------	----	---------------

Total Metals by EPA Method 6020B

Batch ID: 41095 Analyst: FG

Lead	40.2	0.988		mg/Kg-dry	1	8/4/2023 1:31:00 PM
------	------	-------	--	-----------	---	---------------------

Sample Moisture (Percent Moisture)

Batch ID: R85709 Analyst: MP

Percent Moisture	17.7	0.500		wt%	1	8/4/2023 8:24:55 AM
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Client: GeoEngineers

Collection Date: 8/3/2023 1:15:00 PM

Project: S Jackson Street

Lab ID: 2308053-003

Matrix: Soil

Client Sample ID: R1-SSW-98

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Total Metals by EPA Method 6020B

Batch ID: 41095 Analyst: FG

Lead	3.74	0.804		mg/Kg-dry	1	8/4/2023 1:33:00 PM
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Sample Moisture (Percent Moisture)

Batch ID: R85709 Analyst: MP

Percent Moisture	5.06	0.500		wt%	1	8/4/2023 8:24:55 AM
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Client: GeoEngineers
Project: S Jackson Street
Lab ID: 2308053-004
Client Sample ID: DUP-R1

Collection Date: 8/3/2023 6:00:00 AM
Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Total Metals by EPA Method 6020B</u>				Batch ID: 41095		Analyst: FG
Lead	1.69	0.770		mg/Kg-dry	1	8/4/2023 1:41:00 PM
<u>Sample Moisture (Percent Moisture)</u>				Batch ID: R85709		Analyst: MP
Percent Moisture	4.53	0.500		wt%	1	8/4/2023 8:24:55 AM

Work Order: 2308053
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT
Total Metals by EPA Method 6020B

Sample ID: ICB	SampType: ICB	Units: µg/L	Prep Date: 8/4/2023	RunNo: 85720							
Client ID: ICB	Batch ID: 41095		Analysis Date: 8/4/2023	SeqNo: 1788658							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	ND	1.00								
------	----	------	--	--	--	--	--	--	--	--

Sample ID: ICV	SampType: ICV	Units: µg/L	Prep Date: 8/4/2023	RunNo: 85720							
Client ID: ICV	Batch ID: 41095		Analysis Date: 8/4/2023	SeqNo: 1788661							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	50.6	1.00	50.00	0	101	90	110			
------	------	------	-------	---	-----	----	-----	--	--	--

Sample ID: MB-41095	SampType: MBLK	Units: mg/Kg	Prep Date: 8/4/2023	RunNo: 85720							
Client ID: MBLKS	Batch ID: 41095		Analysis Date: 8/4/2023	SeqNo: 1788634							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	ND	1.00								
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Sample ID: LCS-41095	SampType: LCS	Units: mg/Kg	Prep Date: 8/4/2023	RunNo: 85720							
Client ID: LCSS	Batch ID: 41095		Analysis Date: 8/4/2023	SeqNo: 1788635							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	18.8	0.763	19.08	0	98.7	80	120			
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Sample ID: 2308054-001AMS	SampType: MS	Units: mg/Kg-dry	Prep Date: 8/4/2023	RunNo: 85720							
Client ID: BATCH	Batch ID: 41095		Analysis Date: 8/4/2023	SeqNo: 1788640							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	53.3	0.908	22.69	33.97	85.2	75	125			
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Work Order: 2308053
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT
Total Metals by EPA Method 6020B

Sample ID: 2308054-001AMSD	SampType: MSD	Units: mg/Kg-dry	Prep Date: 8/4/2023	RunNo: 85720							
Client ID: BATCH	Batch ID: 41095	Analysis Date: 8/4/2023	SeqNo: 1788641								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	56.4	0.950	23.75	33.97	94.3	75	125	53.31	5.57	20	

Sample ID: CCV-41095A	SampType: CCV	Units: µg/L	Prep Date: 8/4/2023	RunNo: 85720							
Client ID: CCV	Batch ID: 41095	Analysis Date: 8/4/2023	SeqNo: 1788648								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	53.8	1.00	50.00	0	108	90	110				

Sample ID: CCB-41095A	SampType: CCB	Units: µg/L	Prep Date: 8/4/2023	RunNo: 85720							
Client ID: CCB	Batch ID: 41095	Analysis Date: 8/4/2023	SeqNo: 1788649								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	1.00									

Sample ID: CCV-41095B	SampType: CCV	Units: µg/L	Prep Date: 8/4/2023	RunNo: 85720							
Client ID: CCV	Batch ID: 41052	Analysis Date: 8/4/2023	SeqNo: 1789252								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	52.1	1.00	50.00	0	104	90	110				

Sample ID: CCB-41095B	SampType: CCB	Units: µg/L	Prep Date: 8/4/2023	RunNo: 85720							
Client ID: CCB	Batch ID: 41052	Analysis Date: 8/4/2023	SeqNo: 1789253								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	1.00									

Work Order: 2308053
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT
Total Metals by EPA Method 6020B

Sample ID: CCV-41095C	SampType: CCV	Units: µg/L	Prep Date: 8/10/2023	RunNo: 85720							
Client ID: CCV	Batch ID: 41095	Analysis Date: 8/10/2023	SeqNo: 1791414								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	52.2	1.00	50.00	0	104	90	110				

Sample ID: CCB-41095C	SampType: CCB	Units: µg/L	Prep Date: 8/10/2023	RunNo: 85720							
Client ID: CCB	Batch ID: 41095	Analysis Date: 8/10/2023	SeqNo: 1791415								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	1.00									

Client Name: GEI	Work Order Number: 2308053
Logged by: Morgan Wilson	Date Received: 8/3/2023 2:32:00 PM

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
2. How was the sample delivered? Client

Log In

3. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes No Not Present
4. Was an attempt made to cool the samples? Yes No NA
5. Were all items received at a temperature of >2°C to 6°C * Yes No NA Unknown prior to receipt.
6. Sample(s) in proper container(s)? Yes No
7. Sufficient sample volume for indicated test(s)? Yes No
8. Are samples properly preserved? Yes No
9. Was preservative added to bottles? Yes No NA
10. Is there headspace in the VOA vials? Yes No NA
11. Did all samples containers arrive in good condition(unbroken)? Yes No
12. Does paperwork match bottle labels? Yes No
13. Are matrices correctly identified on Chain of Custody? Yes No
14. Is it clear what analyses were requested? Yes No
15. Were all holding times able to be met? Yes No

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

17. Additional remarks:

Item Information

Item #	Temp °C
Sample	29.0

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C



Fremont
Analytical
ANALYTICAL LABORATORY SERVICES

3600 Fremont Ave. N.
Seattle, WA 98103
Tel: 206-352-3790

Chain of Custody Record & Laboratory Services Agreement

Date: 8/3/23 Page: 9 of: 1

Project Name: S Jackson Street

Project No: 24504-001-01

Collected by: Paul Robinette

Location: Seattle, WA

Report To (PM): Robert Trahan

Laboratory Project No (Internal):
Special Remarks:

Level 2 QA

2308053

Disposition: Samples will be disposed in 30 days unless otherwise requested.
 Retain volume (Specify above) Return to client

Client: GeoEngineers

Address: 2101 4th Ave Ste 950

City, State, zip: Seattle, WA 98121

Telephone: 425.861.2674

Email(s): rtrahan@geoengineers.com

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	# of Cont.	Analytes											Comments					
					VOCs (EPA 8260 / 624)	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HID)	Diesel/Heavy Oil Range Organics (DH)	SVOCS (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 609)	Metals** (EPA 6020 / 200.8)	Total (T) Dissolved (D)	Anions (IC)***		EDB (8011)				
1 R10B-45	8/3/23	1310	S	1																	
2 R1-WSUJ-98	8/3/23	1325	S	1																	
3 R1-SSUJ-98	8/3/23	1315	S	1																	
4 DSP-R1	8/3/23	0600	S	1																	
5																					
6																					
7																					
8																					
9																					
10																					

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water

**Metals (Circle): MICA-5 RCRA-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Tl V Zn

***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide Fluoride Nitrate+Nitrite

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished (Signature) <u>Paul Robinette</u>	Print Name <u>Paul Robinette</u>	Date/Time <u>8/3/23 1432</u>	Received (Signature) <u>Emma Tuel</u>	Print Name <u>Emma Tuel</u>	Date/Time <u>8/3/23 14:32</u>
Relinquished (Signature)	Print Name	Date/Time	Received (Signature)	Print Name	Date/Time

DATA SET for Review - Deliverable Requirements

Total Metals by EPA Method 6020B

Fremont Analytical Work Order No. 2308053

GeoEngineers

Project Name: S Jackson Street

Project Number: 24504-001-01

This data set contains the following:

- Analytical Sequence Summary
- Calibration Information
- Tune Information
- Internal Standards Report

Batch Log

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\080423FG.b

Batch Log

#	Acq. Date-Time	Sample Type	Sample Name	Vial#	File Name	Acquisition Result	Error Message	Dilution Result	Comment	Operator	Replicates	Level
1	8/4/2023 09:31:11	CalBlk	CAL BLANK	1	001CALB.d	Pass		1		ICPMS		1
2	8/4/2023 09:33:46	CalBlk	CAL BLANK	1	002CALB.d	Pass		1		ICPMS		1
3	8/4/2023 09:36:36	CalBlk	CAL BLANK	1	003CALB.d	Pass		1		ICPMS		1
4	8/4/2023 09:39:23	CalStd	STANDARD 1	5	004CAL.S.d	Pass		1		ICPMS		2
5	8/4/2023 09:42:12	CalStd	STANDARD 2	5	005CAL.S.d	Pass		1		ICPMS		3
6	8/4/2023 09:45:02	CalStd	STANDARD 3	5	006CAL.S.d	Pass		1		ICPMS		4
7	8/4/2023 09:47:51	CalStd	STANDARD 4	5	007CAL.S.d	Pass		1		ICPMS		5
8	8/4/2023 09:50:39	CalStd	STANDARD 5	5	008CAL.S.d	Pass		1		ICPMS		6

#	ISTD Conc	Auto Dilution (ISIS 2)	Total Dil.	Final Weight or Volume	Sample Weight or Volume	prepFAST Dilution	Sublist	Total Acq Time	Max. Daily Dose	%J	User Def. 1	User Def. 2	User Def. 3
1													
2			100	1	1	100							
3													
4			200	1	1	200							
5			100	1	1	100							
6			20	1	1	20							
7			4	1	1	4							
8			1	1	1	1							

#	QC Failed Criteria	QC Failed Elements
1		
2		
3		
4		
5		
6		
7		
8		

Batch Log

#	Acq. Date-Time	Sample Type	Sample Name	Vial#	File Name	Acquisition Result	Error Message	Dilution Result	Comment	Operator	Replicates	Level
9	8/4/2023 09:53:13	CalStd	STANDARD 6	101	009CAL.S.d	Pass		1		ICPMS		7
10	8/4/2023 09:55:32	CalStd	STANDARD 7	102	010CAL.S.d	Pass		1		ICPMS		8
11	8/4/2023 09:57:43	Sample	Wash	6	011SMPL.d	Pass		1		ICPMS		
12	8/4/2023 10:00:18	ICB	ICB	1	012_ICB.d	Pass		1		ICPMS		
13	8/4/2023 10:02:54	ICV	ICV	111	013_ICV.d	Fail	QC check failed.	1		ICPMS		
14	8/4/2023 10:05:16	Sample	ICSA	112	014SMPL.d	Fail	QC check failed.	1		ICPMS		
15	8/4/2023 10:07:41	ICV	ICV	111	015_ICV.d	Fail	QC check failed.	1		ICPMS		
16	8/4/2023 10:10:04	ICV	ICV	111	016_ICV.d	Fail	QC check failed.	1		ICPMS		

#	ISTD Conc	Auto Dilution (ISIS 2)	Total Dil.	Final Weight or Volume	Sample Weight or Volume	prepFAST Dilution	Sublist	Total Acq Time	Max. Daily Dose	%J	User Def. 1	User Def. 2	User Def. 3
9													
10													
11													
12													
13													
14													
15													
16													

#	QC Failed Criteria	QC Failed Elements
9		
10		
11		
12		
13	Main Error1 Criteria1	#1:Be #2:Cu
14	Main Error1 Criteria1	#2:Fe,Ca,Na
15	Main Error1 Criteria1	#2:Ca,Co

Batch Log

#	QC Failed Criteria	QC Failed Elements
16	ISTD Criteria1	#1:Li,Sc #2:In,Rh,Tb,Bi,Ge,Lu

#	Acq. Date-Time	Sample Type	Sample Name	Vial#	File Name	Acquisition Result	Error Message	Dilution Result	Comment	Operator	Replicates	Level
17	8/4/2023 10:12:38	Sample	ICSA	112	017SMPL.d	Fail	QC check failed.	1		ICPMS		
18	8/4/2023 10:12:23	Sample	LDR	110		Skip				ICPMS		
19	8/4/2023 10:15:03	Sample	Wash	6	018SMPL.d	Pass		1		ICPMS		
20	8/4/2023 10:17:23	<Pause>				Pass				ICPMS		
21	8/4/2023 10:35:32	Sample	Wash	6	019SMPL.d	Pass		1		ICPMS		
22	8/4/2023 10:38:08	Sample	MB-41095	0301	020SMPL.d	Fail	QC check failed.	1		ICPMS		
23	8/4/2023 10:40:27	<Pause>				Pass				ICPMS		
24	8/4/2023 11:23:37	Sample	MB-41095	301	021SMPL.d	Fail	QC check failed.	1		ICPMS		

#	ISTD Conc	Auto Dilution (ISIS 2)	Total Dil.	Final Weight or Volume	Sample Weight or Volume	prepFAST Dilution	Sublist	Total Acq Time	Max. Daily Dose	%J	User Def. 1	User Def. 2	User Def. 3
17													
18													
19													
20													
21													
22													
23													
24													

#	QC Failed Criteria	QC Failed Elements
17	Main Error1 Criteria1	#2:Fe,Ca,Na
18		
19		
20		
21		

Batch Log

#	QC Failed Criteria	QC Failed Elements
22	ISTD Criteria1	#1:Li,Sc #2 :Sc,In,Rh,Tb,Bi ,Ge,Lu
23		
24	ISTD Criteria1	#1:Li,Sc #2 :Sc,In,Rh,Tb,Bi ,Ge,Lu

Batch Log

#	Acq. Date-Time	Sample Type	Sample Name	Vial#	File Name	Acquisition Result	Error Message	Dilution Result	Comment	Operator	Replicates	Level
25	8/4/2023 11:25:57	<Pause>				Pass				ICPMS		
26	8/4/2023 12:59:22	Sample	Wash	6	022SMPL.d	Pass		1		ICPMS		
27	8/4/2023 13:01:59	Sample	MB-41095	301	023SMPL.d	Pass		1		ICPMS		
28	8/4/2023 13:04:34	Sample	LCS-41095	302	024SMPL.d	Pass		1		ICPMS		
29	8/4/2023 13:07:02	CCV	CCV	5	025_CC.V.d	Fail	QC check failed.	1		ICPMS		
30	8/4/2023 13:09:26	CCB	CCB	1	026_CCB.d	Pass		1		ICPMS		
31	8/4/2023 13:12:00	Sample	2308054-001A	303	027SMPL.d	Fail	QC check failed.	1		ICPMS		
32	8/4/2023 13:14:22	Sample	2308054-001ADIL	304	028SMPL.d	Pass		1		ICPMS		

#	ISTD Conc	Auto Dilution (ISIS 2)	Total Dil.	Final Weight or Volume	Sample Weight or Volume	prepFAST Dilution	Sublist	Total Acq Time	Max. Daily Dose	%J	User Def. 1	User Def. 2	User Def. 3
25													
26													
27													
28													
29													
30													
31													
32													

#	QC Failed Criteria	QC Failed Elements
25		
26		
27		
28		
29	Main Error1 Criteria1	#2:Na
30		
31	Main Error1 Criteria1	#2:Fe,Al,Ti
32		

#	Acq. Date-Time	Sample Type	Sample Name	Vial#	File Name	Acquisition Result	Error Message	Dilution Result	Comment	Operator	Replicates	Level
33	8/4/2023 13:16:50	Sample	2308054-001AMS	305	029SMPL.d	Fail	QC check failed.	1		ICPMS		

Batch Log

#	Acq. Date-Time	Sample Type	Sample Name	Vial#	File Name	Acquisition Result	Error Message	Dilution Result	Comment	Operator	Replicates	Level
34	8/4/2023 13:19:03	Sample	2308054-001AMSD	306	030SMPL.d	Fail	QC check failed.	1		ICPMS		
35	8/4/2023 13:21:00	<Pause>				Pass				ICPMS		
36	8/4/2023 13:21:54	Sample	2308054-001APDS	307	031SMPL.d	Fail	QC check failed.	1		ICPMS		
37	8/4/2023 13:24:06	Sample	2308054-002A	308	032SMPL.d	Fail		1		ICPMS		
38	8/4/2023 13:26:29	Sample	2308054-003A	309	033SMPL.d	Fail	QC check failed.	1		ICPMS		
39	8/4/2023 13:28:53	Sample	2308053-001A	310	034SMPL.d	Fail	QC check failed.	1		ICPMS		
40	8/4/2023 13:31:21	Sample	2308053-002A	311	035SMPL.d	Fail	QC check failed.	1		ICPMS		

#	ISTD Conc	Auto Dilution (ISIS 2)	Total Dil.	Final Weight or Volume	Sample Weight or Volume	prepFAST Dilution	Sublist	Total Acq Time	Max. Daily Dose	%J	User Def. 1	User Def. 2	User Def. 3
33													
34													
35													
36													
37													
38													
39													
40													

#	QC Failed Criteria	QC Failed Elements
33	Main Error1 Criteria1	#2:Fe,Al,Ti
34	Main Error1 Criteria1	#2:Fe,Al,Ti
35		
36	Main Error1 Criteria1	#2:Fe,Al,Ti
37		
38	Main Error1 Criteria1	#2:Fe,Al
39	Main Error1 Criteria1	#2:Fe,Al
40	Main Error1 Criteria1	#2:Fe,Mg,Zn,Al,Ti

Batch Log

#	Acq. Date-Time	Sample Type	Sample Name	Vial#	File Name	Acquisition Result	Error Message	Dilution Result	Comment	Operator	Replicates	Level
41	8/4/2023 13:33:26	<Pause>				Pass				ICPMS		
42	8/4/2023 13:33:50	Sample	2308053-003A	312	036SMPL.d	Fail	QC check failed.	1		ICPMS		
43	8/4/2023 13:36:20	CCV	CCV	5	037_CCV.d	Fail	QC check failed.	1		ICPMS		
44	8/4/2023 13:38:44	CCB	CCB	1	038_CCB.d	Pass		1		ICPMS		
45	8/4/2023 13:41:20	Sample	2308053-004A	313	039SMPL.d	Fail	QC check failed.	1		ICPMS		
46	8/4/2023 13:43:49	Sample	2308051-001A	314	040SMPL.d	Pass		1		ICPMS		
47	8/4/2023 13:46:21	Sample	2308051-002A	315	041SMPL.d	Pass		1		ICPMS		
48	8/4/2023 13:48:52	Sample	2308052-001A	316	042SMPL.d	Pass		1		ICPMS		

#	ISTD Conc	Auto Dilution (ISIS 2)	Total Dil.	Final Weight or Volume	Sample Weight or Volume	prepFAST Dilution	Sublist	Total Acq Time	Max. Daily Dose	%J	User Def. 1	User Def. 2	User Def. 3
41													
42													
43													
44													
45													
46													
47													
48													

#	QC Failed Criteria	QC Failed Elements
41		
42	Main Error1 Criteria1	#2:Fe
43	Main Error1 Criteria1	#2:Na,Co,Ti
44		
45	Main Error1 Criteria1	#2:Fe,Al
46		
47		
48		

Batch Log

#	Acq. Date-Time	Sample Type	Sample Name	Vial#	File Name	Acquisition Result	Error Message	Dilution Result	Comment	Operator	Replicates	Level
49	8/4/2023 13:51:26	Sample	2308052-002A	317	043SMPL.d	Pass		1		ICPMS		
50	8/4/2023 13:53:56	Sample	2307370-001A	318	044SMPL.d	Fail	QC check failed.	1		ICPMS		
51	8/4/2023 13:56:14	Sample	2307370-002A	319	045SMPL.d	Fail	QC check failed.	1		ICPMS		
52	8/4/2023 13:58:38	Sample	2307370-003A	320	046SMPL.d	Fail	QC check failed.	1		ICPMS		
53	8/4/2023 14:00:57	CCV		5	047_CC.V.d	Fail	QC check failed.	1		ICPMS		
54	8/4/2023 14:03:05	<Pause>				Pass				ICPMS		
55	8/4/2023 14:03:23	CCB		1	048_CCB.d	Pass		1		ICPMS		
56	8/4/2023 14:05:43	<Pause>				Pass				ICPMS		

#	ISTD Conc	Auto Dilution (ISIS 2)	Total Dil.	Final Weight or Volume	Sample Weight or Volume	prepFAST Dilution	Sublist	Total Acq Time	Max. Daily Dose	%J	User Def. 1	User Def. 2	User Def. 3
49													
50													
51													
52													
53													
54													
55													
56													

#	QC Failed Criteria	QC Failed Elements
49		
50	Main Error1 Criteria1	#2:Fe,Ca,Al,Ti
51	Main Error1 Criteria1	#2:Fe,Ca,Ti
52	Main Error1 Criteria1	#2:Fe,Al,Ti
53	Main Error1 Criteria1	#2:Co,Ag
54		
55		
56		

Batch Log

#	Acq. Date-Time	Sample Type	Sample Name	Vial#	File Name	Acquisition Result	Error Message	Dilution Result	Comment	Operator	Replicates	Level
57	8/4/2023 14:06:35	Sample	2308054-001A	303	049SMPL.d	Pass		1		ICPMS		
58	8/4/2023 14:09:13	Sample	2308054-001AMS	305	050SMPL.d	Pass		1		ICPMS		
59	8/4/2023 14:11:32	<Pause>				Pass				ICPMS		
60	8/4/2023 14:13:03	Sample	2308054-001AMSD	306	051SMPL.d	Pass		1		ICPMS		
61	8/4/2023 14:15:36	Sample	2308054-001APDS	307	052SMPL.d	Pass		1		ICPMS		
62	8/4/2023 14:18:08	Sample	2308054-002A	308	053SMPL.d	Pass		1		ICPMS		
63	8/4/2023 14:20:40	Sample	2308054-003A	309	054SMPL.d	Pass		1		ICPMS		
64	8/4/2023 14:23:12	Sample	2308053-001A	310	055SMPL.d	Pass		1		ICPMS		
65	8/4/2023 14:25:46	Sample	2308053-002A	311	056SMPL.d	Pass		1		ICPMS		

#	ISTD Conc	Auto Dilution (ISIS 2)	Total Dil.	Final Weight or Volume	Sample Weight or Volume	prepFAST Dilution	Sublist	Total Acq Time	Max. Daily Dose	%J	User Def. 1	User Def. 2	User Def. 3
57			10	1	1	10							
58			10	1	1	10							
59													
60			5	1	1	5							
61			5	1	1	5							
62			5	1	1	5							
63			5	1	1	5							
64			5	1	1	5							
65			5	1	1	5							

#	QC Failed Criteria	QC Failed Elements
57		
58		
59		
60		
61		
62		
63		
64		
65		

Batch Log

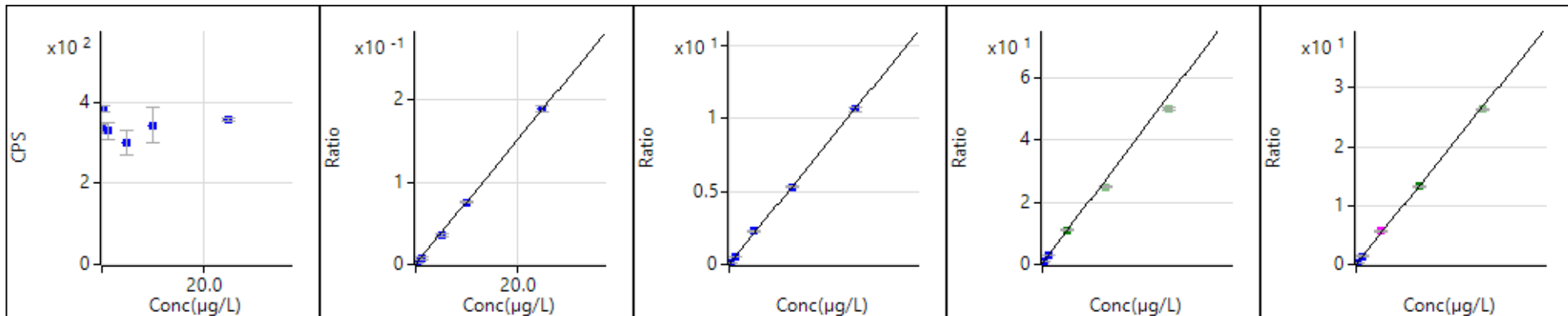
#	Acq. Date-Time	Sample Type	Sample Name	Vial#	File Name	Acquisition Result	Error Message	Dilution Result	Comment	Operator	Replicates	Level
66	8/4/2023 14:28:18	Sample	2308053-003A	312	057SMPL.d	Pass		1		ICPMS		
67	8/4/2023 14:30:51	Sample	2308053-004A	313	058SMPL.d	Pass		1		ICPMS		
68	8/4/2023 14:33:24	CCV	CCV	5	059_CCV.d	Pass		1		ICPMS		
69	8/4/2023 14:35:48	CCB	CCB	1	060_CCB.d	Pass		1		ICPMS		
70	8/4/2023 14:38:23	Sample	2307370-001A	318	061SMPL.d	Pass		1		ICPMS		
71	8/4/2023 14:40:54	Sample	2307370-002A	319	062SMPL.d	Pass		1		ICPMS		
72	8/4/2023 14:43:27	Sample	2307370-003A	320	063SMPL.d	Pass		1		ICPMS		
73	8/4/2023 14:46:00	CCV	CCV	5	064_CCV.d	Fail	QC check failed.	1		ICPMS		
74	8/4/2023 14:48:26	CCB	CCB	1	065_CCB.d	Pass		1		ICPMS		

#	ISTD Conc	Auto Dilution (ISIS 2)	Total Dil.	Final Weight or Volume	Sample Weight or Volume	prepFAST Dilution	Sublist	Total Acq Time	Max. Daily Dose	%J	User Def. 1	User Def. 2	User Def. 3
66			5	1	1	5							
67			5	1	1	5							
68													
69													
70			5	1	1	5							
71			5	1	1	5							
72			5	1	1	5							
73													
74													

#	QC Failed Criteria	QC Failed Elements
66		
67		
68		
69		
70		
71		
72		
73	Main Error1 Criteria1	#2:Mg
74		



Calibration



7 Li [No Gas]

ISTD: ---

Excluded

R

9 Be [No Gas]

ISTD: 6 Li

$y = 7.484E-3 x + 5.544E-4$

R 0.9999

DL 0.2221

BEC 0.07408

11 B [No Gas]

ISTD: 6 Li

$y = 4.262E-3 x + 2.961E-3$

R 0.9999

DL 0.9856

BEC 0.6947

23 Na [He]

ISTD: 45 Sc

$y = 1.076E-2 x + 2.735E-1$

R 1.0000

DL 0.2897

BEC 25.41

24 Mg [He]

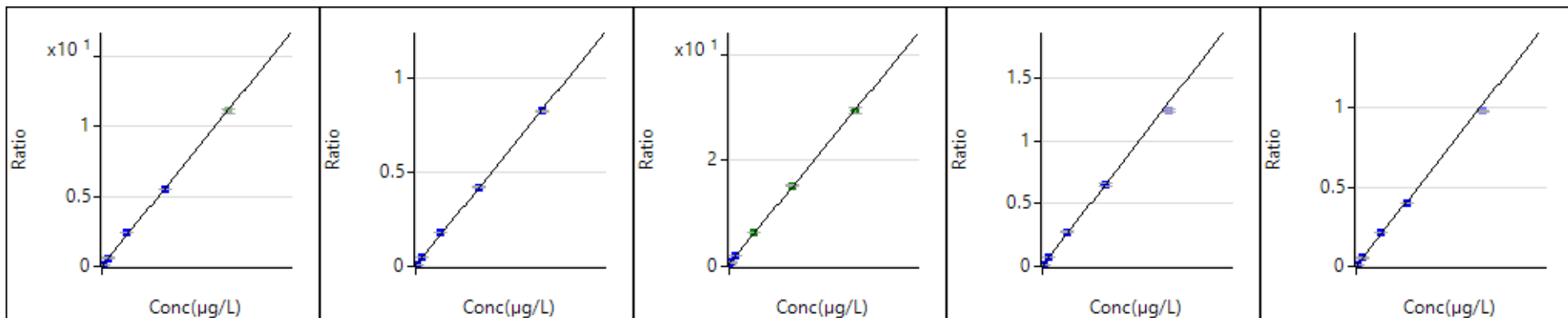
ISTD: 45 Sc

$y = 5.348E-3 x + 3.855E-3$

R 0.9997

DL 0.03503

BEC 0.7208



27 Al [He]

ISTD: 45 Sc

$y = 2.231E-3 x + 9.962E-3$

R 0.9995

DL 4.777

BEC 4.466

31 P [He]

ISTD: 45 Sc

$y = 1.655E-4 x + 2.616E-3$

R 0.9998

DL 2.449

BEC 15.81

39 K [He]

ISTD: 45 Sc

$y = 5.823E-3 x + 4.153E-1$

R 0.9999

DL 2.372

BEC 71.31

44 Ca [He]

ISTD: 45 Sc

$y = 2.612E-4 x + 1.974E-3$

R 0.9998

DL 1.727

BEC 7.557

47 Ti [He]

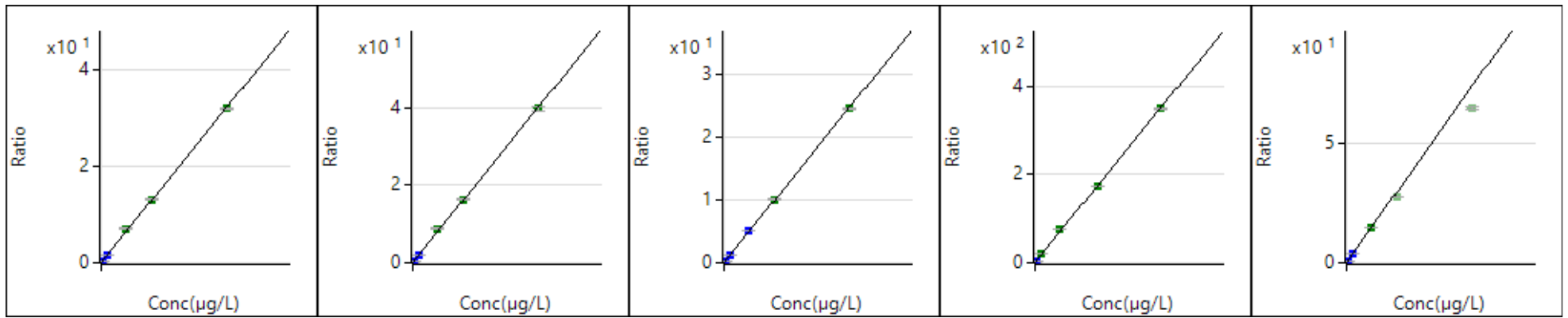
ISTD: 45 Sc

$y = 2.042E-3 x + 7.913E-5$

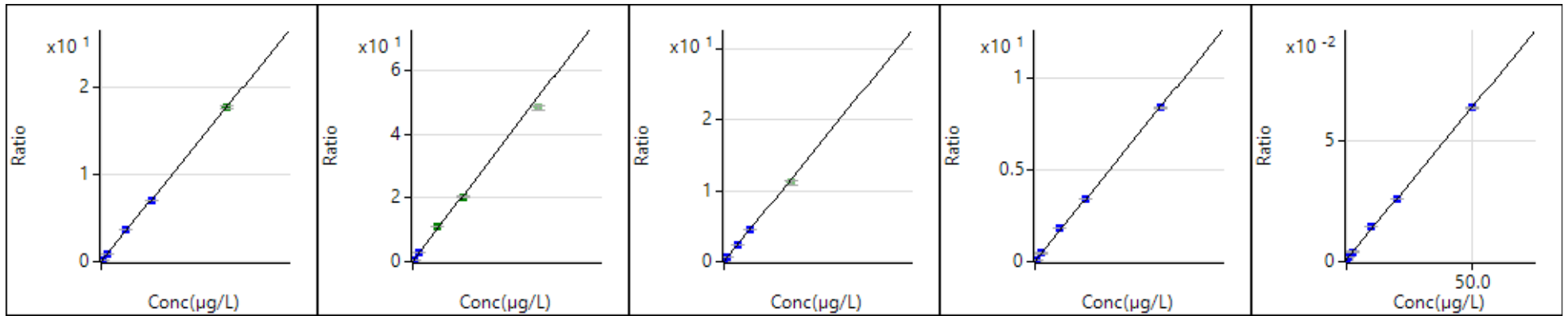
R 0.9995

DL 0.07673

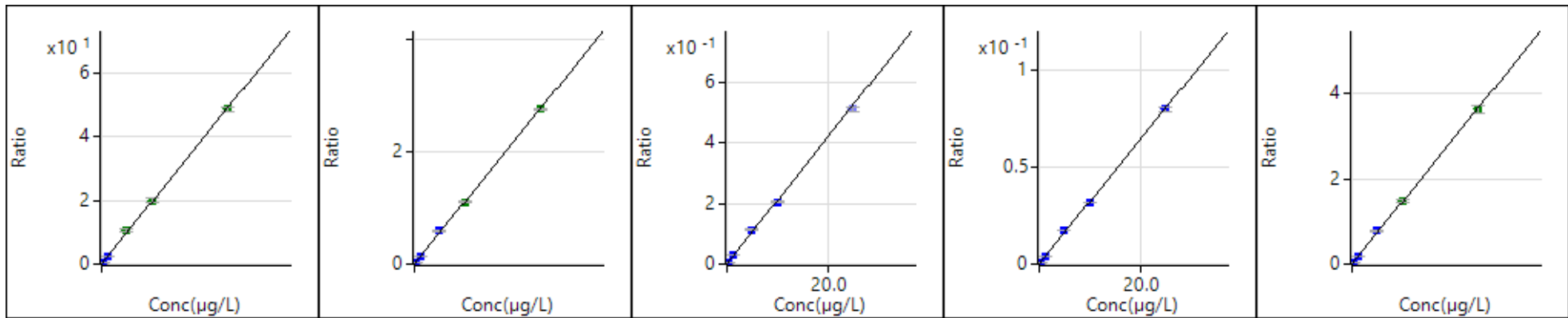
BEC 0.03874



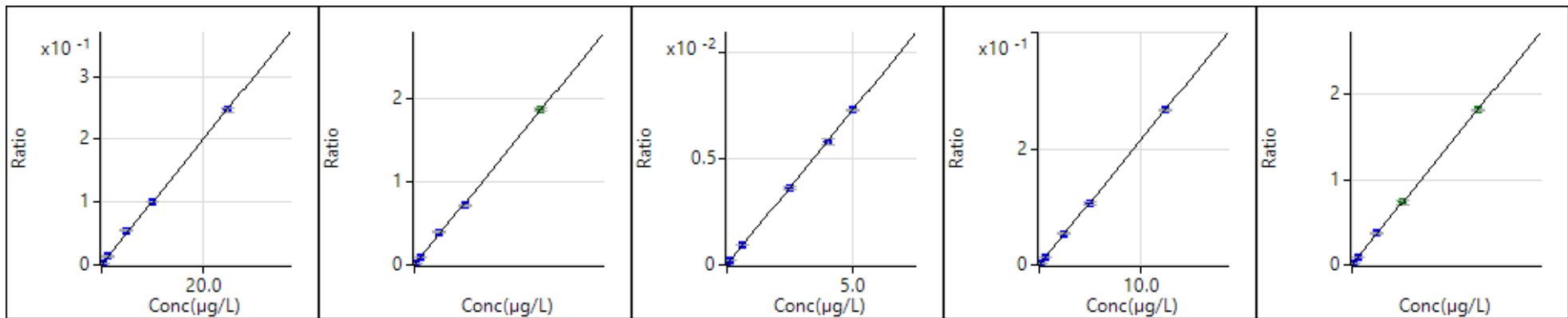
51 V [He] ISTD: 45 Sc $y = 6.421E-2 x + 1.802E-2$ R 0.9997 DL 0.01738 BEC 0.2807	52 Cr [He] ISTD: 45 Sc $y = 8.030E-2 x + 3.777E-3$ R 0.9997 DL 0.006949 BEC 0.04704	55 Mn [He] ISTD: 45 Sc $y = 4.927E-2 x + 2.589E-3$ R 0.9999 DL 0.01302 BEC 0.05255	56 Fe [He] ISTD: 45 Sc $y = 6.985E-2 x + 4.365E-1$ R 0.9998 DL 0.2271 BEC 6.248	59 Co [He] ISTD: 45 Sc $y = 1.466E-1 x + 9.087E-4$ R 1.0000 DL 0.004368 BEC 0.006198
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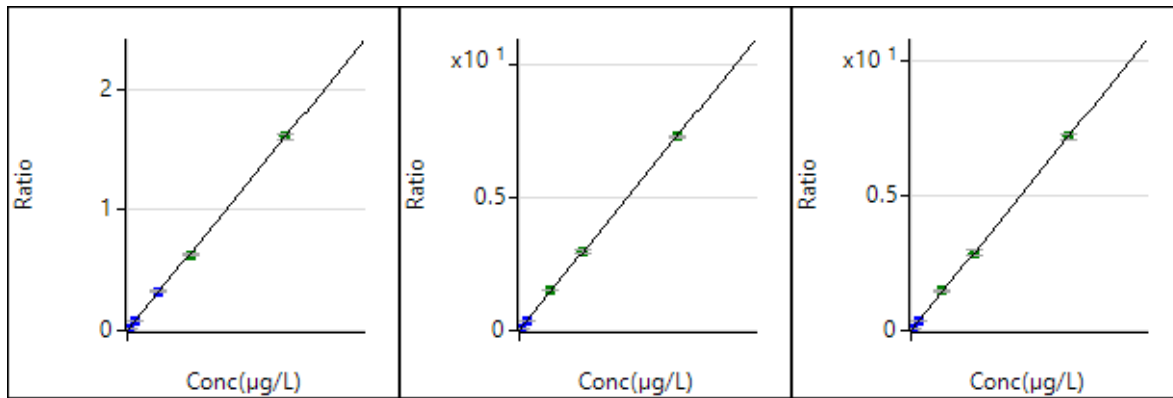
60 Ni [He] ISTD: 45 Sc $y = 3.553E-2 x + 2.180E-3$ R 0.9999 DL 0.008073 BEC 0.06134	63 Cu [He] ISTD: 45 Sc $y = 1.035E-1 x + 1.958E-2$ R 0.9995 DL 0.003371 BEC 0.1892	66 Zn [He] ISTD: 72 Ge $y = 2.308E-2 x + 1.085E-2$ R 0.9997 DL 0.03381 BEC 0.47	75 As [He] ISTD: 72 Ge $y = 1.690E-2 x + 8.365E-4$ R 0.9999 DL 0.003959 BEC 0.04949	78 Se [He] ISTD: 72 Ge $y = 1.255E-3 x + 8.521E-4$ R 0.9999 DL 0.3172 BEC 0.6789
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88 Sr [He]	95 Mo [He]	107 Ag [He]	111 Cd [He]	118 Sn [He]
ISTD: 72 Ge	ISTD: 115 In	ISTD: 115 In	ISTD: 115 In	ISTD: 115 In
$y = 9.810E-2 x + 2.068E-3$	$y = 5.544E-3 x + 5.376E-5$	$y = 2.090E-2 x + 1.152E-4$	$y = 3.204E-3 x + 4.668E-6$	$y = 7.322E-3 x + 4.095E-4$
R 0.9998	R 0.9999	R 0.9989	R 0.9998	R 0.9999
DL 0.01161	DL 0.00521	DL 0.001361	DL 0.00344	DL 0.007474
BEC 0.02108	BEC 0.009697	BEC 0.005512	BEC 0.001457	BEC 0.05592



121 Sb [He]	137 Ba [He]	201 Hg [He]	205 Tl [He]	206 [Pb] [He]
ISTD: 115 In	ISTD: 115 In	ISTD: 209 Bi	ISTD: 209 Bi	ISTD: 209 Bi
$y = 9.917E-3 x + 1.220E-4$	$y = 3.711E-3 x + 3.710E-4$	$y = 1.457E-3 x + 8.677E-6$	$y = 2.138E-2 x + 7.652E-6$	$y = 7.274E-3 x + 1.572E-4$
R 0.9998	R 0.9998	R 1.0000	R 1.0000	R 1.0000
DL 0.002635	DL 0.01928	DL 0.001996	DL 0.0003165	DL 0.005736
BEC 0.0123	BEC 0.09997	BEC 0.005954	BEC 0.0003579	BEC 0.02161



207 [Pb] [He]

ISTD: 209 Bi

$$y = 6.421E-3 x + 1.357E-4$$

R 0.9999

DL 0.002759

BEC 0.02113

208 Pb [He]

ISTD: 209 Bi

$$y = 2.931E-2 x + 6.128E-4$$

R 1.0000

DL 0.0003109

BEC 0.02091

238 U [He]

ISTD: 209 Bi

$$y = 1.442E-2 x + 5.535E-6$$

R 1.0000

DL 0.0003205

BEC 0.0003838

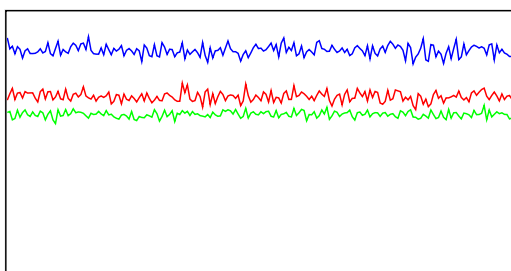


Tunes

Performance Report

Operator Name ICPMS
Acq. Date-Time 8/4/2023 09:09:07
Instrument Name G8422A SG22151236
Sample Introduction PeriPump
Nebulizer Type MicroMist
Ion Lens Model x-Lens
Tune Parameters Standard Tune

Sensitivity



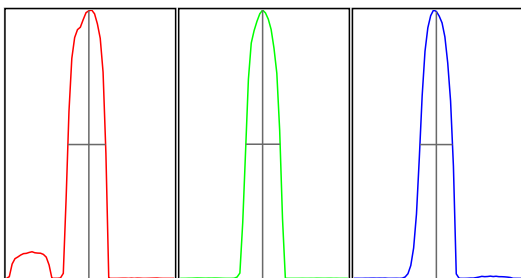
Mass	Range	Count	RSD%	Background
7	5000	3390	2.631	1.050
89	20000	12195	1.967	0.350
205	10000	8541	2.354	3.800

Sampling Period [sec] 0.311
 Integration Time [sec] 0.1

Oxide/Doubly Charged Ratio

Oxide 156 / 140 1.176 %
 Doubly Charged 70 / 140 0.845 %

Resolution/Axis



Mass	Peak Height	Axis	W-50%	W-10%
7	3381.35	7.00	0.66	0.77
89	12246.80	89.00	0.60	0.76
205	8514.85	205.00	0.57	0.75

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.74

Tune Parameters

Plasma Parameters

RF Power	1550 W	Option Gas	---	Makeup Gas	0.00 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Auxiliary Gas	0.90 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C	Plasma Gas	15.0 L/min
Nebulizer Gas	1.07 L/min				

Lens Parameters

Extract 1	0.0 V	Omega Lens	7.0 V	Deflect	12.6 V
Extract 2	-145.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-70 V	Cell Exit	-50 V		

Performance Report

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	0.0 mL/min	OctP RF	200 V		

QP Parameters

QP Bias	-3.0 V
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Hardware Settings

Torch

Torch H	0.0 mm	Torch H (Hot)	---	Torch H (Cool)	---
Torch V	0.6 mm	Torch V (Hot)	---	Torch V (Cool)	---

Plasma Correction

Nebulizer Gas Offset	0.02 L/min	Makeup Gas (Hot)	---	Makeup Gas (Cool)	---
		Sample Depth (Hot)	---		

Resolution/Axis

Mass Gain	123	Axis Gain	0.9992
Mass Offset	124	Axis Offset	0.02

EM

Discriminator	3.1 mV	Analog HV	2150 V	Pulse HV	1235 V
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Performance Report

Meter

Name	Value	Unit
Nebulizer Gas	1.07	L/min
MU./Dil. Gas	0.00	L/min
Plasma Gas	15.00	L/min
Aux Gas	0.90	L/min
Ar Gas Tank Press	5.74E+2	kPa
+5V (Press Gage)	5.0	V
Ar AMFC Temp	33.6	°C
Nebulizer Gas(DP)	6.31E+0	kPa
MU./Dil. Gas(DP)	-2.16E-1	kPa
Aux Gas(DP)	1.07E+1	kPa
Plasma Gas(DP)	1.17E+1	kPa
Nebulizer Gas(BP)	2.51E+2	kPa
MU./Dil. Gas(BP)	-6.17E-1	kPa
Aux Gas(BP)	6.05E+1	kPa
Plasma Gas(BP)	4.32E+1	kPa
S/C Temp (H)	21.3	°C
S/C Temp (L)	2.0	°C
Peltier Voltage	3.8	V
IF/BK Press	2.39E+2	Pa
Analyzer Press	5.02E-5	Pa
IG HV	178	V
IG Emission	4.97	µA
TMP Revolution	100.0	%
TMP Rev (Raw)	100.8	%
TMP Current	2.92	A
PWR AMP Drain I	0.3	A
PWR AMP Bias	4.06	V
OctP RF (Avg)	203.0	V
OctP RF Set	3.9	V
OctP FET Bias Set	3.94	V
OctP RF(+)	178.1	V
OctP RF(-)	226.4	V
OctP Bias	-7.9	V
Cell Temp.	65.0	°C
Cell Heater Volt.	3.8	V
+U Voltage	176.0	V

Name	Value	Unit
-U Voltage	-182.6	V
V Voltage	783.9	V
QPRF Fader	0.5	V
Pickup Temp	55.0	°C
PWR Amp Temp	0.1	V
+600V	621.5	V
-120V	-133.7	V
-720V	-741.7	V
Prefilter Bias	-5.04	V
Pickup Heater I	0.07	A
QP PS +48V	47.6	V
QP PS +48V I	0.00	A
Analog HV	-2167	V
Pulse HV	1245	V
EM Gate	-39.6	V
Pulse Gate	260.5	V
EM Entrance	0.0	V
EM HV Gain	-776.1	V
Inner Pole	-300.1	V
Outer Pole	19.9	V
Analog -5V	-5.1	V
Analog +15V	14.5	V
Analog -15V	-14.4	V
Analog +5V	5.2	V
Shunt C Pos	1.5	V
Drain Volt.(max)	61.2	V
RF PS +48V	47.3	V
Forward Power	1550	W
Reflected Power	2	W
Plasma Freq.	27.10	MHz
Drain I 1	11.78	A
Drain I 2	10.67	A
Drain I 3	10.94	A
Drain I 4	11.59	A
Temp Sensor	2.7	V
Driver I	6.03	A

Name	Value	Unit
Igniter	0.0	V
Driver Voltage Set	6.9	V
Unbalance Current	0.34	A
PWM Threshold Set	0.2	V
Driver Voltage	5.5	V
PWM Threshold	0.2	V
Phase Detector	-7.8	mV
H2 Gas	0.00	mL/min
He Gas	0.11	mL/min
H2 Gas Press	1.69E+2	kPa
He Gas Press	0.00E+0	kPa
ORS AMFC Temp	34.2	°C
Atmospheric Press	1.02E+2	kPa
Extract 1	0.0	V
Extract 2	-145.0	V
Omega Bias	-70.1	V
Omega Lens	7.1	V
Cell Entrance	-30.0	V
Cell Exit	-50.0	V
Deflect	12.6	V
Plate Bias	-35.1	V
HV+530V	531	V
HV+240V	239	V
HV-360V	-360	V
Inlet Temp	29.2	°C
Internal Temp	37.6	°C
+24V	23.7	V
Water Temp	23.5	°C
Water RF/WC/IF	1.43	L/min
ISIS 3 Pump Speed	0.0	%
Valve Position		
Tune/ISTD Valve		

Performance Report History

Sensitivity

Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
8/4/2023 09:09:07	3390	12195	8541
8/4/2023 08:31:24	3746	12441	9586
8/3/2023 09:42:16	2946	10912	9810
8/2/2023 11:05:14	2364	8830	8876
8/2/2023 10:28:09	1722	4847	4950
8/2/2023 10:20:44	1323	3986	4235
8/2/2023 10:16:57	1468	4492	4538
8/2/2023 10:12:26	795	2492	2354
8/1/2023 09:44:17	2203	9736	8354
7/31/2023 09:31:10	2725	10837	8929
7/28/2023 09:28:15	2574	11992	10910
7/27/2023 09:17:24	2638	11942	10885
7/26/2023 10:24:37	2628	12086	10721
7/25/2023 09:08:43	2645	13109	12010
7/24/2023 09:25:55	2866	13213	12584
7/21/2023 09:38:18	3045	12777	11213
7/20/2023 09:50:16	3015	13608	11979
7/19/2023 09:51:11	2972	13534	11794
7/18/2023 10:02:58	2480	9926	8625
7/17/2023 11:07:27	3529	15060	11733
7/17/2023 09:51:07	3312	15288	13391
7/14/2023 13:20:39	2401	9970	8567
7/14/2023 13:13:20	858	3455	3011
7/14/2023 13:04:01	35	15	30
7/14/2023 12:49:03	1150	4213	3169
7/14/2023 09:43:22	3304	13648	12348
7/13/2023 17:06:49	3012	11414	10194
7/13/2023 16:18:09	2955	11378	10283
7/13/2023 13:12:33	2347	9669	10238
7/12/2023 10:11:37	3266	14662	11672
7/11/2023 10:12:22	3435	14541	11159
7/11/2023 10:02:13	1682	4632	2699
7/10/2023 10:27:11	3998	13300	6429
7/7/2023 10:03:10	3562	15900	10842
7/7/2023 09:53:18	3887	15915	9865
7/6/2023 09:39:20	3915	15094	8706
7/5/2023 09:21:22	3530	13882	7836
7/3/2023 09:52:13	3101	14414	11001
7/3/2023 09:30:59	2325	8553	5822
6/30/2023 09:54:22	3674	15262	10933
6/29/2023 09:42:14	3257	14111	11174

Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
6/28/2023 09:24:23	3603	14430	11195
6/27/2023 09:21:37	3474	14301	11162
6/26/2023 13:04:07	2984	13198	10818
6/23/2023 09:35:05	4548	13496	8799
6/22/2023 09:46:11	3987	12820	9360
6/21/2023 09:51:51	4030	13146	9814
6/20/2023 09:45:37	4312	13311	10018
6/19/2023 09:55:02	4181	12573	9901
6/16/2023 09:23:49	4267	13074	9801
6/15/2023 09:47:30	4629	12970	9475
6/14/2023 09:16:14	3934	12479	10197
6/13/2023 09:49:15	4567	13183	10070
6/12/2023 11:34:15	4144	12001	9698
6/12/2023 09:54:55	3392	10831	10127
6/9/2023 12:39:33	3926	15367	11134
6/9/2023 09:23:31	3672	15849	11841
6/8/2023 10:16:31	4083	16245	11759
6/7/2023 09:48:23	3788	15983	11493
6/6/2023 09:46:41	4195	16624	10957
6/5/2023 09:22:56	3853	16849	11906
6/2/2023 09:34:45	3243	12651	7710
6/1/2023 09:48:17	4008	16726	11170
5/31/2023 09:40:40	3604	17615	11865
5/30/2023 09:32:39	4046	17790	11322
5/26/2023 12:43:13	3927	16239	12218
5/26/2023 12:35:21	761	3406	2008
5/26/2023 12:24:37	184	549	395
5/26/2023 12:20:08	554	1783	1426
5/26/2023 12:15:41	745	2452	1922
5/26/2023 09:21:24	4039	16585	12317
5/25/2023 09:20:09	4040	16615	11868
5/24/2023 12:08:16	4075	16656	11488
5/24/2023 09:30:58	4357	17430	11641
5/23/2023 10:10:03	4128	14901	12444
5/22/2023 10:18:03	3703	16482	11595
5/19/2023 09:10:18	3614	16447	11473
5/18/2023 10:26:22	3977	16258	11430
5/17/2023 09:16:47	3878	16266	12092
5/16/2023 09:59:27	4248	16604	11458
5/15/2023 10:01:28	3608	15995	12083
5/12/2023 09:47:09	3710	14725	12670

Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
5/11/2023 09:16:07	3615	16694	11489
5/10/2023 09:42:50	3643	16651	11072
5/9/2023 09:27:44	3049	13792	9652
5/8/2023 09:26:50	4462	18082	11483
5/5/2023 09:05:22	4399	16357	12967
5/4/2023 10:18:52	5492	15573	10604
5/4/2023 09:42:19	3329	10245	9107
5/3/2023 09:25:16	3021	11228	9134
5/2/2023 14:32:57	3253	10925	8420
5/2/2023 11:11:55	3007	10527	8496
5/2/2023 10:06:56	2763	10198	8556
5/2/2023 09:20:27	1757	4748	3682
5/1/2023 08:58:25	3835	14776	11277
4/28/2023 15:08:06	3400	12379	10252
4/28/2023 11:06:46	3035	12513	11008
4/28/2023 09:28:29	2667	9198	8023
4/27/2023 09:00:22	4967	15984	10961
4/26/2023 08:49:33	3812	15401	12317
4/25/2023 10:22:10	3613	13723	11649
4/24/2023 08:55:03	3223	11437	9245
4/21/2023 12:21:05	2309	8904	8075
4/21/2023 11:08:42	3585	13031	10380
4/21/2023 08:53:22	3675	12662	9407
4/20/2023 09:37:29	3414	12407	9925
4/19/2023 17:09:43	3618	12571	9512
4/19/2023 15:46:38	3448	13274	10340
4/19/2023 14:35:32	3462	12482	9880
4/19/2023 13:54:58	3220	11909	9076
4/19/2023 09:45:34	3711	13588	10208
4/18/2023 09:17:03	4001	15807	11823
4/17/2023 10:23:48	2878	11093	9732
4/17/2023 10:00:25	2905	10987	9354
4/14/2023 08:59:17	3797	14951	12432
4/13/2023 09:01:53	4318	14773	11319
4/12/2023 08:48:04	4928	16846	11839
4/11/2023 14:04:25	4530	15489	11208
4/11/2023 11:58:48	5326	16891	11025
4/11/2023 09:06:40	3954	15395	11003
4/10/2023 10:37:44	2194	8633	7826
4/10/2023 10:22:12	1899	8212	8001
4/10/2023 09:55:11	1701	5404	5012

Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
4/10/2023 09:40:08	1137	2728	2210
4/7/2023 09:12:03	2772	10636	8482
4/6/2023 09:29:25	3180	12523	9525
4/5/2023 12:01:25	3397	12261	8977
4/4/2023 09:25:41	3746	15001	10717
4/4/2023 09:16:16	3774	15323	10930
4/3/2023 10:44:46	3816	16733	12434
3/31/2023 13:01:29	3689	14276	11079
3/31/2023 09:26:11	4028	14610	11523
3/30/2023 09:11:37	5025	18708	14607
3/30/2023 09:01:02	5089	19072	14859
3/29/2023 09:27:41	5221	18650	13966
3/28/2023 09:13:20	4760	16933	13578
3/27/2023 09:16:40	5767	20845	15106
3/24/2023 09:19:12	5395	19720	14041
3/23/2023 10:30:11	6291	21448	13416
3/22/2023 09:09:24	2696	9011	6944
3/21/2023 11:29:57	5734	16669	12164
3/20/2023 15:01:09	6363	19486	13888
3/20/2023 14:56:00	5009	16683	9718
3/20/2023 14:34:11	2834	10712	5829
3/20/2023 11:10:11	7530	22977	15012
3/17/2023 09:15:52	5750	18440	11963
3/16/2023 10:04:21	4980	19675	11461
3/15/2023 08:50:05	4999	21116	13825
3/14/2023 09:23:23	4061	12104	9854
3/13/2023 09:02:28	3215	10694	7776
3/10/2023 09:50:25	5164	18928	14123
3/9/2023 10:05:54	4252	14786	10051
3/8/2023 13:14:50	3752	11270	7378
3/7/2023 10:34:30	4374	16704	11777
3/6/2023 10:45:07	3273	13385	9184
3/3/2023 08:01:46	4929	20899	12798
3/2/2023 09:47:36	5032	21800	13030
3/1/2023 08:51:22	5345	21950	12808
2/28/2023 09:34:23	6338	22463	12670
2/27/2023 14:30:30	4812	15793	10582
2/27/2023 11:22:50	2660	6341	5374
2/27/2023 10:51:56	2687	6395	5542
2/27/2023 10:44:59	2767	6642	5568
2/24/2023 16:23:45	4656	17757	14021

Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
2/24/2023 16:07:57	259	10	1
2/23/2023 08:54:28	5450	21137	15863
2/22/2023 08:37:14	6587	23092	14287
2/21/2023 10:21:12	5717	19848	15529
2/20/2023 08:52:02	5102	19535	16027
2/17/2023 08:36:41	5650	19696	13966
2/16/2023 08:44:34	5427	18692	15094
2/15/2023 12:26:22	5476	16249	14697
2/14/2023 13:04:03	5114	18973	14711
2/13/2023 11:40:00	5622	21074	13839
2/10/2023 10:01:05	5342	19862	13915
2/9/2023 11:28:46	5286	16698	13470
2/8/2023 08:23:24	2500	8272	6431
2/7/2023 11:36:23	5011	17251	13767
2/6/2023 12:36:01	4650	16849	13463
2/3/2023 08:20:53	4694	16500	12971
2/2/2023 07:55:34	4126	16618	13815
2/1/2023 07:42:39	4262	15843	13824
1/31/2023 09:19:32	3770	13798	12047
1/30/2023 10:17:02	4337	16436	13025
1/27/2023 08:15:42	4501	16617	13319
1/26/2023 08:18:20	4191	17132	13749
1/25/2023 09:02:42	4450	15538	12000
1/24/2023 08:45:18	4336	16580	13340
1/23/2023 07:54:12	2590	9369	7241
1/20/2023 07:43:21	4826	18818	14697
1/19/2023 08:47:40	5243	18006	12448
1/18/2023 08:40:18	4557	17530	14362
1/17/2023 09:51:42	4181	15622	13807
1/13/2023 08:18:49	4548	18577	14569
1/12/2023 08:58:54	4387	18033	14854
1/11/2023 08:26:54	4545	18169	14422
1/10/2023 09:03:33	4726	18711	15508
1/9/2023 08:33:43	5629	19269	14475
1/6/2023 09:09:20	5213	18911	14085
1/5/2023 08:59:03	5159	19900	15721
1/4/2023 09:22:57	5368	19455	14720
1/3/2023 07:54:14	4612	19533	15792
12/30/2022 12:03:44	61	23	2
12/30/2022 11:44:52	74	26	2
12/30/2022 08:53:04	103	30	8

Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
12/30/2022 08:43:33	4844	19749	15375
12/29/2022 09:51:14	5727	20311	14775
12/28/2022 10:56:59	5379	19562	14038
12/27/2022 11:51:09	2917	13215	10039
12/22/2022 13:03:41	5910	20405	14964
12/20/2022 10:03:57	6068	20428	15363
12/15/2022 08:54:42	5797	20392	15125
12/14/2022 07:30:17	4875	19420	15909
12/13/2022 08:19:58	6040	20311	15825
12/12/2022 09:25:41	5282	17431	13118
12/9/2022 07:32:14	5734	18212	14695
12/7/2022 09:04:52	5322	21110	16195
12/6/2022 09:40:47	5815	21208	16339
12/5/2022 09:33:56	6313	20948	15766
12/2/2022 08:43:06	5550	21444	17003
12/1/2022 08:14:13	6173	21650	16355
11/30/2022 09:05:47	5892	20987	16063
11/29/2022 09:56:17	4094	14596	10603
11/22/2022 08:57:48	4099	12381	7804
11/21/2022 09:24:58	4059	13597	9996
11/18/2022 08:02:10	5896	21100	16764
11/17/2022 14:32:03	5110	18966	16326
11/14/2022 13:14:56	5191	16854	13936
11/11/2022 08:35:49	5504	20364	14691
11/10/2022 10:24:53	4996	20056	14474
11/9/2022 12:14:57	4371	19332	15801
11/7/2022 10:37:58	5685	18033	11927
11/7/2022 08:51:17	146	29	32
11/4/2022 09:20:34	7168	18645	12118
11/3/2022 10:28:57	3530	13884	7706
11/2/2022 08:32:00	4974	16880	8970
11/1/2022 11:19:50	3994	15305	8677
11/1/2022 11:02:36	4266	16862	10879
10/31/2022 09:19:47	5485	18924	11532
10/28/2022 09:14:48	6686	19237	10543
10/27/2022 10:50:18	6536	19264	10753
10/26/2022 11:02:54	7130	20921	11654
10/19/2022 12:45:34	6920	20484	11015
10/18/2022 09:12:59	7274	20876	11667
10/13/2022 11:08:12	6974	19838	11390
10/12/2022 09:54:30	5786	18972	9741

Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
10/11/2022 09:12:35	5552	19520	11580
10/6/2022 10:34:09	5625	19891	13032
9/30/2022 08:08:09	5495	19202	12599
9/29/2022 08:44:14	5232	19124	12103
9/28/2022 09:42:45	4963	19363	12220
9/27/2022 08:29:24	5178	18784	11329
9/26/2022 10:25:12	5330	19090	12061
9/23/2022 07:41:43	5103	18871	12031
9/22/2022 11:03:47	4952	18979	11589
9/21/2022 10:21:37	4886	19212	13138
9/20/2022 12:23:56	5002	19051	13455
9/15/2022 11:07:18	5302	18910	11562
9/14/2022 09:29:39	5075	20632	13468
9/13/2022 14:42:43	5153	20537	14155
9/13/2022 08:12:52	5034	20027	12445
9/12/2022 08:42:30	5784	20793	13929
9/9/2022 09:45:48	6147	20766	13709
9/8/2022 12:04:46	4051	14292	8447
9/8/2022 11:48:01	41	6	2
9/8/2022 11:27:44	4889	20574	14952
9/2/2022 07:38:00	6624	23227	14887
9/1/2022 08:15:43	5991	21208	13985
8/31/2022 07:49:17	5373	21196	15352
8/30/2022 09:25:59	5235	20223	15276
8/30/2022 09:00:54	13	1	2
8/25/2022 08:44:13	5528	21089	15029
8/24/2022 08:11:08	5585	20407	15666
8/22/2022 11:28:23	5644	19080	14194
8/22/2022 08:02:13	5908	24300	19093
8/19/2022 08:45:48	5153	20283	15070
8/18/2022 08:00:38	5492	20290	13446
8/17/2022 07:50:25	6314	21249	13568
8/16/2022 08:11:19	6612	21262	13203
8/15/2022 07:58:53	5887	22676	15751
8/12/2022 07:30:34	6745	21079	11749
8/11/2022 12:53:44	6477	19179	10232
8/11/2022 08:29:41	6957	21714	11530
8/10/2022 08:08:22	6409	22095	13386
8/9/2022 08:36:25	17	5	13
8/9/2022 07:53:48	6922	23611	15152
8/1/2022 09:30:01	5884	22782	15120

Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
8/1/2022 08:12:58	6185	22941	21185
7/29/2022 07:24:42	6291	22723	20278
7/28/2022 07:59:19	6521	24058	19698
7/27/2022 08:17:37	6920	24215	18319
7/26/2022 07:53:10	6343	24801	18781
7/25/2022 09:48:29	5345	21220	12528
6/30/2022 11:28:41	5342	21861	14116
6/3/2022 08:15:26	7965	26259	18626
6/1/2022 09:09:25	7540	22818	17488
5/31/2022 12:07:21	7463	21617	16999
5/31/2022 11:56:36	6060	17631	14046
5/26/2022 09:53:19	6021	17710	14820
5/25/2022 11:34:00	6269	17834	14297
5/25/2022 10:52:32	6525	17820	14265

Background

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
8/4/2023 09:09:07	1.050	0.350	3.800
8/4/2023 08:31:24	0.850	0.400	4.150
8/3/2023 09:42:16	0.700	0.350	3.250
8/2/2023 11:05:14	0.500	0.150	2.600
8/2/2023 10:28:09	0.900	0.200	1.450
8/2/2023 10:20:44	1.100	0.050	2.000
8/2/2023 10:16:57	1.000	0.150	1.700
8/2/2023 10:12:26	0.500	0.200	1.550
8/1/2023 09:44:17	0.600	0.400	1.600
7/31/2023 09:31:10	0.650	0.250	1.850
7/28/2023 09:28:15	0.450	0.400	2.050
7/27/2023 09:17:24	0.400	0.200	1.900
7/26/2023 10:24:37	1.000	0.400	2.400
7/25/2023 09:08:43	0.250	0.500	1.350
7/24/2023 09:25:55	0.550	0.150	1.700
7/21/2023 09:38:18	0.450	0.400	1.850
7/20/2023 09:50:16	0.550	0.250	2.250
7/19/2023 09:51:11	0.700	0.300	1.350
7/18/2023 10:02:58	0.800	0.350	1.500
7/17/2023 11:07:27	0.950	0.200	1.800

Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
7/17/2023 09:51:07	0.650	0.300	2.300
7/14/2023 13:20:39	0.950	0.550	2.500
7/14/2023 13:13:20	0.950	0.200	1.900
7/14/2023 13:04:01	0.450	0.300	0.950
7/14/2023 12:49:03	1.000	0.400	2.600
7/14/2023 09:43:22	0.950	0.350	1.400
7/13/2023 17:06:49	0.900	0.450	1.350
7/13/2023 16:18:09	0.800	0.250	1.700
7/13/2023 13:12:33	0.500	0.050	1.350
7/12/2023 10:11:37	0.850	0.350	1.900
7/11/2023 10:12:22	0.900	0.350	2.450
7/11/2023 10:02:13	1.000	0.300	3.100
7/10/2023 10:27:11	0.950	0.250	2.300
7/7/2023 10:03:10	1.100	0.300	2.800
7/7/2023 09:53:18	1.200	0.550	2.750
7/6/2023 09:39:20	0.850	0.400	3.100
7/5/2023 09:21:22	1.300	0.550	2.800
7/3/2023 09:52:13	1.100	0.150	1.700
7/3/2023 09:30:59	1.100	0.300	1.900
6/30/2023 09:54:22	1.150	0.250	2.450
6/29/2023 09:42:14	0.850	0.350	1.800
6/28/2023 09:24:23	1.350	0.300	2.500
6/27/2023 09:21:37	0.750	0.350	2.100
6/26/2023 13:04:07	0.700	0.350	1.750
6/23/2023 09:35:05	2.000	0.750	4.350
6/22/2023 09:46:11	1.750	0.550	4.300
6/21/2023 09:51:51	1.550	0.550	3.450
6/20/2023 09:45:37	1.700	0.900	4.050
6/19/2023 09:55:02	1.450	0.350	3.650
6/16/2023 09:23:49	1.250	0.650	3.500
6/15/2023 09:47:30	1.300	0.500	4.100
6/14/2023 09:16:14	1.900	0.300	2.850
6/13/2023 09:49:15	1.600	0.250	3.300
6/12/2023 11:34:15	1.350	0.350	3.050
6/12/2023 09:54:55	1.300	0.300	2.050
6/9/2023 12:39:33	1.150	0.450	3.100
6/9/2023 09:23:31	1.700	0.350	2.500
6/8/2023 10:16:31	0.900	0.350	2.450
6/7/2023 09:48:23	1.250	0.300	2.350
6/6/2023 09:46:41	1.150	0.550	2.950
6/5/2023 09:22:56	1.450	0.250	2.050

Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
6/2/2023 09:34:45	1.000	0.250	2.900
6/1/2023 09:48:17	1.050	0.300	2.150
5/31/2023 09:40:40	0.900	0.150	2.800
5/30/2023 09:32:39	1.350	0.350	2.200
5/26/2023 12:43:13	1.600	0.250	1.900
5/26/2023 12:35:21	1.050	0.400	2.200
5/26/2023 12:24:37	1.300	0.150	1.850
5/26/2023 12:20:08	1.050	0.300	2.200
5/26/2023 12:15:41	0.700	0.200	1.700
5/26/2023 09:21:24	1.050	0.350	2.750
5/25/2023 09:20:09	1.450	0.500	3.000
5/24/2023 12:08:16	1.250	0.400	2.500
5/24/2023 09:30:58	1.250	0.700	2.600
5/23/2023 10:10:03	0.850	0.150	1.800
5/22/2023 10:18:03	1.300	0.100	2.500
5/19/2023 09:10:18	1.550	0.150	2.800
5/18/2023 10:26:22	1.250	0.350	3.000
5/17/2023 09:16:47	1.300	0.100	1.900
5/16/2023 09:59:27	1.800	0.050	2.900
5/15/2023 10:01:28	1.350	0.200	2.350
5/12/2023 09:47:09	0.750	0.150	1.650
5/11/2023 09:16:07	1.250	0.200	2.450
5/10/2023 09:42:50	1.050	0.300	1.850
5/9/2023 09:27:44	1.150	0.450	2.500
5/8/2023 09:26:50	2.000	0.250	2.900
5/5/2023 09:05:22	0.900	0.450	1.850
5/4/2023 10:18:52	1.550	0.600	2.450
5/4/2023 09:42:19	0.800	0.350	1.550
5/3/2023 09:25:16	1.400	0.250	2.800
5/2/2023 14:32:57	1.850	0.350	3.750
5/2/2023 11:11:55	1.400	0.350	3.300
5/2/2023 10:06:56	1.200	0.550	2.950
5/2/2023 09:20:27	1.800	0.600	3.600
5/1/2023 08:58:25	1.350	0.350	3.650
4/28/2023 15:08:06	1.050	0.550	3.650
4/28/2023 11:06:46	1.650	0.150	2.350
4/28/2023 09:28:29	1.000	0.300	2.600
4/27/2023 09:00:22	1.450	0.600	4.200
4/26/2023 08:49:33	1.500	0.400	3.850
4/25/2023 10:22:10	1.400	0.300	2.800
4/24/2023 08:55:03	1.500	0.100	2.750

Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
4/21/2023 12:21:05	1.100	0.400	2.250
4/21/2023 11:08:42	2.000	0.450	2.300
4/21/2023 08:53:22	1.200	0.250	3.600
4/20/2023 09:37:29	1.500	0.500	2.950
4/19/2023 17:09:43	1.750	0.700	3.450
4/19/2023 15:46:38	1.600	0.600	3.600
4/19/2023 14:35:32	1.350	0.600	3.100
4/19/2023 13:54:58	1.450	0.500	2.850
4/19/2023 09:45:34	1.250	0.350	4.350
4/18/2023 09:17:03	1.750	0.400	3.900
4/17/2023 10:23:48	0.800	0.300	2.450
4/17/2023 10:00:25	1.500	0.250	2.650
4/14/2023 08:59:17	0.950	0.450	3.250
4/13/2023 09:01:53	1.400	0.500	2.850
4/12/2023 08:48:04	1.350	0.450	4.300
4/11/2023 14:04:25	1.750	0.700	3.800
4/11/2023 11:58:48	1.350	0.550	4.900
4/11/2023 09:06:40	1.500	0.500	3.750
4/10/2023 10:37:44	0.550	0.350	1.300
4/10/2023 10:22:12	1.050	0.200	1.950
4/10/2023 09:55:11	1.100	0.350	2.700
4/10/2023 09:40:08	1.350	0.250	3.000
4/7/2023 09:12:03	1.350	0.300	2.850
4/6/2023 09:29:25	1.600	0.350	3.450
4/5/2023 12:01:25	1.650	0.450	3.900
4/4/2023 09:25:41	1.050	0.500	3.300
4/4/2023 09:16:16	2.000	0.500	3.850
4/3/2023 10:44:46	0.950	0.700	4.000
3/31/2023 13:01:29	1.600	0.150	2.600
3/31/2023 09:26:11	1.150	0.450	2.800
3/30/2023 09:11:37	1.450	0.550	2.750
3/30/2023 09:01:02	1.500	0.250	3.350
3/29/2023 09:27:41	1.600	0.350	3.600
3/28/2023 09:13:20	1.150	0.250	2.650
3/27/2023 09:16:40	1.250	0.600	3.200
3/24/2023 09:19:12	1.550	0.700	3.750
3/23/2023 10:30:11	2.050	0.250	3.650
3/22/2023 09:09:24	2.200	0.300	1.850
3/21/2023 11:29:57	1.700	0.450	2.750
3/20/2023 15:01:09	2.350	0.600	4.250
3/20/2023 14:56:00	2.950	0.600	4.950

Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
3/20/2023 14:34:11	3.650	1.050	6.050
3/20/2023 11:10:11	2.050	0.700	5.350
3/17/2023 09:15:52	2.250	0.650	3.950
3/16/2023 10:04:21	2.250	0.750	4.300
3/15/2023 08:50:05	1.550	0.500	3.400
3/14/2023 09:23:23	1.000	0.300	2.750
3/13/2023 09:02:28	1.800	0.700	3.500
3/10/2023 09:50:25	1.450	0.450	4.250
3/9/2023 10:05:54	2.200	0.350	4.150
3/8/2023 13:14:50	2.350	0.450	4.200
3/7/2023 10:34:30	2.300	0.600	2.900
3/6/2023 10:45:07	3.100	0.350	3.250
3/3/2023 08:01:46	2.200	0.650	4.350
3/2/2023 09:47:36	2.500	0.450	4.100
3/1/2023 08:51:22	1.800	0.350	3.800
2/28/2023 09:34:23	1.750	0.800	3.650
2/27/2023 14:30:30	1.550	0.600	3.100
2/27/2023 11:22:50	0.800	0.200	1.500
2/27/2023 10:51:56	0.950	0.250	2.200
2/27/2023 10:44:59	1.000	0.100	1.750
2/24/2023 16:23:45	0.600	0.650	2.400
2/24/2023 16:07:57	0.900	0.350	2.300
2/23/2023 08:54:28	0.650	0.150	2.700
2/22/2023 08:37:14	1.200	0.350	4.250
2/21/2023 10:21:12	1.050	0.100	2.800
2/20/2023 08:52:02	0.900	0.200	2.050
2/17/2023 08:36:41	0.900	0.150	2.150
2/16/2023 08:44:34	0.950	0.200	2.100
2/15/2023 12:26:22	0.550	0.200	1.150
2/14/2023 13:04:03	1.150	0.250	1.250
2/13/2023 11:40:00	1.600	0.200	2.000
2/10/2023 10:01:05	1.350	0.550	2.150
2/9/2023 11:28:46	1.150	0.200	2.100
2/8/2023 08:23:24	1.300	0.400	1.800
2/7/2023 11:36:23	1.550	0.300	2.250
2/6/2023 12:36:01	1.350	0.150	1.900
2/3/2023 08:20:53	1.050	0.300	2.050
2/2/2023 07:55:34	0.850	0.100	1.950
2/1/2023 07:42:39	0.800	0.250	1.550
1/31/2023 09:19:32	0.850	0.250	1.350
1/30/2023 10:17:02	0.800	0.150	2.050

Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
1/27/2023 08:15:42	1.300	0.250	2.400
1/26/2023 08:18:20	1.100	0.250	2.600
1/25/2023 09:02:42	0.650	0.200	2.100
1/24/2023 08:45:18	1.150	0.200	1.950
1/23/2023 07:54:12	1.000	0.000	1.650
1/20/2023 07:43:21	0.950	0.150	1.550
1/19/2023 08:47:40	1.850	0.400	2.200
1/18/2023 08:40:18	1.000	0.250	2.250
1/17/2023 09:51:42	0.550	0.150	1.550
1/13/2023 08:18:49	0.700	0.350	2.000
1/12/2023 08:58:54	0.950	0.150	1.550
1/11/2023 08:26:54	0.950	0.150	1.800
1/10/2023 09:03:33	0.600	0.250	2.050
1/9/2023 08:33:43	0.650	0.250	2.000
1/6/2023 09:09:20	1.000	0.250	2.250
1/5/2023 08:59:03	0.700	0.100	2.000
1/4/2023 09:22:57	0.850	0.200	2.250
1/3/2023 07:54:14	0.750	0.200	1.900
12/30/2022 12:03:44	0.800	0.200	1.400
12/30/2022 11:44:52	0.500	0.100	1.700
12/30/2022 08:53:04	0.600	0.100	1.850
12/30/2022 08:43:33	0.650	0.400	2.700
12/29/2022 09:51:14	1.300	0.350	2.050
12/28/2022 10:56:59	0.900	0.350	2.000
12/27/2022 11:51:09	1.350	0.150	1.800
12/22/2022 13:03:41	1.100	0.250	2.300
12/20/2022 10:03:57	1.050	0.300	2.650
12/15/2022 08:54:42	1.100	0.100	1.850
12/14/2022 07:30:17	0.650	0.150	1.900
12/13/2022 08:19:58	0.850	0.250	2.000
12/12/2022 09:25:41	1.250	0.350	2.250
12/9/2022 07:32:14	1.000	0.300	1.650
12/7/2022 09:04:52	1.000	0.150	1.900
12/6/2022 09:40:47	1.100	0.550	2.250
12/5/2022 09:33:56	1.300	0.200	1.800
12/2/2022 08:43:06	1.250	0.100	1.650
12/1/2022 08:14:13	1.000	0.050	1.400
11/30/2022 09:05:47	1.150	0.250	2.650
11/29/2022 09:56:17	0.900	0.000	1.850
11/22/2022 08:57:48	1.400	0.150	2.850
11/21/2022 09:24:58	0.900	0.150	2.200

Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
11/18/2022 08:02:10	1.350	0.100	2.300
11/17/2022 14:32:03	0.850	0.200	1.550
11/14/2022 13:14:56	1.000	0.100	1.800
11/11/2022 08:35:49	1.350	0.150	1.950
11/10/2022 10:24:53	1.000	0.150	1.950
11/9/2022 12:14:57	0.900	0.250	1.450
11/7/2022 10:37:58	1.300	0.300	2.500
11/7/2022 08:51:17	0.750	0.150	2.700
11/4/2022 09:20:34	1.150	0.250	1.950
11/3/2022 10:28:57	1.400	0.100	1.950
11/2/2022 08:32:00	0.850	0.100	2.250
11/1/2022 11:19:50	1.500	0.500	1.900
11/1/2022 11:02:36	0.850	0.450	1.850
10/31/2022 09:19:47	0.650	0.350	1.650
10/28/2022 09:14:48	0.800	0.050	2.350
10/27/2022 10:50:18	1.100	0.350	2.350
10/26/2022 11:02:54	1.000	0.100	2.600
10/19/2022 12:45:34	1.200	0.150	2.250
10/18/2022 09:12:59	0.800	0.300	2.300
10/13/2022 11:08:12	1.300	0.350	2.150
10/12/2022 09:54:30	1.200	0.300	2.000
10/11/2022 09:12:35	1.250	0.400	2.250
10/6/2022 10:34:09	1.100	0.100	1.950
9/30/2022 08:08:09	1.200	0.400	2.350
9/29/2022 08:44:14	0.800	0.000	2.200
9/28/2022 09:42:45	1.800	0.150	1.950
9/27/2022 08:29:24	1.350	0.250	1.750
9/26/2022 10:25:12	1.400	0.200	1.800
9/23/2022 07:41:43	0.750	0.350	1.900
9/22/2022 11:03:47	1.550	0.350	2.550
9/21/2022 10:21:37	0.800	0.200	1.100
9/20/2022 12:23:56	0.750	0.200	1.550
9/15/2022 11:07:18	0.800	0.400	2.600
9/14/2022 09:29:39	1.050	0.150	2.900
9/13/2022 14:42:43	1.100	0.300	1.550
9/13/2022 08:12:52	1.550	0.450	2.300
9/12/2022 08:42:30	1.500	0.200	1.950
9/9/2022 09:45:48	1.300	0.300	2.050
9/8/2022 12:04:46	2.050	0.200	2.100
9/8/2022 11:48:01	1.000	0.050	1.900
9/8/2022 11:27:44	1.500	0.150	2.100

Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
9/2/2022 07:38:00	1.350	0.050	2.250
9/1/2022 08:15:43	1.350	0.050	1.850
8/31/2022 07:49:17	0.800	0.200	1.700
8/30/2022 09:25:59	1.500	0.150	1.350
8/30/2022 09:00:54	0.900	0.000	0.750
8/25/2022 08:44:13	1.300	0.400	2.000
8/24/2022 08:11:08	0.850	0.100	1.500
8/22/2022 11:28:23	0.700	0.100	1.550
8/22/2022 08:02:13	1.350	0.300	1.050
8/19/2022 08:45:48	1.000	0.150	1.700
8/18/2022 08:00:38	1.650	0.450	2.500
8/17/2022 07:50:25	1.750	0.150	2.650
8/16/2022 08:11:19	1.350	0.300	2.400
8/15/2022 07:58:53	1.100	0.250	1.500
8/12/2022 07:30:34	1.750	0.150	3.000
8/11/2022 12:53:44	1.400	0.450	3.400
8/11/2022 08:29:41	1.850	0.250	2.850
8/10/2022 08:08:22	1.050	0.200	2.000
8/9/2022 08:36:25	1.000	0.200	2.000
8/9/2022 07:53:48	1.050	0.100	1.700
8/1/2022 09:30:01	1.050	0.300	1.750
8/1/2022 08:12:58	1.350	0.250	1.800
7/29/2022 07:24:42	1.300	0.250	2.450
7/28/2022 07:59:19	1.850	0.300	1.950
7/27/2022 08:17:37	1.600	0.250	2.600
7/26/2022 07:53:10	1.150	0.200	1.850
7/25/2022 09:48:29	1.800	0.450	1.850
6/30/2022 11:28:41	1.500	0.150	2.100
6/3/2022 08:15:26	1.550	0.150	1.550
6/1/2022 09:09:25	1.250	0.150	1.050
5/31/2022 12:07:21	1.500	0.200	1.200
5/31/2022 11:56:36	1.250	0.150	1.100
5/26/2022 09:53:19	1.000	0.150	1.400
5/25/2022 11:34:00	1.450	0.050	1.350
5/25/2022 10:52:32	0.950	0.200	1.100

Tune Parameters

Performance Report

Created Date	Extract 1	Extract 2	Omega Bias
8/4/2023 09:09:07	0.0 V	-145.0 V	-70 V
8/4/2023 08:31:24	0.0 V	-170.0 V	-80 V
8/3/2023 09:42:16	0.0 V	-195.0 V	-90 V
8/2/2023 11:05:14	0.0 V	-200.0 V	-110 V
8/2/2023 10:28:09	0.0 V	-150.0 V	-80 V
8/2/2023 10:20:44	0.0 V	-185.0 V	-90 V
8/2/2023 10:16:57	0.0 V	-185.0 V	-90 V
8/2/2023 10:12:26	0.0 V	-185.0 V	-90 V
8/1/2023 09:44:17	0.0 V	-200.0 V	-120 V
7/31/2023 09:31:10	0.0 V	-150.0 V	-80 V
7/28/2023 09:28:15	0.0 V	-185.0 V	-90 V
7/27/2023 09:17:24	0.0 V	-185.0 V	-100 V
7/26/2023 10:24:37	0.0 V	-200.0 V	-100 V
7/25/2023 09:08:43	0.0 V	-200.0 V	-120 V
7/24/2023 09:25:55	0.0 V	-175.0 V	-90 V
7/21/2023 09:38:18	0.0 V	-170.0 V	-90 V
7/20/2023 09:50:16	0.0 V	-170.0 V	-90 V
7/19/2023 09:51:11	0.0 V	-165.0 V	-90 V
7/18/2023 10:02:58	0.0 V	-165.0 V	-80 V
7/17/2023 11:07:27	0.0 V	-195.0 V	-100 V
7/17/2023 09:51:07	0.0 V	-200.0 V	-100 V
7/14/2023 13:20:39	0.0 V	-200.0 V	-110 V
7/14/2023 13:13:20	0.0 V	-200.0 V	-110 V
7/14/2023 13:04:01	0.0 V	-200.0 V	-120 V
7/14/2023 12:49:03	0.0 V	-200.0 V	-120 V
7/14/2023 09:43:22	0.0 V	-195.0 V	-110 V
7/13/2023 17:06:49	0.0 V	-200.0 V	-100 V
7/13/2023 16:18:09	0.0 V	-200.0 V	-100 V
7/13/2023 13:12:33	0.0 V	-195.0 V	-110 V
7/12/2023 10:11:37	0.0 V	-190.0 V	-80 V
7/11/2023 10:12:22	0.0 V	-200.0 V	-80 V
7/11/2023 10:02:13	0.0 V	-185.0 V	-100 V
7/10/2023 10:27:11	0.0 V	-140.0 V	-70 V
7/7/2023 10:03:10	0.0 V	-170.0 V	-70 V
7/7/2023 09:53:18	0.0 V	-165.0 V	-70 V
7/6/2023 09:39:20	0.0 V	-145.0 V	-70 V
7/5/2023 09:21:22	0.0 V	-140.0 V	-70 V
7/3/2023 09:52:13	0.0 V	-170.0 V	-70 V
7/3/2023 09:30:59	0.0 V	-175.0 V	-70 V
6/30/2023 09:54:22	0.0 V	-200.0 V	-90 V
6/29/2023 09:42:14	0.0 V	-200.0 V	-90 V

Performance Report

Created Date	Extract 1	Extract 2	Omega Bias
6/28/2023 09:24:23	0.0 V	-200.0 V	-90 V
6/27/2023 09:21:37	0.0 V	-195.0 V	-90 V
6/26/2023 13:04:07	0.0 V	-180.0 V	-80 V
6/23/2023 09:35:05	0.0 V	-200.0 V	-80 V
6/22/2023 09:46:11	0.0 V	-195.0 V	-80 V
6/21/2023 09:51:51	0.0 V	-200.0 V	-80 V
6/20/2023 09:45:37	0.0 V	-195.0 V	-80 V
6/19/2023 09:55:02	0.0 V	-190.0 V	-80 V
6/16/2023 09:23:49	0.0 V	-200.0 V	-90 V
6/15/2023 09:47:30	0.0 V	-200.0 V	-90 V
6/14/2023 09:16:14	0.0 V	-200.0 V	-80 V
6/13/2023 09:49:15	0.0 V	-200.0 V	-80 V
6/12/2023 11:34:15	0.0 V	-195.0 V	-80 V
6/12/2023 09:54:55	0.0 V	-185.0 V	-80 V
6/9/2023 12:39:33	0.0 V	-200.0 V	-90 V
6/9/2023 09:23:31	0.0 V	-200.0 V	-80 V
6/8/2023 10:16:31	0.0 V	-200.0 V	-90 V
6/7/2023 09:48:23	0.0 V	-200.0 V	-90 V
6/6/2023 09:46:41	0.0 V	-200.0 V	-90 V
6/5/2023 09:22:56	0.0 V	-200.0 V	-90 V
6/2/2023 09:34:45	0.0 V	-200.0 V	-100 V
6/1/2023 09:48:17	0.0 V	-180.0 V	-80 V
5/31/2023 09:40:40	0.0 V	-180.0 V	-70 V
5/30/2023 09:32:39	0.0 V	-160.0 V	-70 V
5/26/2023 12:43:13	0.0 V	-195.0 V	-80 V
5/26/2023 12:35:21	0.0 V	-200.0 V	-80 V
5/26/2023 12:24:37	0.0 V	-200.0 V	-90 V
5/26/2023 12:20:08	0.0 V	-200.0 V	-90 V
5/26/2023 12:15:41	0.0 V	-200.0 V	-90 V
5/26/2023 09:21:24	0.0 V	-200.0 V	-90 V
5/25/2023 09:20:09	0.0 V	-200.0 V	-90 V
5/24/2023 12:08:16	0.0 V	-200.0 V	-90 V
5/24/2023 09:30:58	0.0 V	-200.0 V	-90 V
5/23/2023 10:10:03	0.0 V	-195.0 V	-90 V
5/22/2023 10:18:03	0.0 V	-200.0 V	-90 V
5/19/2023 09:10:18	0.0 V	-200.0 V	-90 V
5/18/2023 10:26:22	0.0 V	-200.0 V	-90 V
5/17/2023 09:16:47	0.0 V	-200.0 V	-90 V
5/16/2023 09:59:27	0.0 V	-200.0 V	-90 V
5/15/2023 10:01:28	0.0 V	-200.0 V	-80 V
5/12/2023 09:47:09	0.0 V	-190.0 V	-80 V

Performance Report

Created Date	Extract 1	Extract 2	Omega Bias
5/11/2023 09:16:07	0.0 V	-195.0 V	-80 V
5/10/2023 09:42:50	0.0 V	-175.0 V	-80 V
5/9/2023 09:27:44	0.0 V	-175.0 V	-70 V
5/8/2023 09:26:50	0.0 V	-200.0 V	-90 V
5/5/2023 09:05:22	0.0 V	-200.0 V	-100 V
5/4/2023 10:18:52	0.0 V	-200.0 V	-110 V
5/4/2023 09:42:19	0.0 V	-175.0 V	-80 V
5/3/2023 09:25:16	0.0 V	-175.0 V	-80 V
5/2/2023 14:32:57	0.0 V	-170.0 V	-80 V
5/2/2023 11:11:55	0.0 V	-175.0 V	-80 V
5/2/2023 10:06:56	0.0 V	-175.0 V	-80 V
5/2/2023 09:20:27	0.0 V	-180.0 V	-80 V
5/1/2023 08:58:25	0.0 V	-190.0 V	-80 V
4/28/2023 15:08:06	0.0 V	-185.0 V	-80 V
4/28/2023 11:06:46	0.0 V	-195.0 V	-80 V
4/28/2023 09:28:29	0.0 V	-175.0 V	-90 V
4/27/2023 09:00:22	0.0 V	-195.0 V	-90 V
4/26/2023 08:49:33	0.0 V	-195.0 V	-80 V
4/25/2023 10:22:10	0.0 V	-190.0 V	-80 V
4/24/2023 08:55:03	0.0 V	-170.0 V	-80 V
4/21/2023 12:21:05	0.0 V	-165.0 V	-80 V
4/21/2023 11:08:42	0.0 V	-175.0 V	-80 V
4/21/2023 08:53:22	0.0 V	-165.0 V	-80 V
4/20/2023 09:37:29	0.0 V	-175.0 V	-80 V
4/19/2023 17:09:43	0.0 V	-185.0 V	-80 V
4/19/2023 15:46:38	0.0 V	-185.0 V	-80 V
4/19/2023 14:35:32	0.0 V	-180.0 V	-80 V
4/19/2023 13:54:58	0.0 V	-185.0 V	-80 V
4/19/2023 09:45:34	0.0 V	-180.0 V	-80 V
4/18/2023 09:17:03	0.0 V	-190.0 V	-80 V
4/17/2023 10:23:48	0.0 V	-170.0 V	-70 V
4/17/2023 10:00:25	0.0 V	-190.0 V	-80 V
4/14/2023 08:59:17	0.0 V	-200.0 V	-90 V
4/13/2023 09:01:53	0.0 V	-190.0 V	-90 V
4/12/2023 08:48:04	0.0 V	-200.0 V	-90 V
4/11/2023 14:04:25	0.0 V	-185.0 V	-80 V
4/11/2023 11:58:48	0.0 V	-185.0 V	-80 V
4/11/2023 09:06:40	0.0 V	-200.0 V	-80 V
4/10/2023 10:37:44	0.0 V	-155.0 V	-70 V
4/10/2023 10:22:12	0.0 V	-175.0 V	-80 V
4/10/2023 09:55:11	0.0 V	-175.0 V	-80 V

Performance Report

Created Date	Extract 1	Extract 2	Omega Bias
4/10/2023 09:40:08	0.0 V	-170.0 V	-80 V
4/7/2023 09:12:03	0.0 V	-170.0 V	-80 V
4/6/2023 09:29:25	0.0 V	-175.0 V	-80 V
4/5/2023 12:01:25	0.0 V	-170.0 V	-80 V
4/4/2023 09:25:41	0.0 V	-175.0 V	-80 V
4/4/2023 09:16:16	0.0 V	-175.0 V	-80 V
4/3/2023 10:44:46	0.0 V	-190.0 V	-80 V
3/31/2023 13:01:29	0.0 V	-185.0 V	-80 V
3/31/2023 09:26:11	0.0 V	-175.0 V	-80 V
3/30/2023 09:11:37	0.0 V	-195.0 V	-80 V
3/30/2023 09:01:02	0.0 V	-195.0 V	-80 V
3/29/2023 09:27:41	0.0 V	-195.0 V	-80 V
3/28/2023 09:13:20	0.0 V	-175.0 V	-80 V
3/27/2023 09:16:40	0.0 V	-185.0 V	-80 V
3/24/2023 09:19:12	0.0 V	-190.0 V	-80 V
3/23/2023 10:30:11	0.0 V	-190.0 V	-80 V
3/22/2023 09:09:24	0.0 V	-185.0 V	-70 V
3/21/2023 11:29:57	0.0 V	-175.0 V	-80 V
3/20/2023 15:01:09	0.0 V	-195.0 V	-80 V
3/20/2023 14:56:00	0.0 V	-195.0 V	-80 V
3/20/2023 14:34:11	0.0 V	-200.0 V	-80 V
3/20/2023 11:10:11	0.0 V	-200.0 V	-90 V
3/17/2023 09:15:52	0.0 V	-200.0 V	-90 V
3/16/2023 10:04:21	0.0 V	-200.0 V	-80 V
3/15/2023 08:50:05	0.0 V	-195.0 V	-70 V
3/14/2023 09:23:23	0.0 V	-185.0 V	-70 V
3/13/2023 09:02:28	0.0 V	-195.0 V	-70 V
3/10/2023 09:50:25	0.0 V	-195.0 V	-80 V
3/9/2023 10:05:54	0.0 V	-200.0 V	-80 V
3/8/2023 13:14:50	0.0 V	-200.0 V	-80 V
3/7/2023 10:34:30	0.0 V	-200.0 V	-80 V
3/6/2023 10:45:07	0.0 V	-200.0 V	-80 V
3/3/2023 08:01:46	0.0 V	-200.0 V	-80 V
3/2/2023 09:47:36	0.0 V	-200.0 V	-80 V
3/1/2023 08:51:22	0.0 V	-200.0 V	-80 V
2/28/2023 09:34:23	0.0 V	-195.0 V	-80 V
2/27/2023 14:30:30	0.0 V	-200.0 V	-80 V
2/27/2023 11:22:50	0.0 V	-170.0 V	-80 V
2/27/2023 10:51:56	0.0 V	-170.0 V	-80 V
2/27/2023 10:44:59	0.0 V	-170.0 V	-80 V
2/24/2023 16:23:45	0.0 V	-185.0 V	-80 V

Performance Report

Created Date	Extract 1	Extract 2	Omega Bias
2/24/2023 16:07:57	0.0 V	-185.0 V	-80 V
2/23/2023 08:54:28	0.0 V	-185.0 V	-80 V
2/22/2023 08:37:14	0.0 V	-200.0 V	-80 V
2/21/2023 10:21:12	0.0 V	-195.0 V	-80 V
2/20/2023 08:52:02	0.0 V	-195.0 V	-80 V
2/17/2023 08:36:41	0.0 V	-200.0 V	-90 V
2/16/2023 08:44:34	0.0 V	-200.0 V	-90 V
2/15/2023 12:26:22	0.0 V	-180.0 V	-90 V
2/14/2023 13:04:03	0.0 V	-190.0 V	-80 V
2/13/2023 11:40:00	0.0 V	-200.0 V	-80 V
2/10/2023 10:01:05	0.0 V	-195.0 V	-80 V
2/9/2023 11:28:46	0.0 V	-200.0 V	-80 V
2/8/2023 08:23:24	0.0 V	-200.0 V	-90 V
2/7/2023 11:36:23	0.0 V	-200.0 V	-90 V
2/6/2023 12:36:01	0.0 V	-200.0 V	-100 V
2/3/2023 08:20:53	0.0 V	-200.0 V	-90 V
2/2/2023 07:55:34	0.0 V	-200.0 V	-90 V
2/1/2023 07:42:39	0.0 V	-195.0 V	-90 V
1/31/2023 09:19:32	0.0 V	-175.0 V	-90 V
1/30/2023 10:17:02	0.0 V	-200.0 V	-90 V
1/27/2023 08:15:42	0.0 V	-195.0 V	-90 V
1/26/2023 08:18:20	0.0 V	-200.0 V	-80 V
1/25/2023 09:02:42	0.0 V	-195.0 V	-90 V
1/24/2023 08:45:18	0.0 V	-200.0 V	-80 V
1/23/2023 07:54:12	0.0 V	-200.0 V	-80 V
1/20/2023 07:43:21	0.0 V	-195.0 V	-90 V
1/19/2023 08:47:40	0.0 V	-200.0 V	-90 V
1/18/2023 08:40:18	0.0 V	-200.0 V	-80 V
1/17/2023 09:51:42	0.0 V	-170.0 V	-80 V
1/13/2023 08:18:49	0.0 V	-200.0 V	-80 V
1/12/2023 08:58:54	0.0 V	-195.0 V	-80 V
1/11/2023 08:26:54	0.0 V	-200.0 V	-80 V
1/10/2023 09:03:33	0.0 V	-195.0 V	-80 V
1/9/2023 08:33:43	0.0 V	-195.0 V	-90 V
1/6/2023 09:09:20	0.0 V	-200.0 V	-80 V
1/5/2023 08:59:03	0.0 V	-200.0 V	-80 V
1/4/2023 09:22:57	0.0 V	-200.0 V	-90 V
1/3/2023 07:54:14	0.0 V	-190.0 V	-80 V
12/30/2022 12:03:44	0.0 V	-195.0 V	-80 V
12/30/2022 11:44:52	0.0 V	-195.0 V	-80 V
12/30/2022 08:53:04	0.0 V	-195.0 V	-80 V

Performance Report

Created Date	Extract 1	Extract 2	Omega Bias
12/30/2022 08:43:33	0.0 V	-195.0 V	-80 V
12/29/2022 09:51:14	0.0 V	-200.0 V	-80 V
12/28/2022 10:56:59	0.0 V	-200.0 V	-90 V
12/27/2022 11:51:09	0.0 V	-195.0 V	-80 V
12/22/2022 13:03:41	0.0 V	-200.0 V	-90 V
12/20/2022 10:03:57	0.0 V	-200.0 V	-90 V
12/15/2022 08:54:42	0.0 V	-200.0 V	-90 V
12/14/2022 07:30:17	0.0 V	-200.0 V	-80 V
12/13/2022 08:19:58	0.0 V	-200.0 V	-90 V
12/12/2022 09:25:41	0.0 V	-200.0 V	-90 V
12/9/2022 07:32:14	0.0 V	-185.0 V	-90 V
12/7/2022 09:04:52	0.0 V	-200.0 V	-80 V
12/6/2022 09:40:47	0.0 V	-200.0 V	-90 V
12/5/2022 09:33:56	0.0 V	-200.0 V	-90 V
12/2/2022 08:43:06	0.0 V	-200.0 V	-90 V
12/1/2022 08:14:13	0.0 V	-200.0 V	-90 V
11/30/2022 09:05:47	0.0 V	-200.0 V	-90 V
11/29/2022 09:56:17	0.0 V	-190.0 V	-80 V
11/22/2022 08:57:48	0.0 V	-200.0 V	-80 V
11/21/2022 09:24:58	0.0 V	-200.0 V	-80 V
11/18/2022 08:02:10	0.0 V	-200.0 V	-90 V
11/17/2022 14:32:03	0.0 V	-195.0 V	-90 V
11/14/2022 13:14:56	0.0 V	-180.0 V	-90 V
11/11/2022 08:35:49	0.0 V	-195.0 V	-90 V
11/10/2022 10:24:53	0.0 V	-185.0 V	-80 V
11/9/2022 12:14:57	0.0 V	-185.0 V	-70 V
11/7/2022 10:37:58	0.0 V	-200.0 V	-80 V
11/7/2022 08:51:17	0.0 V	-200.0 V	-110 V
11/4/2022 09:20:34	0.0 V	-200.0 V	-110 V
11/3/2022 10:28:57	0.0 V	-200.0 V	-120 V
11/2/2022 08:32:00	0.0 V	-200.0 V	-120 V
11/1/2022 11:19:50	0.0 V	-200.0 V	-120 V
11/1/2022 11:02:36	0.0 V	-200.0 V	-120 V
10/31/2022 09:19:47	0.0 V	-200.0 V	-120 V
10/28/2022 09:14:48	0.0 V	-200.0 V	-120 V
10/27/2022 10:50:18	0.0 V	-200.0 V	-120 V
10/26/2022 11:02:54	0.0 V	-200.0 V	-120 V
10/19/2022 12:45:34	0.0 V	-200.0 V	-120 V
10/18/2022 09:12:59	0.0 V	-200.0 V	-120 V
10/13/2022 11:08:12	0.0 V	-200.0 V	-120 V
10/12/2022 09:54:30	0.0 V	-200.0 V	-120 V

Performance Report

Created Date	Extract 1	Extract 2	Omega Bias
10/11/2022 09:12:35	0.0 V	-200.0 V	-110 V
10/6/2022 10:34:09	0.0 V	-195.0 V	-100 V
9/30/2022 08:08:09	0.0 V	-195.0 V	-100 V
9/29/2022 08:44:14	0.0 V	-195.0 V	-100 V
9/28/2022 09:42:45	0.0 V	-195.0 V	-100 V
9/27/2022 08:29:24	0.0 V	-195.0 V	-100 V
9/26/2022 10:25:12	0.0 V	-195.0 V	-100 V
9/23/2022 07:41:43	0.0 V	-195.0 V	-100 V
9/22/2022 11:03:47	0.0 V	-195.0 V	-100 V
9/21/2022 10:21:37	0.0 V	-195.0 V	-100 V
9/20/2022 12:23:56	0.0 V	-195.0 V	-100 V
9/15/2022 11:07:18	0.0 V	-195.0 V	-100 V
9/14/2022 09:29:39	0.0 V	-200.0 V	-80 V
9/13/2022 14:42:43	0.0 V	-200.0 V	-80 V
9/13/2022 08:12:52	0.0 V	-195.0 V	-80 V
9/12/2022 08:42:30	0.0 V	-190.0 V	-80 V
9/9/2022 09:45:48	0.0 V	-200.0 V	-80 V
9/8/2022 12:04:46	0.0 V	-200.0 V	-80 V
9/8/2022 11:48:01	0.0 V	-200.0 V	-70 V
9/8/2022 11:27:44	0.0 V	-200.0 V	-70 V
9/2/2022 07:38:00	0.0 V	-200.0 V	-80 V
9/1/2022 08:15:43	0.0 V	-200.0 V	-80 V
8/31/2022 07:49:17	0.0 V	-200.0 V	-80 V
8/30/2022 09:25:59	0.0 V	-200.0 V	-80 V
8/30/2022 09:00:54	0.0 V	-200.0 V	-90 V
8/25/2022 08:44:13	0.0 V	-200.0 V	-90 V
8/24/2022 08:11:08	0.0 V	-200.0 V	-90 V
8/22/2022 11:28:23	0.0 V	-200.0 V	-80 V
8/22/2022 08:02:13	0.0 V	-200.0 V	-80 V
8/19/2022 08:45:48	0.0 V	-200.0 V	-80 V
8/18/2022 08:00:38	0.0 V	-200.0 V	-80 V
8/17/2022 07:50:25	0.0 V	-200.0 V	-80 V
8/16/2022 08:11:19	0.0 V	-200.0 V	-80 V
8/15/2022 07:58:53	0.0 V	-200.0 V	-80 V
8/12/2022 07:30:34	0.0 V	-200.0 V	-80 V
8/11/2022 12:53:44	0.0 V	-200.0 V	-80 V
8/11/2022 08:29:41	0.0 V	-200.0 V	-80 V
8/10/2022 08:08:22	0.0 V	-200.0 V	-70 V
8/9/2022 08:36:25	0.0 V	-200.0 V	-80 V
8/9/2022 07:53:48	0.0 V	-200.0 V	-80 V
8/1/2022 09:30:01	0.0 V	-200.0 V	-80 V

Performance Report

Created Date	Extract 1	Extract 2	Omega Bias
8/1/2022 08:12:58	0.0 V	-200.0 V	-80 V
7/29/2022 07:24:42	0.0 V	-200.0 V	-80 V
7/28/2022 07:59:19	0.0 V	-200.0 V	-80 V
7/27/2022 08:17:37	0.0 V	-200.0 V	-90 V
7/26/2022 07:53:10	0.0 V	-200.0 V	-90 V
7/25/2022 09:48:29	0.0 V	-195.0 V	-90 V
6/30/2022 11:28:41	0.0 V	-200.0 V	-90 V
6/3/2022 08:15:26	0.0 V	-200.0 V	-90 V
6/1/2022 09:09:25	0.0 V	-195.0 V	-90 V
5/31/2022 12:07:21	0.0 V	-200.0 V	-90 V
5/31/2022 11:56:36	0.0 V	-200.0 V	-90 V
5/26/2022 09:53:19	0.0 V	-200.0 V	-110 V
5/25/2022 11:34:00	0.0 V	-200.0 V	-100 V
5/25/2022 10:52:32	0.0 V	-200.0 V	-100 V

US EPA Tune Check Report

Operator Name ICPMS
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\080423FG.b
Acq. Date-Time 8/4/2023 09:30:34
Report Comment ---
Instrument Name G8422A SG22151236

[No Gas]

Sensitivity

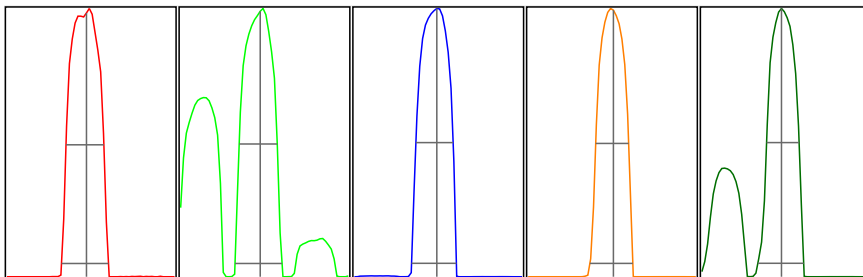
Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/(ug/l)]	Resp (Flag)	RSD%	RSD% (Required)
9	10.00	206	2063.62			2.794	5.000
24	10.00	756	7562.54			1.703	5.000
59	10.00	7519	75192.13			0.762	5.000
115	10.00	26851	268507.81			1.260	5.000
208	10.00	18267	182667.71			2.064	5.000

Mass	RSD% (Flag)
9	
24	
59	
115	
208	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	211	209	206	197	210
24	735	761	764	767	753
59	7572	7484	7442	7523	7575
115	27003	27238	26908	26779	26325
208	18734	18580	18186	17899	17934

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	322.64	8.95	8.90 - 9.10	
24	1193.31	23.95	23.90 - 24.10	
59	11992.60	59.00	58.90 - 59.10	
115	48129.26	115.05	114.90 - 115.10	
208	32983.11	207.95	207.90 - 208.10	

US EPA Tune Check Report

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.67	0.828	0.900	
24	0.67	0.828	0.900	
59	0.66	0.789	0.900	
115	0.58	0.756	0.900	
208	0.57	0.807	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 153.6999999999999
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.70 L/min	Makeup Gas	0.50 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	6.2 V	Deflect	11.4 V
Extract 2	-11.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-10 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	0.0 mL/min	OctP RF	200 V		

QP Parameters

Mass Gain	123	Axis Gain	0.9992	QP Bias	-3.0 V
Mass Offset	124	Axis Offset	0.02		

Hardware Settings

Torch

Torch H	0.0 mm	Torch V	0.6 mm
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EM

Discriminator	3.1 mV	Analog HV	2150 V	Pulse HV	1235 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/(ug/l)]	Resp (Flag)	RSD%	RSD% (Required)
24	10.00	3367	33665.04			0.515	5.000
59	10.00	81918	819184.97			0.685	5.000
115	10.00	126714	1267141.65			0.784	5.000
208	10.00	159433	1594332.60			1.263	5.000

Mass	RSD% (Flag)
24	
59	

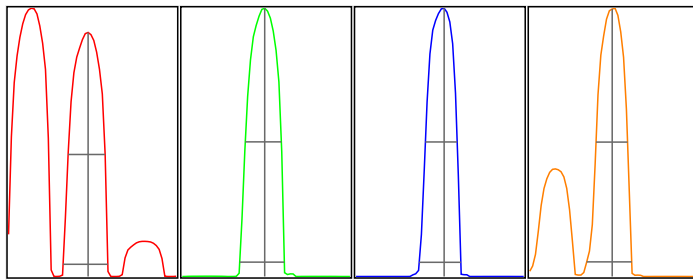
US EPA Tune Check Report

Mass	RSD% (Flag)
115	
208	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
24	3364	3340	3374	3388	3367
59	82540	81599	81291	81678	82484
115	127524	127952	125970	126486	125640
208	158747	158102	162883	159442	157993

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
24	5478.03	23.95	23.90 - 24.10	
59	135650.70	59.00	58.90 - 59.10	
115	232185.11	115.10	114.90 - 115.10	
208	292775.46	208.00	207.90 - 208.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
24	0.65	0.787	0.900	
59	0.63	0.785	0.900	
115	0.56	0.733	0.900	
208	0.55	0.791	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 122.96
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.70 L/min	Makeup Gas	0.35 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	7.9 V	Deflect	0.0 V
Extract 2	-155.0 V	Cell Entrance	-40 V	Plate Bias	-55 V
Omega Bias	-75 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	3.0 V
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US EPA Tune Check Report

He Flow	4.3 mL/min	OctP Bias	-18.0 V
H2 Flow	0.0 mL/min	OctP RF	200 V

QP Parameters

Mass Gain	123	Axis Gain	0.9992	QP Bias	-15.0 V
Mass Offset	124	Axis Offset	0.02		

Hardware Settings

Torch

Torch H	0.0 mm	Torch V	0.6 mm
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EM

Discriminator	3.1 mV	Analog HV	2150 V	Pulse HV	1235 V
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Internal Standards

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: ICP-MS 2 AGILENT 7850 230804B

CCV Name: CAL BLANK

Run No: 85720

CCV SeqNo: 1788685

Lab File ID (Standard): 003CALB.d

Date Analyzed: 8/4/2023

Instrument ID: ICP-MS 2 Agilent 7850

Time Analyzed: 9:36

GC Column: ID (mm):

Length (M):

	IS1 Lithium 6		IS2 Scandium		IS3 Germanium		IS4 Yttrium	
	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	6007.89	0.000	135243.79	0.000	107988.66	0.000	0	0.000
UPPER LIMIT	30039.45	1.000	676218.95	1.000	539943.3	1.000	0	1.000
LOWER LIMIT	1802	-1.000	40573	-1.000	32397	-1.000	0	-1.000
SAMPLE NO.								
01	ICV	5096.29	0	115403	0	93836.8	0	0
02	ICSA	4534.77	0	114943	0	93004.6	0	0
03	MB-41095	4702.55	0	123524	0	99695.1	0	0
04	LCS-41095	4526.05	0	123110	0	99281.5	0	0
05	2308054-001A	4545.24	0	161995	0	100651	0	0
06	2308054-001ADIL	4638.19	0	130163	0	100436	0	0
07	2308054-001AMS	4534.7	0	150833	0	99251.2	0	0
08	2308054-001AMSD	4599.79	0	144093	0	97403.4	0	0
09	2308054-001APDS	4480.37	0	154141	0	98123.9	0	0
10	2308054-002A	4501.71	0	134886	0	97500.8	0	0
11	2308054-003A	4593.03	0	145229	0	98228.6	0	0
12	2308053-001A	4455.74	0	140190	0	100253	0	0
13	2308053-002A	4442.72	0	150985	0	99893.9	0	0
14	2308053-003A	4489.48	0	137486	0	100209	0	0
15	CCV-41095A	4348.75	0	118855	0	97596.8	0	0
16	CCB-41095A	4250.99	0	117375	0	95729.1	0	0
17	2308053-004A	4474.49	0	137888	0	99003.4	0	0
18	2308051-001A	4706.51	0	122370	0	97229.6	0	0
19	2308051-002A	4430.73	0	124220	0	98296.4	0	0
20	2308052-001A	4509.83	0	121635	0	98670.3	0	0
21	2308052-002A	4406.15	0	123517	0	98784.6	0	0
22	2307370-001A	4308.14	0	142291	0	102459	0	0
23	2307370-002A	4507.05	0	144446	0	102802	0	0
24	2307370-003A	4460.05	0	143737	0	102974	0	0
25	CCV-41095B	4177.05	0	120490	0	96834.1	0	0
26	CCB-41095B	4316.66	0	118554	0	96141.3	0	0

IS1 Lithium 6 = Lithium 6

IS3 Germanium = Germanium

IS2 Scandium = Scandium

IS4 Yttrium = Yttrium (89)

AREA UPPER LIMIT = +400% of internal standard area

AREA LOWER LIMIT = -70% of internal standard area

RT UPPER LIMIT = +1.00 minutes of internal standard RT

RT LOWER LIMIT = -1.00 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: ICP-MS 2 AGILENT 7850 230804B

CCV Name: CAL BLANK

Run No: 85720

CCV SeqNo: 1788685

Lab File ID (Standard): 003CALB.d

Date Analyzed: 8/4/2023

Instrument ID: ICP-MS 2 Agilent 7850

Time Analyzed: 9:36

GC Column: ID (mm):

Length (M):

	IS5 Indium AREA #	RT #	IS6 Bismuth AREA #	RT #				
12 HOUR STD	1294923.18	0.000	2525119	0.000				
UPPER LIMIT	6474615.9	1.000	12625595	1.000				
LOWER LIMIT	388477	-1.000	757536	-1.000				
SAMPLE NO.								
01 MB-41095	1.22778e+006	0	2.53834e+006	0				
02 LCS-41095	1.18913e+006	0	2.51416e+006	0				
03 2308054-001A	1.15224e+006	0	2.44994e+006	0				
04 2308054-001ADIL	1.19592e+006	0	2.43899e+006	0				
05 2308054-001AMS	1.11396e+006	0	2.40026e+006	0				
06 2308054-001AMSD	1.12764e+006	0	2.35022e+006	0				
07 2308054-001APDS	1.13469e+006	0	2.35143e+006	0				
08 2308054-002A	1.17754e+006	0	2.42845e+006	0				
09 2308054-003A	1.16162e+006	0	2.36844e+006	0				
10 2308053-001A	1.15463e+006	0	2.3941e+006	0				
11 2308053-002A	1.16302e+006	0	2.30602e+006	0				
12 2308053-003A	1.16622e+006	0	2.40585e+006	0				
13 CCV-41095A	1.19134e+006	0	2.43056e+006	0				
14 CCB-41095A	1.16502e+006	0	2.52433e+006	0				
15 2308053-004A	1.16669e+006	0	2.32467e+006	0				
16 2308051-001A	1.21779e+006	0	2.49409e+006	0				
17 2308051-002A	1.21454e+006	0	2.53687e+006	0				
18 2308052-001A	1.18908e+006	0	2.59508e+006	0				
19 2308052-002A	1.2314e+006	0	2.52654e+006	0				
20 2307370-001A	1.16667e+006	0	2.43756e+006	0				
21 2307370-002A	1.19874e+006	0	2.45447e+006	0				
22 2307370-003A	1.20081e+006	0	2.48534e+006	0				
23 ICV	1.15914e+006	0	2.43946e+006	0				
24 ICSA	1.07805e+006	0	2.24138e+006	0				
25 CCV-41095B	1.21854e+006	0	2.54714e+006	0				
26 CCB-41095B	1.19776e+006	0	2.44789e+006	0				

IS5 Indium = Indium

IS6 Bismuth = Bismuth

AREA UPPER LIMIT = +400% of internal standard area

AREA LOWER LIMIT = -70% of internal standard area

RT UPPER LIMIT = +1.00 minutes of internal standard RT

RT LOWER LIMIT = -1.00 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: ICP-MS 2 AGILENT 7850 230804B

CCV Name: CAL BLANK

Run No: 85720

CCV SeqNo: 1791402

Lab File ID (Standard): 003CALB.d

Date Analyzed: 8/10/2023

Instrument ID: ICP-MS 2 Agilent 7850

Time Analyzed: 10:20

GC Column: ID (mm):

Length (M):

	IS1 Lithium 6		IS2 Scandium		IS3 Germanium		IS4 Yttrium	
	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	4484.04	0.000	244522.25	0.000	112095.95	0.000	0	0.000
UPPER LIMIT	22420.2	1.000	1222611.25	1.000	560479.75	1.000	0	1.000
LOWER LIMIT	1345	-1.000	73357	-1.000	33629	-1.000	0	-1.000
SAMPLE NO.								
01 ICV	4344	0	225228	0	100508	0	0	0
02 ICSA	4340.66	0	215360	0	94625.5	0	0	0
03 2308052-002A	4725.23	0	227760	0	98845.6	0	0	0
04 CCV-41095C	4101.71	0	223649	0	101142	0	0	0
05 CCB-41095C	4247.3	0	223802	0	98393.2	0	0	0

IS1 Lithium 6 = Lithium 6

IS3 Germanium = Germanium

IS2 Scandium = Scandium

IS4 Yttrium = Yttrium (89)

AREA UPPER LIMIT = +400% of internal standard area

AREA LOWER LIMIT = -70% of internal standard area

RT UPPER LIMIT = +1.00 minutes of internal standard RT

RT LOWER LIMIT = -1.00 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: ICP-MS 2 AGILENT 7850 230804B CCV Name: CAL BLANK
 Run No: 85720 CCV SeqNo: 1791402
 Lab File ID (Standard): 003CALB.d Date Analyzed: 8/10/2023
 Instrument ID: ICP-MS 2 Agilent 7850 Time Analyzed: 10:20
 GC Column: ID (mm): Length (M):

	IS5 Indium AREA #	RT #	IS6 Bismuth AREA #	RT #				
12 HOUR STD	1384085.26	0.000	2624341.25	0.000				
UPPER LIMIT	6920426.3	1.000	13121706.25	1.000				
LOWER LIMIT	415226	-1.000	787302	-1.000				
SAMPLE NO.								
01 ICV	1.22361e+006	0	2.55536e+006	0				
02 ICSA	1.13735e+006	0	2.37508e+006	0				
03 2308052-002A	1.24443e+006	0	2.56173e+006	0				
04 CCV-41095C	1.26071e+006	0	2.53386e+006	0				
05 CCB-41095C	1.20475e+006	0	2.4596e+006	0				

IS5 Indium = Indium

IS6 Bismuth = Bismuth

AREA UPPER LIMIT = +400% of internal standard area

AREA LOWER LIMIT = -70% of internal standard area

RT UPPER LIMIT = +1.00 minutes of internal standard RT

RT LOWER LIMIT = -1.00 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.



3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

GeoEngineers

Robert Trahan
2101 4th Ave, Suite 950
Seattle, WA 98121

**RE: S Jackson Street
Work Order Number: 2308151**

August 28, 2023

Attention Robert Trahan:

Fremont Analytical, Inc. received 12 sample(s) on 8/10/2023 for the analyses presented in the following report.

***Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.
Gasoline by NWTPH-Gx
Polycyclic Aromatic Hydrocarbons by EPA Method 8270 (SIM)
Polychlorinated Biphenyls (PCB) by EPA Method 8082
Sample Moisture (Percent Moisture)
Total Metals by EPA Method 6020B
Volatile Organic Compounds by EPA Method 8260D***

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager

*DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.3 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910*

Revision v3

www.fremontanalytical.com

CLIENT: GeoEngineers
Project: S Jackson Street
Work Order: 2308151

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2308151-001	R1-NSW-98	08/08/2023 9:00 AM	08/10/2023 11:11 AM
2308151-002	UST2-NSW-93	08/08/2023 2:00 PM	08/10/2023 11:11 AM
2308151-003	UST2-WSW-93	08/08/2023 1:55 PM	08/10/2023 11:11 AM
2308151-004	UST2-SSW-93	08/08/2023 2:05 PM	08/10/2023 11:11 AM
2308151-005	UST2-B-89	08/08/2023 1:50 PM	08/10/2023 11:11 AM
2308151-006	UST3-NSW-93	08/08/2023 3:15 PM	08/10/2023 11:11 AM
2308151-007	UST3-SSW-93	08/08/2023 3:25 PM	08/10/2023 11:11 AM
2308151-008	UST3-WSW-93	08/08/2023 3:30 PM	08/10/2023 11:11 AM
2308151-009	UST3-B-90	08/08/2023 3:20 PM	08/10/2023 11:11 AM
2308151-010	UST4-NSW-93	08/09/2023 7:45 AM	08/10/2023 11:11 AM
2308151-011	UST4-SSW-93	08/09/2023 7:50 AM	08/10/2023 11:11 AM
2308151-012	UST4-B-90	08/09/2023 7:55 AM	08/10/2023 11:11 AM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: GeoEngineers
Project: S Jackson Street

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Prep Comments for METHOD (PREP-PCB-S), SAMPLE (2308151-006A) required Acid Cleanup Procedure (Using Method No 3665A).

Prep Comments for METHOD (PREP-PCB-S), SAMPLE (2308151-006A) required Florisil Cleanup Procedure (Using Method No 3620C).

Rev 1: Additional analyses requested by the client.

Rev 2: Additional analyses requested by the client.

Rev 3: Includes level 2B data package.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Client: GeoEngineers

Collection Date: 8/8/2023 9:00:00 AM

Project: S Jackson Street

Lab ID: 2308151-001

Matrix: Soil

Client Sample ID: R1-NSW-98

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Total Metals by EPA Method 6020B

Batch ID: 41172 Analyst: JR

Lead	4.48	0.997		mg/Kg-dry	1	8/11/2023 1:46:00 PM
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Sample Moisture (Percent Moisture)

Batch ID: R85861 Analyst: MP

Percent Moisture	23.8	0.500		wt%	1	8/11/2023 8:37:20 AM
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Analytical Report

Work Order: 2308151
Date Reported: 8/28/2023

Client: GeoEngineers
Project: S Jackson Street
Lab ID: 2308151-002
Client Sample ID: UST2-NSW-93

Collection Date: 8/8/2023 2:00:00 PM
Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Batch ID: 41170 Analyst: AP

Diesel Range Organics	ND	56.8		mg/Kg-dry	1	8/10/2023 6:10:41 PM
Heavy Oil	ND	114		mg/Kg-dry	1	8/10/2023 6:10:41 PM
Total Petroleum Hydrocarbons	ND	171		mg/Kg-dry	1	8/10/2023 6:10:41 PM
Surr: 2-Fluorobiphenyl	112	50 - 150		%Rec	1	8/10/2023 6:10:41 PM
Surr: o-Terphenyl	114	50 - 150		%Rec	1	8/10/2023 6:10:41 PM

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Batch ID: 41251 Analyst: RG

Naphthalene	34.9	22.2		µg/Kg-dry	1	8/21/2023 2:10:40 PM
2-Methylnaphthalene	48.2	22.2		µg/Kg-dry	1	8/21/2023 2:10:40 PM
1-Methylnaphthalene	25.6	22.2		µg/Kg-dry	1	8/21/2023 2:10:40 PM
Acenaphthylene	ND	22.2		µg/Kg-dry	1	8/21/2023 2:10:40 PM
Acenaphthene	ND	22.2		µg/Kg-dry	1	8/21/2023 2:10:40 PM
Fluorene	ND	22.2		µg/Kg-dry	1	8/21/2023 2:10:40 PM
Phenanthrene	ND	22.2		µg/Kg-dry	1	8/21/2023 2:10:40 PM
Anthracene	ND	22.2		µg/Kg-dry	1	8/21/2023 2:10:40 PM
Fluoranthene	ND	22.2		µg/Kg-dry	1	8/21/2023 2:10:40 PM
Pyrene	ND	44.4		µg/Kg-dry	1	8/21/2023 2:10:40 PM
Benz(a)anthracene	ND	22.2		µg/Kg-dry	1	8/21/2023 2:10:40 PM
Chrysene	ND	22.2		µg/Kg-dry	1	8/21/2023 2:10:40 PM
Benzo(b)fluoranthene	ND	27.7		µg/Kg-dry	1	8/21/2023 2:10:40 PM
Benzo(k)fluoranthene	ND	27.7		µg/Kg-dry	1	8/21/2023 2:10:40 PM
Benzo(a)pyrene	ND	33.3		µg/Kg-dry	1	8/21/2023 2:10:40 PM
Indeno(1,2,3-cd)pyrene	ND	44.4		µg/Kg-dry	1	8/21/2023 2:10:40 PM
Dibenz(a,h)anthracene	ND	55.5		µg/Kg-dry	1	8/21/2023 2:10:40 PM
Benzo(g,h,i)perylene	ND	55.5		µg/Kg-dry	1	8/21/2023 2:10:40 PM
Surr: 2-Fluorobiphenyl	84.2	22.2 - 146		%Rec	1	8/21/2023 2:10:40 PM
Surr: Terphenyl-d14 (surr)	80.9	20.2 - 159		%Rec	1	8/21/2023 2:10:40 PM

Gasoline by NWTPH-Gx

Batch ID: 41166 Analyst: CC

Gasoline Range Organics	55.9	6.90		mg/Kg-dry	1	8/12/2023 4:59:08 PM
Surr: Toluene-d8	101	65 - 135		%Rec	1	8/12/2023 4:59:08 PM
Surr: 4-Bromofluorobenzene	98.5	65 - 135		%Rec	1	8/12/2023 4:59:08 PM

Volatile Organic Compounds by EPA Method 8260D

Batch ID: 41166 Analyst: KJ

Benzene	ND	0.0242		mg/Kg-dry	1	8/12/2023 4:59:08 PM
Toluene	ND	0.0414		mg/Kg-dry	1	8/12/2023 4:59:08 PM



Client: GeoEngineers
Project: S Jackson Street
Lab ID: 2308151-002
Client Sample ID: UST2-NSW-93

Collection Date: 8/8/2023 2:00:00 PM
Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 41166 Analyst: KJ

Ethylbenzene	ND	0.0345		mg/Kg-dry	1	8/12/2023 4:59:08 PM
m,p-Xylene	0.109	0.0690		mg/Kg-dry	1	8/12/2023 4:59:08 PM
o-Xylene	ND	0.0345		mg/Kg-dry	1	8/12/2023 4:59:08 PM
Surr: Dibromofluoromethane	100	79.5 - 124		%Rec	1	8/12/2023 4:59:08 PM
Surr: Toluene-d8	98.3	77.5 - 124		%Rec	1	8/12/2023 4:59:08 PM
Surr: 1-Bromo-4-fluorobenzene	98.2	60.5 - 139		%Rec	1	8/12/2023 4:59:08 PM

Total Metals by EPA Method 6020B

Batch ID: 41271 Analyst: SLL

Lead	5.63	0.877		mg/Kg-dry	1	8/23/2023 1:47:00 PM
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Sample Moisture (Percent Moisture)

Batch ID: R85861 Analyst: MP

Percent Moisture	12.9	0.500		wt%	1	8/11/2023 8:37:20 AM
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Analytical Report

Work Order: 2308151
Date Reported: 8/28/2023

Client: GeoEngineers
Project: S Jackson Street
Lab ID: 2308151-003
Client Sample ID: UST2-WSW-93

Collection Date: 8/8/2023 1:55:00 PM
Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Batch ID: 41170 Analyst: AP

Diesel Range Organics	ND	52.4		mg/Kg-dry	1	8/10/2023 6:32:43 PM
Heavy Oil	ND	105		mg/Kg-dry	1	8/10/2023 6:32:43 PM
Total Petroleum Hydrocarbons	ND	157		mg/Kg-dry	1	8/10/2023 6:32:43 PM
Surr: 2-Fluorobiphenyl	102	50 - 150		%Rec	1	8/10/2023 6:32:43 PM
Surr: o-Terphenyl	103	50 - 150		%Rec	1	8/10/2023 6:32:43 PM

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Batch ID: 41251 Analyst: RG

Naphthalene	ND	18.7		µg/Kg-dry	1	8/21/2023 3:35:09 PM
2-Methylnaphthalene	ND	18.7		µg/Kg-dry	1	8/21/2023 3:35:09 PM
1-Methylnaphthalene	ND	18.7		µg/Kg-dry	1	8/21/2023 3:35:09 PM
Acenaphthylene	ND	18.7		µg/Kg-dry	1	8/21/2023 3:35:09 PM
Acenaphthene	ND	18.7		µg/Kg-dry	1	8/21/2023 3:35:09 PM
Fluorene	ND	18.7		µg/Kg-dry	1	8/21/2023 3:35:09 PM
Phenanthrene	ND	18.7		µg/Kg-dry	1	8/21/2023 3:35:09 PM
Anthracene	ND	18.7		µg/Kg-dry	1	8/21/2023 3:35:09 PM
Fluoranthene	ND	18.7		µg/Kg-dry	1	8/21/2023 3:35:09 PM
Pyrene	ND	37.4		µg/Kg-dry	1	8/21/2023 3:35:09 PM
Benz(a)anthracene	ND	18.7		µg/Kg-dry	1	8/21/2023 3:35:09 PM
Chrysene	ND	18.7		µg/Kg-dry	1	8/21/2023 3:35:09 PM
Benzo(b)fluoranthene	ND	23.4		µg/Kg-dry	1	8/21/2023 3:35:09 PM
Benzo(k)fluoranthene	ND	23.4		µg/Kg-dry	1	8/21/2023 3:35:09 PM
Benzo(a)pyrene	ND	28.0		µg/Kg-dry	1	8/21/2023 3:35:09 PM
Indeno(1,2,3-cd)pyrene	ND	37.4		µg/Kg-dry	1	8/21/2023 3:35:09 PM
Dibenz(a,h)anthracene	ND	46.7		µg/Kg-dry	1	8/21/2023 3:35:09 PM
Benzo(g,h,i)perylene	ND	46.7		µg/Kg-dry	1	8/21/2023 3:35:09 PM
Surr: 2-Fluorobiphenyl	75.3	22.2 - 146		%Rec	1	8/21/2023 3:35:09 PM
Surr: Terphenyl-d14 (surr)	73.3	20.2 - 159		%Rec	1	8/21/2023 3:35:09 PM

Gasoline by NWTPH-Gx

Batch ID: 41166 Analyst: CC

Gasoline Range Organics	ND	5.72		mg/Kg-dry	1	8/12/2023 5:31:00 PM
Surr: Toluene-d8	99.7	65 - 135		%Rec	1	8/12/2023 5:31:00 PM
Surr: 4-Bromofluorobenzene	98.2	65 - 135		%Rec	1	8/12/2023 5:31:00 PM

Volatile Organic Compounds by EPA Method 8260D

Batch ID: 41166 Analyst: KJ

Benzene	ND	0.0200		mg/Kg-dry	1	8/12/2023 5:31:00 PM
Toluene	ND	0.0343		mg/Kg-dry	1	8/12/2023 5:31:00 PM



Client: GeoEngineers
Project: S Jackson Street
Lab ID: 2308151-003
Client Sample ID: UST2-WSW-93

Collection Date: 8/8/2023 1:55:00 PM
Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 41166 Analyst: KJ

Ethylbenzene	ND	0.0286		mg/Kg-dry	1	8/12/2023 5:31:00 PM
m,p-Xylene	ND	0.0572		mg/Kg-dry	1	8/12/2023 5:31:00 PM
o-Xylene	ND	0.0286		mg/Kg-dry	1	8/12/2023 5:31:00 PM
Surr: Dibromofluoromethane	99.8	79.5 - 124		%Rec	1	8/12/2023 5:31:00 PM
Surr: Toluene-d8	98.9	77.5 - 124		%Rec	1	8/12/2023 5:31:00 PM
Surr: 1-Bromo-4-fluorobenzene	98.0	60.5 - 139		%Rec	1	8/12/2023 5:31:00 PM

Total Metals by EPA Method 6020B

Batch ID: 41271 Analyst: SLL

Lead	4.90	0.889		mg/Kg-dry	1	8/23/2023 1:50:00 PM
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Sample Moisture (Percent Moisture)

Batch ID: R85861 Analyst: MP

Percent Moisture	7.77	0.500		wt%	1	8/11/2023 8:37:20 AM
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Analytical Report

Work Order: 2308151
Date Reported: 8/28/2023

Client: GeoEngineers
Project: S Jackson Street
Lab ID: 2308151-005
Client Sample ID: UST2-B-89

Collection Date: 8/8/2023 1:50:00 PM
Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Batch ID: 41170 Analyst: AP

Diesel Range Organics	265	52.6		mg/Kg-dry	1	8/10/2023 6:43:40 PM
Heavy Oil	ND	105		mg/Kg-dry	1	8/10/2023 6:43:40 PM
Total Petroleum Hydrocarbons	265	158		mg/Kg-dry	1	8/10/2023 6:43:40 PM
Surr: 2-Fluorobiphenyl	102	50 - 150		%Rec	1	8/10/2023 6:43:40 PM
Surr: o-Terphenyl	105	50 - 150		%Rec	1	8/10/2023 6:43:40 PM

NOTES:

Detection is due to overlap with gasoline-range material

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Batch ID: 41251 Analyst: RG

Naphthalene	ND	20.4		µg/Kg-dry	1	8/21/2023 4:03:20 PM
2-Methylnaphthalene	ND	20.4		µg/Kg-dry	1	8/21/2023 4:03:20 PM
1-Methylnaphthalene	ND	20.4		µg/Kg-dry	1	8/21/2023 4:03:20 PM
Acenaphthylene	ND	20.4		µg/Kg-dry	1	8/21/2023 4:03:20 PM
Acenaphthene	ND	20.4		µg/Kg-dry	1	8/21/2023 4:03:20 PM
Fluorene	ND	20.4		µg/Kg-dry	1	8/21/2023 4:03:20 PM
Phenanthrene	ND	20.4		µg/Kg-dry	1	8/21/2023 4:03:20 PM
Anthracene	ND	20.4		µg/Kg-dry	1	8/21/2023 4:03:20 PM
Fluoranthene	ND	20.4		µg/Kg-dry	1	8/21/2023 4:03:20 PM
Pyrene	ND	40.8		µg/Kg-dry	1	8/21/2023 4:03:20 PM
Benz(a)anthracene	ND	20.4		µg/Kg-dry	1	8/21/2023 4:03:20 PM
Chrysene	ND	20.4		µg/Kg-dry	1	8/21/2023 4:03:20 PM
Benzo(b)fluoranthene	ND	25.5		µg/Kg-dry	1	8/21/2023 4:03:20 PM
Benzo(k)fluoranthene	ND	25.5		µg/Kg-dry	1	8/21/2023 4:03:20 PM
Benzo(a)pyrene	ND	30.6		µg/Kg-dry	1	8/21/2023 4:03:20 PM
Indeno(1,2,3-cd)pyrene	ND	40.8		µg/Kg-dry	1	8/21/2023 4:03:20 PM
Dibenz(a,h)anthracene	ND	51.0		µg/Kg-dry	1	8/21/2023 4:03:20 PM
Benzo(g,h,i)perylene	ND	51.0		µg/Kg-dry	1	8/21/2023 4:03:20 PM
Surr: 2-Fluorobiphenyl	64.7	22.2 - 146		%Rec	1	8/21/2023 4:03:20 PM
Surr: Terphenyl-d14 (surr)	53.6	20.2 - 159		%Rec	1	8/21/2023 4:03:20 PM

Gasoline by NWTPH-Gx

Batch ID: 41166 Analyst: CC

Gasoline Range Organics	500	111	D	mg/Kg-dry	20	8/14/2023 3:54:32 PM
Surr: Toluene-d8	99.3	65 - 135	D	%Rec	20	8/14/2023 3:54:32 PM
Surr: 4-Bromofluorobenzene	98.3	65 - 135	D	%Rec	20	8/14/2023 3:54:32 PM



Client: GeoEngineers

Collection Date: 8/8/2023 1:50:00 PM

Project: S Jackson Street

Lab ID: 2308151-005

Matrix: Soil

Client Sample ID: UST2-B-89

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 41166

Analyst: KJ

Benzene	ND	0.0195		mg/Kg-dry	1	8/12/2023 6:02:44 PM
Toluene	ND	0.0334		mg/Kg-dry	1	8/12/2023 6:02:44 PM
Ethylbenzene	0.0607	0.0279		mg/Kg-dry	1	8/12/2023 6:02:44 PM
m,p-Xylene	0.246	0.0557		mg/Kg-dry	1	8/12/2023 6:02:44 PM
o-Xylene	ND	0.0279		mg/Kg-dry	1	8/12/2023 6:02:44 PM
Surr: Dibromofluoromethane	102	79.5 - 124		%Rec	1	8/12/2023 6:02:44 PM
Surr: Toluene-d8	90.1	77.5 - 124		%Rec	1	8/12/2023 6:02:44 PM
Surr: 1-Bromo-4-fluorobenzene	100	60.5 - 139		%Rec	1	8/12/2023 6:02:44 PM

Total Metals by EPA Method 6020B

Batch ID: 41271

Analyst: SLL

Lead	10.9	0.875		mg/Kg-dry	1	8/23/2023 1:57:00 PM
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Sample Moisture (Percent Moisture)

Batch ID: R85861

Analyst: MP

Percent Moisture	11.4	0.500		wt%	1	8/11/2023 8:37:20 AM
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Analytical Report

Work Order: 2308151
Date Reported: 8/28/2023

Client: GeoEngineers
Project: S Jackson Street
Lab ID: 2308151-006
Client Sample ID: UST3-NSW-93

Collection Date: 8/8/2023 3:15:00 PM
Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Polychlorinated Biphenyls (PCB) by EPA Method 8082

Batch ID: 41197 Analyst: SK

Aroclor 1016	ND	0.0252		mg/Kg-dry	1	8/15/2023 12:36:03 PM
Aroclor 1221	ND	0.0252		mg/Kg-dry	1	8/15/2023 12:36:03 PM
Aroclor 1232	ND	0.0252		mg/Kg-dry	1	8/15/2023 12:36:03 PM
Aroclor 1242	ND	0.0252		mg/Kg-dry	1	8/15/2023 12:36:03 PM
Aroclor 1248	ND	0.0252		mg/Kg-dry	1	8/15/2023 12:36:03 PM
Aroclor 1254	ND	0.0252		mg/Kg-dry	1	8/15/2023 12:36:03 PM
Aroclor 1260	ND	0.0252		mg/Kg-dry	1	8/15/2023 12:36:03 PM
Aroclor 1262	ND	0.0252		mg/Kg-dry	1	8/15/2023 12:36:03 PM
Aroclor 1268	ND	0.0252		mg/Kg-dry	1	8/15/2023 12:36:03 PM
Total PCBs	ND	0.0252		mg/Kg-dry	1	8/15/2023 12:36:03 PM
Surr: Decachlorobiphenyl	35.8	5 - 160		%Rec	1	8/15/2023 12:36:03 PM
Surr: Tetrachloro-m-xylene	68.1	57.3 - 159		%Rec	1	8/15/2023 12:36:03 PM

Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Batch ID: 41170 Analyst: AP

Diesel Range Organics	ND	63.6		mg/Kg-dry	1	8/10/2023 6:54:37 PM
Heavy Oil	ND	127		mg/Kg-dry	1	8/10/2023 6:54:37 PM
Total Petroleum Hydrocarbons	ND	191		mg/Kg-dry	1	8/10/2023 6:54:37 PM
Surr: 2-Fluorobiphenyl	106	50 - 150		%Rec	1	8/10/2023 6:54:37 PM
Surr: o-Terphenyl	108	50 - 150		%Rec	1	8/10/2023 6:54:37 PM

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Batch ID: 41191 Analyst: SH

Naphthalene	ND	24.3		µg/Kg-dry	1	8/14/2023 12:09:56 PM
2-Methylnaphthalene	ND	24.3		µg/Kg-dry	1	8/14/2023 12:09:56 PM
1-Methylnaphthalene	ND	24.3		µg/Kg-dry	1	8/14/2023 12:09:56 PM
Acenaphthylene	ND	24.3		µg/Kg-dry	1	8/14/2023 12:09:56 PM
Acenaphthene	ND	24.3		µg/Kg-dry	1	8/14/2023 12:09:56 PM
Fluorene	ND	24.3		µg/Kg-dry	1	8/14/2023 12:09:56 PM
Phenanthrene	ND	24.3		µg/Kg-dry	1	8/14/2023 12:09:56 PM
Anthracene	ND	24.3		µg/Kg-dry	1	8/14/2023 12:09:56 PM
Fluoranthene	ND	24.3		µg/Kg-dry	1	8/14/2023 12:09:56 PM
Pyrene	ND	48.7		µg/Kg-dry	1	8/14/2023 12:09:56 PM
Benz(a)anthracene	ND	24.3		µg/Kg-dry	1	8/14/2023 12:09:56 PM
Chrysene	ND	24.3		µg/Kg-dry	1	8/14/2023 12:09:56 PM
Benzo(b)fluoranthene	ND	30.4		µg/Kg-dry	1	8/14/2023 12:09:56 PM
Benzo(k)fluoranthene	ND	30.4		µg/Kg-dry	1	8/14/2023 12:09:56 PM
Benzo(a)pyrene	ND	36.5		µg/Kg-dry	1	8/14/2023 12:09:56 PM
Indeno(1,2,3-cd)pyrene	ND	48.7		µg/Kg-dry	1	8/14/2023 12:09:56 PM



Analytical Report

Work Order: 2308151
Date Reported: 8/28/2023

Client: GeoEngineers
Project: S Jackson Street
Lab ID: 2308151-006
Client Sample ID: UST3-NSW-93

Collection Date: 8/8/2023 3:15:00 PM
Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Batch ID: 41191 Analyst: SH

Dibenz(a,h)anthracene	ND	60.9		µg/Kg-dry	1	8/14/2023 12:09:56 PM
Benzo(g,h,i)perylene	ND	60.9		µg/Kg-dry	1	8/14/2023 12:09:56 PM
Surr: 2-Fluorobiphenyl	105	22.2 - 146		%Rec	1	8/14/2023 12:09:56 PM
Surr: Terphenyl-d14 (surr)	121	20.2 - 159		%Rec	1	8/14/2023 12:09:56 PM

Gasoline by NWTPH-Gx

Batch ID: 41166 Analyst: CC

Gasoline Range Organics	ND	5.98		mg/Kg-dry	1	8/14/2023 11:34:13 AM
Surr: Toluene-d8	98.8	65 - 135		%Rec	1	8/14/2023 11:34:13 AM
Surr: 4-Bromofluorobenzene	98.5	65 - 135		%Rec	1	8/14/2023 11:34:13 AM

Volatile Organic Compounds by EPA Method 8260D

Batch ID: 41166 Analyst: KJ

Dichlorodifluoromethane (CFC-12)	ND	0.0179		mg/Kg-dry	1	8/12/2023 6:34:29 PM
Chloromethane	ND	0.0598		mg/Kg-dry	1	8/12/2023 6:34:29 PM
Vinyl chloride	ND	0.0299		mg/Kg-dry	1	8/12/2023 6:34:29 PM
Bromomethane	ND	0.0299		mg/Kg-dry	1	8/12/2023 6:34:29 PM
Trichlorofluoromethane (CFC-11)	ND	0.0239		mg/Kg-dry	1	8/12/2023 6:34:29 PM
Chloroethane	ND	0.0897		mg/Kg-dry	1	8/12/2023 6:34:29 PM
1,1-Dichloroethene	ND	0.120		mg/Kg-dry	1	8/12/2023 6:34:29 PM
Acetone	ND	0.299		mg/Kg-dry	1	8/12/2023 6:34:29 PM
Methylene chloride	ND	0.0418		mg/Kg-dry	1	8/12/2023 6:34:29 PM
trans-1,2-Dichloroethene	ND	0.0120		mg/Kg-dry	1	8/12/2023 6:34:29 PM
Methyl tert-butyl ether (MTBE)	ND	0.0239		mg/Kg-dry	1	8/12/2023 6:34:29 PM
1,1-Dichloroethane	ND	0.0299		mg/Kg-dry	1	8/12/2023 6:34:29 PM
cis-1,2-Dichloroethene	ND	0.0179		mg/Kg-dry	1	8/12/2023 6:34:29 PM
(MEK) 2-Butanone	ND	0.359		mg/Kg-dry	1	8/12/2023 6:34:29 PM
Chloroform	ND	0.0209		mg/Kg-dry	1	8/12/2023 6:34:29 PM
1,1,1-Trichloroethane (TCA)	ND	0.0239		mg/Kg-dry	1	8/12/2023 6:34:29 PM
1,1-Dichloropropene	ND	0.0239		mg/Kg-dry	1	8/12/2023 6:34:29 PM
Carbon tetrachloride	ND	0.0299		mg/Kg-dry	1	8/12/2023 6:34:29 PM
1,2-Dichloroethane (EDC)	ND	0.0239		mg/Kg-dry	1	8/12/2023 6:34:29 PM
Benzene	ND	0.0209		mg/Kg-dry	1	8/12/2023 6:34:29 PM
Trichloroethene (TCE)	ND	0.0179		mg/Kg-dry	1	8/12/2023 6:34:29 PM
1,2-Dichloropropane	ND	0.0299		mg/Kg-dry	1	8/12/2023 6:34:29 PM
Bromodichloromethane	ND	0.0299		mg/Kg-dry	1	8/12/2023 6:34:29 PM
Dibromomethane	ND	0.0149		mg/Kg-dry	1	8/12/2023 6:34:29 PM
cis-1,3-Dichloropropene	ND	0.0179		mg/Kg-dry	1	8/12/2023 6:34:29 PM
Toluene	ND	0.0359		mg/Kg-dry	1	8/12/2023 6:34:29 PM



Analytical Report

Work Order: 2308151
Date Reported: 8/28/2023

Client: GeoEngineers
Project: S Jackson Street
Lab ID: 2308151-006
Client Sample ID: UST3-NSW-93

Collection Date: 8/8/2023 3:15:00 PM
Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 41166 Analyst: KJ

Trans-1,3-Dichloropropylene	ND	0.0239		mg/Kg-dry	1	8/12/2023 6:34:29 PM
Methyl Isobutyl Ketone (MIBK)	ND	0.0717		mg/Kg-dry	1	8/12/2023 6:34:29 PM
1,1,2-Trichloroethane	ND	0.0149		mg/Kg-dry	1	8/12/2023 6:34:29 PM
1,3-Dichloropropane	ND	0.0120		mg/Kg-dry	1	8/12/2023 6:34:29 PM
Tetrachloroethene (PCE)	ND	0.0179		mg/Kg-dry	1	8/12/2023 6:34:29 PM
Dibromochloromethane	ND	0.0179		mg/Kg-dry	1	8/12/2023 6:34:29 PM
1,2-Dibromoethane (EDB)	ND	0.0120		mg/Kg-dry	1	8/12/2023 6:34:29 PM
2-Hexanone (MBK)	ND	0.0747		mg/Kg-dry	1	8/12/2023 6:34:29 PM
Chlorobenzene	ND	0.0179		mg/Kg-dry	1	8/12/2023 6:34:29 PM
1,1,1,2-Tetrachloroethane	ND	0.0299		mg/Kg-dry	1	8/12/2023 6:34:29 PM
Ethylbenzene	0.0414	0.0299		mg/Kg-dry	1	8/12/2023 6:34:29 PM
m,p-Xylene	0.152	0.0598		mg/Kg-dry	1	8/12/2023 6:34:29 PM
o-Xylene	ND	0.0299		mg/Kg-dry	1	8/12/2023 6:34:29 PM
Styrene	ND	0.0120		mg/Kg-dry	1	8/12/2023 6:34:29 PM
Isopropylbenzene	ND	0.0179		mg/Kg-dry	1	8/12/2023 6:34:29 PM
Bromoform	ND	0.0179		mg/Kg-dry	1	8/12/2023 6:34:29 PM
1,1,2,2-Tetrachloroethane	ND	0.239	Q	mg/Kg-dry	1	8/12/2023 6:34:29 PM
n-Propylbenzene	0.0524	0.0179		mg/Kg-dry	1	8/12/2023 6:34:29 PM
Bromobenzene	ND	0.0149		mg/Kg-dry	1	8/12/2023 6:34:29 PM
1,3,5-Trimethylbenzene	0.0316	0.0179		mg/Kg-dry	1	8/12/2023 6:34:29 PM
2-Chlorotoluene	ND	0.0197		mg/Kg-dry	1	8/12/2023 6:34:29 PM
4-Chlorotoluene	ND	0.0197		mg/Kg-dry	1	8/12/2023 6:34:29 PM
tert-Butylbenzene	ND	0.0179		mg/Kg-dry	1	8/12/2023 6:34:29 PM
1,2,3-Trichloropropane	ND	0.0359		mg/Kg-dry	1	8/12/2023 6:34:29 PM
1,2,4-Trichlorobenzene	ND	0.0717		mg/Kg-dry	1	8/12/2023 6:34:29 PM
sec-Butylbenzene	ND	0.179		mg/Kg-dry	1	8/12/2023 6:34:29 PM
4-Isopropyltoluene	ND	0.239		mg/Kg-dry	1	8/12/2023 6:34:29 PM
1,3-Dichlorobenzene	ND	0.0239		mg/Kg-dry	1	8/12/2023 6:34:29 PM
1,4-Dichlorobenzene	ND	0.0179		mg/Kg-dry	1	8/12/2023 6:34:29 PM
n-Butylbenzene	0.0276	0.0239		mg/Kg-dry	1	8/12/2023 6:34:29 PM
1,2-Dichlorobenzene	ND	0.0239		mg/Kg-dry	1	8/12/2023 6:34:29 PM
1,2-Dibromo-3-chloropropane	ND	0.0359		mg/Kg-dry	1	8/12/2023 6:34:29 PM
1,2,4-Trimethylbenzene	0.122	0.0179		mg/Kg-dry	1	8/12/2023 6:34:29 PM
Hexachloro-1,3-butadiene	ND	0.0478		mg/Kg-dry	1	8/12/2023 6:34:29 PM
Naphthalene	ND	0.120		mg/Kg-dry	1	8/12/2023 6:34:29 PM
1,2,3-Trichlorobenzene	ND	0.0717		mg/Kg-dry	1	8/12/2023 6:34:29 PM
Surr: Dibromofluoromethane	99.0	79.5 - 124		%Rec	1	8/12/2023 6:34:29 PM
Surr: Toluene-d8	97.8	77.5 - 124		%Rec	1	8/12/2023 6:34:29 PM
Surr: 1-Bromo-4-fluorobenzene	97.7	60.5 - 139		%Rec	1	8/12/2023 6:34:29 PM



Client: GeoEngineers

Collection Date: 8/8/2023 3:15:00 PM

Project: S Jackson Street

Lab ID: 2308151-006

Matrix: Soil

Client Sample ID: UST3-NSW-93

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 41166

Analyst: KJ

NOTES:

Q - Associated calibration verification is below acceptance criteria. Result may be low-biased.

Total Metals by EPA Method 6020B

Batch ID: 41192

Analyst: JR

Lead	5.53	1.02		mg/Kg-dry	1	8/14/2023 2:23:00 PM
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Sample Moisture (Percent Moisture)

Batch ID: R85887

Analyst: MP

Percent Moisture	22.5	0.500		wt%	1	8/14/2023 8:21:46 AM
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Analytical Report

Work Order: 2308151
Date Reported: 8/28/2023

Client: GeoEngineers
Project: S Jackson Street
Lab ID: 2308151-008
Client Sample ID: UST3-WSW-93

Collection Date: 8/8/2023 3:30:00 PM
Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Polychlorinated Biphenyls (PCB) by EPA Method 8082

Batch ID: 41176 Analyst: SK

Aroclor 1016	ND	0.0212		mg/Kg-dry	1	8/10/2023 8:18:48 PM
Aroclor 1221	ND	0.0212		mg/Kg-dry	1	8/10/2023 8:18:48 PM
Aroclor 1232	ND	0.0212		mg/Kg-dry	1	8/10/2023 8:18:48 PM
Aroclor 1242	ND	0.0212		mg/Kg-dry	1	8/10/2023 8:18:48 PM
Aroclor 1248	ND	0.0212		mg/Kg-dry	1	8/10/2023 8:18:48 PM
Aroclor 1254	ND	0.0212		mg/Kg-dry	1	8/10/2023 8:18:48 PM
Aroclor 1260	ND	0.0212		mg/Kg-dry	1	8/10/2023 8:18:48 PM
Aroclor 1262	ND	0.0212		mg/Kg-dry	1	8/10/2023 8:18:48 PM
Aroclor 1268	ND	0.0212		mg/Kg-dry	1	8/10/2023 8:18:48 PM
Total PCBs	ND	0.0212		mg/Kg-dry	1	8/10/2023 8:18:48 PM
Surr: Decachlorobiphenyl	40.1	5 - 160		%Rec	1	8/10/2023 8:18:48 PM
Surr: Tetrachloro-m-xylene	91.0	57.3 - 159		%Rec	1	8/10/2023 8:18:48 PM

Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Batch ID: 41170 Analyst: AP

Diesel Range Organics	ND	50.5		mg/Kg-dry	1	8/10/2023 7:05:33 PM
Heavy Oil	ND	101		mg/Kg-dry	1	8/10/2023 7:05:33 PM
Total Petroleum Hydrocarbons	ND	151		mg/Kg-dry	1	8/10/2023 7:05:33 PM
Surr: 2-Fluorobiphenyl	102	50 - 150		%Rec	1	8/10/2023 7:05:33 PM
Surr: o-Terphenyl	104	50 - 150		%Rec	1	8/10/2023 7:05:33 PM

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Batch ID: 41173 Analyst: SH

Naphthalene	ND	21.0		µg/Kg-dry	1	8/10/2023 11:19:30 PM
2-Methylnaphthalene	ND	21.0		µg/Kg-dry	1	8/10/2023 11:19:30 PM
1-Methylnaphthalene	ND	21.0		µg/Kg-dry	1	8/10/2023 11:19:30 PM
Acenaphthylene	ND	21.0		µg/Kg-dry	1	8/10/2023 11:19:30 PM
Acenaphthene	ND	21.0		µg/Kg-dry	1	8/10/2023 11:19:30 PM
Fluorene	ND	21.0		µg/Kg-dry	1	8/10/2023 11:19:30 PM
Phenanthrene	ND	21.0		µg/Kg-dry	1	8/10/2023 11:19:30 PM
Anthracene	ND	21.0		µg/Kg-dry	1	8/10/2023 11:19:30 PM
Fluoranthene	ND	21.0		µg/Kg-dry	1	8/10/2023 11:19:30 PM
Pyrene	ND	42.1		µg/Kg-dry	1	8/10/2023 11:19:30 PM
Benz(a)anthracene	ND	21.0		µg/Kg-dry	1	8/10/2023 11:19:30 PM
Chrysene	ND	21.0		µg/Kg-dry	1	8/10/2023 11:19:30 PM
Benzo(b)fluoranthene	ND	26.3		µg/Kg-dry	1	8/10/2023 11:19:30 PM
Benzo(k)fluoranthene	ND	26.3		µg/Kg-dry	1	8/10/2023 11:19:30 PM
Benzo(a)pyrene	ND	31.5		µg/Kg-dry	1	8/10/2023 11:19:30 PM
Indeno(1,2,3-cd)pyrene	ND	42.1		µg/Kg-dry	1	8/10/2023 11:19:30 PM



Analytical Report

Work Order: 2308151
Date Reported: 8/28/2023

Client: GeoEngineers
Project: S Jackson Street
Lab ID: 2308151-008
Client Sample ID: UST3-WSW-93

Collection Date: 8/8/2023 3:30:00 PM
Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Batch ID: 41173 Analyst: SH

Dibenz(a,h)anthracene	ND	52.6		µg/Kg-dry	1	8/10/2023 11:19:30 PM
Benzo(g,h,i)perylene	ND	52.6		µg/Kg-dry	1	8/10/2023 11:19:30 PM
Surr: 2-Fluorobiphenyl	103	22.2 - 146		%Rec	1	8/10/2023 11:19:30 PM
Surr: Terphenyl-d14 (surr)	123	20.2 - 159		%Rec	1	8/10/2023 11:19:30 PM

Gasoline by NWTPH-Gx

Batch ID: 41166 Analyst: CC

Gasoline Range Organics	ND	5.09		mg/Kg-dry	1	8/12/2023 7:06:14 PM
Surr: Toluene-d8	99.3	65 - 135		%Rec	1	8/12/2023 7:06:14 PM
Surr: 4-Bromofluorobenzene	97.8	65 - 135		%Rec	1	8/12/2023 7:06:14 PM

Volatile Organic Compounds by EPA Method 8260D

Batch ID: 41166 Analyst: KJ

Dichlorodifluoromethane (CFC-12)	ND	0.0153		mg/Kg-dry	1	8/12/2023 7:06:14 PM
Chloromethane	ND	0.0509		mg/Kg-dry	1	8/12/2023 7:06:14 PM
Vinyl chloride	ND	0.0255		mg/Kg-dry	1	8/12/2023 7:06:14 PM
Bromomethane	ND	0.0255		mg/Kg-dry	1	8/12/2023 7:06:14 PM
Trichlorofluoromethane (CFC-11)	ND	0.0204		mg/Kg-dry	1	8/12/2023 7:06:14 PM
Chloroethane	ND	0.0764		mg/Kg-dry	1	8/12/2023 7:06:14 PM
1,1-Dichloroethene	ND	0.102		mg/Kg-dry	1	8/12/2023 7:06:14 PM
Acetone	ND	0.255		mg/Kg-dry	1	8/12/2023 7:06:14 PM
Methylene chloride	ND	0.0357		mg/Kg-dry	1	8/12/2023 7:06:14 PM
trans-1,2-Dichloroethene	ND	0.0102		mg/Kg-dry	1	8/12/2023 7:06:14 PM
Methyl tert-butyl ether (MTBE)	ND	0.0204		mg/Kg-dry	1	8/12/2023 7:06:14 PM
1,1-Dichloroethane	ND	0.0255		mg/Kg-dry	1	8/12/2023 7:06:14 PM
cis-1,2-Dichloroethene	ND	0.0153		mg/Kg-dry	1	8/12/2023 7:06:14 PM
(MEK) 2-Butanone	ND	0.306		mg/Kg-dry	1	8/12/2023 7:06:14 PM
Chloroform	ND	0.0178		mg/Kg-dry	1	8/12/2023 7:06:14 PM
1,1,1-Trichloroethane (TCA)	ND	0.0204		mg/Kg-dry	1	8/12/2023 7:06:14 PM
1,1-Dichloropropene	ND	0.0204		mg/Kg-dry	1	8/12/2023 7:06:14 PM
Carbon tetrachloride	ND	0.0255		mg/Kg-dry	1	8/12/2023 7:06:14 PM
1,2-Dichloroethane (EDC)	ND	0.0204		mg/Kg-dry	1	8/12/2023 7:06:14 PM
Benzene	ND	0.0178		mg/Kg-dry	1	8/12/2023 7:06:14 PM
Trichloroethene (TCE)	ND	0.0153		mg/Kg-dry	1	8/12/2023 7:06:14 PM
1,2-Dichloropropane	ND	0.0255		mg/Kg-dry	1	8/12/2023 7:06:14 PM
Bromodichloromethane	ND	0.0255		mg/Kg-dry	1	8/12/2023 7:06:14 PM
Dibromomethane	ND	0.0127		mg/Kg-dry	1	8/12/2023 7:06:14 PM
cis-1,3-Dichloropropene	ND	0.0153		mg/Kg-dry	1	8/12/2023 7:06:14 PM
Toluene	ND	0.0306		mg/Kg-dry	1	8/12/2023 7:06:14 PM



Analytical Report

Work Order: 2308151
Date Reported: 8/28/2023

Client: GeoEngineers
Project: S Jackson Street
Lab ID: 2308151-008
Client Sample ID: UST3-WSW-93

Collection Date: 8/8/2023 3:30:00 PM
Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 41166 Analyst: KJ

Trans-1,3-Dichloropropylene	ND	0.0204		mg/Kg-dry	1	8/12/2023 7:06:14 PM
Methyl Isobutyl Ketone (MIBK)	ND	0.0611		mg/Kg-dry	1	8/12/2023 7:06:14 PM
1,1,2-Trichloroethane	ND	0.0127		mg/Kg-dry	1	8/12/2023 7:06:14 PM
1,3-Dichloropropane	ND	0.0102		mg/Kg-dry	1	8/12/2023 7:06:14 PM
Tetrachloroethene (PCE)	ND	0.0153		mg/Kg-dry	1	8/12/2023 7:06:14 PM
Dibromochloromethane	ND	0.0153		mg/Kg-dry	1	8/12/2023 7:06:14 PM
1,2-Dibromoethane (EDB)	ND	0.0102		mg/Kg-dry	1	8/12/2023 7:06:14 PM
2-Hexanone (MBK)	ND	0.0637		mg/Kg-dry	1	8/12/2023 7:06:14 PM
Chlorobenzene	ND	0.0153		mg/Kg-dry	1	8/12/2023 7:06:14 PM
1,1,1,2-Tetrachloroethane	ND	0.0255		mg/Kg-dry	1	8/12/2023 7:06:14 PM
Ethylbenzene	ND	0.0255		mg/Kg-dry	1	8/12/2023 7:06:14 PM
m,p-Xylene	ND	0.0509		mg/Kg-dry	1	8/12/2023 7:06:14 PM
o-Xylene	ND	0.0255		mg/Kg-dry	1	8/12/2023 7:06:14 PM
Styrene	ND	0.0102		mg/Kg-dry	1	8/12/2023 7:06:14 PM
Isopropylbenzene	ND	0.0153		mg/Kg-dry	1	8/12/2023 7:06:14 PM
Bromoform	ND	0.0153		mg/Kg-dry	1	8/12/2023 7:06:14 PM
1,1,2,2-Tetrachloroethane	ND	0.204	Q	mg/Kg-dry	1	8/12/2023 7:06:14 PM
n-Propylbenzene	ND	0.0153		mg/Kg-dry	1	8/12/2023 7:06:14 PM
Bromobenzene	ND	0.0127		mg/Kg-dry	1	8/12/2023 7:06:14 PM
1,3,5-Trimethylbenzene	ND	0.0153		mg/Kg-dry	1	8/12/2023 7:06:14 PM
2-Chlorotoluene	ND	0.0168		mg/Kg-dry	1	8/12/2023 7:06:14 PM
4-Chlorotoluene	ND	0.0168		mg/Kg-dry	1	8/12/2023 7:06:14 PM
tert-Butylbenzene	ND	0.0153		mg/Kg-dry	1	8/12/2023 7:06:14 PM
1,2,3-Trichloropropane	ND	0.0306		mg/Kg-dry	1	8/12/2023 7:06:14 PM
1,2,4-Trichlorobenzene	ND	0.0611		mg/Kg-dry	1	8/12/2023 7:06:14 PM
sec-Butylbenzene	ND	0.153		mg/Kg-dry	1	8/12/2023 7:06:14 PM
4-Isopropyltoluene	ND	0.204		mg/Kg-dry	1	8/12/2023 7:06:14 PM
1,3-Dichlorobenzene	ND	0.0204		mg/Kg-dry	1	8/12/2023 7:06:14 PM
1,4-Dichlorobenzene	ND	0.0153		mg/Kg-dry	1	8/12/2023 7:06:14 PM
n-Butylbenzene	ND	0.0204		mg/Kg-dry	1	8/12/2023 7:06:14 PM
1,2-Dichlorobenzene	ND	0.0204		mg/Kg-dry	1	8/12/2023 7:06:14 PM
1,2-Dibromo-3-chloropropane	ND	0.0306		mg/Kg-dry	1	8/12/2023 7:06:14 PM
1,2,4-Trimethylbenzene	ND	0.0153		mg/Kg-dry	1	8/12/2023 7:06:14 PM
Hexachloro-1,3-butadiene	ND	0.0407		mg/Kg-dry	1	8/12/2023 7:06:14 PM
Naphthalene	ND	0.102		mg/Kg-dry	1	8/12/2023 7:06:14 PM
1,2,3-Trichlorobenzene	ND	0.0611		mg/Kg-dry	1	8/12/2023 7:06:14 PM
Surr: Dibromofluoromethane	98.5	79.5 - 124		%Rec	1	8/12/2023 7:06:14 PM
Surr: Toluene-d8	97.5	77.5 - 124		%Rec	1	8/12/2023 7:06:14 PM
Surr: 1-Bromo-4-fluorobenzene	97.6	60.5 - 139		%Rec	1	8/12/2023 7:06:14 PM



Client: GeoEngineers

Collection Date: 8/8/2023 3:30:00 PM

Project: S Jackson Street

Lab ID: 2308151-008

Matrix: Soil

Client Sample ID: UST3-WSW-93

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 41166

Analyst: KJ

NOTES:

Q - Associated calibration verification is below acceptance criteria. Result may be low-biased.

Total Metals by EPA Method 6020B

Batch ID: 41172

Analyst: JR

Lead	1.78	0.852		mg/Kg-dry	1	8/11/2023 1:49:00 PM
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Sample Moisture (Percent Moisture)

Batch ID: R85861

Analyst: MP

Percent Moisture	7.76	0.500		wt%	1	8/11/2023 8:37:20 AM
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Analytical Report

Work Order: 2308151
Date Reported: 8/28/2023

Client: GeoEngineers
Project: S Jackson Street
Lab ID: 2308151-009
Client Sample ID: UST3-B-90

Collection Date: 8/8/2023 3:20:00 PM
Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Polychlorinated Biphenyls (PCB) by EPA Method 8082

Batch ID: 41176 Analyst: SK

Aroclor 1016	ND	0.0221		mg/Kg-dry	1	8/10/2023 8:28:34 PM
Aroclor 1221	ND	0.0221		mg/Kg-dry	1	8/10/2023 8:28:34 PM
Aroclor 1232	ND	0.0221		mg/Kg-dry	1	8/10/2023 8:28:34 PM
Aroclor 1242	ND	0.0221		mg/Kg-dry	1	8/10/2023 8:28:34 PM
Aroclor 1248	ND	0.0221		mg/Kg-dry	1	8/10/2023 8:28:34 PM
Aroclor 1254	ND	0.0221		mg/Kg-dry	1	8/10/2023 8:28:34 PM
Aroclor 1260	ND	0.0221		mg/Kg-dry	1	8/10/2023 8:28:34 PM
Aroclor 1262	ND	0.0221		mg/Kg-dry	1	8/10/2023 8:28:34 PM
Aroclor 1268	ND	0.0221		mg/Kg-dry	1	8/10/2023 8:28:34 PM
Total PCBs	ND	0.0221		mg/Kg-dry	1	8/10/2023 8:28:34 PM
Surr: Decachlorobiphenyl	38.3	5 - 160		%Rec	1	8/10/2023 8:28:34 PM
Surr: Tetrachloro-m-xylene	76.2	57.3 - 159		%Rec	1	8/10/2023 8:28:34 PM

Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Batch ID: 41170 Analyst: AP

Diesel Range Organics	985	55.9		mg/Kg-dry	1	8/10/2023 7:16:28 PM
Heavy Oil	5,480	112		mg/Kg-dry	1	8/10/2023 7:16:28 PM
Total Petroleum Hydrocarbons	6,470	168		mg/Kg-dry	1	8/10/2023 7:16:28 PM
Surr: 2-Fluorobiphenyl	98.7	50 - 150		%Rec	1	8/10/2023 7:16:28 PM
Surr: o-Terphenyl	106	50 - 150		%Rec	1	8/10/2023 7:16:28 PM

NOTES:

Diesel range detection is due to overlap with gasoline-range material

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Batch ID: 41173 Analyst: SH

Naphthalene	ND	21.6		µg/Kg-dry	1	8/10/2023 11:47:35 PM
2-Methylnaphthalene	4,390	21.6		µg/Kg-dry	1	8/10/2023 11:47:35 PM
1-Methylnaphthalene	2,720	21.6		µg/Kg-dry	1	8/10/2023 11:47:35 PM
Acenaphthylene	ND	21.6		µg/Kg-dry	1	8/10/2023 11:47:35 PM
Acenaphthene	61.8	21.6		µg/Kg-dry	1	8/10/2023 11:47:35 PM
Fluorene	93.4	21.6		µg/Kg-dry	1	8/10/2023 11:47:35 PM
Phenanthrene	318	21.6		µg/Kg-dry	1	8/10/2023 11:47:35 PM
Anthracene	69.7	21.6		µg/Kg-dry	1	8/10/2023 11:47:35 PM
Fluoranthene	275	21.6		µg/Kg-dry	1	8/10/2023 11:47:35 PM
Pyrene	362	43.2		µg/Kg-dry	1	8/10/2023 11:47:35 PM
Benz(a)anthracene	260	21.6		µg/Kg-dry	1	8/10/2023 11:47:35 PM
Chrysene	132	21.6		µg/Kg-dry	1	8/10/2023 11:47:35 PM
Benzo(b)fluoranthene	ND	27.0		µg/Kg-dry	1	8/10/2023 11:47:35 PM
Benzo(k)fluoranthene	ND	27.0		µg/Kg-dry	1	8/10/2023 11:47:35 PM



Analytical Report

Work Order: 2308151
Date Reported: 8/28/2023

Client: GeoEngineers
Project: S Jackson Street
Lab ID: 2308151-009
Client Sample ID: UST3-B-90

Collection Date: 8/8/2023 3:20:00 PM
Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Batch ID: 41173 Analyst: SH

Benzo(a)pyrene	ND	32.4		µg/Kg-dry	1	8/10/2023 11:47:35 PM
Indeno(1,2,3-cd)pyrene	ND	43.2		µg/Kg-dry	1	8/10/2023 11:47:35 PM
Dibenz(a,h)anthracene	ND	54.0		µg/Kg-dry	1	8/10/2023 11:47:35 PM
Benzo(g,h,i)perylene	108	54.0		µg/Kg-dry	1	8/10/2023 11:47:35 PM
Surr: 2-Fluorobiphenyl	119	22.2 - 146		%Rec	1	8/10/2023 11:47:35 PM
Surr: Terphenyl-d14 (surr)	146	20.2 - 159		%Rec	1	8/10/2023 11:47:35 PM

Gasoline by NWTPH-Gx

Batch ID: 41178 Analyst: CC

Gasoline Range Organics	1,970	277	D	mg/Kg-dry	50	8/14/2023 2:15:59 PM
Surr: Toluene-d8	100	65 - 135	D	%Rec	50	8/14/2023 2:15:59 PM
Surr: 4-Bromofluorobenzene	98.4	65 - 135	D	%Rec	50	8/14/2023 2:15:59 PM

Volatile Organic Compounds by EPA Method 8260D

Batch ID: 41178 Analyst: MS

Dichlorodifluoromethane (CFC-12)	ND	0.0166		mg/Kg-dry	1	8/12/2023 7:38:03 PM
Chloromethane	ND	0.0554		mg/Kg-dry	1	8/12/2023 7:38:03 PM
Vinyl chloride	ND	0.0277		mg/Kg-dry	1	8/12/2023 7:38:03 PM
Bromomethane	ND	0.0277		mg/Kg-dry	1	8/12/2023 7:38:03 PM
Trichlorofluoromethane (CFC-11)	ND	0.0222		mg/Kg-dry	1	8/12/2023 7:38:03 PM
Chloroethane	ND	0.0832		mg/Kg-dry	1	8/12/2023 7:38:03 PM
1,1-Dichloroethene	ND	0.111		mg/Kg-dry	1	8/12/2023 7:38:03 PM
Acetone	ND	0.277		mg/Kg-dry	1	8/12/2023 7:38:03 PM
Methylene chloride	ND	0.0388		mg/Kg-dry	1	8/12/2023 7:38:03 PM
trans-1,2-Dichloroethene	ND	0.0111		mg/Kg-dry	1	8/12/2023 7:38:03 PM
Methyl tert-butyl ether (MTBE)	ND	0.0222		mg/Kg-dry	1	8/12/2023 7:38:03 PM
1,1-Dichloroethane	ND	0.0277		mg/Kg-dry	1	8/12/2023 7:38:03 PM
cis-1,2-Dichloroethene	ND	0.0166		mg/Kg-dry	1	8/12/2023 7:38:03 PM
(MEK) 2-Butanone	ND	0.333		mg/Kg-dry	1	8/12/2023 7:38:03 PM
Chloroform	ND	0.0194		mg/Kg-dry	1	8/12/2023 7:38:03 PM
1,1,1-Trichloroethane (TCA)	ND	0.0222		mg/Kg-dry	1	8/12/2023 7:38:03 PM
1,1-Dichloropropene	ND	0.0222		mg/Kg-dry	1	8/12/2023 7:38:03 PM
Carbon tetrachloride	ND	0.0277		mg/Kg-dry	1	8/12/2023 7:38:03 PM
1,2-Dichloroethane (EDC)	ND	0.0222		mg/Kg-dry	1	8/12/2023 7:38:03 PM
Benzene	ND	0.0194		mg/Kg-dry	1	8/12/2023 7:38:03 PM
Trichloroethene (TCE)	ND	0.0166		mg/Kg-dry	1	8/12/2023 7:38:03 PM
1,2-Dichloropropane	ND	0.0277		mg/Kg-dry	1	8/12/2023 7:38:03 PM
Bromodichloromethane	ND	0.0277		mg/Kg-dry	1	8/12/2023 7:38:03 PM
Dibromomethane	ND	0.0139		mg/Kg-dry	1	8/12/2023 7:38:03 PM



Analytical Report

Work Order: 2308151
Date Reported: 8/28/2023

Client: GeoEngineers
Project: S Jackson Street
Lab ID: 2308151-009
Client Sample ID: UST3-B-90

Collection Date: 8/8/2023 3:20:00 PM
Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 41178 Analyst: MS

cis-1,3-Dichloropropene	ND	0.0166		mg/Kg-dry	1	8/12/2023 7:38:03 PM
Toluene	ND	0.0333		mg/Kg-dry	1	8/12/2023 7:38:03 PM
Trans-1,3-Dichloropropylene	ND	0.0222		mg/Kg-dry	1	8/12/2023 7:38:03 PM
Methyl Isobutyl Ketone (MIBK)	ND	0.0665		mg/Kg-dry	1	8/12/2023 7:38:03 PM
1,1,2-Trichloroethane	ND	0.0139		mg/Kg-dry	1	8/12/2023 7:38:03 PM
1,3-Dichloropropane	ND	0.0111		mg/Kg-dry	1	8/12/2023 7:38:03 PM
Tetrachloroethene (PCE)	ND	0.0166		mg/Kg-dry	1	8/12/2023 7:38:03 PM
Dibromochloromethane	ND	0.0166		mg/Kg-dry	1	8/12/2023 7:38:03 PM
1,2-Dibromoethane (EDB)	ND	0.0111		mg/Kg-dry	1	8/12/2023 7:38:03 PM
2-Hexanone (MBK)	ND	0.0693		mg/Kg-dry	1	8/12/2023 7:38:03 PM
Chlorobenzene	ND	0.0166		mg/Kg-dry	1	8/12/2023 7:38:03 PM
1,1,1,2-Tetrachloroethane	ND	0.0277		mg/Kg-dry	1	8/12/2023 7:38:03 PM
Ethylbenzene	0.491	0.0277		mg/Kg-dry	1	8/12/2023 7:38:03 PM
m,p-Xylene	1.70	0.0554		mg/Kg-dry	1	8/12/2023 7:38:03 PM
o-Xylene	0.0678	0.0277		mg/Kg-dry	1	8/12/2023 7:38:03 PM
Styrene	ND	0.0111		mg/Kg-dry	1	8/12/2023 7:38:03 PM
Isopropylbenzene	1.10	0.0166		mg/Kg-dry	1	8/12/2023 7:38:03 PM
Bromoform	ND	0.0166		mg/Kg-dry	1	8/12/2023 7:38:03 PM
1,1,2,2-Tetrachloroethane	ND	0.222	Q	mg/Kg-dry	1	8/12/2023 7:38:03 PM
n-Propylbenzene	2.76	0.832	D	mg/Kg-dry	50	8/14/2023 2:15:59 PM
Bromobenzene	ND	0.0139		mg/Kg-dry	1	8/12/2023 7:38:03 PM
1,3,5-Trimethylbenzene	0.304	0.0166		mg/Kg-dry	1	8/12/2023 7:38:03 PM
2-Chlorotoluene	ND	0.0183		mg/Kg-dry	1	8/12/2023 7:38:03 PM
4-Chlorotoluene	ND	0.0183		mg/Kg-dry	1	8/12/2023 7:38:03 PM
tert-Butylbenzene	ND	0.0166		mg/Kg-dry	1	8/12/2023 7:38:03 PM
1,2,3-Trichloropropane	ND	0.0333		mg/Kg-dry	1	8/12/2023 7:38:03 PM
1,2,4-Trichlorobenzene	ND	0.0665		mg/Kg-dry	1	8/12/2023 7:38:03 PM
sec-Butylbenzene	1.40	0.166		mg/Kg-dry	1	8/12/2023 7:38:03 PM
4-Isopropyltoluene	1.32	0.222		mg/Kg-dry	1	8/12/2023 7:38:03 PM
1,3-Dichlorobenzene	ND	0.0222		mg/Kg-dry	1	8/12/2023 7:38:03 PM
1,4-Dichlorobenzene	ND	0.0166		mg/Kg-dry	1	8/12/2023 7:38:03 PM
n-Butylbenzene	2.25	1.11	D	mg/Kg-dry	50	8/14/2023 2:15:59 PM
1,2-Dichlorobenzene	ND	0.0222		mg/Kg-dry	1	8/12/2023 7:38:03 PM
1,2-Dibromo-3-chloropropane	ND	0.0333		mg/Kg-dry	1	8/12/2023 7:38:03 PM
1,2,4-Trimethylbenzene	0.760	0.0166		mg/Kg-dry	1	8/12/2023 7:38:03 PM
Hexachloro-1,3-butadiene	ND	0.0444		mg/Kg-dry	1	8/12/2023 7:38:03 PM
Naphthalene	ND	0.111		mg/Kg-dry	1	8/12/2023 7:38:03 PM
1,2,3-Trichlorobenzene	ND	0.0665		mg/Kg-dry	1	8/12/2023 7:38:03 PM
Surr: Dibromofluoromethane	103	79.5 - 124		%Rec	1	8/12/2023 7:38:03 PM



Client: GeoEngineers

Collection Date: 8/8/2023 3:20:00 PM

Project: S Jackson Street

Lab ID: 2308151-009

Matrix: Soil

Client Sample ID: UST3-B-90

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 41178 Analyst: MS

Surr: Toluene-d8	86.5	77.5 - 124		%Rec	1	8/12/2023 7:38:03 PM
Surr: 1-Bromo-4-fluorobenzene	117	60.5 - 139		%Rec	1	8/12/2023 7:38:03 PM

NOTES:

Q - Associated calibration verification is below acceptance criteria. Result may be low-biased.

Total Metals by EPA Method 6020B

Batch ID: 41172 Analyst: JR

Lead	3.21	0.852		mg/Kg-dry	1	8/11/2023 1:57:00 PM
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Sample Moisture (Percent Moisture)

Batch ID: R85861 Analyst: MP

Percent Moisture	11.4	0.500		wt%	1	8/11/2023 8:37:20 AM
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Analytical Report

Work Order: 2308151
Date Reported: 8/28/2023

Client: GeoEngineers
Project: S Jackson Street
Lab ID: 2308151-010
Client Sample ID: UST4-NSW-93

Collection Date: 8/9/2023 7:45:00 AM
Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Polychlorinated Biphenyls (PCB) by EPA Method 8082

Batch ID: 41176 Analyst: SK

Aroclor 1016	ND	0.0238		mg/Kg-dry	1	8/10/2023 8:57:59 PM
Aroclor 1221	ND	0.0238		mg/Kg-dry	1	8/10/2023 8:57:59 PM
Aroclor 1232	ND	0.0238		mg/Kg-dry	1	8/10/2023 8:57:59 PM
Aroclor 1242	ND	0.0238		mg/Kg-dry	1	8/10/2023 8:57:59 PM
Aroclor 1248	ND	0.0238		mg/Kg-dry	1	8/10/2023 8:57:59 PM
Aroclor 1254	ND	0.0238		mg/Kg-dry	1	8/10/2023 8:57:59 PM
Aroclor 1260	ND	0.0238		mg/Kg-dry	1	8/10/2023 8:57:59 PM
Aroclor 1262	ND	0.0238		mg/Kg-dry	1	8/10/2023 8:57:59 PM
Aroclor 1268	ND	0.0238		mg/Kg-dry	1	8/10/2023 8:57:59 PM
Total PCBs	ND	0.0238		mg/Kg-dry	1	8/10/2023 8:57:59 PM
Surr: Decachlorobiphenyl	23.7	5 - 160		%Rec	1	8/10/2023 8:57:59 PM
Surr: Tetrachloro-m-xylene	60.3	57.3 - 159		%Rec	1	8/10/2023 8:57:59 PM

Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Batch ID: 41170 Analyst: AP

Diesel Range Organics	ND	55.2		mg/Kg-dry	1	8/11/2023 9:12:22 AM
Heavy Oil	ND	110		mg/Kg-dry	1	8/11/2023 9:12:22 AM
Total Petroleum Hydrocarbons	ND	166		mg/Kg-dry	1	8/11/2023 9:12:22 AM
Surr: 2-Fluorobiphenyl	113	50 - 150		%Rec	1	8/11/2023 9:12:22 AM
Surr: o-Terphenyl	116	50 - 150		%Rec	1	8/11/2023 9:12:22 AM

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Batch ID: 41173 Analyst: SH

Naphthalene	ND	24.1		µg/Kg-dry	1	8/11/2023 12:15:42 AM
2-Methylnaphthalene	ND	24.1		µg/Kg-dry	1	8/11/2023 12:15:42 AM
1-Methylnaphthalene	ND	24.1		µg/Kg-dry	1	8/11/2023 12:15:42 AM
Acenaphthylene	ND	24.1		µg/Kg-dry	1	8/11/2023 12:15:42 AM
Acenaphthene	ND	24.1		µg/Kg-dry	1	8/11/2023 12:15:42 AM
Fluorene	ND	24.1		µg/Kg-dry	1	8/11/2023 12:15:42 AM
Phenanthrene	ND	24.1		µg/Kg-dry	1	8/11/2023 12:15:42 AM
Anthracene	ND	24.1		µg/Kg-dry	1	8/11/2023 12:15:42 AM
Fluoranthene	ND	24.1		µg/Kg-dry	1	8/11/2023 12:15:42 AM
Pyrene	ND	48.2		µg/Kg-dry	1	8/11/2023 12:15:42 AM
Benz(a)anthracene	ND	24.1		µg/Kg-dry	1	8/11/2023 12:15:42 AM
Chrysene	ND	24.1		µg/Kg-dry	1	8/11/2023 12:15:42 AM
Benzo(b)fluoranthene	ND	30.1		µg/Kg-dry	1	8/11/2023 12:15:42 AM
Benzo(k)fluoranthene	ND	30.1		µg/Kg-dry	1	8/11/2023 12:15:42 AM
Benzo(a)pyrene	ND	36.1		µg/Kg-dry	1	8/11/2023 12:15:42 AM
Indeno(1,2,3-cd)pyrene	ND	48.2		µg/Kg-dry	1	8/11/2023 12:15:42 AM



Client: GeoEngineers
Project: S Jackson Street
Lab ID: 2308151-010
Client Sample ID: UST4-NSW-93

Collection Date: 8/9/2023 7:45:00 AM
Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Batch ID: 41173 Analyst: SH

Dibenz(a,h)anthracene	ND	60.2		µg/Kg-dry	1	8/11/2023 12:15:42 AM
Benzo(g,h,i)perylene	ND	60.2		µg/Kg-dry	1	8/11/2023 12:15:42 AM
Surr: 2-Fluorobiphenyl	115	22.2 - 146		%Rec	1	8/11/2023 12:15:42 AM
Surr: Terphenyl-d14 (surr)	136	20.2 - 159		%Rec	1	8/11/2023 12:15:42 AM

Gasoline by NWTPH-Gx

Batch ID: 41166 Analyst: CC

Gasoline Range Organics	ND	5.16		mg/Kg-dry	1	8/14/2023 12:06:25 PM
Surr: Toluene-d8	98.3	65 - 135		%Rec	1	8/14/2023 12:06:25 PM
Surr: 4-Bromofluorobenzene	98.1	65 - 135		%Rec	1	8/14/2023 12:06:25 PM

Volatile Organic Compounds by EPA Method 8260D

Batch ID: 41166 Analyst: KJ

Dichlorodifluoromethane (CFC-12)	ND	0.0155		mg/Kg-dry	1	8/12/2023 8:10:10 PM
Chloromethane	ND	0.0516		mg/Kg-dry	1	8/12/2023 8:10:10 PM
Vinyl chloride	ND	0.0258		mg/Kg-dry	1	8/12/2023 8:10:10 PM
Bromomethane	ND	0.0258		mg/Kg-dry	1	8/12/2023 8:10:10 PM
Trichlorofluoromethane (CFC-11)	ND	0.0206		mg/Kg-dry	1	8/12/2023 8:10:10 PM
Chloroethane	ND	0.0774		mg/Kg-dry	1	8/12/2023 8:10:10 PM
1,1-Dichloroethane	ND	0.103		mg/Kg-dry	1	8/12/2023 8:10:10 PM
Acetone	ND	0.258		mg/Kg-dry	1	8/12/2023 8:10:10 PM
Methylene chloride	ND	0.0361		mg/Kg-dry	1	8/12/2023 8:10:10 PM
trans-1,2-Dichloroethene	ND	0.0103		mg/Kg-dry	1	8/12/2023 8:10:10 PM
Methyl tert-butyl ether (MTBE)	ND	0.0206		mg/Kg-dry	1	8/12/2023 8:10:10 PM
1,1-Dichloroethane	ND	0.0258		mg/Kg-dry	1	8/12/2023 8:10:10 PM
cis-1,2-Dichloroethene	ND	0.0155		mg/Kg-dry	1	8/12/2023 8:10:10 PM
(MEK) 2-Butanone	ND	0.310		mg/Kg-dry	1	8/12/2023 8:10:10 PM
Chloroform	ND	0.0181		mg/Kg-dry	1	8/12/2023 8:10:10 PM
1,1,1-Trichloroethane (TCA)	ND	0.0206		mg/Kg-dry	1	8/12/2023 8:10:10 PM
1,1-Dichloropropene	ND	0.0206		mg/Kg-dry	1	8/12/2023 8:10:10 PM
Carbon tetrachloride	ND	0.0258		mg/Kg-dry	1	8/12/2023 8:10:10 PM
1,2-Dichloroethane (EDC)	ND	0.0206		mg/Kg-dry	1	8/12/2023 8:10:10 PM
Benzene	ND	0.0181		mg/Kg-dry	1	8/12/2023 8:10:10 PM
Trichloroethene (TCE)	ND	0.0155		mg/Kg-dry	1	8/12/2023 8:10:10 PM
1,2-Dichloropropane	ND	0.0258		mg/Kg-dry	1	8/12/2023 8:10:10 PM
Bromodichloromethane	ND	0.0258		mg/Kg-dry	1	8/12/2023 8:10:10 PM
Dibromomethane	ND	0.0129		mg/Kg-dry	1	8/12/2023 8:10:10 PM
cis-1,3-Dichloropropene	ND	0.0155		mg/Kg-dry	1	8/12/2023 8:10:10 PM
Toluene	ND	0.0310		mg/Kg-dry	1	8/12/2023 8:10:10 PM



Analytical Report

Work Order: 2308151
Date Reported: 8/28/2023

Client: GeoEngineers
Project: S Jackson Street
Lab ID: 2308151-010
Client Sample ID: UST4-NSW-93

Collection Date: 8/9/2023 7:45:00 AM
Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 41166 Analyst: KJ

Trans-1,3-Dichloropropylene	ND	0.0206		mg/Kg-dry	1	8/12/2023 8:10:10 PM
Methyl Isobutyl Ketone (MIBK)	ND	0.0619		mg/Kg-dry	1	8/12/2023 8:10:10 PM
1,1,2-Trichloroethane	ND	0.0129		mg/Kg-dry	1	8/12/2023 8:10:10 PM
1,3-Dichloropropane	ND	0.0103		mg/Kg-dry	1	8/12/2023 8:10:10 PM
Tetrachloroethene (PCE)	ND	0.0155		mg/Kg-dry	1	8/12/2023 8:10:10 PM
Dibromochloromethane	ND	0.0155		mg/Kg-dry	1	8/12/2023 8:10:10 PM
1,2-Dibromoethane (EDB)	ND	0.0103		mg/Kg-dry	1	8/12/2023 8:10:10 PM
2-Hexanone (MBK)	ND	0.0645		mg/Kg-dry	1	8/12/2023 8:10:10 PM
Chlorobenzene	ND	0.0155		mg/Kg-dry	1	8/12/2023 8:10:10 PM
1,1,1,2-Tetrachloroethane	ND	0.0258		mg/Kg-dry	1	8/12/2023 8:10:10 PM
Ethylbenzene	ND	0.0258		mg/Kg-dry	1	8/12/2023 8:10:10 PM
m,p-Xylene	ND	0.0516		mg/Kg-dry	1	8/12/2023 8:10:10 PM
o-Xylene	ND	0.0258		mg/Kg-dry	1	8/12/2023 8:10:10 PM
Styrene	ND	0.0103		mg/Kg-dry	1	8/12/2023 8:10:10 PM
Isopropylbenzene	ND	0.0155		mg/Kg-dry	1	8/12/2023 8:10:10 PM
Bromoform	ND	0.0155		mg/Kg-dry	1	8/12/2023 8:10:10 PM
1,1,2,2-Tetrachloroethane	ND	0.206	Q	mg/Kg-dry	1	8/12/2023 8:10:10 PM
n-Propylbenzene	0.0190	0.0155		mg/Kg-dry	1	8/14/2023 12:06:25 PM
Bromobenzene	ND	0.0129		mg/Kg-dry	1	8/12/2023 8:10:10 PM
1,3,5-Trimethylbenzene	ND	0.0155		mg/Kg-dry	1	8/12/2023 8:10:10 PM
2-Chlorotoluene	ND	0.0170		mg/Kg-dry	1	8/12/2023 8:10:10 PM
4-Chlorotoluene	ND	0.0170		mg/Kg-dry	1	8/12/2023 8:10:10 PM
tert-Butylbenzene	ND	0.0155		mg/Kg-dry	1	8/12/2023 8:10:10 PM
1,2,3-Trichloropropane	ND	0.0310		mg/Kg-dry	1	8/12/2023 8:10:10 PM
1,2,4-Trichlorobenzene	ND	0.0619		mg/Kg-dry	1	8/12/2023 8:10:10 PM
sec-Butylbenzene	ND	0.155		mg/Kg-dry	1	8/12/2023 8:10:10 PM
4-Isopropyltoluene	ND	0.206		mg/Kg-dry	1	8/12/2023 8:10:10 PM
1,3-Dichlorobenzene	ND	0.0206		mg/Kg-dry	1	8/12/2023 8:10:10 PM
1,4-Dichlorobenzene	ND	0.0155		mg/Kg-dry	1	8/12/2023 8:10:10 PM
n-Butylbenzene	ND	0.0206		mg/Kg-dry	1	8/14/2023 12:06:25 PM
1,2-Dichlorobenzene	ND	0.0206		mg/Kg-dry	1	8/12/2023 8:10:10 PM
1,2-Dibromo-3-chloropropane	ND	0.0310		mg/Kg-dry	1	8/12/2023 8:10:10 PM
1,2,4-Trimethylbenzene	0.0232	0.0155		mg/Kg-dry	1	8/12/2023 8:10:10 PM
Hexachloro-1,3-butadiene	ND	0.0413		mg/Kg-dry	1	8/12/2023 8:10:10 PM
Naphthalene	ND	0.103		mg/Kg-dry	1	8/12/2023 8:10:10 PM
1,2,3-Trichlorobenzene	ND	0.0619		mg/Kg-dry	1	8/12/2023 8:10:10 PM
Surr: Dibromofluoromethane	96.8	79.5 - 124		%Rec	1	8/12/2023 8:10:10 PM
Surr: Toluene-d8	96.6	77.5 - 124		%Rec	1	8/12/2023 8:10:10 PM
Surr: 1-Bromo-4-fluorobenzene	97.8	60.5 - 139		%Rec	1	8/12/2023 8:10:10 PM



Client: GeoEngineers

Collection Date: 8/9/2023 7:45:00 AM

Project: S Jackson Street

Lab ID: 2308151-010

Matrix: Soil

Client Sample ID: UST4-NSW-93

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 41166

Analyst: KJ

NOTES:

Q - Associated calibration verification is below acceptance criteria. Result may be low-biased.

Total Metals by EPA Method 6020B

Batch ID: 41172

Analyst: JR

Lead	7.96	0.943		mg/Kg-dry	1	8/11/2023 1:59:00 PM
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Sample Moisture (Percent Moisture)

Batch ID: R85861

Analyst: MP

Percent Moisture	17.0	0.500		wt%	1	8/11/2023 8:37:20 AM
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Analytical Report

Work Order: 2308151
Date Reported: 8/28/2023

Client: GeoEngineers
Project: S Jackson Street
Lab ID: 2308151-011
Client Sample ID: UST4-SSW-93

Collection Date: 8/9/2023 7:50:00 AM
Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Polychlorinated Biphenyls (PCB) by EPA Method 8082

Batch ID: 41176 Analyst: SK

Aroclor 1016	ND	0.0221		mg/Kg-dry	1	8/10/2023 9:07:47 PM
Aroclor 1221	ND	0.0221		mg/Kg-dry	1	8/10/2023 9:07:47 PM
Aroclor 1232	ND	0.0221		mg/Kg-dry	1	8/10/2023 9:07:47 PM
Aroclor 1242	ND	0.0221		mg/Kg-dry	1	8/10/2023 9:07:47 PM
Aroclor 1248	ND	0.0221		mg/Kg-dry	1	8/10/2023 9:07:47 PM
Aroclor 1254	ND	0.0221		mg/Kg-dry	1	8/10/2023 9:07:47 PM
Aroclor 1260	ND	0.0221		mg/Kg-dry	1	8/10/2023 9:07:47 PM
Aroclor 1262	ND	0.0221		mg/Kg-dry	1	8/10/2023 9:07:47 PM
Aroclor 1268	ND	0.0221		mg/Kg-dry	1	8/10/2023 9:07:47 PM
Total PCBs	ND	0.0221		mg/Kg-dry	1	8/10/2023 9:07:47 PM
Surr: Decachlorobiphenyl	68.1	5 - 160		%Rec	1	8/10/2023 9:07:47 PM
Surr: Tetrachloro-m-xylene	105	57.3 - 159		%Rec	1	8/10/2023 9:07:47 PM

Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Batch ID: 41170 Analyst: AP

Diesel Range Organics	74.3	51.0		mg/Kg-dry	1	8/10/2023 8:22:17 PM
Heavy Oil	ND	102		mg/Kg-dry	1	8/10/2023 8:22:17 PM
Total Petroleum Hydrocarbons	ND	153		mg/Kg-dry	1	8/10/2023 8:22:17 PM
Surr: 2-Fluorobiphenyl	102	50 - 150		%Rec	1	8/10/2023 8:22:17 PM
Surr: o-Terphenyl	106	50 - 150		%Rec	1	8/10/2023 8:22:17 PM

NOTES:

Detection is due to overlap with gasoline-range material

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Batch ID: 41173 Analyst: SH

Naphthalene	ND	22.2		µg/Kg-dry	1	8/11/2023 12:43:39 AM
2-Methylnaphthalene	291	22.2		µg/Kg-dry	1	8/11/2023 12:43:39 AM
1-Methylnaphthalene	206	22.2		µg/Kg-dry	1	8/11/2023 12:43:39 AM
Acenaphthylene	ND	22.2		µg/Kg-dry	1	8/11/2023 12:43:39 AM
Acenaphthene	ND	22.2		µg/Kg-dry	1	8/11/2023 12:43:39 AM
Fluorene	ND	22.2		µg/Kg-dry	1	8/11/2023 12:43:39 AM
Phenanthrene	ND	22.2		µg/Kg-dry	1	8/11/2023 12:43:39 AM
Anthracene	ND	22.2		µg/Kg-dry	1	8/11/2023 12:43:39 AM
Fluoranthene	ND	22.2		µg/Kg-dry	1	8/11/2023 12:43:39 AM
Pyrene	ND	44.4		µg/Kg-dry	1	8/11/2023 12:43:39 AM
Benz(a)anthracene	ND	22.2		µg/Kg-dry	1	8/11/2023 12:43:39 AM
Chrysene	ND	22.2		µg/Kg-dry	1	8/11/2023 12:43:39 AM
Benzo(b)fluoranthene	ND	27.8		µg/Kg-dry	1	8/11/2023 12:43:39 AM
Benzo(k)fluoranthene	ND	27.8		µg/Kg-dry	1	8/11/2023 12:43:39 AM



Analytical Report

Work Order: 2308151
Date Reported: 8/28/2023

Client: GeoEngineers
Project: S Jackson Street
Lab ID: 2308151-011
Client Sample ID: UST4-SSW-93

Collection Date: 8/9/2023 7:50:00 AM
Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Batch ID: 41173 Analyst: SH

Benzo(a)pyrene	ND	33.3		µg/Kg-dry	1	8/11/2023 12:43:39 AM
Indeno(1,2,3-cd)pyrene	ND	44.4		µg/Kg-dry	1	8/11/2023 12:43:39 AM
Dibenz(a,h)anthracene	ND	55.5		µg/Kg-dry	1	8/11/2023 12:43:39 AM
Benzo(g,h,i)perylene	ND	55.5		µg/Kg-dry	1	8/11/2023 12:43:39 AM
Surr: 2-Fluorobiphenyl	108	22.2 - 146		%Rec	1	8/11/2023 12:43:39 AM
Surr: Terphenyl-d14 (surr)	122	20.2 - 159		%Rec	1	8/11/2023 12:43:39 AM

Gasoline by NWTPH-Gx

Batch ID: 41166 Analyst: CC

Gasoline Range Organics	96.9	54.2	D	mg/Kg-dry	10	8/14/2023 1:43:27 PM
Surr: Toluene-d8	98.8	65 - 135	D	%Rec	10	8/14/2023 1:43:27 PM
Surr: 4-Bromofluorobenzene	98.9	65 - 135	D	%Rec	10	8/14/2023 1:43:27 PM

Volatile Organic Compounds by EPA Method 8260D

Batch ID: 41166 Analyst: KJ

Dichlorodifluoromethane (CFC-12)	ND	0.0163		mg/Kg-dry	1	8/12/2023 8:42:17 PM
Chloromethane	ND	0.0542		mg/Kg-dry	1	8/12/2023 8:42:17 PM
Vinyl chloride	ND	0.0271		mg/Kg-dry	1	8/12/2023 8:42:17 PM
Bromomethane	ND	0.0271		mg/Kg-dry	1	8/12/2023 8:42:17 PM
Trichlorofluoromethane (CFC-11)	ND	0.0217		mg/Kg-dry	1	8/12/2023 8:42:17 PM
Chloroethane	ND	0.0813		mg/Kg-dry	1	8/12/2023 8:42:17 PM
1,1-Dichloroethene	ND	0.108		mg/Kg-dry	1	8/12/2023 8:42:17 PM
Acetone	ND	0.271		mg/Kg-dry	1	8/12/2023 8:42:17 PM
Methylene chloride	ND	0.0379		mg/Kg-dry	1	8/12/2023 8:42:17 PM
trans-1,2-Dichloroethene	ND	0.0108		mg/Kg-dry	1	8/12/2023 8:42:17 PM
Methyl tert-butyl ether (MTBE)	ND	0.0217		mg/Kg-dry	1	8/12/2023 8:42:17 PM
1,1-Dichloroethane	ND	0.0271		mg/Kg-dry	1	8/12/2023 8:42:17 PM
cis-1,2-Dichloroethene	ND	0.0163		mg/Kg-dry	1	8/12/2023 8:42:17 PM
(MEK) 2-Butanone	ND	0.325		mg/Kg-dry	1	8/12/2023 8:42:17 PM
Chloroform	ND	0.0190		mg/Kg-dry	1	8/12/2023 8:42:17 PM
1,1,1-Trichloroethane (TCA)	ND	0.0217		mg/Kg-dry	1	8/12/2023 8:42:17 PM
1,1-Dichloropropene	ND	0.0217		mg/Kg-dry	1	8/12/2023 8:42:17 PM
Carbon tetrachloride	ND	0.0271		mg/Kg-dry	1	8/12/2023 8:42:17 PM
1,2-Dichloroethane (EDC)	ND	0.0217		mg/Kg-dry	1	8/12/2023 8:42:17 PM
Benzene	ND	0.0190		mg/Kg-dry	1	8/12/2023 8:42:17 PM
Trichloroethene (TCE)	ND	0.0163		mg/Kg-dry	1	8/12/2023 8:42:17 PM
1,2-Dichloropropane	ND	0.0271		mg/Kg-dry	1	8/12/2023 8:42:17 PM
Bromodichloromethane	ND	0.0271		mg/Kg-dry	1	8/12/2023 8:42:17 PM
Dibromomethane	ND	0.0135		mg/Kg-dry	1	8/12/2023 8:42:17 PM



Analytical Report

Work Order: 2308151
Date Reported: 8/28/2023

Client: GeoEngineers
Project: S Jackson Street
Lab ID: 2308151-011
Client Sample ID: UST4-SSW-93

Collection Date: 8/9/2023 7:50:00 AM
Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 41166 Analyst: KJ

cis-1,3-Dichloropropene	ND	0.0163		mg/Kg-dry	1	8/12/2023 8:42:17 PM
Toluene	ND	0.0325		mg/Kg-dry	1	8/12/2023 8:42:17 PM
Trans-1,3-Dichloropropylene	ND	0.0217		mg/Kg-dry	1	8/12/2023 8:42:17 PM
Methyl Isobutyl Ketone (MIBK)	ND	0.0650		mg/Kg-dry	1	8/12/2023 8:42:17 PM
1,1,2-Trichloroethane	ND	0.0135		mg/Kg-dry	1	8/12/2023 8:42:17 PM
1,3-Dichloropropane	ND	0.0108		mg/Kg-dry	1	8/12/2023 8:42:17 PM
Tetrachloroethene (PCE)	ND	0.0163		mg/Kg-dry	1	8/12/2023 8:42:17 PM
Dibromochloromethane	ND	0.0163		mg/Kg-dry	1	8/12/2023 8:42:17 PM
1,2-Dibromoethane (EDB)	ND	0.0108		mg/Kg-dry	1	8/12/2023 8:42:17 PM
2-Hexanone (MBK)	ND	0.0677		mg/Kg-dry	1	8/12/2023 8:42:17 PM
Chlorobenzene	ND	0.0163		mg/Kg-dry	1	8/12/2023 8:42:17 PM
1,1,1,2-Tetrachloroethane	ND	0.0271		mg/Kg-dry	1	8/12/2023 8:42:17 PM
Ethylbenzene	ND	0.0271		mg/Kg-dry	1	8/12/2023 8:42:17 PM
m,p-Xylene	ND	0.0542		mg/Kg-dry	1	8/12/2023 8:42:17 PM
o-Xylene	ND	0.0271		mg/Kg-dry	1	8/12/2023 8:42:17 PM
Styrene	ND	0.0108		mg/Kg-dry	1	8/12/2023 8:42:17 PM
Isopropylbenzene	0.0167	0.0163		mg/Kg-dry	1	8/12/2023 8:42:17 PM
Bromoform	ND	0.0163		mg/Kg-dry	1	8/12/2023 8:42:17 PM
1,1,2,2-Tetrachloroethane	ND	0.217	Q	mg/Kg-dry	1	8/12/2023 8:42:17 PM
n-Propylbenzene	0.0684	0.0163		mg/Kg-dry	1	8/12/2023 8:42:17 PM
Bromobenzene	ND	0.0135		mg/Kg-dry	1	8/12/2023 8:42:17 PM
1,3,5-Trimethylbenzene	0.0267	0.0163		mg/Kg-dry	1	8/12/2023 8:42:17 PM
2-Chlorotoluene	ND	0.0179		mg/Kg-dry	1	8/12/2023 8:42:17 PM
4-Chlorotoluene	ND	0.0179		mg/Kg-dry	1	8/12/2023 8:42:17 PM
tert-Butylbenzene	ND	0.0163		mg/Kg-dry	1	8/12/2023 8:42:17 PM
1,2,3-Trichloropropane	ND	0.0325		mg/Kg-dry	1	8/12/2023 8:42:17 PM
1,2,4-Trichlorobenzene	ND	0.0650		mg/Kg-dry	1	8/12/2023 8:42:17 PM
sec-Butylbenzene	ND	0.163		mg/Kg-dry	1	8/12/2023 8:42:17 PM
4-Isopropyltoluene	ND	0.217		mg/Kg-dry	1	8/12/2023 8:42:17 PM
1,3-Dichlorobenzene	ND	0.0217		mg/Kg-dry	1	8/12/2023 8:42:17 PM
1,4-Dichlorobenzene	ND	0.0163		mg/Kg-dry	1	8/12/2023 8:42:17 PM
n-Butylbenzene	0.0996	0.0217		mg/Kg-dry	1	8/12/2023 8:42:17 PM
1,2-Dichlorobenzene	ND	0.0217		mg/Kg-dry	1	8/12/2023 8:42:17 PM
1,2-Dibromo-3-chloropropane	ND	0.0325		mg/Kg-dry	1	8/12/2023 8:42:17 PM
1,2,4-Trimethylbenzene	0.107	0.0163		mg/Kg-dry	1	8/12/2023 8:42:17 PM
Hexachloro-1,3-butadiene	ND	0.0434		mg/Kg-dry	1	8/12/2023 8:42:17 PM
Naphthalene	0.116	0.108		mg/Kg-dry	1	8/12/2023 8:42:17 PM
1,2,3-Trichlorobenzene	ND	0.0650		mg/Kg-dry	1	8/12/2023 8:42:17 PM
Surr: Dibromofluoromethane	97.8	79.5 - 124		%Rec	1	8/12/2023 8:42:17 PM



Analytical Report

Work Order: 2308151
Date Reported: 8/28/2023

Client: GeoEngineers

Collection Date: 8/9/2023 7:50:00 AM

Project: S Jackson Street

Lab ID: 2308151-011

Matrix: Soil

Client Sample ID: UST4-SSW-93

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 41166 Analyst: KJ

Surr: Toluene-d8	96.2	77.5 - 124		%Rec	1	8/12/2023 8:42:17 PM
Surr: 1-Bromo-4-fluorobenzene	97.4	60.5 - 139		%Rec	1	8/12/2023 8:42:17 PM

NOTES:

Q - Associated calibration verification is below acceptance criteria. Result may be low-biased.

Total Metals by EPA Method 6020B

Batch ID: 41172 Analyst: JR

Lead	2.85	0.890		mg/Kg-dry	1	8/11/2023 2:02:00 PM
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Sample Moisture (Percent Moisture)

Batch ID: R85861 Analyst: MP

Percent Moisture	9.96	0.500		wt%	1	8/11/2023 8:37:20 AM
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Analytical Report

Work Order: 2308151
Date Reported: 8/28/2023

Client: GeoEngineers
Project: S Jackson Street
Lab ID: 2308151-012
Client Sample ID: UST4-B-90

Collection Date: 8/9/2023 7:55:00 AM
Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Polychlorinated Biphenyls (PCB) by EPA Method 8082

Batch ID: 41176 Analyst: SK

Aroclor 1016	ND	0.0215		mg/Kg-dry	1	8/10/2023 9:17:35 PM
Aroclor 1221	ND	0.0215		mg/Kg-dry	1	8/10/2023 9:17:35 PM
Aroclor 1232	ND	0.0215		mg/Kg-dry	1	8/10/2023 9:17:35 PM
Aroclor 1242	ND	0.0215		mg/Kg-dry	1	8/10/2023 9:17:35 PM
Aroclor 1248	ND	0.0215		mg/Kg-dry	1	8/10/2023 9:17:35 PM
Aroclor 1254	ND	0.0215		mg/Kg-dry	1	8/10/2023 9:17:35 PM
Aroclor 1260	ND	0.0215		mg/Kg-dry	1	8/10/2023 9:17:35 PM
Aroclor 1262	ND	0.0215		mg/Kg-dry	1	8/10/2023 9:17:35 PM
Aroclor 1268	ND	0.0215		mg/Kg-dry	1	8/10/2023 9:17:35 PM
Total PCBs	ND	0.0215		mg/Kg-dry	1	8/10/2023 9:17:35 PM
Surr: Decachlorobiphenyl	40.6	5 - 160		%Rec	1	8/10/2023 9:17:35 PM
Surr: Tetrachloro-m-xylene	88.5	57.3 - 159		%Rec	1	8/10/2023 9:17:35 PM

Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Batch ID: 41170 Analyst: AP

Diesel Range Organics	ND	51.7		mg/Kg-dry	1	8/10/2023 8:33:10 PM
Heavy Oil	ND	103		mg/Kg-dry	1	8/10/2023 8:33:10 PM
Total Petroleum Hydrocarbons	ND	155		mg/Kg-dry	1	8/10/2023 8:33:10 PM
Surr: 2-Fluorobiphenyl	101	50 - 150		%Rec	1	8/10/2023 8:33:10 PM
Surr: o-Terphenyl	103	50 - 150		%Rec	1	8/10/2023 8:33:10 PM

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Batch ID: 41173 Analyst: SH

Naphthalene	ND	20.5		µg/Kg-dry	1	8/11/2023 1:11:38 AM
2-Methylnaphthalene	ND	20.5		µg/Kg-dry	1	8/11/2023 1:11:38 AM
1-Methylnaphthalene	ND	20.5		µg/Kg-dry	1	8/11/2023 1:11:38 AM
Acenaphthylene	ND	20.5		µg/Kg-dry	1	8/11/2023 1:11:38 AM
Acenaphthene	ND	20.5		µg/Kg-dry	1	8/11/2023 1:11:38 AM
Fluorene	ND	20.5		µg/Kg-dry	1	8/11/2023 1:11:38 AM
Phenanthrene	ND	20.5		µg/Kg-dry	1	8/11/2023 1:11:38 AM
Anthracene	ND	20.5		µg/Kg-dry	1	8/11/2023 1:11:38 AM
Fluoranthene	ND	20.5		µg/Kg-dry	1	8/11/2023 1:11:38 AM
Pyrene	ND	41.1		µg/Kg-dry	1	8/11/2023 1:11:38 AM
Benz(a)anthracene	ND	20.5		µg/Kg-dry	1	8/11/2023 1:11:38 AM
Chrysene	ND	20.5		µg/Kg-dry	1	8/11/2023 1:11:38 AM
Benzo(b)fluoranthene	ND	25.7		µg/Kg-dry	1	8/11/2023 1:11:38 AM
Benzo(k)fluoranthene	ND	25.7		µg/Kg-dry	1	8/11/2023 1:11:38 AM
Benzo(a)pyrene	ND	30.8		µg/Kg-dry	1	8/11/2023 1:11:38 AM
Indeno(1,2,3-cd)pyrene	ND	41.1		µg/Kg-dry	1	8/11/2023 1:11:38 AM



Analytical Report

Work Order: 2308151
Date Reported: 8/28/2023

Client: GeoEngineers
Project: S Jackson Street
Lab ID: 2308151-012
Client Sample ID: UST4-B-90

Collection Date: 8/9/2023 7:55:00 AM
Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Batch ID: 41173 Analyst: SH

Dibenz(a,h)anthracene	ND	51.3		µg/Kg-dry	1	8/11/2023 1:11:38 AM
Benzo(g,h,i)perylene	ND	51.3		µg/Kg-dry	1	8/11/2023 1:11:38 AM
Surr: 2-Fluorobiphenyl	102	22.2 - 146		%Rec	1	8/11/2023 1:11:38 AM
Surr: Terphenyl-d14 (surr)	121	20.2 - 159		%Rec	1	8/11/2023 1:11:38 AM

Gasoline by NWTPH-Gx

Batch ID: 41166 Analyst: CC

Gasoline Range Organics	ND	5.72		mg/Kg-dry	1	8/14/2023 12:38:41 PM
Surr: Toluene-d8	98.4	65 - 135		%Rec	1	8/14/2023 12:38:41 PM
Surr: 4-Bromofluorobenzene	98.0	65 - 135		%Rec	1	8/14/2023 12:38:41 PM

Volatile Organic Compounds by EPA Method 8260D

Batch ID: 41166 Analyst: KJ

Dichlorodifluoromethane (CFC-12)	ND	0.0172		mg/Kg-dry	1	8/12/2023 9:14:13 PM
Chloromethane	ND	0.0572		mg/Kg-dry	1	8/12/2023 9:14:13 PM
Vinyl chloride	ND	0.0286		mg/Kg-dry	1	8/12/2023 9:14:13 PM
Bromomethane	ND	0.0286		mg/Kg-dry	1	8/12/2023 9:14:13 PM
Trichlorofluoromethane (CFC-11)	ND	0.0229		mg/Kg-dry	1	8/12/2023 9:14:13 PM
Chloroethane	ND	0.0858		mg/Kg-dry	1	8/12/2023 9:14:13 PM
1,1-Dichloroethene	ND	0.114		mg/Kg-dry	1	8/12/2023 9:14:13 PM
Acetone	ND	0.286		mg/Kg-dry	1	8/12/2023 9:14:13 PM
Methylene chloride	ND	0.0400		mg/Kg-dry	1	8/12/2023 9:14:13 PM
trans-1,2-Dichloroethene	ND	0.0114		mg/Kg-dry	1	8/12/2023 9:14:13 PM
Methyl tert-butyl ether (MTBE)	ND	0.0229		mg/Kg-dry	1	8/12/2023 9:14:13 PM
1,1-Dichloroethane	ND	0.0286		mg/Kg-dry	1	8/12/2023 9:14:13 PM
cis-1,2-Dichloroethene	ND	0.0172		mg/Kg-dry	1	8/12/2023 9:14:13 PM
(MEK) 2-Butanone	ND	0.343		mg/Kg-dry	1	8/12/2023 9:14:13 PM
Chloroform	ND	0.0200		mg/Kg-dry	1	8/12/2023 9:14:13 PM
1,1,1-Trichloroethane (TCA)	ND	0.0229		mg/Kg-dry	1	8/12/2023 9:14:13 PM
1,1-Dichloropropene	ND	0.0229		mg/Kg-dry	1	8/12/2023 9:14:13 PM
Carbon tetrachloride	ND	0.0286		mg/Kg-dry	1	8/12/2023 9:14:13 PM
1,2-Dichloroethane (EDC)	ND	0.0229		mg/Kg-dry	1	8/12/2023 9:14:13 PM
Benzene	ND	0.0200		mg/Kg-dry	1	8/12/2023 9:14:13 PM
Trichloroethene (TCE)	ND	0.0172		mg/Kg-dry	1	8/12/2023 9:14:13 PM
1,2-Dichloropropane	ND	0.0286		mg/Kg-dry	1	8/12/2023 9:14:13 PM
Bromodichloromethane	ND	0.0286		mg/Kg-dry	1	8/12/2023 9:14:13 PM
Dibromomethane	ND	0.0143		mg/Kg-dry	1	8/12/2023 9:14:13 PM
cis-1,3-Dichloropropene	ND	0.0172		mg/Kg-dry	1	8/12/2023 9:14:13 PM
Toluene	ND	0.0343		mg/Kg-dry	1	8/12/2023 9:14:13 PM



Analytical Report

Work Order: 2308151
Date Reported: 8/28/2023

Client: GeoEngineers
Project: S Jackson Street
Lab ID: 2308151-012
Client Sample ID: UST4-B-90

Collection Date: 8/9/2023 7:55:00 AM
Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 41166 Analyst: KJ

Trans-1,3-Dichloropropylene	ND	0.0229		mg/Kg-dry	1	8/12/2023 9:14:13 PM
Methyl Isobutyl Ketone (MIBK)	ND	0.0687		mg/Kg-dry	1	8/12/2023 9:14:13 PM
1,1,2-Trichloroethane	ND	0.0143		mg/Kg-dry	1	8/12/2023 9:14:13 PM
1,3-Dichloropropane	ND	0.0114		mg/Kg-dry	1	8/12/2023 9:14:13 PM
Tetrachloroethene (PCE)	ND	0.0172		mg/Kg-dry	1	8/12/2023 9:14:13 PM
Dibromochloromethane	ND	0.0172		mg/Kg-dry	1	8/12/2023 9:14:13 PM
1,2-Dibromoethane (EDB)	ND	0.0114		mg/Kg-dry	1	8/12/2023 9:14:13 PM
2-Hexanone (MBK)	ND	0.0715		mg/Kg-dry	1	8/12/2023 9:14:13 PM
Chlorobenzene	ND	0.0172		mg/Kg-dry	1	8/12/2023 9:14:13 PM
1,1,1,2-Tetrachloroethane	ND	0.0286		mg/Kg-dry	1	8/12/2023 9:14:13 PM
Ethylbenzene	ND	0.0286		mg/Kg-dry	1	8/12/2023 9:14:13 PM
m,p-Xylene	ND	0.0572		mg/Kg-dry	1	8/12/2023 9:14:13 PM
o-Xylene	ND	0.0286		mg/Kg-dry	1	8/12/2023 9:14:13 PM
Styrene	ND	0.0114		mg/Kg-dry	1	8/12/2023 9:14:13 PM
Isopropylbenzene	ND	0.0172		mg/Kg-dry	1	8/12/2023 9:14:13 PM
Bromoform	ND	0.0172		mg/Kg-dry	1	8/12/2023 9:14:13 PM
1,1,2,2-Tetrachloroethane	ND	0.229	Q	mg/Kg-dry	1	8/12/2023 9:14:13 PM
n-Propylbenzene	ND	0.0172		mg/Kg-dry	1	8/12/2023 9:14:13 PM
Bromobenzene	ND	0.0143		mg/Kg-dry	1	8/12/2023 9:14:13 PM
1,3,5-Trimethylbenzene	ND	0.0172		mg/Kg-dry	1	8/12/2023 9:14:13 PM
2-Chlorotoluene	ND	0.0189		mg/Kg-dry	1	8/12/2023 9:14:13 PM
4-Chlorotoluene	ND	0.0189		mg/Kg-dry	1	8/12/2023 9:14:13 PM
tert-Butylbenzene	ND	0.0172		mg/Kg-dry	1	8/12/2023 9:14:13 PM
1,2,3-Trichloropropane	ND	0.0343		mg/Kg-dry	1	8/12/2023 9:14:13 PM
1,2,4-Trichlorobenzene	ND	0.0687		mg/Kg-dry	1	8/12/2023 9:14:13 PM
sec-Butylbenzene	ND	0.172		mg/Kg-dry	1	8/12/2023 9:14:13 PM
4-Isopropyltoluene	ND	0.229		mg/Kg-dry	1	8/12/2023 9:14:13 PM
1,3-Dichlorobenzene	ND	0.0229		mg/Kg-dry	1	8/12/2023 9:14:13 PM
1,4-Dichlorobenzene	ND	0.0172		mg/Kg-dry	1	8/12/2023 9:14:13 PM
n-Butylbenzene	ND	0.0229		mg/Kg-dry	1	8/12/2023 9:14:13 PM
1,2-Dichlorobenzene	ND	0.0229		mg/Kg-dry	1	8/12/2023 9:14:13 PM
1,2-Dibromo-3-chloropropane	ND	0.0343		mg/Kg-dry	1	8/12/2023 9:14:13 PM
1,2,4-Trimethylbenzene	ND	0.0172		mg/Kg-dry	1	8/12/2023 9:14:13 PM
Hexachloro-1,3-butadiene	ND	0.0458		mg/Kg-dry	1	8/12/2023 9:14:13 PM
Naphthalene	ND	0.114		mg/Kg-dry	1	8/12/2023 9:14:13 PM
1,2,3-Trichlorobenzene	ND	0.0687		mg/Kg-dry	1	8/12/2023 9:14:13 PM
Surr: Dibromofluoromethane	97.8	79.5 - 124		%Rec	1	8/12/2023 9:14:13 PM
Surr: Toluene-d8	97.3	77.5 - 124		%Rec	1	8/12/2023 9:14:13 PM
Surr: 1-Bromo-4-fluorobenzene	98.6	60.5 - 139		%Rec	1	8/12/2023 9:14:13 PM



Client: GeoEngineers

Collection Date: 8/9/2023 7:55:00 AM

Project: S Jackson Street

Lab ID: 2308151-012

Matrix: Soil

Client Sample ID: UST4-B-90

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 41166

Analyst: KJ

NOTES:

Q - Associated calibration verification is below acceptance criteria. Result may be low-biased.

Total Metals by EPA Method 6020B

Batch ID: 41172

Analyst: JR

Lead	2.70	0.865		mg/Kg-dry	1	8/11/2023 2:04:00 PM
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Sample Moisture (Percent Moisture)

Batch ID: R85862

Analyst: MP

Percent Moisture	7.83	0.500		wt%	1	8/11/2023 8:39:11 AM
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Work Order: 2308151
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT
Total Metals by EPA Method 6020B

Sample ID: ICB	SampType: ICB	Units: µg/L	Prep Date: 8/11/2023	RunNo: 85882							
Client ID: ICB	Batch ID: 41172	Analysis Date: 8/11/2023	SeqNo: 1792253								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead ND 1.00

Sample ID: ICV	SampType: ICV	Units: µg/L	Prep Date: 8/11/2023	RunNo: 85882							
Client ID: ICV	Batch ID: 41172	Analysis Date: 8/11/2023	SeqNo: 1792234								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 51.3 1.00 50.00 0 103 90 110

Sample ID: CCV-41172A	SampType: CCV	Units: µg/L	Prep Date: 8/11/2023	RunNo: 85882							
Client ID: CCV	Batch ID: 41172	Analysis Date: 8/11/2023	SeqNo: 1792236								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 52.7 1.00 50.00 0 105 90 110

Sample ID: CCB-41172A	SampType: CCB	Units: µg/L	Prep Date: 8/11/2023	RunNo: 85882							
Client ID: CCB	Batch ID: 41172	Analysis Date: 8/11/2023	SeqNo: 1792237								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead ND 1.00

Sample ID: MB-41172	SampType: MBLK	Units: mg/Kg	Prep Date: 8/10/2023	RunNo: 85882							
Client ID: MBLKS	Batch ID: 41172	Analysis Date: 8/11/2023	SeqNo: 1792210								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead ND 1.00

Work Order: 2308151
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT
Total Metals by EPA Method 6020B

Sample ID: 2308095-013AMS	SampType: MS	Units: mg/Kg-dry	Prep Date: 8/10/2023	RunNo: 85882							
Client ID: BATCH	Batch ID: 41172	Analysis Date: 8/11/2023	SeqNo: 1792214								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	148	0.820	20.51	172.8	-123	75	125				SE

NOTES:

S - Spiked amount was low relative to sample concentration. Outlying spike recoveries may be expected.

Sample ID: 2308095-013AMSD	SampType: MSD	Units: mg/Kg-dry	Prep Date: 8/10/2023	RunNo: 85882							
Client ID: BATCH	Batch ID: 41172	Analysis Date: 8/11/2023	SeqNo: 1792215								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	164	0.845	21.13	172.8	-39.8	75	125	147.6	10.8	20	SE

NOTES:

S/R - Spiked amount was low relative to sample concentration. Outlying spike recoveries may be expected. High RPD observed.

Sample ID: CCV-41172B	SampType: CCV	Units: µg/L	Prep Date: 8/11/2023	RunNo: 85882							
Client ID: CCV	Batch ID: 41172	Analysis Date: 8/11/2023	SeqNo: 1792218								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	52.3	1.00	50.00	0	105	90	110				

Sample ID: CCB-41172B	SampType: CCB	Units: µg/L	Prep Date: 8/11/2023	RunNo: 85882							
Client ID: CCB	Batch ID: 41172	Analysis Date: 8/11/2023	SeqNo: 1792219								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	1.00									

Sample ID: CCV-41172C	SampType: CCV	Units: µg/L	Prep Date: 8/11/2023	RunNo: 85882							
Client ID: CCV	Batch ID: 41172	Analysis Date: 8/11/2023	SeqNo: 1792230								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	53.3	1.00	50.00	0	107	90	110				

Work Order: 2308151
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT
Total Metals by EPA Method 6020B

Sample ID: CCB-41172C	SampType: CCB	Units: µg/L	Prep Date: 8/11/2023	RunNo: 85882							
Client ID: CCB	Batch ID: 41172	Analysis Date: 8/11/2023	SeqNo: 1792231								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	1.00									

Sample ID: CCV-41172D	SampType: CCV	Units: µg/L	Prep Date: 8/11/2023	RunNo: 85882							
Client ID: CCV	Batch ID: 41172	Analysis Date: 8/11/2023	SeqNo: 1792243								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	53.3	1.00	50.00	0	107	90	110				

Sample ID: CCB-41172D	SampType: CCB	Units: µg/L	Prep Date: 8/11/2023	RunNo: 85882							
Client ID: CCB	Batch ID: 41172	Analysis Date: 8/11/2023	SeqNo: 1792244								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	1.00									

Sample ID: CCV-41172E	SampType: CCV	Units: µg/L	Prep Date: 8/11/2023	RunNo: 85882							
Client ID: CCV	Batch ID: 41172	Analysis Date: 8/11/2023	SeqNo: 1792259								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	53.8	1.00	50.00	0	108	90	110				

Sample ID: CCB-41172E	SampType: CCB	Units: µg/L	Prep Date: 8/11/2023	RunNo: 85882							
Client ID: CCB	Batch ID: 41172	Analysis Date: 8/11/2023	SeqNo: 1792260								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	1.00									

Work Order: 2308151
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT
Total Metals by EPA Method 6020B

Sample ID: CCV-41172F	SampType: CCV	Units: µg/L	Prep Date: 8/11/2023	RunNo: 85882							
Client ID: CCV	Batch ID: 41172	Analysis Date: 8/11/2023	SeqNo: 1792273								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	52.4	1.00	50.00	0	105	90	110				

Sample ID: CCB-41172F	SampType: CCB	Units: µg/L	Prep Date: 8/11/2023	RunNo: 85882							
Client ID: CCB	Batch ID: 41172	Analysis Date: 8/11/2023	SeqNo: 1792274								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	1.00									

Sample ID: ICB	SampType: ICB	Units: µg/L	Prep Date: 8/14/2023	RunNo: 85882							
Client ID: ICB	Batch ID: 41172	Analysis Date: 8/14/2023	SeqNo: 1792788								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	1.00									

Sample ID: ICB	SampType: ICB	Units: µg/L	Prep Date: 8/14/2023	RunNo: 85906							
Client ID: ICB	Batch ID: 41192	Analysis Date: 8/14/2023	SeqNo: 1792832								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	1.00									

Sample ID: ICV	SampType: ICV	Units: µg/L	Prep Date: 8/14/2023	RunNo: 85882							
Client ID: ICV	Batch ID: 41172	Analysis Date: 8/14/2023	SeqNo: 1792789								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	49.3	1.00	50.00	0	98.6	90	110				

Work Order: 2308151
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT
Total Metals by EPA Method 6020B

Sample ID: ICV	SampType: ICV	Units: µg/L				Prep Date: 8/14/2023	RunNo: 85906				
Client ID: ICV	Batch ID: 41192					Analysis Date: 8/14/2023	SeqNo: 1792833				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	49.3	1.00	50.00	0	98.6	90	110				

Sample ID: LCS-41172	SampType: LCS	Units: mg/Kg				Prep Date: 8/10/2023	RunNo: 85882				
Client ID: LCSS	Batch ID: 41172					Analysis Date: 8/14/2023	SeqNo: 1792813				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	26.6	1.00	25.00	0	106	80	120				

Sample ID: CCV-41172G	SampType: CCV	Units: µg/L				Prep Date: 8/14/2023	RunNo: 85882				
Client ID: CCV	Batch ID: 41172					Analysis Date: 8/14/2023	SeqNo: 1792800				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	53.8	1.00	50.00	0	108	90	110				

Sample ID: CCV-41192A	SampType: CCV	Units: µg/L				Prep Date: 8/14/2023	RunNo: 85906				
Client ID: CCV	Batch ID: 41192					Analysis Date: 8/14/2023	SeqNo: 1792843				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	53.8	1.00	50.00	0	108	90	110				

Sample ID: CCB-41172G	SampType: CCB	Units: µg/L				Prep Date: 8/14/2023	RunNo: 85882				
Client ID: CCB	Batch ID: 41172					Analysis Date: 8/14/2023	SeqNo: 1792801				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	1.00									

Work Order: 2308151
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT
Total Metals by EPA Method 6020B

Sample ID: CCB-41192A	SampType: CCB	Units: µg/L	Prep Date: 8/14/2023	RunNo: 85906							
Client ID: CCB	Batch ID: 41192		Analysis Date: 8/14/2023	SeqNo: 1792844							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	ND	1.00									
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Sample ID: MB-41192	SampType: MBLK	Units: mg/Kg	Prep Date: 8/14/2023	RunNo: 85906							
Client ID: MBLKS	Batch ID: 41192		Analysis Date: 8/14/2023	SeqNo: 1792845							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	ND	1.00									
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Sample ID: LCS-41192	SampType: LCS	Units: mg/Kg	Prep Date: 8/14/2023	RunNo: 85906							
Client ID: LCSS	Batch ID: 41192		Analysis Date: 8/14/2023	SeqNo: 1792846							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	2.18	0.794	1.984	0	110	80	120				
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Sample ID: 2308151-006AMS	SampType: MS	Units: mg/Kg-dry	Prep Date: 8/14/2023	RunNo: 85906							
Client ID: UST3-NSW-93	Batch ID: 41192		Analysis Date: 8/14/2023	SeqNo: 1792849							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	9.76	1.03	2.583	5.529	164	75	125				S
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NOTES:

S - Spiked amount was low relative to sample concentration. Outlying spike recoveries may be expected.

Sample ID: 2308151-006AMSD	SampType: MSD	Units: mg/Kg-dry	Prep Date: 8/14/2023	RunNo: 85906							
Client ID: UST3-NSW-93	Batch ID: 41192		Analysis Date: 8/14/2023	SeqNo: 1792850							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	9.12	1.03	2.583	5.529	139	75	125	9.756	6.74	20	S
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NOTES:

S - Spiked amount was low relative to sample concentration. Outlying spike recoveries may be expected.

Work Order: 2308151
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT
Total Metals by EPA Method 6020B

Sample ID: CCV-41192B	SampType: CCV	Units: µg/L	Prep Date: 8/14/2023	RunNo: 85906							
Client ID: CCV	Batch ID: 41192	Analysis Date: 8/14/2023	SeqNo: 1792854								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	51.9	1.00	50.00	0	104	90	110				
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Sample ID: CCB-41192B	SampType: CCB	Units: µg/L	Prep Date: 8/14/2023	RunNo: 85906							
Client ID: CCB	Batch ID: 41192	Analysis Date: 8/14/2023	SeqNo: 1792855								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	ND	1.00									
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Sample ID: CCV-41192C	SampType: CCV	Units: µg/L	Prep Date: 8/14/2023	RunNo: 85906							
Client ID: CCV	Batch ID: 41192	Analysis Date: 8/14/2023	SeqNo: 1792859								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	53.1	1.00	50.00	0	106	90	110				
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Sample ID: CCB-41192C	SampType: CCB	Units: µg/L	Prep Date: 8/14/2023	RunNo: 85906							
Client ID: CCB	Batch ID: 41192	Analysis Date: 8/14/2023	SeqNo: 1792860								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	ND	1.00									
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Sample ID: CCV-41192D	SampType: CCV	Units: µg/L	Prep Date: 8/14/2023	RunNo: 85906							
Client ID: CCV	Batch ID: 41192	Analysis Date: 8/14/2023	SeqNo: 1792864								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	54.7	1.00	50.00	0	109	90	110				
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Work Order: 2308151
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT
Total Metals by EPA Method 6020B

Sample ID: CCB-41192D	SampType: CCB	Units: µg/L	Prep Date: 8/14/2023	RunNo: 85906							
Client ID: CCB	Batch ID: 41192	Analysis Date: 8/14/2023	SeqNo: 1792865								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	ND	1.00									
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Sample ID: CCV-41192E	SampType: CCV	Units: µg/L	Prep Date: 8/14/2023	RunNo: 85906							
Client ID: CCV	Batch ID: 41192	Analysis Date: 8/14/2023	SeqNo: 1792966								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	53.6	1.00	50.00	0	107	90	110				
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Sample ID: CCB-41192E	SampType: CCB	Units: µg/L	Prep Date: 8/14/2023	RunNo: 85906							
Client ID: CCB	Batch ID: 41192	Analysis Date: 8/14/2023	SeqNo: 1792967								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	ND	1.00									
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Sample ID: ICB	SampType: ICB	Units: µg/L	Prep Date: 8/23/2023	RunNo: 86088							
Client ID: ICB	Batch ID: 41271	Analysis Date: 8/23/2023	SeqNo: 1796379								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	ND	1.00									
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Sample ID: ICV	SampType: ICV	Units: µg/L	Prep Date: 8/23/2023	RunNo: 86088							
Client ID: ICV	Batch ID: 41271	Analysis Date: 8/23/2023	SeqNo: 1796380								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	51.4	1.00	50.00	0	103	90	110				
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Work Order: 2308151
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT
Total Metals by EPA Method 6020B

Sample ID: MB-41271	SampType: MBLK	Units: mg/Kg	Prep Date: 8/22/2023	RunNo: 86088							
Client ID: MBLKS	Batch ID: 41271	Analysis Date: 8/23/2023	SeqNo: 1796352								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	1.00									

Sample ID: LCS-41271	SampType: LCS	Units: mg/Kg	Prep Date: 8/22/2023	RunNo: 86088							
Client ID: LCSS	Batch ID: 41271	Analysis Date: 8/23/2023	SeqNo: 1796353								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	23.3	0.800	20.00	0	116	80	120				

Sample ID: CCV-41271A	SampType: CCV	Units: µg/L	Prep Date: 8/23/2023	RunNo: 86088							
Client ID: CCV	Batch ID: 41271	Analysis Date: 8/23/2023	SeqNo: 1796356								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	55.0	1.00	50.00	0	110	90	110				

Sample ID: CCB-41271A	SampType: CCB	Units: µg/L	Prep Date: 8/23/2023	RunNo: 86088							
Client ID: CCB	Batch ID: 41271	Analysis Date: 8/23/2023	SeqNo: 1796357								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	1.00									

Sample ID: 2308276-002AMS	SampType: MS	Units: mg/Kg-dry	Prep Date: 8/22/2023	RunNo: 86088							
Client ID: BATCH	Batch ID: 41271	Analysis Date: 8/23/2023	SeqNo: 1796358								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	25.4	0.923	23.07	1.666	103	75	125				

Work Order: 2308151
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT
Total Metals by EPA Method 6020B

Sample ID: 2308276-002AMSD	SampType: MSD	Units: mg/Kg-dry	Prep Date: 8/22/2023	RunNo: 86088							
Client ID: BATCH	Batch ID: 41271	Analysis Date: 8/23/2023	SeqNo: 1796359								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	23.3	0.878	21.96	1.666	98.5	75	125	25.36	8.52	20	

Sample ID: CCV-41271B	SampType: CCV	Units: µg/L	Prep Date: 8/23/2023	RunNo: 86088							
Client ID: CCV	Batch ID: 41271	Analysis Date: 8/23/2023	SeqNo: 1796368								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	54.9	1.00	50.00	0	110	90	110				

Sample ID: CCB-41271B	SampType: CCB	Units: µg/L	Prep Date: 8/23/2023	RunNo: 86088							
Client ID: CCB	Batch ID: 41271	Analysis Date: 8/23/2023	SeqNo: 1796369								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	1.00									

Sample ID: CCV-41271C	SampType: CCV	Units: µg/L	Prep Date: 8/23/2023	RunNo: 86088							
Client ID: CCV	Batch ID: 41271	Analysis Date: 8/23/2023	SeqNo: 1796392								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	54.1	1.00	50.00	0	108	90	110				

Sample ID: CCB-41271C	SampType: CCB	Units: µg/L	Prep Date: 8/23/2023	RunNo: 86088							
Client ID: CCB	Batch ID: 41271	Analysis Date: 8/23/2023	SeqNo: 1796393								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	1.00									

Work Order: 2308151
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT
Total Metals by EPA Method 6020B

Sample ID: CCV-41271D	SampType: CCV	Units: µg/L	Prep Date: 8/23/2023	RunNo: 86088							
Client ID: CCV	Batch ID: 41271	Analysis Date: 8/23/2023	SeqNo: 1796396								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	55.0	1.00	50.00	0	110	90	110				
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Sample ID: CCB-41271D	SampType: CCB	Units: µg/L	Prep Date: 8/23/2023	RunNo: 86088							
Client ID: CCB	Batch ID: 41271	Analysis Date: 8/23/2023	SeqNo: 1796397								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	ND	1.00									
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Sample ID: CCV	SampType: CCV	Units: µg/L	Prep Date: 8/23/2023	RunNo: 86088							
Client ID: CCV	Batch ID: 41271	Analysis Date: 8/23/2023	SeqNo: 1796565								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	54.8	1.00	50.00	0	110	90	110				
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Sample ID: CCB	SampType: CCB	Units: µg/L	Prep Date: 8/23/2023	RunNo: 86088							
Client ID: CCB	Batch ID: 41271	Analysis Date: 8/23/2023	SeqNo: 1796566								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	ND	1.00									
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Sample ID: CCV	SampType: CCV	Units: µg/L	Prep Date: 8/23/2023	RunNo: 86088							
Client ID: CCV	Batch ID: 41271	Analysis Date: 8/23/2023	SeqNo: 1796569								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	52.7	1.00	50.00	0	105	90	110				
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Work Order: 2308151
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT
Total Metals by EPA Method 6020B

Sample ID: CCB	SampType: CCB	Units: µg/L	Prep Date: 8/23/2023	RunNo: 86088							
Client ID: CCB	Batch ID: 41271	Analysis Date: 8/23/2023	SeqNo: 1796570								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	ND	1.00									
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Work Order: 2308151
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT

Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Sample ID: HO ICV	SampType: ICV	Units: mg/Kg				Prep Date: 7/27/2023	RunNo: 85547				
Client ID: ICV	Batch ID: 41170					Analysis Date: 7/27/2023	SeqNo: 1784893				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Heavy Oil	515	100	500.0	0	103	70	130				
Surr: 2-Fluorobiphenyl	10.5		10.00		105	50	150				
Surr: o-Terphenyl	10.8		10.00		108	50	150				

Sample ID: HO ICB	SampType: ICB	Units: mg/Kg				Prep Date: 7/27/2023	RunNo: 85547				
Client ID: ICB	Batch ID: 41170					Analysis Date: 7/27/2023	SeqNo: 1784901				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Heavy Oil	ND	100									
Surr: 2-Fluorobiphenyl	9.91		10.00		99.1	50	150				
Surr: o-Terphenyl	9.84		10.00		98.4	50	150				

Sample ID: DX ICB	SampType: ICB	Units: mg/Kg				Prep Date: 7/27/2023	RunNo: 85547				
Client ID: ICB	Batch ID: 41170					Analysis Date: 7/27/2023	SeqNo: 1784903				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel Range Organics	ND	50.0									
Surr: 2-Fluorobiphenyl	10.0		10.00		100	50	150				
Surr: o-Terphenyl	10.0		10.00		100	50	150				

Sample ID: DX ICV	SampType: ICV	Units: mg/Kg				Prep Date: 7/27/2023	RunNo: 85547				
Client ID: ICV	Batch ID: 41170					Analysis Date: 7/27/2023	SeqNo: 1784904				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel Range Organics	479	50.0	500.0	0	95.8	70	130				
Surr: 2-Fluorobiphenyl	10.5		10.00		105	50	150				
Surr: o-Terphenyl	11.0		10.00		110	50	150				

Work Order: 2308151
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT

Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Sample ID: OIL-CCV-41170A	SampType: CCV	Units: mg/Kg	Prep Date: 8/10/2023	RunNo: 85867							
Client ID: CCV	Batch ID: 41170		Analysis Date: 8/10/2023	SeqNo: 1791934							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Heavy Oil	477	100	500.0	0	95.5	85	115				
Surr: 2-Fluorobiphenyl	10.8		10.00		108	50	150				
Surr: o-Terphenyl	11.2		10.00		112	50	150				

Sample ID: DX-CCV-41170A	SampType: CCV	Units: mg/Kg	Prep Date: 8/10/2023	RunNo: 85867							
Client ID: CCV	Batch ID: 41170		Analysis Date: 8/10/2023	SeqNo: 1791935							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel Range Organics	484	50.0	500.0	0	96.7	85	115				
Surr: 2-Fluorobiphenyl	10.6		10.00		106	50	150				
Surr: o-Terphenyl	13.1		10.00		131	50	150				

Sample ID: MB-41170	SampType: MBLK	Units: mg/Kg	Prep Date: 8/10/2023	RunNo: 85867							
Client ID: MBLKS	Batch ID: 41170		Analysis Date: 8/10/2023	SeqNo: 1791936							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel Range Organics	ND	50.0									
Heavy Oil	ND	100									
Total Petroleum Hydrocarbons	ND	150									
Surr: 2-Fluorobiphenyl	10.4		10.00		104	50	150				
Surr: o-Terphenyl	10.6		10.00		106	50	150				

Sample ID: LCS-41170	SampType: LCS	Units: mg/Kg	Prep Date: 8/10/2023	RunNo: 85867							
Client ID: LCSS	Batch ID: 41170		Analysis Date: 8/10/2023	SeqNo: 1791937							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Total Petroleum Hydrocarbons	520	150	500.0	0	104	76.8	124				
Surr: 2-Fluorobiphenyl	9.23		10.00		92.3	50	150				
Surr: o-Terphenyl	12.0		10.00		120	50	150				

Work Order: 2308151
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT

Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Sample ID: 2308151-002ADUP	SampType: DUP	Units: mg/Kg-dry	Prep Date: 8/10/2023	RunNo: 85867							
Client ID: UST2-NSW-93	Batch ID: 41170		Analysis Date: 8/10/2023	SeqNo: 1791941							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel Range Organics	ND	57.0						0		30	
Heavy Oil	ND	114						0		30	
Total Petroleum Hydrocarbons	ND	171						0		30	
Surr: 2-Fluorobiphenyl	11.8		11.39		104	50	150		0		
Surr: o-Terphenyl	11.9		11.39		105	50	150		0		

Sample ID: OIL-CCV-41170B	SampType: CCV	Units: mg/Kg	Prep Date: 8/10/2023	RunNo: 85867							
Client ID: CCV	Batch ID: 41170		Analysis Date: 8/10/2023	SeqNo: 1791947							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Heavy Oil	499	100	500.0	0	99.7	85	115				
Surr: 2-Fluorobiphenyl	10.8		10.00		108	50	150				
Surr: o-Terphenyl	11.3		10.00		113	50	150				

Sample ID: DX-CCV-41170B	SampType: CCV	Units: mg/Kg	Prep Date: 8/10/2023	RunNo: 85867							
Client ID: CCV	Batch ID: 41170		Analysis Date: 8/10/2023	SeqNo: 1791948							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel Range Organics	488	50.0	500.0	0	97.6	85	115				
Surr: 2-Fluorobiphenyl	11.1		10.00		111	50	150				
Surr: o-Terphenyl	13.1		10.00		131	50	150				

Sample ID: 2308139-001AMS	SampType: MS	Units: mg/Kg-dry	Prep Date: 8/10/2023	RunNo: 85867							
Client ID: BATCH	Batch ID: 41170		Analysis Date: 8/10/2023	SeqNo: 1791957							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Total Petroleum Hydrocarbons	561	157	524.1	54.61	96.6	21.8	165				
Surr: 2-Fluorobiphenyl	9.11		10.48		86.9	50	150				
Surr: o-Terphenyl	12.5		10.48		119	50	150				

Work Order: 2308151
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT

Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Sample ID: 2308139-001AMSD		SampType: MSD		Units: mg/Kg-dry		Prep Date: 8/10/2023		RunNo: 85867			
Client ID: BATCH		Batch ID: 41170				Analysis Date: 8/10/2023		SeqNo: 1791958			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Petroleum Hydrocarbons	578	157	524.1	54.61	99.9	21.8	165	561.0	2.99	30	
Surr: 2-Fluorobiphenyl	9.46		10.48		90.2	50	150		0		
Surr: o-Terphenyl	12.5		10.48		120	50	150		0		

Sample ID: OIL-CCV-41170C		SampType: CCV		Units: mg/Kg		Prep Date: 8/10/2023		RunNo: 85867			
Client ID: CCV		Batch ID: 41170				Analysis Date: 8/10/2023		SeqNo: 1791959			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Heavy Oil	500	100	500.0	0	100	85	115				
Surr: 2-Fluorobiphenyl	10.9		10.00		109	50	150				
Surr: o-Terphenyl	11.3		10.00		113	50	150				

Sample ID: DX-CCV-41170C		SampType: CCV		Units: mg/Kg		Prep Date: 8/10/2023		RunNo: 85867			
Client ID: CCV		Batch ID: 41170				Analysis Date: 8/10/2023		SeqNo: 1791963			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics	496	50.0	500.0	0	99.1	85	115				
Surr: 2-Fluorobiphenyl	11.3		10.00		113	50	150				
Surr: o-Terphenyl	13.5		10.00		135	50	150				

Sample ID: OIL-CCV-41170D		SampType: CCV		Units: mg/Kg		Prep Date: 8/11/2023		RunNo: 85867			
Client ID: CCV		Batch ID: 41170				Analysis Date: 8/11/2023		SeqNo: 1791967			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Heavy Oil	540	100	500.0	0	108	85	115				
Surr: 2-Fluorobiphenyl	12.0		10.00		120	50	150				
Surr: o-Terphenyl	12.6		10.00		126	50	150				

Work Order: 2308151
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT
Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Sample ID: DX-CCV-41170D		SampType: CCV		Units: mg/Kg		Prep Date: 8/11/2023		RunNo: 85867			
Client ID: CCV		Batch ID: 41170				Analysis Date: 8/11/2023		SeqNo: 1791971			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics	551	50.0	500.0	0	110	85	115				
Surr: 2-Fluorobiphenyl	10.4		10.00		104	50	150				
Surr: o-Terphenyl	14.1		10.00		141	50	150				

Sample ID: OIL-CCV-41170E		SampType: CCV		Units: mg/Kg		Prep Date: 8/11/2023		RunNo: 85867			
Client ID: CCV		Batch ID: 41170				Analysis Date: 8/11/2023		SeqNo: 1791976			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Heavy Oil	466	100	500.0	0	93.2	85	115				
Surr: 2-Fluorobiphenyl	10.6		10.00		106	50	150				
Surr: o-Terphenyl	11.0		10.00		110	50	150				

Sample ID: DX-CCV-41170E		SampType: CCV		Units: mg/Kg		Prep Date: 8/11/2023		RunNo: 85867			
Client ID: CCV		Batch ID: 41170				Analysis Date: 8/11/2023		SeqNo: 1791977			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics	493	50.0	500.0	0	98.7	85	115				
Surr: 2-Fluorobiphenyl	10.5		10.00		105	50	150				
Surr: o-Terphenyl	12.7		10.00		127	50	150				

Work Order: 2308151
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Sample ID: PAH ICV	SampType: ICV	Units: µg/L	Prep Date: 7/26/2023	RunNo: 85526							
Client ID: ICV	Batch ID: 41173		Analysis Date: 7/26/2023	SeqNo: 1784513							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	1,200	0.100	1,000	0	120	70	130				
2-Methylnaphthalene	1,120	0.100	1,000	0	112	70	130				
1-Methylnaphthalene	1,170	0.100	1,000	0	117	70	130				
Acenaphthene	1,190	0.100	1,000	0	119	70	130				
Acenaphthylene	1,100	0.100	1,000	0	110	70	130				
Fluorene	1,140	0.100	1,000	0	114	70	130				
Phenanthrene	1,140	0.100	1,000	0	114	70	130				
Anthracene	1,130	0.100	1,000	0	113	70	130				
Fluoranthene	1,170	0.100	1,000	0	117	70	130				
Pyrene	1,130	0.200	1,000	0	113	70	130				
Benz(a)anthracene	1,070	0.100	1,000	0	107	70	130				
Chrysene	1,140	0.100	1,000	0	114	70	130				
Benzo(b)fluoranthene	1,120	0.100	1,000	0	112	70	130				
Benzo(k)fluoranthene	1,150	0.100	1,000	0	115	70	130				
Benzo(a)pyrene	1,160	0.100	1,000	0	116	70	130				
Indeno(1,2,3-cd)pyrene	1,120	0.100	1,000	0	112	70	130				
Dibenz(a,h)anthracene	1,120	0.100	1,000	0	112	70	130				
Benzo(g,h,i)perylene	1,110	0.100	1,000	0	111	70	130				
Surr: 2-Fluorobiphenyl	504		500.0		101	70.2	145				
Surr: Terphenyl-d14	542		500.0		108	71.3	142				

Sample ID: PAH ICB	SampType: ICB	Units: µg/L	Prep Date: 7/26/2023	RunNo: 85526							
Client ID: ICB	Batch ID: 41173		Analysis Date: 7/26/2023	SeqNo: 1784514							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	ND	0.100									
2-Methylnaphthalene	0.174	0.100									
1-Methylnaphthalene	ND	0.100									
Acenaphthene	0.438	0.100									
Acenaphthylene	0.317	0.100									
Fluorene	0.497	0.100									

Work Order: 2308151
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Sample ID: PAH ICB	SampType: ICB	Units: µg/L	Prep Date: 7/26/2023	RunNo: 85526							
Client ID: ICB	Batch ID: 41173		Analysis Date: 7/26/2023	SeqNo: 1784514							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenanthrene	0.606	0.100									
Anthracene	0.587	0.100									
Fluoranthene	0.747	0.100									
Pyrene	0.818	0.200									
Benz(a)anthracene	ND	0.100									
Chrysene	0.846	0.100									
Benzo(b)fluoranthene	0.814	0.100									
Benzo(k)fluoranthene	0.712	0.100									
Benzo(a)pyrene	ND	0.100									
Indeno(1,2,3-cd)pyrene	0.936	0.100									
Dibenz(a,h)anthracene	ND	0.100									
Benzo(g,h,i)perylene	0.914	0.100									
Surr: 2-Fluorobiphenyl	428		500.0		85.7	72.7	131				
Surr: Terphenyl-d14	458		500.0		91.5	74.6	134				

Sample ID: CCV-41173A	SampType: CCV	Units: µg/L	Prep Date: 8/10/2023	RunNo: 85910							
Client ID: CCV	Batch ID: 41173		Analysis Date: 8/10/2023	SeqNo: 1793000							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	1,010	20.0	1,000	0	101	80	120				
2-Methylnaphthalene	936	20.0	1,000	0	93.6	80	120				
1-Methylnaphthalene	971	20.0	1,000	0	97.1	80	120				
Acenaphthylene	922	20.0	1,000	0	92.2	80	120				
Acenaphthene	1,020	20.0	1,000	0	102	80	120				
Fluorene	961	20.0	1,000	0	96.1	80	120				
Phenanthrene	961	20.0	1,000	0	96.1	80	120				
Anthracene	968	20.0	1,000	0	96.8	80	120				
Fluoranthene	1,030	20.0	1,000	0	103	80	120				
Pyrene	996	40.0	1,000	0	99.6	80	120				
Benz(a)anthracene	981	20.0	1,000	0	98.1	80	120				
Chrysene	983	20.0	1,000	0	98.3	80	120				

Work Order: 2308151
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Sample ID: CCV-41173A	SampType: CCV	Units: µg/L			Prep Date: 8/10/2023	RunNo: 85910					
Client ID: CCV	Batch ID: 41173				Analysis Date: 8/10/2023	SeqNo: 1793000					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(b)fluoranthene	967	25.0	1,000	0	96.7	80	120				
Benzo(k)fluoranthene	978	25.0	1,000	0	97.8	80	120				
Benzo(a)pyrene	1,020	30.0	1,000	0	102	80	120				
Indeno(1,2,3-cd)pyrene	943	40.0	1,000	0	94.3	80	120				
Dibenz(a,h)anthracene	941	50.0	1,000	0	94.1	80	120				
Benzo(g,h,i)perylene	937	50.0	1,000	0	93.7	80	120				
Surr: 2-Fluorobiphenyl	487		500.0		97.4	69.5	150				
Surr: Terphenyl-d14 (surr)	535		500.0		107	71.6	145				

Sample ID: MB-41173	SampType: MBLK	Units: µg/Kg			Prep Date: 8/10/2023	RunNo: 85910					
Client ID: MBLKS	Batch ID: 41173				Analysis Date: 8/10/2023	SeqNo: 1793001					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	ND	20.0									
2-Methylnaphthalene	ND	20.0									
1-Methylnaphthalene	ND	20.0									
Acenaphthylene	ND	20.0									
Acenaphthene	ND	20.0									
Fluorene	ND	20.0									
Phenanthrene	ND	20.0									
Anthracene	ND	20.0									
Fluoranthene	ND	20.0									
Pyrene	ND	40.0									
Benz(a)anthracene	ND	20.0									
Chrysene	ND	20.0									
Benzo(b)fluoranthene	ND	25.0									
Benzo(k)fluoranthene	ND	25.0									
Benzo(a)pyrene	ND	30.0									
Indeno(1,2,3-cd)pyrene	ND	40.0									
Dibenz(a,h)anthracene	ND	50.0									
Benzo(g,h,i)perylene	ND	50.0									

Work Order: 2308151
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Sample ID: MB-41173	SampType: MBLK	Units: µg/Kg	Prep Date: 8/10/2023	RunNo: 85910							
Client ID: MBLKS	Batch ID: 41173		Analysis Date: 8/10/2023	SeqNo: 1793001							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 2-Fluorobiphenyl	1,020		1,000		102	22.2	146				
Surr: Terphenyl-d14 (surr)	1,220		1,000		122	20.2	159				

Sample ID: LCS-41173	SampType: LCS	Units: µg/Kg	Prep Date: 8/10/2023	RunNo: 85910							
Client ID: LCSS	Batch ID: 41173		Analysis Date: 8/10/2023	SeqNo: 1793002							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	2,090	20.0	2,000	0	104	59.3	114				
2-Methylnaphthalene	1,980	20.0	2,000	0	99.2	55.5	115				
1-Methylnaphthalene	2,020	20.0	2,000	0	101	57.2	116				
Acenaphthylene	2,040	20.0	2,000	0	102	58.2	120				
Acenaphthene	2,140	20.0	2,000	0	107	56.6	114				
Fluorene	2,080	20.0	2,000	0	104	57.7	117				
Phenanthrene	2,090	20.0	2,000	0	104	53.2	118				
Anthracene	2,170	20.0	2,000	0	109	54.7	118				
Fluoranthene	2,330	20.0	2,000	0	117	56	120				
Pyrene	2,280	40.0	2,000	0	114	56.9	120				
Benz(a)anthracene	2,240	20.0	2,000	0	112	59.5	123				
Chrysene	2,290	20.0	2,000	0	115	51.5	115				
Benzo(b)fluoranthene	2,200	25.0	2,000	0	110	50	122				
Benzo(k)fluoranthene	2,270	25.0	2,000	0	113	51	117				
Benzo(a)pyrene	2,470	30.0	2,000	0	124	53.2	123				S
Indeno(1,2,3-cd)pyrene	2,110	40.0	2,000	0	105	49.5	122				
Dibenz(a,h)anthracene	2,130	50.0	2,000	0	106	51	120				
Benzo(g,h,i)perylene	2,080	50.0	2,000	0	104	46.8	122				
Surr: 2-Fluorobiphenyl	1,180		1,000		118	22.2	146				
Surr: Terphenyl-d14 (surr)	1,370		1,000		137	20.2	159				

NOTES:

S - Outlying spike recovery observed (high bias). Samples are non-detect; result meets QC requirements.

Work Order: 2308151
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Sample ID: 2308151-012AMS	SampType: MS	Units: µg/Kg-dry			Prep Date: 8/10/2023	RunNo: 85910					
Client ID: UST4-B-90	Batch ID: 41173				Analysis Date: 8/11/2023	SeqNo: 1793008					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	2,250	20.5	2,049	0	110	48.9	121				
2-Methylnaphthalene	2,120	20.5	2,049	0	103	45.9	118				
1-Methylnaphthalene	2,160	20.5	2,049	0	106	48.5	121				
Acenaphthylene	2,210	20.5	2,049	0	108	49.2	126				
Acenaphthene	2,290	20.5	2,049	0	112	46	122				
Fluorene	2,250	20.5	2,049	0	110	49	123				
Phenanthrene	2,250	20.5	2,049	0	110	40.5	126				
Anthracene	2,350	20.5	2,049	0	115	46.3	124				
Fluoranthene	2,510	20.5	2,049	0	123	49.1	129				
Pyrene	2,450	41.0	2,049	0	119	48.8	130				
Benz(a)anthracene	2,390	20.5	2,049	0	117	53.9	130				
Chrysene	2,430	20.5	2,049	0	118	41.2	126				
Benzo(b)fluoranthene	2,370	25.6	2,049	0	116	37.2	132				
Benzo(k)fluoranthene	2,420	25.6	2,049	0	118	32.8	131				
Benzo(a)pyrene	2,660	30.7	2,049	0	130	28.8	145				
Indeno(1,2,3-cd)pyrene	2,250	41.0	2,049	0	110	3.36	151				
Dibenz(a,h)anthracene	2,270	51.2	2,049	0	111	6.99	152				
Benzo(g,h,i)perylene	2,220	51.2	2,049	0	108	5.86	143				
Surr: 2-Fluorobiphenyl	1,210		1,025		119	22.2	146				
Surr: Terphenyl-d14 (surr)	1,420		1,025		138	20.2	159				

Sample ID: 2308151-012AMSD	SampType: MSD	Units: µg/Kg-dry			Prep Date: 8/10/2023	RunNo: 85910					
Client ID: UST4-B-90	Batch ID: 41173				Analysis Date: 8/11/2023	SeqNo: 1793009					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	2,210	20.5	2,049	0	108	48.9	121	2,249	1.58	30	
2-Methylnaphthalene	2,090	20.5	2,049	0	102	45.9	118	2,120	1.27	30	
1-Methylnaphthalene	2,130	20.5	2,049	0	104	48.5	121	2,162	1.26	30	
Acenaphthylene	2,170	20.5	2,049	0	106	49.2	126	2,212	2.06	30	
Acenaphthene	2,270	20.5	2,049	0	111	46	122	2,288	0.908	30	
Fluorene	2,230	20.5	2,049	0	109	49	123	2,252	0.893	30	

Work Order: 2308151
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Sample ID: 2308151-012AMSD	SampType: MSD	Units: µg/Kg-dry				Prep Date: 8/10/2023	RunNo: 85910				
Client ID: UST4-B-90	Batch ID: 41173					Analysis Date: 8/11/2023	SeqNo: 1793009				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenanthrene	2,240	20.5	2,049	0	109	40.5	126	2,246	0.257	30	
Anthracene	2,310	20.5	2,049	0	113	46.3	124	2,353	1.74	30	
Fluoranthene	2,470	20.5	2,049	0	121	49.1	129	2,511	1.47	30	
Pyrene	2,410	41.0	2,049	0	118	48.8	130	2,445	1.33	30	
Benz(a)anthracene	2,360	20.5	2,049	0	115	53.9	130	2,390	1.09	30	
Chrysene	2,410	20.5	2,049	0	117	41.2	126	2,425	0.746	30	
Benzo(b)fluoranthene	2,370	25.6	2,049	0	116	37.2	132	2,369	0.137	30	
Benzo(k)fluoranthene	2,370	25.6	2,049	0	116	32.8	131	2,424	2.04	30	
Benzo(a)pyrene	2,640	30.7	2,049	0	129	28.8	145	2,661	0.683	30	
Indeno(1,2,3-cd)pyrene	2,230	41.0	2,049	0	109	3.36	151	2,255	1.04	30	
Dibenz(a,h)anthracene	2,240	51.2	2,049	0	109	6.99	152	2,269	1.50	30	
Benzo(g,h,i)perylene	2,200	51.2	2,049	0	107	5.86	143	2,220	1.06	30	
Surr: 2-Fluorobiphenyl	1,210		1,025		118	22.2	146		0		
Surr: Terphenyl-d14 (surr)	1,400		1,025		137	20.2	159		0		

Sample ID: CCV-41191A	SampType: CCV	Units: µg/L				Prep Date: 8/14/2023	RunNo: 85903				
Client ID: CCV	Batch ID: 41191					Analysis Date: 8/14/2023	SeqNo: 1792816				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	1,110	20.0	1,000	0	111	80	120				
2-Methylnaphthalene	964	20.0	1,000	0	96.4	80	120				
1-Methylnaphthalene	965	20.0	1,000	0	96.5	80	120				
Acenaphthene	1,120	20.0	1,000	0	112	80	120				
Acenaphthylene	923	20.0	1,000	0	92.3	80	120				
Phenanthrene	1,080	20.0	1,000	0	108	80	120				
Fluorene	1,060	20.0	1,000	0	106	80	120				
Anthracene	1,060	20.0	1,000	0	106	80	120				
Fluoranthene	1,150	20.0	1,000	0	115	80	120				
Pyrene	1,110	40.0	1,000	0	111	80	120				
Benz(a)anthracene	1,100	20.0	1,000	0	110	80	120				
Chrysene	1,150	20.0	1,000	0	115	80	120				

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CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Sample ID: CCV-41191A	SampType: CCV	Units: µg/L	Prep Date: 8/14/2023	RunNo: 85903							
Client ID: CCV	Batch ID: 41191	Analysis Date: 8/14/2023	SeqNo: 1792816								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(b)fluoranthene	1,140	25.0	1,000	0	114	80	120				
Benzo(k)fluoranthene	1,130	25.0	1,000	0	113	80	120				
Benzo(a)pyrene	1,180	30.0	1,000	0	118	80	120				
Indeno(1,2,3-cd)pyrene	1,100	40.0	1,000	0	110	80	120				
Dibenz(a,h)anthracene	1,090	50.0	1,000	0	109	80	120				
Benzo(g,h,i)perylene	1,110	50.0	1,000	0	111	80	120				
Surr: 2,4,6-Tribromophenol	1,270		1,000		127	14	136				
Surr: 2-Fluorobiphenyl	496		500.0		99.2	69.5	150				
Surr: Terphenyl-d14 (surr)	595		500.0		119	71.6	145				

Sample ID: MB-41191	SampType: MBLK	Units: µg/Kg	Prep Date: 8/14/2023	RunNo: 85903							
Client ID: MBLKS	Batch ID: 41191	Analysis Date: 8/14/2023	SeqNo: 1792817								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	ND	20.0									
2-Methylnaphthalene	ND	20.0									
1-Methylnaphthalene	ND	20.0									
Acenaphthene	ND	20.0									
Acenaphthylene	ND	20.0									
Phenanthrene	ND	20.0									
Fluorene	ND	20.0									
Anthracene	ND	20.0									
Fluoranthene	ND	20.0									
Pyrene	ND	40.0									
Benzo(a)anthracene	ND	20.0									
Chrysene	ND	20.0									
Benzo(b)fluoranthene	ND	25.0									
Benzo(k)fluoranthene	ND	25.0									
Benzo(a)pyrene	ND	30.0									
Indeno(1,2,3-cd)pyrene	ND	40.0									
Dibenz(a,h)anthracene	ND	50.0									

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Project: S Jackson Street

QC SUMMARY REPORT

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Sample ID: MB-41191	SampType: MBLK	Units: µg/Kg	Prep Date: 8/14/2023	RunNo: 85903							
Client ID: MBLKS	Batch ID: 41191		Analysis Date: 8/14/2023	SeqNo: 1792817							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(g,h,i)perylene	ND	50.0									
Surr: 2-Fluorobiphenyl	1,010		1,000		101	22.2	146				
Surr: Terphenyl-d14 (surr)	1,270		1,000		127	20.2	159				

Sample ID: LCS-41191	SampType: LCS	Units: µg/Kg	Prep Date: 8/14/2023	RunNo: 85903							
Client ID: LCSS	Batch ID: 41191		Analysis Date: 8/14/2023	SeqNo: 1792818							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	1,960	20.0	2,000	0	98.2	59.3	114				
2-Methylnaphthalene	1,870	20.0	2,000	0	93.5	55.5	115				
1-Methylnaphthalene	1,890	20.0	2,000	0	94.3	57.2	116				
Acenaphthene	2,020	20.0	2,000	0	101	56.6	114				
Acenaphthylene	1,920	20.0	2,000	0	95.8	58.2	120				
Phenanthrene	1,970	20.0	2,000	0	98.5	53.2	118				
Fluorene	1,950	20.0	2,000	0	97.5	57.7	117				
Anthracene	1,990	20.0	2,000	0	99.4	54.7	118				
Fluoranthene	2,140	20.0	2,000	0	107	56	120				
Pyrene	2,100	40.0	2,000	0	105	56.9	120				
Benz(a)anthracene	2,070	20.0	2,000	0	103	59.5	123				
Chrysene	2,110	20.0	2,000	0	106	51.5	115				
Benzo(b)fluoranthene	2,020	25.0	2,000	0	101	50	122				
Benzo(k)fluoranthene	2,100	25.0	2,000	0	105	51	117				
Benzo(a)pyrene	2,250	30.0	2,000	0	112	53.2	123				
Indeno(1,2,3-cd)pyrene	1,990	40.0	2,000	0	99.5	49.5	122				
Dibenz(a,h)anthracene	2,000	50.0	2,000	0	99.9	51	120				
Benzo(g,h,i)perylene	2,000	50.0	2,000	0	100	46.8	122				
Surr: 2-Fluorobiphenyl	1,140		1,000		114	22.2	146				
Surr: Terphenyl-d14 (surr)	1,290		1,000		129	20.2	159				

Work Order: 2308151
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Sample ID: 2308174-001AMS	SampType: MS	Units: µg/Kg-dry	Prep Date: 8/14/2023	RunNo: 85903							
Client ID: BATCH	Batch ID: 41191	Analysis Date: 8/14/2023	SeqNo: 1792821								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	2,070	20.2	2,017	62.03	99.6	48.9	121				
2-Methylnaphthalene	2,210	20.2	2,017	187.6	100	45.9	118				
1-Methylnaphthalene	2,160	20.2	2,017	160.3	99.1	48.5	121				
Acenaphthene	2,080	20.2	2,017	0	103	46	122				
Acenaphthylene	1,980	20.2	2,017	0	98.4	49.2	126				
Phenanthrene	2,180	20.2	2,017	174.7	99.3	40.5	126				
Fluorene	2,010	20.2	2,017	54.18	97.0	49	123				
Anthracene	2,010	20.2	2,017	14.12	99.0	46.3	124				
Fluoranthene	2,370	20.2	2,017	117.3	112	49.1	129				
Pyrene	2,270	40.3	2,017	131.1	106	48.8	130				
Benz(a)anthracene	2,320	20.2	2,017	67.67	112	53.9	130				
Chrysene	2,100	20.2	2,017	87.63	99.7	41.2	126				
Benzo(b)fluoranthene	2,210	25.2	2,017	0	109	37.2	132				
Benzo(k)fluoranthene	2,130	25.2	2,017	0	106	32.8	131				
Benzo(a)pyrene	2,370	30.2	2,017	85.49	113	28.8	145				
Indeno(1,2,3-cd)pyrene	1,830	40.3	2,017	29.21	89.3	3.36	151				
Dibenz(a,h)anthracene	1,830	50.4	2,017	0	90.6	6.99	152				
Benzo(g,h,i)perylene	1,640	50.4	2,017	48.98	79.1	5.86	143				
Surr: 2-Fluorobiphenyl	1,180		1,008		117	22.2	146				
Surr: Terphenyl-d14 (surr)	1,330		1,008		131	20.2	159				

Sample ID: 2308174-001AMSD	SampType: MSD	Units: µg/Kg-dry	Prep Date: 8/14/2023	RunNo: 85903							
Client ID: BATCH	Batch ID: 41191	Analysis Date: 8/14/2023	SeqNo: 1792822								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	2,150	20.2	2,017	62.03	104	48.9	121	2,071	3.97	30	
2-Methylnaphthalene	2,310	20.2	2,017	187.6	105	45.9	118	2,210	4.27	30	
1-Methylnaphthalene	2,260	20.2	2,017	160.3	104	48.5	121	2,159	4.59	30	
Acenaphthene	2,180	20.2	2,017	0	108	46	122	2,078	4.66	30	
Acenaphthylene	2,060	20.2	2,017	0	102	49.2	126	1,984	3.96	30	
Phenanthrene	2,290	20.2	2,017	174.7	105	40.5	126	2,176	5.23	30	

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Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Sample ID: 2308174-001AMSD	SampType: MSD	Units: µg/Kg-dry				Prep Date: 8/14/2023	RunNo: 85903				
Client ID: BATCH	Batch ID: 41191					Analysis Date: 8/14/2023	SeqNo: 1792822				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluorene	2,140	20.2	2,017	54.18	103	49	123	2,011	6.10	30	
Anthracene	2,110	20.2	2,017	14.12	104	46.3	124	2,011	4.58	30	
Fluoranthene	2,480	20.2	2,017	117.3	117	49.1	129	2,366	4.76	30	
Pyrene	2,380	40.3	2,017	131.1	111	48.8	130	2,273	4.50	30	
Benz(a)anthracene	2,440	20.2	2,017	67.67	118	53.9	130	2,319	5.14	30	
Chrysene	2,200	20.2	2,017	87.63	105	41.2	126	2,098	4.52	30	
Benzo(b)fluoranthene	2,320	25.2	2,017	0	115	37.2	132	2,205	4.87	30	
Benzo(k)fluoranthene	2,180	25.2	2,017	0	108	32.8	131	2,129	2.20	30	
Benzo(a)pyrene	2,420	30.2	2,017	85.49	116	28.8	145	2,370	2.12	30	
Indeno(1,2,3-cd)pyrene	1,710	40.3	2,017	29.21	83.6	3.36	151	1,831	6.59	30	
Dibenz(a,h)anthracene	1,740	50.4	2,017	0	86.3	6.99	152	1,827	4.86	30	
Benzo(g,h,i)perylene	1,480	50.4	2,017	48.98	71.2	5.86	143	1,644	10.2	30	
Surr: 2-Fluorobiphenyl	1,210		1,008		120	22.2	146		0		
Surr: Terphenyl-d14 (surr)	1,360		1,008		135	20.2	159		0		

Sample ID: PAH ICV	SampType: ICV	Units: µg/L				Prep Date: 8/15/2023	RunNo: 85940				
Client ID: ICV	Batch ID: 41173					Analysis Date: 8/15/2023	SeqNo: 1793530				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	1,030	20.0	1,000	0	103	70	130				
2-Methylnaphthalene	930	20.0	1,000	0	93.0	70	130				
1-Methylnaphthalene	958	20.0	1,000	0	95.8	70	130				
Acenaphthene	991	20.0	1,000	0	99.1	70	130				
Acenaphthylene	980	20.0	1,000	0	98.0	70	130				
Phenanthrene	965	20.0	1,000	0	96.5	70	130				
Fluorene	976	20.0	1,000	0	97.6	70	130				
Anthracene	943	20.0	1,000	0	94.3	70	130				
Fluoranthene	929	20.0	1,000	0	92.9	70	130				
Pyrene	955	40.0	1,000	0	95.5	70	130				
Benz(a)anthracene	934	20.0	1,000	0	93.4	70	130				
Chrysene	975	20.0	1,000	0	97.5	70	130				

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Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Sample ID: PAH ICV	SampType: ICV	Units: µg/L			Prep Date: 8/15/2023	RunNo: 85940					
Client ID: ICV	Batch ID: 41173				Analysis Date: 8/15/2023	SeqNo: 1793530					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(b)fluoranthene	922	25.0	1,000	0	92.2	70	130				
Benzo(k)fluoranthene	956	25.0	1,000	0	95.6	70	130				
Benzo(a)pyrene	994	30.0	1,000	0	99.4	70	130				
Indeno(1,2,3-cd)pyrene	960	40.0	1,000	0	96.0	70	130				
Dibenz(a,h)anthracene	952	50.0	1,000	0	95.2	70	130				
Benzo(g,h,i)perylene	925	50.0	1,000	0	92.5	70	130				
Surr: 2-Fluorobiphenyl	495		500.0		98.9	69.5	150				
Surr: Terphenyl-d14 (surr)	508		500.0		102	71.6	145				

Sample ID: PAH ICB	SampType: ICB	Units: µg/L			Prep Date: 8/15/2023	RunNo: 85940					
Client ID: ICB	Batch ID: 41173				Analysis Date: 8/15/2023	SeqNo: 1793531					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	ND	20.0									
2-Methylnaphthalene	ND	20.0									
1-Methylnaphthalene	ND	20.0									
Acenaphthene	ND	20.0									
Acenaphthylene	ND	20.0									
Phenanthrene	ND	20.0									
Fluorene	ND	20.0									
Anthracene	ND	20.0									
Fluoranthene	ND	20.0									
Pyrene	ND	40.0									
Benz(a)anthracene	ND	20.0									
Chrysene	ND	20.0									
Benzo(b)fluoranthene	ND	25.0									
Benzo(k)fluoranthene	ND	25.0									
Benzo(a)pyrene	ND	30.0									
Indeno(1,2,3-cd)pyrene	ND	40.0									
Dibenz(a,h)anthracene	ND	50.0									
Benzo(g,h,i)perylene	ND	50.0									

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QC SUMMARY REPORT

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Sample ID: PAH ICB	SampType: ICB	Units: µg/L	Prep Date: 8/15/2023	RunNo: 85940							
Client ID: ICB	Batch ID: 41173		Analysis Date: 8/15/2023	SeqNo: 1793531							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 2-Fluorobiphenyl	387		500.0		77.4	50.4	142				
Surr: Terphenyl-d14 (surr)	393		500.0		78.5	48.8	157				

Sample ID: CCV-41191B	SampType: CCV	Units: µg/L	Prep Date: 8/16/2023	RunNo: 85903							
Client ID: CCV	Batch ID: 41191		Analysis Date: 8/16/2023	SeqNo: 1794072							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	1,080	20.0	1,000	0	108	80	120				
2-Methylnaphthalene	968	20.0	1,000	0	96.8	80	120				
1-Methylnaphthalene	1,000	20.0	1,000	0	100	80	120				
Acenaphthene	1,030	20.0	1,000	0	103	80	120				
Acenaphthylene	982	20.0	1,000	0	98.2	80	120				
Phenanthrene	1,010	20.0	1,000	0	101	80	120				
Fluorene	1,030	20.0	1,000	0	103	80	120				
Anthracene	988	20.0	1,000	0	98.8	80	120				
Fluoranthene	955	20.0	1,000	0	95.5	80	120				
Pyrene	996	40.0	1,000	0	99.6	80	120				
Benz(a)anthracene	946	20.0	1,000	0	94.6	80	120				
Chrysene	999	20.0	1,000	0	99.9	80	120				
Benzo(b)fluoranthene	970	25.0	1,000	0	97.0	80	120				
Benzo(k)fluoranthene	1,010	25.0	1,000	0	101	80	120				
Benzo(a)pyrene	986	30.0	1,000	0	98.6	80	120				
Indeno(1,2,3-cd)pyrene	977	40.0	1,000	0	97.7	80	120				
Dibenz(a,h)anthracene	972	50.0	1,000	0	97.2	80	120				
Benzo(g,h,i)perylene	961	50.0	1,000	0	96.1	80	120				
Surr: 2-Fluorobiphenyl	483		500.0		96.5	69.5	150				
Surr: Terphenyl-d14 (surr)	493		500.0		98.6	71.6	145				

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QC SUMMARY REPORT

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Sample ID: CCV-41251A	SampType: CCV	Units: µg/L			Prep Date: 8/21/2023	RunNo: 86059					
Client ID: CCV	Batch ID: 41251				Analysis Date: 8/21/2023	SeqNo: 1795760					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	1,040	20.0	1,000	0	104	80	120				
2-Methylnaphthalene	890	20.0	1,000	0	89.0	80	120				
1-Methylnaphthalene	878	20.0	1,000	0	87.8	80	120				
Acenaphthene	1,020	20.0	1,000	0	102	80	120				
Acenaphthylene	898	20.0	1,000	0	89.8	80	120				
Phenanthrene	1,000	20.0	1,000	0	100	80	120				
Fluorene	1,020	20.0	1,000	0	102	80	120				
Anthracene	974	20.0	1,000	0	97.4	80	120				
Fluoranthene	962	20.0	1,000	0	96.2	80	120				
Pyrene	979	40.0	1,000	0	97.9	80	120				
Benz(a)anthracene	931	20.0	1,000	0	93.1	80	120				
Chrysene	996	20.0	1,000	0	99.6	80	120				
Benzo(b)fluoranthene	998	25.0	1,000	0	99.8	80	120				
Benzo(k)fluoranthene	1,040	25.0	1,000	0	104	80	120				
Benzo(a)pyrene	1,060	30.0	1,000	0	106	80	120				
Indeno(1,2,3-cd)pyrene	969	40.0	1,000	0	96.9	80	120				
Dibenz(a,h)anthracene	962	50.0	1,000	0	96.2	80	120				
Benzo(g,h,i)perylene	987	50.0	1,000	0	98.7	80	120				
Surr: 2-Fluorobiphenyl	434		500.0		86.8	69.5	150				
Surr: Terphenyl-d14 (surr)	469		500.0		93.9	71.6	145				

Sample ID: MB-41251	SampType: MBLK	Units: µg/Kg			Prep Date: 8/21/2023	RunNo: 86059					
Client ID: MBLKS	Batch ID: 41251				Analysis Date: 8/21/2023	SeqNo: 1795761					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	ND	20.0									
2-Methylnaphthalene	ND	20.0									
1-Methylnaphthalene	ND	20.0									
Acenaphthene	ND	20.0									
Acenaphthylene	ND	20.0									
Phenanthrene	ND	20.0									

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QC SUMMARY REPORT

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Sample ID: MB-41251	SampType: MBLK	Units: µg/Kg	Prep Date: 8/21/2023	RunNo: 86059							
Client ID: MBLKS	Batch ID: 41251		Analysis Date: 8/21/2023	SeqNo: 1795761							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluorene	ND	20.0									
Anthracene	ND	20.0									
Fluoranthene	ND	20.0									
Pyrene	ND	40.0									
Benz(a)anthracene	ND	20.0									
Chrysene	ND	20.0									
Benzo(b)fluoranthene	ND	25.0									
Benzo(k)fluoranthene	ND	25.0									
Benzo(a)pyrene	ND	30.0									
Indeno(1,2,3-cd)pyrene	ND	40.0									
Dibenz(a,h)anthracene	ND	50.0									
Benzo(g,h,i)perylene	ND	50.0									
Surr: 2-Fluorobiphenyl	912		1,000		91.2	22.2	146				
Surr: Terphenyl-d14 (surr)	865		1,000		86.5	20.2	159				

Sample ID: LCS-41251	SampType: LCS	Units: µg/Kg	Prep Date: 8/21/2023	RunNo: 86059							
Client ID: LCSS	Batch ID: 41251		Analysis Date: 8/21/2023	SeqNo: 1795762							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	1,750	20.0	2,000	0	87.7	59.3	114				
2-Methylnaphthalene	1,690	20.0	2,000	0	84.7	55.5	115				
1-Methylnaphthalene	1,700	20.0	2,000	0	84.8	57.2	116				
Acenaphthene	1,720	20.0	2,000	0	86.0	56.6	114				
Acenaphthylene	1,830	20.0	2,000	0	91.6	58.2	120				
Phenanthrene	1,660	20.0	2,000	0	83.0	53.2	118				
Fluorene	1,700	20.0	2,000	0	85.0	57.7	117				
Anthracene	1,670	20.0	2,000	0	83.3	54.7	118				
Fluoranthene	1,650	20.0	2,000	0	82.3	56	120				
Pyrene	1,680	40.0	2,000	0	84.1	56.9	120				
Benz(a)anthracene	1,610	20.0	2,000	0	80.5	59.5	123				
Chrysene	1,710	20.0	2,000	0	85.6	51.5	115				

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Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Sample ID: LCS-41251	SampType: LCS	Units: µg/Kg	Prep Date: 8/21/2023	RunNo: 86059							
Client ID: LCSS	Batch ID: 41251		Analysis Date: 8/21/2023	SeqNo: 1795762							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(b)fluoranthene	1,640	25.0	2,000	0	81.9	50	122				
Benzo(k)fluoranthene	1,730	25.0	2,000	0	86.6	51	117				
Benzo(a)pyrene	1,850	30.0	2,000	0	92.4	53.2	123				
Indeno(1,2,3-cd)pyrene	1,610	40.0	2,000	0	80.7	49.5	122				
Dibenz(a,h)anthracene	1,620	50.0	2,000	0	81.0	51	120				
Benzo(g,h,i)perylene	1,630	50.0	2,000	0	81.5	46.8	122				
Surr: 2-Fluorobiphenyl	973		1,000		97.3	22.2	146				
Surr: Terphenyl-d14 (surr)	927		1,000		92.7	20.2	159				

Sample ID: 2308151-002AMS	SampType: MS	Units: µg/Kg-dry	Prep Date: 8/21/2023	RunNo: 86059							
Client ID: UST2-NSW-93	Batch ID: 41251		Analysis Date: 8/21/2023	SeqNo: 1795764							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	1,300	21.9	2,185	34.87	57.7	48.9	121				
2-Methylnaphthalene	1,220	21.9	2,185	48.24	53.4	45.9	118				
1-Methylnaphthalene	1,230	21.9	2,185	25.59	55.0	48.5	121				
Acenaphthene	1,240	21.9	2,185	0	56.7	46	122				
Acenaphthylene	1,260	21.9	2,185	0	57.8	49.2	126				
Phenanthrene	1,180	21.9	2,185	0	54.2	40.5	126				
Fluorene	1,220	21.9	2,185	0	55.9	49	123				
Anthracene	1,170	21.9	2,185	0	53.5	46.3	124				
Fluoranthene	1,150	21.9	2,185	0	52.9	49.1	129				
Pyrene	1,190	43.7	2,185	0	54.4	48.8	130				
Benz(a)anthracene	1,130	21.9	2,185	0	51.6	53.9	130				S
Chrysene	1,220	21.9	2,185	0	55.6	41.2	126				
Benzo(b)fluoranthene	1,180	27.3	2,185	0	53.9	37.2	132				
Benzo(k)fluoranthene	1,180	27.3	2,185	0	54.1	32.8	131				
Benzo(a)pyrene	1,300	32.8	2,185	0	59.6	28.8	145				
Indeno(1,2,3-cd)pyrene	1,150	43.7	2,185	0	52.8	3.36	151				
Dibenz(a,h)anthracene	1,140	54.6	2,185	0	52.2	6.99	152				
Benzo(g,h,i)perylene	1,140	54.6	2,185	0	52.1	5.86	143				

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Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Sample ID: 2308151-002AMS	SampType: MS	Units: µg/Kg-dry	Prep Date: 8/21/2023	RunNo: 86059							
Client ID: UST2-NSW-93	Batch ID: 41251		Analysis Date: 8/21/2023	SeqNo: 1795764							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Surr: 2-Fluorobiphenyl	563		1,093		51.5	22.2	146				
Surr: Terphenyl-d14 (surr)	543		1,093		49.7	20.2	159				

NOTES:

S - Outlying spike recovery(ies) observed. A duplicate analysis was performed with similar results indicating a possible matrix effect.

Sample ID: 2308151-002AMSD	SampType: MSD	Units: µg/Kg-dry	Prep Date: 8/21/2023	RunNo: 86059							
Client ID: UST2-NSW-93	Batch ID: 41251		Analysis Date: 8/21/2023	SeqNo: 1795765							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Naphthalene	1,050	21.9	2,193	34.87	46.1	48.9	121	1,296	21.3	30	S
2-Methylnaphthalene	963	21.9	2,193	48.24	41.7	45.9	118	1,216	23.2	30	S
1-Methylnaphthalene	979	21.9	2,193	25.59	43.5	48.5	121	1,228	22.5	30	S
Acenaphthene	1,010	21.9	2,193	0	45.9	46	122	1,238	20.6	30	S
Acenaphthylene	1,010	21.9	2,193	0	45.9	49.2	126	1,262	22.5	30	S
Phenanthrene	965	21.9	2,193	0	44.0	40.5	126	1,185	20.5	30	
Fluorene	990	21.9	2,193	0	45.1	49	123	1,222	21.0	30	S
Anthracene	937	21.9	2,193	0	42.7	46.3	124	1,170	22.1	30	S
Fluoranthene	919	21.9	2,193	0	41.9	49.1	129	1,155	22.7	30	S
Pyrene	815	43.9	2,193	0	37.2	48.8	130	1,190	37.4	30	SR
Benz(a)anthracene	907	21.9	2,193	0	41.4	53.9	130	1,126	21.6	30	S
Chrysene	981	21.9	2,193	0	44.7	41.2	126	1,215	21.3	30	
Benzo(b)fluoranthene	850	27.4	2,193	0	38.7	37.2	132	1,177	32.3	30	R
Benzo(k)fluoranthene	894	27.4	2,193	0	40.8	32.8	131	1,182	27.7	30	
Benzo(a)pyrene	944	32.9	2,193	0	43.0	28.8	145	1,302	31.9	30	R
Indeno(1,2,3-cd)pyrene	1,020	43.9	2,193	0	46.3	3.36	151	1,153	12.7	30	
Dibenz(a,h)anthracene	1,000	54.8	2,193	0	45.7	6.99	152	1,142	13.0	30	
Benzo(g,h,i)perylene	996	54.8	2,193	0	45.4	5.86	143	1,138	13.3	30	
Surr: 2-Fluorobiphenyl	462		1,097		42.1	22.2	146		0		
Surr: Terphenyl-d14 (surr)	407		1,097		37.1	20.2	159		0		

NOTES:

S - Outlying spike recovery(ies) observed. A duplicate analysis was performed with similar results indicating a possible matrix effect.

R - High RPD observed.

Work Order: 2308151
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT

Polychlorinated Biphenyls (PCB) by EPA Method 8082

Sample ID: 1660 ICV 1000 ppb		SampType: ICV		Units: mg/Kg		Prep Date: 7/10/2023		RunNo: 85197			
Client ID: ICV		Batch ID: 41197				Analysis Date: 7/10/2023		SeqNo: 1778208			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	1.05	0.0200	1.000	0	105	80	120				
Aroclor 1260	1.10	0.0200	1.000	0	110	80	120				
Surr: Decachlorobiphenyl	222		200.0		111	30.2	155				
Surr: Tetrachloro-m-xylene	205		200.0		102	58.8	143				

Sample ID: 1660 ICB		SampType: ICB		Units: mg/Kg		Prep Date: 7/10/2023		RunNo: 85197			
Client ID: ICB		Batch ID: 41197				Analysis Date: 7/10/2023		SeqNo: 1778209			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	ND	0.0200									
Aroclor 1260	ND	0.0200									
Surr: Decachlorobiphenyl	232		200.0		116	50.2	159				
Surr: Tetrachloro-m-xylene	204		200.0		102	60.3	134				

Sample ID: 1660 ICV		SampType: ICV		Units: mg/Kg		Prep Date: 7/10/2023		RunNo: 85319			
Client ID: ICV		Batch ID: 41197				Analysis Date: 7/10/2023		SeqNo: 1780332			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	1.04	0.0200	1.000	0	104	80	120				
Aroclor 1260	1.04	0.0200	1.000	0	104	80	120				
Surr: Decachlorobiphenyl	207		200.0		104	30.2	155				
Surr: Tetrachloro-m-xylene	209		200.0		104	58.8	143				

Sample ID: 1660 ICB		SampType: ICB		Units: mg/Kg		Prep Date: 7/10/2023		RunNo: 85319			
Client ID: ICB		Batch ID: 41197				Analysis Date: 7/10/2023		SeqNo: 1780333			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	ND	0.0200									
Aroclor 1260	ND	0.0200									
Surr: Decachlorobiphenyl	208		200.0		104	50.2	159				

Work Order: 2308151
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT
Polychlorinated Biphenyls (PCB) by EPA Method 8082

Sample ID: 1660 ICB	SampType: ICB	Units: mg/Kg	Prep Date: 7/10/2023	RunNo: 85319							
Client ID: ICB	Batch ID: 41197		Analysis Date: 7/10/2023	SeqNo: 1780333							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Tetrachloro-m-xylene	221		200.0		110	60.3	134				

Sample ID: 1660-CCV-41176A	SampType: CCV	Units: mg/Kg	Prep Date: 8/10/2023	RunNo: 85892							
Client ID: CCV	Batch ID: 41176		Analysis Date: 8/10/2023	SeqNo: 1792486							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	0.967	0.0200	1.000	0	96.7	80	120				
Aroclor 1260	0.942	0.0200	1.000	0	94.2	80	120				
Surr: Decachlorobiphenyl	207		200.0		103	30.2	155				
Surr: Tetrachloro-m-xylene	191		200.0		95.3	58.8	143				

Sample ID: MB-41176	SampType: MBLK	Units: mg/Kg	Prep Date: 8/10/2023	RunNo: 85892							
Client ID: MBLKS	Batch ID: 41176		Analysis Date: 8/10/2023	SeqNo: 1792487							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	ND	0.0200									
Aroclor 1221	ND	0.0200									
Aroclor 1232	ND	0.0200									
Aroclor 1242	ND	0.0200									
Aroclor 1248	ND	0.0200									
Aroclor 1254	ND	0.0200									
Aroclor 1260	ND	0.0200									
Aroclor 1262	ND	0.0200									
Aroclor 1268	ND	0.0200									
Total PCBs	ND	0.0200									
Surr: Decachlorobiphenyl	141		200.0		70.4	5	160				
Surr: Tetrachloro-m-xylene	231		200.0		115	57.3	159				

Work Order: 2308151
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT
Polychlorinated Biphenyls (PCB) by EPA Method 8082

Sample ID: LCS-41176	SampType: LCS	Units: mg/Kg				Prep Date: 8/10/2023	RunNo: 85892				
Client ID: LCSS	Batch ID: 41176					Analysis Date: 8/10/2023	SeqNo: 1792488				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	0.956	0.0200	1.000	0	95.6	67.1	142				
Aroclor 1260	0.883	0.0200	1.000	0	88.3	71	140				
Surr: Decachlorobiphenyl	108		200.0		54.0	5	160				
Surr: Tetrachloro-m-xylene	185		200.0		92.7	57.3	159				

Sample ID: 2308151-009AMS	SampType: MS	Units: mg/Kg-dry				Prep Date: 8/10/2023	RunNo: 85892				
Client ID: UST3-B-90	Batch ID: 41176					Analysis Date: 8/10/2023	SeqNo: 1792504				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	0.908	0.0221	1.105	0	82.2	64.1	141				
Aroclor 1260	0.757	0.0221	1.105	0	68.5	51.1	146				
Surr: Decachlorobiphenyl	85.2		221.0		38.6	5	160				
Surr: Tetrachloro-m-xylene	177		221.0		80.0	57.3	159				

Sample ID: 2308151-009AMSD	SampType: MSD	Units: mg/Kg-dry				Prep Date: 8/10/2023	RunNo: 85892				
Client ID: UST3-B-90	Batch ID: 41176					Analysis Date: 8/10/2023	SeqNo: 1792505				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	0.870	0.0221	1.103	0	78.9	64.1	141	0.9085	4.27	30	
Aroclor 1260	0.712	0.0221	1.103	0	64.6	51.1	146	0.7572	6.14	30	
Surr: Decachlorobiphenyl	84.9		220.6		38.5	5	160		0		
Surr: Tetrachloro-m-xylene	161		220.6		72.8	57.3	159		0		

Sample ID: 1660-CCV-41176B	SampType: CCV	Units: mg/Kg				Prep Date: 8/10/2023	RunNo: 85892				
Client ID: CCV	Batch ID: 41176					Analysis Date: 8/10/2023	SeqNo: 1792509				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	0.915	0.0200	1.000	0	91.5	80	120				
Aroclor 1260	0.821	0.0200	1.000	0	82.1	80	120				
Surr: Decachlorobiphenyl	173		200.0		86.6	30.2	155				

Work Order: 2308151
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT

Polychlorinated Biphenyls (PCB) by EPA Method 8082

Sample ID: 1660-CCV-41176B	SampType: CCV	Units: mg/Kg	Prep Date: 8/10/2023	RunNo: 85892							
Client ID: CCV	Batch ID: 41176		Analysis Date: 8/10/2023	SeqNo: 1792509							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Tetrachloro-m-xylene	186		200.0		93.0	58.8	143				

Sample ID: 1660-CCV-41197A	SampType: CCV	Units: mg/Kg	Prep Date: 8/14/2023	RunNo: 85931							
Client ID: CCV	Batch ID: 41197		Analysis Date: 8/14/2023	SeqNo: 1793366							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	0.992	0.0200	1.000	0	99.2	80	120				
Aroclor 1260	0.928	0.0200	1.000	0	92.8	80	120				
Surr: Decachlorobiphenyl	97.9		200.0		48.9	30.2	155				
Surr: Tetrachloro-m-xylene	193		200.0		96.4	58.8	143				

Sample ID: MB-41197	SampType: MBLK	Units: mg/Kg	Prep Date: 8/14/2023	RunNo: 85931							
Client ID: MBLKS	Batch ID: 41197		Analysis Date: 8/14/2023	SeqNo: 1793367							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	ND	0.0200									
Aroclor 1221	ND	0.0200									
Aroclor 1232	ND	0.0200									
Aroclor 1242	ND	0.0200									
Aroclor 1248	ND	0.0200									
Aroclor 1254	ND	0.0200									
Aroclor 1260	ND	0.0200									
Aroclor 1262	ND	0.0200									
Aroclor 1268	ND	0.0200									
Total PCBs	ND	0.0200									
Surr: Decachlorobiphenyl	103		200.0		51.4	5	160				
Surr: Tetrachloro-m-xylene	204		200.0		102	57.3	159				

Work Order: 2308151
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT
Polychlorinated Biphenyls (PCB) by EPA Method 8082

Sample ID: LCS-41197	SampType: LCS	Units: mg/Kg	Prep Date: 8/14/2023	RunNo: 85931							
Client ID: LCSS	Batch ID: 41197	Analysis Date: 8/14/2023	SeqNo: 1793368								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	1.08	0.0200	1.000	0	108	67.1	142				
Aroclor 1260	0.998	0.0200	1.000	0	99.8	71	140				
Surr: Decachlorobiphenyl	106		200.0		52.8	5	160				
Surr: Tetrachloro-m-xylene	205		200.0		103	57.3	159				

Sample ID: 2308151-006AMS	SampType: MS	Units: mg/Kg-dry	Prep Date: 8/14/2023	RunNo: 85931							
Client ID: UST3-NSW-93	Batch ID: 41197	Analysis Date: 8/14/2023	SeqNo: 1793370								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	1.36	0.0253	1.265	0	107	64.1	141				
Aroclor 1260	1.29	0.0253	1.265	0	102	51.1	146				
Surr: Decachlorobiphenyl	73.4		253.0		29.0	5	160				
Surr: Tetrachloro-m-xylene	156		253.0		61.7	57.3	159				

Sample ID: 2308151-006AMSD	SampType: MSD	Units: mg/Kg-dry	Prep Date: 8/14/2023	RunNo: 85931							
Client ID: UST3-NSW-93	Batch ID: 41197	Analysis Date: 8/14/2023	SeqNo: 1793371								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	1.38	0.0253	1.264	0	109	64.1	141	1.357	1.69	30	
Aroclor 1260	1.31	0.0253	1.264	0	104	51.1	146	1.288	1.69	30	
Surr: Decachlorobiphenyl	77.3		252.7		30.6	5	160		0		
Surr: Tetrachloro-m-xylene	167		252.7		66.0	57.3	159		0		

Sample ID: 1660-CCV-41197B	SampType: CCV	Units: mg/Kg	Prep Date: 8/14/2023	RunNo: 85931							
Client ID: CCV	Batch ID: 41197	Analysis Date: 8/14/2023	SeqNo: 1793389								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	1.17	0.0200	1.000	0	117	80	120				
Aroclor 1260	1.18	0.0200	1.000	0	118	80	120				
Surr: Decachlorobiphenyl	129		200.0		64.5	30.2	155				

Work Order: 2308151
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT
Polychlorinated Biphenyls (PCB) by EPA Method 8082

Sample ID: 1660-CCV-41197B		SampType: CCV		Units: mg/Kg		Prep Date: 8/14/2023		RunNo: 85931			
Client ID: CCV		Batch ID: 41197				Analysis Date: 8/14/2023		SeqNo: 1793389			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Tetrachloro-m-xylene	227		200.0		114	58.8	143				

Sample ID: 1660-CCV-41197C		SampType: CCV		Units: mg/Kg		Prep Date: 8/15/2023		RunNo: 85931			
Client ID: CCV		Batch ID: 41197				Analysis Date: 8/15/2023		SeqNo: 1793444			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	1.19	0.0200	1.000	0	119	80	120				
Aroclor 1260	1.17	0.0200	1.000	0	117	80	120				
Surr: Decachlorobiphenyl	127		200.0		63.3	30.2	155				
Surr: Tetrachloro-m-xylene	228		200.0		114	58.8	143				

Sample ID: 1660-CCV-41197D		SampType: CCV		Units: mg/Kg		Prep Date: 8/15/2023		RunNo: 85931			
Client ID: CCV		Batch ID: 41197				Analysis Date: 8/15/2023		SeqNo: 1793447			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	1.23	0.0200	1.000	0	123	80	120				S
Aroclor 1260	1.13	0.0200	1.000	0	113	80	120				
Surr: Decachlorobiphenyl	118		200.0		58.8	30.2	155				
Surr: Tetrachloro-m-xylene	237		200.0		118	58.8	143				

NOTES:

S - Outlying spike recovery observed (high bias). Samples are non-detect; result meets QC requirements.

Work Order: 2308151
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT
Gasoline by NWTPH-Gx

Sample ID: GX ICB		SampType: ICB		Units: µg/L		Prep Date: 8/9/2023		RunNo: 85852			
Client ID: ICB		Batch ID: 41166				Analysis Date: 8/9/2023		SeqNo: 1791607			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	ND	50.0									
Surr: Toluene-d8	25.0		25.00		99.9	65	135				
Surr: 4-Bromofluorobenzene	0.0719		25.00		0.288	65	135				S

Sample ID: GX ICV		SampType: ICV		Units: µg/L		Prep Date: 8/9/2023		RunNo: 85852			
Client ID: ICV		Batch ID: 41166				Analysis Date: 8/9/2023		SeqNo: 1791608			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	403	50.0	500.0	0	80.6	80	120				
Surr: Toluene-d8	25.1		25.00		100	65	135				
Surr: 4-Bromofluorobenzene	25.2		25.00		101	65	135				

Sample ID: CCV-41166A		SampType: CCV		Units: mg/Kg		Prep Date: 8/10/2023		RunNo: 85905			
Client ID: CCV		Batch ID: 41166				Analysis Date: 8/10/2023		SeqNo: 1792909			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	442	5.00	500.0	0	88.4	80	120				
Surr: Toluene-d8	25.1		25.00		101	65	135				
Surr: 4-Bromofluorobenzene	24.8		25.00		99.2	65	135				

Sample ID: MB-41166		SampType: MBLK		Units: mg/Kg		Prep Date: 8/10/2023		RunNo: 85905			
Client ID: MBLKS		Batch ID: 41166				Analysis Date: 8/10/2023		SeqNo: 1792914			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	ND	5.00									
Surr: Toluene-d8	1.26		1.250		101	65	135				
Surr: 4-Bromofluorobenzene	1.25		1.250		99.8	65	135				

Work Order: 2308151
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT

Gasoline by NWTPH-Gx

Sample ID: CCV-41178A		SampType: CCV		Units: mg/Kg		Prep Date: 8/10/2023		RunNo: 85880			
Client ID: CCV		Batch ID: 41166				Analysis Date: 8/10/2023		SeqNo: 1792148			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	440	5.00	500.0	0	87.9	80	120				
Surr: Toluene-d8	24.9		25.00		99.7	65	135				
Surr: 4-Bromofluorobenzene	24.8		25.00		99.1	65	135				

Sample ID: CCV-41166B		SampType: CCV		Units: mg/Kg		Prep Date: 8/10/2023		RunNo: 85905			
Client ID: CCV		Batch ID: 41166				Analysis Date: 8/10/2023		SeqNo: 1792907			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	440	5.00	500.0	0	87.9	80	120				
Surr: Toluene-d8	24.9		25.00		99.7	65	135				
Surr: 4-Bromofluorobenzene	24.8		25.00		99.1	65	135				

Sample ID: LCS-41178		SampType: LCS		Units: mg/Kg		Prep Date: 8/10/2023		RunNo: 85880			
Client ID: LCSS		Batch ID: 41178				Analysis Date: 8/10/2023		SeqNo: 1792151			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	22.0	5.00	25.00	0	87.9	65	135				
Surr: Toluene-d8	1.25		1.250		99.7	65	135				
Surr: 4-Bromofluorobenzene	1.24		1.250		99.1	65	135				

Sample ID: MB-41178		SampType: MBLK		Units: mg/Kg		Prep Date: 8/10/2023		RunNo: 85880			
Client ID: MBLKS		Batch ID: 41178				Analysis Date: 8/11/2023		SeqNo: 1792150			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	ND	5.00									
Surr: Toluene-d8	1.25		1.250		99.9	65	135				
Surr: 4-Bromofluorobenzene	1.24		1.250		99.0	65	135				

Work Order: 2308151
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT
Gasoline by NWTPH-Gx

Sample ID: 2308159-001BDUP		SampType: DUP		Units: mg/Kg-dry		Prep Date: 8/10/2023		RunNo: 85880			
Client ID: BATCH		Batch ID: 41178				Analysis Date: 8/11/2023		SeqNo: 1792138			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	ND	71.5						0		30	D
Surr: Toluene-d8	17.9		17.87		100	65	135		0		D
Surr: 4-Bromofluorobenzene	17.7		17.87		99.3	65	135		0		D

Sample ID: 2308159-002BMS		SampType: MS		Units: mg/Kg-dry		Prep Date: 8/10/2023		RunNo: 85880			
Client ID: BATCH		Batch ID: 41178				Analysis Date: 8/11/2023		SeqNo: 1792141			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	555	66.1	330.5	149.1	123	65	135				D
Surr: Toluene-d8	16.4		16.52		99.3	65	135				D
Surr: 4-Bromofluorobenzene	16.2		16.52		97.8	65	135				D

Sample ID: CCV-41178B		SampType: CCV		Units: mg/Kg		Prep Date: 8/11/2023		RunNo: 85880			
Client ID: CCV		Batch ID: 41166				Analysis Date: 8/11/2023		SeqNo: 1792149			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	452	5.00	500.0	0	90.3	80	120				
Surr: Toluene-d8	25.0		25.00		100	65	135				
Surr: 4-Bromofluorobenzene	24.6		25.00		98.3	65	135				

Sample ID: CCV-41166C		SampType: CCV		Units: mg/Kg		Prep Date: 8/12/2023		RunNo: 85905			
Client ID: CCV		Batch ID: 41166				Analysis Date: 8/12/2023		SeqNo: 1792905			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	515	5.00	500.0	0	103	80	120				
Surr: Toluene-d8	24.9		25.00		99.6	65	135				
Surr: 4-Bromofluorobenzene	24.2		25.00		96.9	65	135				

Work Order: 2308151
CLIENT: GeoEngineers
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QC SUMMARY REPORT

Gasoline by NWTPH-Gx

Sample ID: LCS-41166		SampType: LCS		Units: mg/Kg		Prep Date: 8/10/2023		RunNo: 85905			
Client ID: LCSS		Batch ID: 41166				Analysis Date: 8/12/2023		SeqNo: 1792933			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	25.8	5.00	25.00	0	103	65	135				
Surr: Toluene-d8	1.25		1.250		99.6	65	135				
Surr: 4-Bromofluorobenzene	1.21		1.250		96.9	65	135				

Sample ID: 2308044-014BDUP		SampType: DUP		Units: mg/Kg-dry		Prep Date: 8/10/2023		RunNo: 85905			
Client ID: BATCH		Batch ID: 41166				Analysis Date: 8/12/2023		SeqNo: 1792891			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	ND	5.57						0		30	
Surr: Toluene-d8	1.38		1.393		99.0	65	135		0		
Surr: 4-Bromofluorobenzene	1.36		1.393		98.0	65	135		0		

Sample ID: 2308044-023BDUP		SampType: DUP		Units: mg/Kg-dry		Prep Date: 8/10/2023		RunNo: 85905			
Client ID: BATCH		Batch ID: 41166				Analysis Date: 8/12/2023		SeqNo: 1792893			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	ND	6.60						0		30	
Surr: Toluene-d8	1.65		1.651		100	65	135		0		
Surr: 4-Bromofluorobenzene	1.62		1.651		98.2	65	135		0		

Sample ID: 2308111-001BMS		SampType: MS		Units: mg/Kg-dry		Prep Date: 8/10/2023		RunNo: 85905			
Client ID: BATCH		Batch ID: 41166				Analysis Date: 8/12/2023		SeqNo: 1792895			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	32.5	5.30	26.50	5.741	101	65	135				
Surr: Toluene-d8	1.32		1.325		99.5	65	135				
Surr: 4-Bromofluorobenzene	1.28		1.325		96.6	65	135				

Work Order: 2308151
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT
Gasoline by NWTPH-Gx

Sample ID: CCV-41166D		SampType: CCV		Units: mg/Kg		Prep Date: 8/13/2023		RunNo: 85905			
Client ID: CCV		Batch ID: 41166				Analysis Date: 8/13/2023		SeqNo: 1792906			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	456	5.00	500.0	0	91.3	80	120				
Surr: Toluene-d8	24.6		25.00		98.2	65	135				
Surr: 4-Bromofluorobenzene	24.1		25.00		96.6	65	135				

Sample ID: CCV-41166E		SampType: CCV		Units: mg/Kg		Prep Date: 8/14/2023		RunNo: 85905			
Client ID: CCV		Batch ID: 41166				Analysis Date: 8/14/2023		SeqNo: 1793078			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	459	5.00	500.0	0	91.9	80	120				
Surr: Toluene-d8	24.6		25.00		98.5	65	135				
Surr: 4-Bromofluorobenzene	24.2		25.00		96.7	65	135				

Sample ID: CCV-41166F		SampType: CCV		Units: mg/Kg		Prep Date: 8/14/2023		RunNo: 85905			
Client ID: CCV		Batch ID: 41166				Analysis Date: 8/14/2023		SeqNo: 1793142			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	496	5.00	500.0	0	99.2	80	120				
Surr: Toluene-d8	24.6		25.00		98.2	65	135				
Surr: 4-Bromofluorobenzene	24.3		25.00		97.2	65	135				

Sample ID: CCV-41166G		SampType: CCV		Units: mg/Kg		Prep Date: 8/14/2023		RunNo: 85905			
Client ID: CCV		Batch ID: 41166				Analysis Date: 8/14/2023		SeqNo: 1793144			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	449	5.00	500.0	0	89.7	80	120				
Surr: Toluene-d8	24.8		25.00		99.1	65	135				
Surr: 4-Bromofluorobenzene	24.6		25.00		98.2	65	135				

Work Order: 2308151
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: ICB	SampType: ICB	Units: µg/L	Prep Date: 8/10/2023	RunNo: 85858							
Client ID: ICB	Batch ID: 41178	Analysis Date: 8/10/2023	SeqNo: 1791735								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane (CFC-12)	ND	0.0150									
Chloromethane	ND	0.0500									
Vinyl chloride	ND	0.0250									
Bromomethane	0.0251	0.0250									
Trichlorofluoromethane (CFC-11)	ND	0.0200									
Chloroethane	ND	0.0750									
1,1-Dichloroethene	ND	0.100									
Acetone	ND	0.250									
Methylene chloride	0.0389	0.0350									
trans-1,2-Dichloroethene	0.0268	0.0100									
Methyl tert-butyl ether (MTBE)	ND	0.0200									
1,1-Dichloroethane	ND	0.0250									
cis-1,2-Dichloroethene	0.0172	0.0150									
(MEK) 2-Butanone	ND	0.300									
Chloroform	ND	0.0175									
1,1,1-Trichloroethane (TCA)	ND	0.0200									
1,1-Dichloropropene	0.0620	0.0200									
Carbon tetrachloride	ND	0.0250									
1,2-Dichloroethane (EDC)	ND	0.0200									
Benzene	ND	0.0175									
Trichloroethene (TCE)	0.0220	0.0150									
1,2-Dichloropropane	ND	0.0250									
Bromodichloromethane	ND	0.0250									
Dibromomethane	0.0131	0.0125									
cis-1,3-Dichloropropene	0.0924	0.0150									
Toluene	ND	0.0300									
Trans-1,3-Dichloropropylene	0.0925	0.0200									
Methyl Isobutyl Ketone (MIBK)	ND	0.0600									
1,1,2-Trichloroethane	ND	0.0125									
1,3-Dichloropropane	ND	0.0100									
Tetrachloroethene (PCE)	0.0356	0.0150									
Dibromochloromethane	ND	0.0150									

Work Order: 2308151
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: ICB	SampType: ICB	Units: µg/L	Prep Date: 8/10/2023	RunNo: 85858							
Client ID: ICB	Batch ID: 41178	Analysis Date: 8/10/2023	SeqNo: 1791735								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromoethane (EDB)	0.0134	0.0100									
2-Hexanone (MBK)	0.0924	0.0625									
Chlorobenzene	0.0220	0.0150									
1,1,1,2-Tetrachloroethane	ND	0.0250									
Ethylbenzene	ND	0.0250									
m,p-Xylene	ND	0.0500									
o-Xylene	ND	0.0250									
Styrene	0.0197	0.0100									
Isopropylbenzene	ND	0.0150									
Bromoform	0.0405	0.0150									
1,1,2,2-Tetrachloroethane	ND	0.200									
n-Propylbenzene	0.0482	0.0150									
Bromobenzene	0.0266	0.0125									
1,3,5-Trimethylbenzene	0.0376	0.0150									
2-Chlorotoluene	0.0533	0.0165									
4-Chlorotoluene	ND	0.0165									
tert-Butylbenzene	0.0298	0.0150									
1,2,3-Trichloropropane	ND	0.0300									
1,2,4-Trichlorobenzene	0.108	0.0600									
sec-Butylbenzene	ND	0.150									
4-Isopropyltoluene	ND	0.200									
1,3-Dichlorobenzene	0.0464	0.0200									
1,4-Dichlorobenzene	ND	0.0150									
n-Butylbenzene	0.0605	0.0200									
1,2-Dichlorobenzene	0.0370	0.0200									
1,2-Dibromo-3-chloropropane	ND	0.0300									
1,2,4-Trimethylbenzene	ND	0.0150									
Hexachloro-1,3-butadiene	0.281	0.0400									
Naphthalene	0.111	0.100									
1,2,3-Trichlorobenzene	0.0877	0.0600									
Surr: Dibromofluoromethane	25.0		25.00		100	80	120				
Surr: Toluene-d8	24.7		25.00		98.9	80	120				

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CLIENT: GeoEngineers
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QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: ICB	SampType: ICB	Units: µg/L	Prep Date: 8/10/2023	RunNo: 85858							
Client ID: ICB	Batch ID: 41178		Analysis Date: 8/10/2023	SeqNo: 1791735							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 1-Bromo-4-fluorobenzene	25.3		25.00		101	80	120				

Sample ID: ICV	SampType: ICV	Units: µg/L	Prep Date: 8/10/2023	RunNo: 85858							
Client ID: ICV	Batch ID: 41166		Analysis Date: 8/10/2023	SeqNo: 1791726							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane (CFC-12)	22.4	0.0150	20.00	0	112	70	130				
Chloromethane	21.2	0.0500	20.00	0	106	70	130				
Vinyl chloride	19.4	0.0250	20.00	0	97.1	70	130				
Bromomethane	20.7	0.0250	20.00	0	103	70	130				
Trichlorofluoromethane (CFC-11)	22.2	0.0200	20.00	0	111	70	130				
Chloroethane	20.8	0.0750	20.00	0	104	70	130				
1,1-Dichloroethene	18.7	0.100	20.00	0	93.5	70	130				
Acetone	49.2	0.250	50.00	0	98.4	70	130				
Methylene chloride	17.2	0.0350	20.00	0	85.9	70	130				
trans-1,2-Dichloroethene	19.6	0.0100	20.00	0	97.8	70	130				
Methyl tert-butyl ether (MTBE)	20.6	0.0200	20.00	0	103	70	130				
1,1-Dichloroethane	19.7	0.0250	20.00	0	98.3	70	130				
cis-1,2-Dichloroethene	19.5	0.0150	20.00	0	97.7	70	130				
(MEK) 2-Butanone	49.4	0.300	50.00	0	98.7	70	130				
Chloroform	20.9	0.0175	20.00	0	104	70	130				
1,1,1-Trichloroethane (TCA)	20.1	0.0200	20.00	0	101	70	130				
1,1-Dichloropropene	19.3	0.0200	20.00	0	96.4	70	130				
Carbon tetrachloride	20.8	0.0250	20.00	0	104	70	130				
1,2-Dichloroethane (EDC)	20.9	0.0200	20.00	0	104	70	130				
Benzene	19.5	0.0175	20.00	0	97.3	70	130				
Trichloroethene (TCE)	19.8	0.0150	20.00	0	98.9	70	130				
1,2-Dichloropropane	20.4	0.0250	20.00	0	102	70	130				
Bromodichloromethane	20.5	0.0250	20.00	0	102	70	130				
Dibromomethane	20.5	0.0125	20.00	0	102	70	130				
cis-1,3-Dichloropropene	20.4	0.0150	20.00	0	102	70	130				

Work Order: 2308151
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: ICV	SampType: ICV	Units: µg/L		Prep Date: 8/10/2023	RunNo: 85858						
Client ID: ICV	Batch ID: 41166			Analysis Date: 8/10/2023	SeqNo: 1791726						
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	20.5	0.0300	20.00	0	103	70	130				
Trans-1,3-Dichloropropylene	20.4	0.0200	20.00	0	102	70	130				
Methyl Isobutyl Ketone (MIBK)	55.8	0.0600	50.00	0	112	70	130				
1,1,2-Trichloroethane	20.2	0.0125	20.00	0	101	70	130				
1,3-Dichloropropane	20.0	0.0100	20.00	0	100	70	130				
Tetrachloroethene (PCE)	20.4	0.0150	20.00	0	102	70	130				
Dibromochloromethane	20.4	0.0150	20.00	0	102	70	130				
1,2-Dibromoethane (EDB)	21.4	0.0100	20.00	0	107	70	130				
2-Hexanone (MBK)	49.1	0.0625	50.00	0	98.2	70	130				
Chlorobenzene	20.0	0.0150	20.00	0	100	70	130				
1,1,1,2-Tetrachloroethane	21.3	0.0250	20.00	0	107	70	130				
Ethylbenzene	19.6	0.0250	20.00	0	98.1	70	130				
m,p-Xylene	42.1	0.0500	40.00	0	105	70	130				
o-Xylene	20.5	0.0250	20.00	0	102	70	130				
Styrene	20.0	0.0100	20.00	0	99.9	70	130				
Isopropylbenzene	21.1	0.0150	20.00	0	106	70	130				
Bromoform	22.6	0.0150	20.00	0	113	70	130				
1,1,2,2-Tetrachloroethane	20.5	0.200	20.00	0	102	70	130				
n-Propylbenzene	21.1	0.0150	20.00	0	106	70	130				
Bromobenzene	19.7	0.0125	20.00	0	98.6	70	130				
1,3,5-Trimethylbenzene	19.7	0.0150	20.00	0	98.3	70	130				
2-Chlorotoluene	19.3	0.0165	20.00	0	96.3	70	130				
4-Chlorotoluene	20.9	0.0165	20.00	0	105	70	130				
tert-Butylbenzene	20.0	0.0150	20.00	0	100	70	130				
1,2,3-Trichloropropane	20.6	0.0300	20.00	0	103	70	130				
1,2,4-Trichlorobenzene	21.2	0.0600	20.00	0	106	70	130				
sec-Butylbenzene	21.2	0.150	20.00	0	106	70	130				
4-Isopropyltoluene	20.9	0.200	20.00	0	104	70	130				
1,3-Dichlorobenzene	19.7	0.0200	20.00	0	98.5	70	130				
1,4-Dichlorobenzene	21.0	0.0150	20.00	0	105	70	130				
n-Butylbenzene	21.1	0.0200	20.00	0	106	70	130				
1,2-Dichlorobenzene	19.9	0.0200	20.00	0	99.7	70	130				

Work Order: 2308151
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: ICV		SampType: ICV		Units: µg/L		Prep Date: 8/10/2023		RunNo: 85858			
Client ID: ICV		Batch ID: 41166				Analysis Date: 8/10/2023		SeqNo: 1791726			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromo-3-chloropropane	21.3	0.0300	20.00	0	106	70	130				
1,2,4-Trimethylbenzene	21.1	0.0150	20.00	0	105	70	130				
Hexachloro-1,3-butadiene	19.5	0.0400	20.00	0	97.6	70	130				
Naphthalene	21.4	0.100	20.00	0	107	70	130				
1,2,3-Trichlorobenzene	21.1	0.0600	20.00	0	105	70	130				
Surr: Dibromofluoromethane	25.0		25.00		100	80	120				
Surr: Toluene-d8	25.2		25.00		101	80	120				
Surr: 1-Bromo-4-fluorobenzene	24.4		25.00		97.6	80	120				

Sample ID: CCV-41178A		SampType: CCV		Units: µg/L		Prep Date: 8/10/2023		RunNo: 85876			
Client ID: CCV		Batch ID: 41178				Analysis Date: 8/10/2023		SeqNo: 1792084			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane (CFC-12)	20.6	0.0150	20.00	0	103	80	120				
Chloromethane	18.3	0.0500	20.00	0	91.4	80	120				
Vinyl chloride	19.0	0.0250	20.00	0	95.1	80	120				
Bromomethane	18.8	0.0250	20.00	0	93.9	80	120				
Trichlorofluoromethane (CFC-11)	20.5	0.0200	20.00	0	103	80	120				
Chloroethane	21.4	0.0750	20.00	0	107	80	120				
1,1-Dichloroethene	18.9	0.100	20.00	0	94.7	80	120				
Acetone	47.2	0.250	50.00	0	94.4	80	120				
Methylene chloride	19.0	0.0350	20.00	0	95.0	80	120				
trans-1,2-Dichloroethene	19.5	0.0100	20.00	0	97.5	80	120				
Methyl tert-butyl ether (MTBE)	19.9	0.0200	20.00	0	99.3	80	120				
1,1-Dichloroethane	19.3	0.0250	20.00	0	96.3	80	120				
cis-1,2-Dichloroethene	19.3	0.0150	20.00	0	96.6	80	120				
(MEK) 2-Butanone	48.0	0.300	50.00	0	96.0	80	120				
Chloroform	20.3	0.0175	20.00	0	101	80	120				
1,1,1-Trichloroethane (TCA)	20.1	0.0200	20.00	0	101	80	120				
1,1-Dichloropropene	19.7	0.0200	20.00	0	98.6	80	120				
Carbon tetrachloride	20.7	0.0250	20.00	0	104	80	120				

Work Order: 2308151
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: CCV-41178A	SampType: CCV	Units: µg/L	Prep Date: 8/10/2023	RunNo: 85876
Client ID: CCV	Batch ID: 41178		Analysis Date: 8/10/2023	SeqNo: 1792084

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloroethane (EDC)	20.0	0.0200	20.00	0	99.9	80	120				
Benzene	19.4	0.0175	20.00	0	97.1	80	120				
Trichloroethene (TCE)	19.0	0.0150	20.00	0	95.0	80	120				
1,2-Dichloropropane	19.8	0.0250	20.00	0	99.1	80	120				
Bromodichloromethane	19.9	0.0250	20.00	0	99.4	80	120				
Dibromomethane	20.0	0.0125	20.00	0	100	80	120				
cis-1,3-Dichloropropene	19.7	0.0150	20.00	0	98.6	80	120				
Toluene	20.7	0.0300	20.00	0	103	80	120				
Trans-1,3-Dichloropropylene	19.7	0.0200	20.00	0	98.6	80	120				
Methyl Isobutyl Ketone (MIBK)	51.8	0.0600	50.00	0	104	80	120				
1,1,2-Trichloroethane	19.8	0.0125	20.00	0	98.8	80	120				
1,3-Dichloropropane	19.7	0.0100	20.00	0	98.4	80	120				
Tetrachloroethene (PCE)	20.3	0.0150	20.00	0	101	80	120				
Dibromochloromethane	19.8	0.0150	20.00	0	98.8	80	120				
1,2-Dibromoethane (EDB)	21.0	0.0100	20.00	0	105	80	120				
2-Hexanone (MBK)	46.4	0.0625	50.00	0	92.7	80	120				
Chlorobenzene	19.7	0.0150	20.00	0	98.4	80	120				
1,1,1,2-Tetrachloroethane	20.9	0.0250	20.00	0	104	80	120				
Ethylbenzene	19.6	0.0250	20.00	0	97.8	80	120				
m,p-Xylene	41.7	0.0500	40.00	0	104	80	120				
o-Xylene	20.4	0.0250	20.00	0	102	80	120				
Styrene	19.8	0.0100	20.00	0	99.0	80	120				
Isopropylbenzene	21.2	0.0150	20.00	0	106	80	120				
Bromoform	20.9	0.0150	20.00	0	104	80	120				
1,1,2,2-Tetrachloroethane	20.7	0.200	20.00	0	104	80	120				
n-Propylbenzene	21.0	0.0150	20.00	0	105	80	120				
Bromobenzene	19.8	0.0125	20.00	0	99.2	80	120				
1,3,5-Trimethylbenzene	19.4	0.0150	20.00	0	96.8	80	120				
2-Chlorotoluene	19.0	0.0165	20.00	0	95.1	80	120				
4-Chlorotoluene	20.6	0.0165	20.00	0	103	80	120				
tert-Butylbenzene	19.8	0.0150	20.00	0	99.0	80	120				
1,2,3-Trichloropropane	20.1	0.0300	20.00	0	100	80	120				

Work Order: 2308151
CLIENT: GeoEngineers
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QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: CCV-41178A	SampType: CCV	Units: µg/L	Prep Date: 8/10/2023	RunNo: 85876							
Client ID: CCV	Batch ID: 41178		Analysis Date: 8/10/2023	SeqNo: 1792084							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	20.5	0.0600	20.00	0	102	80	120				
sec-Butylbenzene	21.0	0.150	20.00	0	105	80	120				
4-Isopropyltoluene	20.7	0.200	20.00	0	104	80	120				
1,3-Dichlorobenzene	19.2	0.0200	20.00	0	95.9	80	120				
1,4-Dichlorobenzene	20.9	0.0150	20.00	0	104	80	120				
n-Butylbenzene	20.8	0.0200	20.00	0	104	80	120				
1,2-Dichlorobenzene	19.7	0.0200	20.00	0	98.3	80	120				
1,2-Dibromo-3-chloropropane	19.9	0.0300	20.00	0	99.5	80	120				
1,2,4-Trimethylbenzene	20.6	0.0150	20.00	0	103	80	120				
Hexachloro-1,3-butadiene	19.6	0.0400	20.00	0	98.0	80	120				
Naphthalene	19.7	0.100	20.00	0	98.6	80	120				
1,2,3-Trichlorobenzene	19.8	0.0600	20.00	0	99.1	80	120				
Surr: Dibromofluoromethane	25.0		25.00		99.8	80	120				
Surr: Toluene-d8	25.0		25.00		100	80	120				
Surr: 1-Bromo-4-fluorobenzene	24.4		25.00		97.5	80	120				

Sample ID: LCS-41178	SampType: LCS	Units: µg/L	Prep Date: 8/10/2023	RunNo: 85876							
Client ID: LCSS	Batch ID: 41178		Analysis Date: 8/10/2023	SeqNo: 1792085							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane (CFC-12)	1.03	0.0150	1.000	0	103	80	120				
Chloromethane	0.914	0.0500	1.000	0	91.4	80	120				
Vinyl chloride	0.951	0.0250	1.000	0	95.1	80	120				
Bromomethane	0.939	0.0250	1.000	0	93.9	80	120				
Trichlorofluoromethane (CFC-11)	1.03	0.0200	1.000	0	103	80	120				
Chloroethane	1.07	0.0750	1.000	0	107	80	120				
1,1-Dichloroethene	0.947	0.100	1.000	0	94.7	80	120				
Acetone	2.36	0.250	2.500	0	94.4	80	120				
Methylene chloride	0.950	0.0350	1.000	0	95.0	80	120				
trans-1,2-Dichloroethene	0.975	0.0100	1.000	0	97.5	80	120				
Methyl tert-butyl ether (MTBE)	0.993	0.0200	1.000	0	99.3	80	120				

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QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: LCS-41178	SampType: LCS	Units: µg/L	Prep Date: 8/10/2023	RunNo: 85876							
Client ID: LCSS	Batch ID: 41178		Analysis Date: 8/10/2023	SeqNo: 1792085							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethane	0.963	0.0250	1.000	0	96.3	80	120				
cis-1,2-Dichloroethene	0.966	0.0150	1.000	0	96.6	80	120				
(MEK) 2-Butanone	2.40	0.300	2.500	0	96.0	80	120				
Chloroform	1.01	0.0175	1.000	0	101	80	120				
1,1,1-Trichloroethane (TCA)	1.01	0.0200	1.000	0	101	80	120				
1,1-Dichloropropene	0.986	0.0200	1.000	0	98.6	80	120				
Carbon tetrachloride	1.04	0.0250	1.000	0	104	80	120				
1,2-Dichloroethane (EDC)	0.999	0.0200	1.000	0	99.9	80	120				
Benzene	0.971	0.0175	1.000	0	97.1	80	120				
Trichloroethene (TCE)	0.950	0.0150	1.000	0	95.0	80	120				
1,2-Dichloropropane	0.991	0.0250	1.000	0	99.1	80	120				
Bromodichloromethane	0.994	0.0250	1.000	0	99.4	80	120				
Dibromomethane	1.00	0.0125	1.000	0	100	80	120				
cis-1,3-Dichloropropene	0.986	0.0150	1.000	0	98.6	80	120				
Toluene	1.03	0.0300	1.000	0	103	80	120				
Trans-1,3-Dichloropropylene	0.986	0.0200	1.000	0	98.6	80	120				
Methyl Isobutyl Ketone (MIBK)	2.59	0.0600	2.500	0	104	80	120				
1,1,2-Trichloroethane	0.988	0.0125	1.000	0	98.8	80	120				
1,3-Dichloropropane	0.984	0.0100	1.000	0	98.4	80	120				
Tetrachloroethene (PCE)	1.01	0.0150	1.000	0	101	80	120				
Dibromochloromethane	0.988	0.0150	1.000	0	98.8	80	120				
1,2-Dibromoethane (EDB)	1.05	0.0100	1.000	0	105	80	120				
2-Hexanone (MBK)	2.32	0.0625	2.500	0	92.7	80	120				
Chlorobenzene	0.984	0.0150	1.000	0	98.4	80	120				
1,1,1,2-Tetrachloroethane	1.04	0.0250	1.000	0	104	80	120				
Ethylbenzene	0.978	0.0250	1.000	0	97.8	80	120				
m,p-Xylene	2.09	0.0500	2.000	0	104	80	120				
o-Xylene	1.02	0.0250	1.000	0	102	80	120				
Styrene	0.990	0.0100	1.000	0	99.0	80	120				
Isopropylbenzene	1.06	0.0150	1.000	0	106	80	120				
Bromoform	1.04	0.0150	1.000	0	104	80	120				
1,1,2,2-Tetrachloroethane	1.04	0.200	1.000	0	104	80	120				

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 Project: S Jackson Street

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: LCS-41178	SampType: LCS	Units: µg/L	Prep Date: 8/10/2023	RunNo: 85876							
Client ID: LCSS	Batch ID: 41178		Analysis Date: 8/10/2023	SeqNo: 1792085							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
n-Propylbenzene	1.05	0.0150	1.000	0	105	80	120				
Bromobenzene	0.992	0.0125	1.000	0	99.2	80	120				
1,3,5-Trimethylbenzene	0.968	0.0150	1.000	0	96.8	80	120				
2-Chlorotoluene	0.951	0.0165	1.000	0	95.1	80	120				
4-Chlorotoluene	1.03	0.0165	1.000	0	103	80	120				
tert-Butylbenzene	0.990	0.0150	1.000	0	99.0	80	120				
1,2,3-Trichloropropane	1.00	0.0300	1.000	0	100	80	120				
1,2,4-Trichlorobenzene	1.02	0.0600	1.000	0	102	80	120				
sec-Butylbenzene	1.05	0.150	1.000	0	105	80	120				
4-Isopropyltoluene	1.04	0.200	1.000	0	104	80	120				
1,3-Dichlorobenzene	0.959	0.0200	1.000	0	95.9	80	120				
1,4-Dichlorobenzene	1.04	0.0150	1.000	0	104	80	120				
n-Butylbenzene	1.04	0.0200	1.000	0	104	80	120				
1,2-Dichlorobenzene	0.983	0.0200	1.000	0	98.3	80	120				
1,2-Dibromo-3-chloropropane	0.995	0.0300	1.000	0	99.5	80	120				
1,2,4-Trimethylbenzene	1.03	0.0150	1.000	0	103	80	120				
Hexachloro-1,3-butadiene	0.980	0.0400	1.000	0	98.0	80	120				
Naphthalene	0.986	0.100	1.000	0	98.6	80	120				
1,2,3-Trichlorobenzene	0.991	0.0600	1.000	0	99.1	80	120				
Surr: Dibromofluoromethane	1.25		1.250		99.8	79.5	124				
Surr: Toluene-d8	1.25		1.250		100	77.5	124				
Surr: 1-Bromo-4-fluorobenzene	1.22		1.250		97.5	60.5	139				

Sample ID: MB-41178	SampType: MBLK	Units: mg/Kg	Prep Date: 8/10/2023	RunNo: 85876							
Client ID: MBLKS	Batch ID: 41178		Analysis Date: 8/11/2023	SeqNo: 1792083							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane (CFC-12)	ND	0.0150									
Chloromethane	ND	0.0500									
Vinyl chloride	ND	0.0250									
Bromomethane	ND	0.0250									

Work Order: 2308151
CLIENT: GeoEngineers
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QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: MB-41178	SampType: MBLK	Units: mg/Kg	Prep Date: 8/10/2023	RunNo: 85876							
Client ID: MBLKS	Batch ID: 41178		Analysis Date: 8/11/2023	SeqNo: 1792083							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Trichlorofluoromethane (CFC-11)	ND	0.0200									
Chloroethane	ND	0.0750									
1,1-Dichloroethene	ND	0.100									
Acetone	ND	0.250									
Methylene chloride	ND	0.0350									
trans-1,2-Dichloroethene	ND	0.0100									
Methyl tert-butyl ether (MTBE)	ND	0.0200									
1,1-Dichloroethane	ND	0.0250									
cis-1,2-Dichloroethene	ND	0.0150									
(MEK) 2-Butanone	ND	0.300									
Chloroform	ND	0.0175									
1,1,1-Trichloroethane (TCA)	ND	0.0200									
1,1-Dichloropropene	ND	0.0200									
Carbon tetrachloride	ND	0.0250									
1,2-Dichloroethane (EDC)	ND	0.0200									
Benzene	ND	0.0175									
Trichloroethene (TCE)	ND	0.0150									
1,2-Dichloropropane	ND	0.0250									
Bromodichloromethane	ND	0.0250									
Dibromomethane	ND	0.0125									
cis-1,3-Dichloropropene	ND	0.0150									
Toluene	ND	0.0300									
Trans-1,3-Dichloropropylene	ND	0.0200									
Methyl Isobutyl Ketone (MIBK)	ND	0.0600									
1,1,2-Trichloroethane	ND	0.0125									
1,3-Dichloropropane	ND	0.0100									
Tetrachloroethene (PCE)	ND	0.0150									
Dibromochloromethane	ND	0.0150									
1,2-Dibromoethane (EDB)	ND	0.0100									
2-Hexanone (MBK)	ND	0.0625									
Chlorobenzene	ND	0.0150									
1,1,1,2-Tetrachloroethane	ND	0.0250									

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QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: MB-41178	SampType: MBLK	Units: mg/Kg	Prep Date: 8/10/2023	RunNo: 85876							
Client ID: MBLKS	Batch ID: 41178		Analysis Date: 8/11/2023	SeqNo: 1792083							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Ethylbenzene	ND	0.0250									
m,p-Xylene	ND	0.0500									
o-Xylene	ND	0.0250									
Styrene	ND	0.0100									
Isopropylbenzene	ND	0.0150									
Bromoform	ND	0.0150									
1,1,2,2-Tetrachloroethane	ND	0.200									
n-Propylbenzene	ND	0.0150									
Bromobenzene	ND	0.0125									
1,3,5-Trimethylbenzene	ND	0.0150									
2-Chlorotoluene	ND	0.0165									
4-Chlorotoluene	ND	0.0165									
tert-Butylbenzene	ND	0.0150									
1,2,3-Trichloropropane	ND	0.0300									
1,2,4-Trichlorobenzene	ND	0.0600									
sec-Butylbenzene	ND	0.150									
4-Isopropyltoluene	ND	0.200									
1,3-Dichlorobenzene	ND	0.0200									
1,4-Dichlorobenzene	ND	0.0150									
n-Butylbenzene	ND	0.0200									
1,2-Dichlorobenzene	ND	0.0200									
1,2-Dibromo-3-chloropropane	ND	0.0300									
1,2,4-Trimethylbenzene	ND	0.0150									
Hexachloro-1,3-butadiene	ND	0.0400									
Naphthalene	ND	0.100									
1,2,3-Trichlorobenzene	ND	0.0600									
Surr: Dibromofluoromethane	1.20		1.250		96.2	79.5	124				
Surr: Toluene-d8	1.23		1.250		98.1	77.5	124				
Surr: 1-Bromo-4-fluorobenzene	1.23		1.250		98.8	60.5	139				

Work Order: 2308151
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: 2308159-001BDUP	SampType: DUP	Units: mg/Kg-dry	Prep Date: 8/10/2023	RunNo: 85876
Client ID: BATCH	Batch ID: 41178		Analysis Date: 8/11/2023	SeqNo: 1792082

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane (CFC-12)	ND	0.214						0		30	D
Chloromethane	ND	0.715						0		30	D
Vinyl chloride	ND	0.357						0		30	D
Bromomethane	ND	0.357						0		30	D
Trichlorofluoromethane (CFC-11)	ND	0.286						0		30	D
Chloroethane	ND	1.07						0		30	D
1,1-Dichloroethene	ND	1.43						0		30	D
Acetone	ND	3.57						0		30	D
Methylene chloride	ND	0.500						0		30	D
trans-1,2-Dichloroethene	ND	0.143						0		30	D
Methyl tert-butyl ether (MTBE)	ND	0.286						0		30	D
1,1-Dichloroethane	ND	0.357						0		30	D
cis-1,2-Dichloroethene	ND	0.214						0		30	D
(MEK) 2-Butanone	ND	4.29						0		30	D
Chloroform	ND	0.250						0		30	D
1,1,1-Trichloroethane (TCA)	ND	0.286						0		30	D
1,1-Dichloropropene	ND	0.286						0		30	D
Carbon tetrachloride	ND	0.357						0		30	D
1,2-Dichloroethane (EDC)	ND	0.286						0		30	D
Benzene	ND	0.250						0		30	D
Trichloroethene (TCE)	ND	0.214						0		30	D
1,2-Dichloropropane	ND	0.357						0		30	D
Bromodichloromethane	ND	0.357						0		30	D
Dibromomethane	ND	0.179						0		30	D
cis-1,3-Dichloropropene	ND	0.214						0		30	D
Toluene	ND	0.429						0		30	D
Trans-1,3-Dichloropropylene	ND	0.286						0		30	D
Methyl Isobutyl Ketone (MIBK)	ND	0.858						0		30	D
1,1,2-Trichloroethane	ND	0.179						0		30	D
1,3-Dichloropropane	ND	0.143						0		30	D
Tetrachloroethene (PCE)	ND	0.214						0		30	D
Dibromochloromethane	ND	0.214						0		30	D

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CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: 2308159-001BDUP	SampType: DUP	Units: mg/Kg-dry	Prep Date: 8/10/2023	RunNo: 85876
Client ID: BATCH	Batch ID: 41178	Analysis Date: 8/11/2023	SeqNo: 1792082	

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromoethane (EDB)	ND	0.143						0		30	D
2-Hexanone (MBK)	ND	0.893						0		30	D
Chlorobenzene	ND	0.214						0		30	D
1,1,1,2-Tetrachloroethane	ND	0.357						0		30	D
Ethylbenzene	ND	0.357						0		30	D
m,p-Xylene	ND	0.715						0		30	D
o-Xylene	ND	0.357						0		30	D
Styrene	ND	0.143						0		30	D
Isopropylbenzene	ND	0.214						0		30	D
Bromoform	ND	0.214						0		30	D
1,1,2,2-Tetrachloroethane	ND	2.86						0		30	D
n-Propylbenzene	ND	0.214						0		30	D
Bromobenzene	ND	0.179						0		30	D
1,3,5-Trimethylbenzene	ND	0.214						0		30	D
2-Chlorotoluene	ND	0.236						0		30	D
4-Chlorotoluene	ND	0.236						0		30	D
tert-Butylbenzene	ND	0.214						0		30	D
1,2,3-Trichloropropane	ND	0.429						0		30	D
1,2,4-Trichlorobenzene	ND	0.858						0		30	D
sec-Butylbenzene	ND	2.14						0		30	D
4-Isopropyltoluene	ND	2.86						0		30	D
1,3-Dichlorobenzene	ND	0.286						0		30	D
1,4-Dichlorobenzene	ND	0.214						0		30	D
n-Butylbenzene	ND	0.286						0		30	D
1,2-Dichlorobenzene	ND	0.286						0		30	D
1,2-Dibromo-3-chloropropane	ND	0.429						0		30	D
1,2,4-Trimethylbenzene	ND	0.214						0		30	D
Hexachloro-1,3-butadiene	ND	0.572						0		30	D
Naphthalene	ND	1.43						0		30	D
1,2,3-Trichlorobenzene	ND	0.858						0		30	D
Surr: Dibromofluoromethane	18.4		17.87		103	79.5	124		0		D
Surr: Toluene-d8	17.6		17.87		98.3	77.5	124		0		D

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Project: S Jackson Street

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: 2308159-001BDUP	SampType: DUP	Units: mg/Kg-dry	Prep Date: 8/10/2023	RunNo: 85876							
Client ID: BATCH	Batch ID: 41178	Analysis Date: 8/11/2023	SeqNo: 1792082								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 1-Bromo-4-fluorobenzene	17.7		17.87		99.1	60.5	139		0		D

Sample ID: 2308139-002BMS	SampType: MS	Units: mg/Kg-dry	Prep Date: 8/10/2023	RunNo: 85876							
Client ID: BATCH	Batch ID: 41178	Analysis Date: 8/11/2023	SeqNo: 1792079								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane (CFC-12)	1.35	0.0140	0.9358	0	144	5	160				
Chloromethane	1.06	0.0468	0.9358	0	113	17.7	160				
Vinyl chloride	1.20	0.0234	0.9358	0	128	21.7	160				
Bromomethane	1.19	0.0234	0.9358	0	128	20	160				
Trichlorofluoromethane (CFC-11)	1.12	0.0187	0.9358	0	120	5	160				
Chloroethane	1.59	0.0702	0.9358	0	170	5	160				S
1,1-Dichloroethene	0.952	0.0936	0.9358	0	102	21.7	160				
Acetone	3.44	0.234	2.339	0	147	20.7	160				
Methylene chloride	1.02	0.0328	0.9358	0.02662	106	46.7	154				
trans-1,2-Dichloroethene	0.954	0.00936	0.9358	0	102	41.9	160				
Methyl tert-butyl ether (MTBE)	0.941	0.0187	0.9358	0	101	70.3	138				
1,1-Dichloroethane	0.927	0.0234	0.9358	0	99.0	45.4	160				
cis-1,2-Dichloroethene	0.917	0.0140	0.9358	0	98.0	52.6	151				
(MEK) 2-Butanone	2.99	0.281	2.339	0	128	44.3	160				
Chloroform	0.969	0.0164	0.9358	0	104	52.7	148				
1,1,1-Trichloroethane (TCA)	0.947	0.0187	0.9358	0	101	39.7	160				
1,1-Dichloropropene	0.950	0.0187	0.9358	0	102	40.1	160				
Carbon tetrachloride	1.01	0.0234	0.9358	0	108	34.2	160				
1,2-Dichloroethane (EDC)	0.936	0.0187	0.9358	0	100	64.6	137				
Benzene	0.913	0.0164	0.9358	0	97.6	52.3	147				
Trichloroethene (TCE)	0.916	0.0140	0.9358	0	97.9	43.1	160				
1,2-Dichloropropane	0.933	0.0234	0.9358	0	99.7	59.5	142				
Bromodichloromethane	0.935	0.0234	0.9358	0	99.9	61.4	146				
Dibromomethane	0.919	0.0117	0.9358	0	98.2	72.4	140				
cis-1,3-Dichloropropene	0.917	0.0140	0.9358	0	98.0	59.6	136				

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QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: 2308139-002BMS	SampType: MS	Units: mg/Kg-dry	Prep Date: 8/10/2023	RunNo: 85876
Client ID: BATCH	Batch ID: 41178		Analysis Date: 8/11/2023	SeqNo: 1792079

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	0.964	0.0281	0.9358	0	103	50.1	147				
Trans-1,3-Dichloropropylene	0.916	0.0187	0.9358	0	97.9	59.3	139				
Methyl Isobutyl Ketone (MIBK)	2.44	0.0561	2.339	0	104	48	160				
1,1,2-Trichloroethane	0.916	0.0117	0.9358	0	97.9	70.4	140				
1,3-Dichloropropane	0.899	0.00936	0.9358	0	96.0	69.2	140				
Tetrachloroethene (PCE)	0.982	0.0140	0.9358	0	105	44.6	160				
Dibromochloromethane	0.912	0.0140	0.9358	0	97.5	64.7	141				
1,2-Dibromoethane (EDB)	0.958	0.00936	0.9358	0	102	70.4	143				
2-Hexanone (MBK)	3.01	0.0585	2.339	0	129	33	160				
Chlorobenzene	0.931	0.0140	0.9358	0	99.4	59.6	134				
1,1,1,2-Tetrachloroethane	0.966	0.0234	0.9358	0	103	58	141				
Ethylbenzene	0.947	0.0234	0.9358	0.02173	98.9	51.7	143				
m,p-Xylene	2.10	0.0468	1.872	0.1113	106	54.5	144				
o-Xylene	0.955	0.0234	0.9358	0	102	57.1	141				
Styrene	0.928	0.00936	0.9358	0	99.2	63.4	135				
Isopropylbenzene	1.00	0.0140	0.9358	0	107	47.8	152				
Bromoform	0.988	0.0140	0.9358	0	106	70.1	134				
1,1,2,2-Tetrachloroethane	0.919	0.187	0.9358	0	98.2	43.2	157				
n-Propylbenzene	1.02	0.0140	0.9358	0.01500	108	47.5	152				
Bromobenzene	0.916	0.0117	0.9358	0	97.8	66.9	133				
1,3,5-Trimethylbenzene	0.957	0.0140	0.9358	0.03813	98.2	51.5	146				
2-Chlorotoluene	0.912	0.0154	0.9358	0	97.5	54.5	137				
4-Chlorotoluene	0.975	0.0154	0.9358	0	104	56.5	138				
tert-Butylbenzene	0.926	0.0140	0.9358	0	99.0	41.8	152				
1,2,3-Trichloropropane	0.887	0.0281	0.9358	0	94.8	64.3	132				
1,2,4-Trichlorobenzene	0.940	0.0561	0.9358	0	100	58.1	135				
sec-Butylbenzene	1.00	0.140	0.9358	0	107	44.2	155				
4-Isopropyltoluene	0.999	0.187	0.9358	0	107	46	156				
1,3-Dichlorobenzene	0.924	0.0187	0.9358	0	98.8	62.6	132				
1,4-Dichlorobenzene	0.984	0.0140	0.9358	0	105	62.7	125				
n-Butylbenzene	1.04	0.0187	0.9358	0	111	43.4	155				
1,2-Dichlorobenzene	0.934	0.0187	0.9358	0	99.8	67.9	128				

Work Order: 2308151
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: 2308139-002BMS	SampType: MS	Units: mg/Kg-dry	Prep Date: 8/10/2023	RunNo: 85876							
Client ID: BATCH	Batch ID: 41178		Analysis Date: 8/11/2023	SeqNo: 1792079							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromo-3-chloropropane	0.874	0.0281	0.9358	0	93.4	61.9	135				
1,2,4-Trimethylbenzene	1.13	0.0140	0.9358	0.1440	105	55.5	144				
Hexachloro-1,3-butadiene	0.991	0.0374	0.9358	0	106	38.7	158				
Naphthalene	0.883	0.0936	0.9358	0	94.4	56.6	148				
1,2,3-Trichlorobenzene	0.899	0.0561	0.9358	0	96.1	58.1	142				
Surr: Dibromofluoromethane	1.19		1.170		101	79.5	124				
Surr: Toluene-d8	1.17		1.170		100	77.5	124				
Surr: 1-Bromo-4-fluorobenzene	1.13		1.170		96.3	60.5	139				

NOTES:

S - Outlying spike recoveries were associated with this sample.

Sample ID: CCV-41166A	SampType: CCV	Units: µg/L	Prep Date: 8/12/2023	RunNo: 85899							
Client ID: CCV	Batch ID: 41166		Analysis Date: 8/12/2023	SeqNo: 1792692							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane (CFC-12)	18.4	0.0150	20.00	0	91.8	80	120				
Chloromethane	18.1	0.0500	20.00	0	90.5	80	120				
Vinyl chloride	18.1	0.0250	20.00	0	90.7	80	120				
Bromomethane	19.4	0.0250	20.00	0	97.0	80	120				
Trichlorofluoromethane (CFC-11)	21.2	0.0200	20.00	0	106	80	120				
Chloroethane	19.6	0.0750	20.00	0	97.8	80	120				
1,1-Dichloroethene	18.5	0.100	20.00	0	92.5	80	120				
Acetone	55.1	0.250	50.00	0	110	80	120				
Methylene chloride	18.7	0.0350	20.00	0	93.4	80	120				
trans-1,2-Dichloroethene	19.2	0.0100	20.00	0	96.0	80	120				
Methyl tert-butyl ether (MTBE)	19.0	0.0200	20.00	0	95.0	80	120				
1,1-Dichloroethane	19.3	0.0250	20.00	0	96.3	80	120				
cis-1,2-Dichloroethene	19.1	0.0150	20.00	0	95.3	80	120				
(MEK) 2-Butanone	51.0	0.300	50.00	0	102	80	120				
Chloroform	20.0	0.0175	20.00	0	100	80	120				
1,1,1-Trichloroethane (TCA)	19.1	0.0200	20.00	0	95.7	80	120				
1,1-Dichloropropene	19.4	0.0200	20.00	0	97.2	80	120				

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QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: CCV-41166A	SampType: CCV	Units: µg/L	Prep Date: 8/12/2023	RunNo: 85899							
Client ID: CCV	Batch ID: 41166	Analysis Date: 8/12/2023	SeqNo: 1792692								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon tetrachloride	19.4	0.0250	20.00	0	97.1	80	120				
1,2-Dichloroethane (EDC)	19.9	0.0200	20.00	0	99.5	80	120				
Benzene	19.2	0.0175	20.00	0	96.0	80	120				
Trichloroethene (TCE)	19.9	0.0150	20.00	0	99.6	80	120				
1,2-Dichloropropane	19.6	0.0250	20.00	0	97.9	80	120				
Bromodichloromethane	19.2	0.0250	20.00	0	95.9	80	120				
Dibromomethane	19.9	0.0125	20.00	0	99.5	80	120				
cis-1,3-Dichloropropene	18.7	0.0150	20.00	0	93.3	80	120				
Toluene	20.1	0.0300	20.00	0	100	80	120				
Trans-1,3-Dichloropropylene	18.7	0.0200	20.00	0	93.3	80	120				
Methyl Isobutyl Ketone (MIBK)	51.7	0.0600	50.00	0	103	80	120				
1,1,2-Trichloroethane	19.7	0.0125	20.00	0	98.3	80	120				
1,3-Dichloropropane	19.6	0.0100	20.00	0	98.1	80	120				
Tetrachloroethene (PCE)	19.6	0.0150	20.00	0	98.0	80	120				
Dibromochloromethane	18.9	0.0150	20.00	0	94.4	80	120				
1,2-Dibromoethane (EDB)	20.7	0.0100	20.00	0	103	80	120				
2-Hexanone (MBK)	49.5	0.0625	50.00	0	99.0	80	120				
Chlorobenzene	19.1	0.0150	20.00	0	95.3	80	120				
1,1,1,2-Tetrachloroethane	20.1	0.0250	20.00	0	101	80	120				
Ethylbenzene	19.0	0.0250	20.00	0	94.9	80	120				
m,p-Xylene	40.2	0.0500	40.00	0	101	80	120				
o-Xylene	19.7	0.0250	20.00	0	98.6	80	120				
Styrene	19.2	0.0100	20.00	0	96.0	80	120				
Isopropylbenzene	20.3	0.0150	20.00	0	102	80	120				
Bromoform	19.4	0.0150	20.00	0	96.9	80	120				
1,1,2,2-Tetrachloroethane	18.7	0.200	20.00	0	93.4	80	120				
n-Propylbenzene	20.1	0.0150	20.00	0	101	80	120				
Bromobenzene	19.3	0.0125	20.00	0	96.3	80	120				
1,3,5-Trimethylbenzene	18.5	0.0150	20.00	0	92.5	80	120				
2-Chlorotoluene	18.4	0.0165	20.00	0	91.9	80	120				
4-Chlorotoluene	19.8	0.0165	20.00	0	98.9	80	120				
tert-Butylbenzene	19.0	0.0150	20.00	0	94.9	80	120				

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QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: CCV-41166A		SampType: CCV		Units: µg/L		Prep Date: 8/12/2023		RunNo: 85899			
Client ID: CCV		Batch ID: 41166				Analysis Date: 8/12/2023		SeqNo: 1792692			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,3-Trichloropropane	19.2	0.0300	20.00	0	95.8	80	120				
1,2,4-Trichlorobenzene	20.5	0.0600	20.00	0	103	80	120				
sec-Butylbenzene	20.1	0.150	20.00	0	101	80	120				
4-Isopropyltoluene	19.9	0.200	20.00	0	99.4	80	120				
1,3-Dichlorobenzene	18.7	0.0200	20.00	0	93.6	80	120				
1,4-Dichlorobenzene	20.6	0.0150	20.00	0	103	80	120				
n-Butylbenzene	20.0	0.0200	20.00	0	100	80	120				
1,2-Dichlorobenzene	19.2	0.0200	20.00	0	95.9	80	120				
1,2-Dibromo-3-chloropropane	18.5	0.0300	20.00	0	92.3	80	120				
1,2,4-Trimethylbenzene	19.9	0.0150	20.00	0	99.4	80	120				
Hexachloro-1,3-butadiene	18.9	0.0400	20.00	0	94.5	80	120				
Naphthalene	20.4	0.100	20.00	0	102	80	120				
1,2,3-Trichlorobenzene	20.0	0.0600	20.00	0	99.9	80	120				
Surr: Dibromofluoromethane	25.1		25.00		100	80	120				
Surr: Toluene-d8	25.3		25.00		101	80	120				
Surr: 1-Bromo-4-fluorobenzene	24.0		25.00		96.1	80	120				

Sample ID: LCS-41166		SampType: LCS		Units: µg/L		Prep Date: 8/10/2023		RunNo: 85899			
Client ID: LCSS		Batch ID: 41166				Analysis Date: 8/12/2023		SeqNo: 1792720			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane (CFC-12)	0.918	0.0150	1.000	0	91.8	80	120				
Chloromethane	0.905	0.0500	1.000	0	90.5	80	120				
Vinyl chloride	0.907	0.0250	1.000	0	90.7	80	120				
Bromomethane	0.970	0.0250	1.000	0	97.0	80	120				
Trichlorofluoromethane (CFC-11)	1.06	0.0200	1.000	0	106	80	120				
Chloroethane	0.978	0.0750	1.000	0	97.8	80	120				
1,1-Dichloroethene	0.925	0.100	1.000	0	92.5	80	120				
Acetone	2.75	0.250	2.500	0	110	80	120				
Methylene chloride	0.934	0.0350	1.000	0	93.4	80	120				
trans-1,2-Dichloroethene	0.960	0.0100	1.000	0	96.0	80	120				

Work Order: 2308151
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: LCS-41166	SampType: LCS	Units: µg/L				Prep Date: 8/10/2023	RunNo: 85899				
Client ID: LCSS	Batch ID: 41166					Analysis Date: 8/12/2023	SeqNo: 1792720				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	0.950	0.0200	1.000	0	95.0	80	120				
1,1-Dichloroethane	0.963	0.0250	1.000	0	96.3	80	120				
cis-1,2-Dichloroethene	0.953	0.0150	1.000	0	95.3	80	120				
(MEK) 2-Butanone	2.55	0.300	2.500	0	102	80	120				
Chloroform	1.00	0.0175	1.000	0	100	80	120				
1,1,1-Trichloroethane (TCA)	0.957	0.0200	1.000	0	95.7	80	120				
1,1-Dichloropropene	0.972	0.0200	1.000	0	97.2	80	120				
Carbon tetrachloride	0.971	0.0250	1.000	0	97.1	80	120				
1,2-Dichloroethane (EDC)	0.995	0.0200	1.000	0	99.5	80	120				
Benzene	0.960	0.0175	1.000	0	96.0	80	120				
Trichloroethene (TCE)	0.996	0.0150	1.000	0	99.6	80	120				
1,2-Dichloropropane	0.979	0.0250	1.000	0	97.9	80	120				
Bromodichloromethane	0.959	0.0250	1.000	0	95.9	80	120				
Dibromomethane	0.995	0.0125	1.000	0	99.5	80	120				
cis-1,3-Dichloropropene	0.933	0.0150	1.000	0	93.3	80	120				
Toluene	1.00	0.0300	1.000	0	100	80	120				
Trans-1,3-Dichloropropylene	0.933	0.0200	1.000	0	93.3	80	120				
Methyl Isobutyl Ketone (MIBK)	2.58	0.0600	2.500	0	103	80	120				
1,1,2-Trichloroethane	0.983	0.0125	1.000	0	98.3	80	120				
1,3-Dichloropropane	0.981	0.0100	1.000	0	98.1	80	120				
Tetrachloroethene (PCE)	0.980	0.0150	1.000	0	98.0	80	120				
Dibromochloromethane	0.944	0.0150	1.000	0	94.4	80	120				
1,2-Dibromoethane (EDB)	1.03	0.0100	1.000	0	103	80	120				
2-Hexanone (MBK)	2.47	0.0625	2.500	0	99.0	80	120				
Chlorobenzene	0.953	0.0150	1.000	0	95.3	80	120				
1,1,1,2-Tetrachloroethane	1.01	0.0250	1.000	0	101	80	120				
Ethylbenzene	0.949	0.0250	1.000	0	94.9	80	120				
m,p-Xylene	2.01	0.0500	2.000	0	101	80	120				
o-Xylene	0.986	0.0250	1.000	0	98.6	80	120				
Styrene	0.960	0.0100	1.000	0	96.0	80	120				
Isopropylbenzene	1.02	0.0150	1.000	0	102	80	120				
Bromoform	0.969	0.0150	1.000	0	96.9	80	120				

Work Order: 2308151
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Project: S Jackson Street

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: LCS-41166		SampType: LCS		Units: µg/L		Prep Date: 8/10/2023		RunNo: 85899			
Client ID: LCSS		Batch ID: 41166				Analysis Date: 8/12/2023		SeqNo: 1792720			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,2,2-Tetrachloroethane	0.934	0.200	1.000	0	93.4	80	120				
n-Propylbenzene	1.01	0.0150	1.000	0	101	80	120				
Bromobenzene	0.963	0.0125	1.000	0	96.3	80	120				
1,3,5-Trimethylbenzene	0.925	0.0150	1.000	0	92.5	80	120				
2-Chlorotoluene	0.919	0.0165	1.000	0	91.9	80	120				
4-Chlorotoluene	0.989	0.0165	1.000	0	98.9	80	120				
tert-Butylbenzene	0.949	0.0150	1.000	0	94.9	80	120				
1,2,3-Trichloropropane	0.958	0.0300	1.000	0	95.8	80	120				
1,2,4-Trichlorobenzene	1.03	0.0600	1.000	0	103	80	120				
sec-Butylbenzene	1.01	0.150	1.000	0	101	80	120				
4-Isopropyltoluene	0.994	0.200	1.000	0	99.4	80	120				
1,3-Dichlorobenzene	0.936	0.0200	1.000	0	93.6	80	120				
1,4-Dichlorobenzene	1.03	0.0150	1.000	0	103	80	120				
n-Butylbenzene	1.00	0.0200	1.000	0	100	80	120				
1,2-Dichlorobenzene	0.959	0.0200	1.000	0	95.9	80	120				
1,2-Dibromo-3-chloropropane	0.923	0.0300	1.000	0	92.3	80	120				
1,2,4-Trimethylbenzene	0.994	0.0150	1.000	0	99.4	80	120				
Hexachloro-1,3-butadiene	0.945	0.0400	1.000	0	94.5	80	120				
Naphthalene	1.02	0.100	1.000	0	102	80	120				
1,2,3-Trichlorobenzene	0.999	0.0600	1.000	0	99.9	80	120				
Surr: Dibromofluoromethane	1.25		1.250		100	79.5	124				
Surr: Toluene-d8	1.27		1.250		101	77.5	124				
Surr: 1-Bromo-4-fluorobenzene	1.20		1.250		96.1	60.5	139				

Sample ID: MB-41166		SampType: MBLK		Units: mg/Kg		Prep Date: 8/10/2023		RunNo: 85899			
Client ID: MBLKS		Batch ID: 41166				Analysis Date: 8/12/2023		SeqNo: 1792693			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane (CFC-12)	ND	0.0150									
Chloromethane	ND	0.0500									
Vinyl chloride	ND	0.0250									

Work Order: 2308151
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QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: MB-41166	SampType: MBLK	Units: mg/Kg	Prep Date: 8/10/2023	RunNo: 85899							
Client ID: MBLKS	Batch ID: 41166		Analysis Date: 8/12/2023	SeqNo: 1792693							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Bromomethane	ND	0.0250									
Trichlorofluoromethane (CFC-11)	ND	0.0200									
Chloroethane	ND	0.0750									
1,1-Dichloroethene	ND	0.100									
Acetone	ND	0.250									
Methylene chloride	ND	0.0350									
trans-1,2-Dichloroethene	ND	0.0100									
Methyl tert-butyl ether (MTBE)	ND	0.0200									
1,1-Dichloroethane	ND	0.0250									
cis-1,2-Dichloroethene	ND	0.0150									
(MEK) 2-Butanone	ND	0.300									
Chloroform	ND	0.0175									
1,1,1-Trichloroethane (TCA)	ND	0.0200									
1,1-Dichloropropene	ND	0.0200									
Carbon tetrachloride	ND	0.0250									
1,2-Dichloroethane (EDC)	ND	0.0200									
Benzene	ND	0.0175									
Trichloroethene (TCE)	ND	0.0150									
1,2-Dichloropropane	ND	0.0250									
Bromodichloromethane	ND	0.0250									
Dibromomethane	ND	0.0125									
cis-1,3-Dichloropropene	ND	0.0150									
Toluene	ND	0.0300									
Trans-1,3-Dichloropropylene	ND	0.0200									
Methyl Isobutyl Ketone (MIBK)	ND	0.0600									
1,1,2-Trichloroethane	ND	0.0125									
1,3-Dichloropropane	ND	0.0100									
Tetrachloroethene (PCE)	ND	0.0150									
Dibromochloromethane	ND	0.0150									
1,2-Dibromoethane (EDB)	ND	0.0100									
2-Hexanone (MBK)	ND	0.0625									
Chlorobenzene	ND	0.0150									

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QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: MB-41166	SampType: MBLK	Units: mg/Kg	Prep Date: 8/10/2023	RunNo: 85899							
Client ID: MBLKS	Batch ID: 41166	Analysis Date: 8/12/2023	SeqNo: 1792693								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	0.0250									
Ethylbenzene	ND	0.0250									
m,p-Xylene	ND	0.0500									
o-Xylene	ND	0.0250									
Styrene	ND	0.0100									
Isopropylbenzene	ND	0.0150									
Bromoform	ND	0.0150									
1,1,2,2-Tetrachloroethane	ND	0.200									
n-Propylbenzene	ND	0.0150									
Bromobenzene	ND	0.0125									
1,3,5-Trimethylbenzene	ND	0.0150									
2-Chlorotoluene	ND	0.0165									
4-Chlorotoluene	ND	0.0165									
tert-Butylbenzene	ND	0.0150									
1,2,3-Trichloropropane	ND	0.0300									
1,2,4-Trichlorobenzene	ND	0.0600									
sec-Butylbenzene	ND	0.150									
4-Isopropyltoluene	ND	0.200									
1,3-Dichlorobenzene	ND	0.0200									
1,4-Dichlorobenzene	ND	0.0150									
n-Butylbenzene	ND	0.0200									
1,2-Dichlorobenzene	ND	0.0200									
1,2-Dibromo-3-chloropropane	ND	0.0300									
1,2,4-Trimethylbenzene	ND	0.0150									
Hexachloro-1,3-butadiene	ND	0.0400									
Naphthalene	ND	0.100									
1,2,3-Trichlorobenzene	ND	0.0600									
Surr: Dibromofluoromethane	1.21		1.250		97.1	79.5	124				
Surr: Toluene-d8	1.24		1.250		98.8	77.5	124				
Surr: 1-Bromo-4-fluorobenzene	1.23		1.250		98.1	60.5	139				

Work Order: 2308151
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: CCV-41166B	SampType: CCV	Units: µg/L	Prep Date: 8/12/2023	RunNo: 85899
Client ID: CCV	Batch ID: 41166		Analysis Date: 8/12/2023	SeqNo: 1792701

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane (CFC-12)	20.6	0.0150	20.00	0	103	80	120				
Chloromethane	17.5	0.0500	20.00	0	87.5	80	120				
Vinyl chloride	17.9	0.0250	20.00	0	89.7	80	120				
Bromomethane	21.9	0.0250	20.00	0	109	80	120				
Trichlorofluoromethane (CFC-11)	21.0	0.0200	20.00	0	105	80	120				
Chloroethane	20.2	0.0750	20.00	0	101	80	120				
1,1-Dichloroethene	17.7	0.100	20.00	0	88.4	80	120				
Acetone	50.0	0.250	50.00	0	100	80	120				
Methylene chloride	19.5	0.0350	20.00	0	97.3	80	120				
trans-1,2-Dichloroethene	18.7	0.0100	20.00	0	93.4	80	120				
Methyl tert-butyl ether (MTBE)	17.8	0.0200	20.00	0	89.2	80	120				
1,1-Dichloroethane	18.9	0.0250	20.00	0	94.4	80	120				
cis-1,2-Dichloroethene	19.0	0.0150	20.00	0	94.9	80	120				
(MEK) 2-Butanone	46.2	0.300	50.00	0	92.4	80	120				
Chloroform	20.0	0.0175	20.00	0	100	80	120				
1,1,1-Trichloroethane (TCA)	18.9	0.0200	20.00	0	94.3	80	120				
1,1-Dichloropropene	18.5	0.0200	20.00	0	92.6	80	120				
Carbon tetrachloride	19.4	0.0250	20.00	0	97.1	80	120				
1,2-Dichloroethane (EDC)	19.8	0.0200	20.00	0	98.9	80	120				
Benzene	19.1	0.0175	20.00	0	95.6	80	120				
Trichloroethene (TCE)	21.2	0.0150	20.00	0	106	80	120				
1,2-Dichloropropane	19.5	0.0250	20.00	0	97.3	80	120				
Bromodichloromethane	19.2	0.0250	20.00	0	95.8	80	120				
Dibromomethane	19.4	0.0125	20.00	0	97.1	80	120				
cis-1,3-Dichloropropene	17.1	0.0150	20.00	0	85.7	80	120				
Toluene	19.9	0.0300	20.00	0	99.3	80	120				
Trans-1,3-Dichloropropylene	17.1	0.0200	20.00	0	85.7	80	120				
Methyl Isobutyl Ketone (MIBK)	47.5	0.0600	50.00	0	95.1	80	120				
1,1,2-Trichloroethane	19.2	0.0125	20.00	0	95.8	80	120				
1,3-Dichloropropane	19.2	0.0100	20.00	0	96.2	80	120				
Tetrachloroethene (PCE)	18.9	0.0150	20.00	0	94.4	80	120				
Dibromochloromethane	18.6	0.0150	20.00	0	92.8	80	120				

Work Order: 2308151
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: CCV-41166B	SampType: CCV	Units: µg/L				Prep Date: 8/12/2023	RunNo: 85899				
Client ID: CCV	Batch ID: 41166					Analysis Date: 8/12/2023	SeqNo: 1792701				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromoethane (EDB)	20.0	0.0100	20.00	0	100	80	120				
2-Hexanone (MBK)	44.3	0.0625	50.00	0	88.7	80	120				
Chlorobenzene	19.0	0.0150	20.00	0	95.0	80	120				
1,1,1,2-Tetrachloroethane	19.9	0.0250	20.00	0	99.7	80	120				
Ethylbenzene	18.7	0.0250	20.00	0	93.6	80	120				
m,p-Xylene	39.8	0.0500	40.00	0	99.4	80	120				
o-Xylene	19.6	0.0250	20.00	0	98.2	80	120				
Styrene	19.1	0.0100	20.00	0	95.6	80	120				
Isopropylbenzene	19.9	0.0150	20.00	0	99.5	80	120				
Bromoform	18.4	0.0150	20.00	0	92.0	80	120				
1,1,2,2-Tetrachloroethane	15.1	0.200	20.00	0	75.5	80	120				S
n-Propylbenzene	19.6	0.0150	20.00	0	97.9	80	120				
Bromobenzene	18.8	0.0125	20.00	0	93.8	80	120				
1,3,5-Trimethylbenzene	18.3	0.0150	20.00	0	91.6	80	120				
2-Chlorotoluene	18.3	0.0165	20.00	0	91.4	80	120				
4-Chlorotoluene	19.7	0.0165	20.00	0	98.3	80	120				
tert-Butylbenzene	18.4	0.0150	20.00	0	91.8	80	120				
1,2,3-Trichloropropane	17.3	0.0300	20.00	0	86.5	80	120				
1,2,4-Trichlorobenzene	19.3	0.0600	20.00	0	96.5	80	120				
sec-Butylbenzene	19.4	0.150	20.00	0	97.2	80	120				
4-Isopropyltoluene	19.1	0.200	20.00	0	95.4	80	120				
1,3-Dichlorobenzene	18.6	0.0200	20.00	0	93.1	80	120				
1,4-Dichlorobenzene	20.4	0.0150	20.00	0	102	80	120				
n-Butylbenzene	19.1	0.0200	20.00	0	95.7	80	120				
1,2-Dichlorobenzene	19.0	0.0200	20.00	0	94.9	80	120				
1,2-Dibromo-3-chloropropane	17.4	0.0300	20.00	0	86.8	80	120				
1,2,4-Trimethylbenzene	19.7	0.0150	20.00	0	98.5	80	120				
Hexachloro-1,3-butadiene	17.9	0.0400	20.00	0	89.6	80	120				
Naphthalene	18.5	0.100	20.00	0	92.5	80	120				
1,2,3-Trichlorobenzene	18.7	0.0600	20.00	0	93.6	80	120				
Surr: Dibromofluoromethane	25.3		25.00		101	80	120				
Surr: Toluene-d8	25.5		25.00		102	80	120				

Work Order: 2308151
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: CCV-41166B	SampType: CCV	Units: µg/L	Prep Date: 8/12/2023	RunNo: 85899							
Client ID: CCV	Batch ID: 41166		Analysis Date: 8/12/2023	SeqNo: 1792701							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 1-Bromo-4-fluorobenzene	24.0		25.00		96.1	80	120				

NOTES:

S - Outlying spike recovery observed (low bias). Samples will be qualified with a Q.

Sample ID: CCV-41178B	SampType: CCV	Units: µg/L	Prep Date: 8/12/2023	RunNo: 85876							
Client ID: CCV	Batch ID: 41178		Analysis Date: 8/12/2023	SeqNo: 1792953							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane (CFC-12)	20.6	0.0150	20.00	0	103	80	120				
Chloromethane	17.5	0.0500	20.00	0	87.5	80	120				
Vinyl chloride	17.9	0.0250	20.00	0	89.7	80	120				
Bromomethane	21.9	0.0250	20.00	0	109	80	120				
Trichlorofluoromethane (CFC-11)	21.0	0.0200	20.00	0	105	80	120				
Chloroethane	20.2	0.0750	20.00	0	101	80	120				
1,1-Dichloroethene	17.7	0.100	20.00	0	88.4	80	120				
Acetone	50.0	0.250	50.00	0	100	80	120				
Methylene chloride	19.5	0.0350	20.00	0	97.3	80	120				
trans-1,2-Dichloroethene	18.7	0.0100	20.00	0	93.4	80	120				
Methyl tert-butyl ether (MTBE)	17.8	0.0200	20.00	0	89.2	80	120				
1,1-Dichloroethane	18.9	0.0250	20.00	0	94.4	80	120				
cis-1,2-Dichloroethene	19.0	0.0150	20.00	0	94.9	80	120				
(MEK) 2-Butanone	46.2	0.300	50.00	0	92.4	80	120				
Chloroform	20.0	0.0175	20.00	0	100	80	120				
1,1,1-Trichloroethane (TCA)	18.9	0.0200	20.00	0	94.3	80	120				
1,1-Dichloropropene	18.5	0.0200	20.00	0	92.6	80	120				
Carbon tetrachloride	19.4	0.0250	20.00	0	97.1	80	120				
1,2-Dichloroethane (EDC)	19.8	0.0200	20.00	0	98.9	80	120				
Benzene	19.1	0.0175	20.00	0	95.6	80	120				
Trichloroethene (TCE)	21.2	0.0150	20.00	0	106	80	120				
1,2-Dichloropropane	19.5	0.0250	20.00	0	97.3	80	120				
Bromodichloromethane	19.2	0.0250	20.00	0	95.8	80	120				
Dibromomethane	19.4	0.0125	20.00	0	97.1	80	120				

Work Order: 2308151
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: CCV-41178B	SampType: CCV	Units: µg/L	Prep Date: 8/12/2023	RunNo: 85876							
Client ID: CCV	Batch ID: 41178	Analysis Date: 8/12/2023	SeqNo: 1792953								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
cis-1,3-Dichloropropene	17.1	0.0150	20.00	0	85.7	80	120				
Toluene	19.9	0.0300	20.00	0	99.3	80	120				
Trans-1,3-Dichloropropylene	17.1	0.0200	20.00	0	85.7	80	120				
Methyl Isobutyl Ketone (MIBK)	47.5	0.0600	50.00	0	95.1	80	120				
1,1,2-Trichloroethane	19.2	0.0125	20.00	0	95.8	80	120				
1,3-Dichloropropane	19.2	0.0100	20.00	0	96.2	80	120				
Tetrachloroethene (PCE)	18.9	0.0150	20.00	0	94.4	80	120				
Dibromochloromethane	18.6	0.0150	20.00	0	92.8	80	120				
1,2-Dibromoethane (EDB)	20.0	0.0100	20.00	0	100	80	120				
2-Hexanone (MBK)	44.3	0.0625	50.00	0	88.7	80	120				
Chlorobenzene	19.0	0.0150	20.00	0	95.0	80	120				
1,1,1,2-Tetrachloroethane	19.9	0.0250	20.00	0	99.7	80	120				
Ethylbenzene	18.7	0.0250	20.00	0	93.6	80	120				
m,p-Xylene	39.8	0.0500	40.00	0	99.4	80	120				
o-Xylene	19.6	0.0250	20.00	0	98.2	80	120				
Styrene	19.1	0.0100	20.00	0	95.6	80	120				
Isopropylbenzene	19.9	0.0150	20.00	0	99.5	80	120				
Bromoform	18.4	0.0150	20.00	0	92.0	80	120				
1,1,2,2-Tetrachloroethane	15.1	0.200	20.00	0	75.5	80	120				S
n-Propylbenzene	19.6	0.0150	20.00	0	97.9	80	120				
Bromobenzene	18.8	0.0125	20.00	0	93.8	80	120				
1,3,5-Trimethylbenzene	18.3	0.0150	20.00	0	91.6	80	120				
2-Chlorotoluene	18.3	0.0165	20.00	0	91.4	80	120				
4-Chlorotoluene	19.7	0.0165	20.00	0	98.3	80	120				
tert-Butylbenzene	18.4	0.0150	20.00	0	91.8	80	120				
1,2,3-Trichloropropane	17.3	0.0300	20.00	0	86.5	80	120				
1,2,4-Trichlorobenzene	19.3	0.0600	20.00	0	96.5	80	120				
sec-Butylbenzene	19.4	0.150	20.00	0	97.2	80	120				
4-Isopropyltoluene	19.1	0.200	20.00	0	95.4	80	120				
1,3-Dichlorobenzene	18.6	0.0200	20.00	0	93.1	80	120				
1,4-Dichlorobenzene	20.4	0.0150	20.00	0	102	80	120				
n-Butylbenzene	19.1	0.0200	20.00	0	95.7	80	120				

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QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260D

Sample ID: CCV-41178B		SampType: CCV		Units: µg/L		Prep Date: 8/12/2023		RunNo: 85876			
Client ID: CCV		Batch ID: 41178				Analysis Date: 8/12/2023		SeqNo: 1792953			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichlorobenzene	19.0	0.0200	20.00	0	94.9	80	120				
1,2-Dibromo-3-chloropropane	17.4	0.0300	20.00	0	86.8	80	120				
1,2,4-Trimethylbenzene	19.7	0.0150	20.00	0	98.5	80	120				
Hexachloro-1,3-butadiene	17.9	0.0400	20.00	0	89.6	80	120				
Naphthalene	18.5	0.100	20.00	0	92.5	80	120				
1,2,3-Trichlorobenzene	18.7	0.0600	20.00	0	93.6	80	120				
Surr: Dibromofluoromethane	25.3		25.00		101	80	120				
Surr: Toluene-d8	25.5		25.00		102	80	120				
Surr: 1-Bromo-4-fluorobenzene	24.0		25.00		96.1	80	120				

Sample ID: 2308044-014BDUP		SampType: DUP		Units: mg/Kg-dry		Prep Date: 8/10/2023		RunNo: 85899			
Client ID: BATCH		Batch ID: 41166				Analysis Date: 8/12/2023		SeqNo: 1792703			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane (CFC-12)	ND	0.0167						0		30	
Chloromethane	ND	0.0557						0		30	
Vinyl chloride	ND	0.0279						0		30	
Bromomethane	ND	0.0279						0		30	
Trichlorofluoromethane (CFC-11)	ND	0.0223						0		30	
Chloroethane	ND	0.0836						0		30	
1,1-Dichloroethene	ND	0.111						0		30	
Acetone	ND	0.279						0		30	
Methylene chloride	ND	0.0390						0		30	
trans-1,2-Dichloroethene	ND	0.0111						0		30	
Methyl tert-butyl ether (MTBE)	ND	0.0223						0		30	
1,1-Dichloroethane	ND	0.0279						0		30	
cis-1,2-Dichloroethene	ND	0.0167						0		30	
(MEK) 2-Butanone	ND	0.334						0		30	
Chloroform	ND	0.0195						0		30	
1,1,1-Trichloroethane (TCA)	ND	0.0223						0		30	
1,1-Dichloropropene	ND	0.0223						0		30	

Work Order: 2308151
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: 2308044-014BDUP	SampType: DUP	Units: mg/Kg-dry	Prep Date: 8/10/2023	RunNo: 85899							
Client ID: BATCH	Batch ID: 41166		Analysis Date: 8/12/2023	SeqNo: 1792703							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Carbon tetrachloride	ND	0.0279						0		30	
1,2-Dichloroethane (EDC)	ND	0.0223						0		30	
Benzene	ND	0.0195						0		30	
Trichloroethene (TCE)	ND	0.0167						0		30	
1,2-Dichloropropane	ND	0.0279						0		30	
Bromodichloromethane	ND	0.0279						0		30	
Dibromomethane	ND	0.0139						0		30	
cis-1,3-Dichloropropene	ND	0.0167						0		30	
Toluene	ND	0.0334						0		30	
Trans-1,3-Dichloropropylene	ND	0.0223						0		30	
Methyl Isobutyl Ketone (MIBK)	ND	0.0669						0		30	
1,1,2-Trichloroethane	ND	0.0139						0		30	
1,3-Dichloropropane	ND	0.0111						0		30	
Tetrachloroethene (PCE)	ND	0.0167						0		30	
Dibromochloromethane	ND	0.0167						0		30	
1,2-Dibromoethane (EDB)	ND	0.0111						0		30	
2-Hexanone (MBK)	ND	0.0697						0		30	
Chlorobenzene	ND	0.0167						0		30	
1,1,1,2-Tetrachloroethane	ND	0.0279						0		30	
Ethylbenzene	ND	0.0279						0		30	
m,p-Xylene	ND	0.0557						0		30	
o-Xylene	ND	0.0279						0		30	
Styrene	ND	0.0111						0		30	
Isopropylbenzene	ND	0.0167						0		30	
Bromoform	ND	0.0167						0		30	
1,1,2,2-Tetrachloroethane	ND	0.223						0		30	Q
n-Propylbenzene	ND	0.0167						0		30	
Bromobenzene	ND	0.0139						0		30	
1,3,5-Trimethylbenzene	ND	0.0167						0		30	
2-Chlorotoluene	ND	0.0184						0		30	
4-Chlorotoluene	ND	0.0184						0		30	
tert-Butylbenzene	ND	0.0167						0		30	

Work Order: 2308151
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: 2308044-014BDUP	SampType: DUP	Units: mg/Kg-dry	Prep Date: 8/10/2023	RunNo: 85899							
Client ID: BATCH	Batch ID: 41166	Analysis Date: 8/12/2023	SeqNo: 1792703								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,3-Trichloropropane	ND	0.0334						0		30	
1,2,4-Trichlorobenzene	ND	0.0669						0		30	
sec-Butylbenzene	ND	0.167						0		30	
4-Isopropyltoluene	ND	0.223						0		30	
1,3-Dichlorobenzene	ND	0.0223						0		30	
1,4-Dichlorobenzene	ND	0.0167						0		30	
n-Butylbenzene	ND	0.0223						0		30	
1,2-Dichlorobenzene	ND	0.0223						0		30	
1,2-Dibromo-3-chloropropane	ND	0.0334						0		30	
1,2,4-Trimethylbenzene	ND	0.0167						0		30	
Hexachloro-1,3-butadiene	ND	0.0446						0		30	
Naphthalene	ND	0.111						0		30	
1,2,3-Trichlorobenzene	ND	0.0669						0		30	
Surr: Dibromofluoromethane	1.40		1.393		100	79.5	124		0		
Surr: Toluene-d8	1.37		1.393		98.3	77.5	124		0		
Surr: 1-Bromo-4-fluorobenzene	1.36		1.393		97.8	60.5	139		0		

NOTES:

Q - Associated calibration verification is below acceptance criteria. Result may be low-biased.

Sample ID: 2308044-023BDUP	SampType: DUP	Units: mg/Kg-dry	Prep Date: 8/10/2023	RunNo: 85899							
Client ID: BATCH	Batch ID: 41166	Analysis Date: 8/12/2023	SeqNo: 1792707								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane (CFC-12)	ND	0.0198						0		30	
Chloromethane	ND	0.0660						0		30	
Vinyl chloride	ND	0.0330						0		30	
Bromomethane	ND	0.0330						0		30	
Trichlorofluoromethane (CFC-11)	ND	0.0264						0		30	
Chloroethane	ND	0.0990						0		30	
1,1-Dichloroethene	ND	0.132						0		30	
Acetone	ND	0.330						0		30	
Methylene chloride	ND	0.0462						0		30	

Work Order: 2308151
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: 2308044-023BDUP	SampType: DUP	Units: mg/Kg-dry	Prep Date: 8/10/2023	RunNo: 85899							
Client ID: BATCH	Batch ID: 41166		Analysis Date: 8/12/2023	SeqNo: 1792707							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

trans-1,2-Dichloroethene	ND	0.0132						0		30	
Methyl tert-butyl ether (MTBE)	ND	0.0264						0		30	
1,1-Dichloroethane	ND	0.0330						0		30	
cis-1,2-Dichloroethene	ND	0.0198						0		30	
(MEK) 2-Butanone	ND	0.396						0		30	
Chloroform	ND	0.0231						0		30	
1,1,1-Trichloroethane (TCA)	ND	0.0264						0		30	
1,1-Dichloropropene	ND	0.0264						0		30	
Carbon tetrachloride	ND	0.0330						0		30	
1,2-Dichloroethane (EDC)	ND	0.0264						0		30	
Benzene	ND	0.0231						0		30	
Trichloroethene (TCE)	ND	0.0198						0		30	
1,2-Dichloropropane	ND	0.0330						0		30	
Bromodichloromethane	ND	0.0330						0		30	
Dibromomethane	ND	0.0165						0		30	
cis-1,3-Dichloropropene	ND	0.0198						0		30	
Toluene	ND	0.0396						0		30	
Trans-1,3-Dichloropropylene	ND	0.0264						0		30	
Methyl Isobutyl Ketone (MIBK)	ND	0.0792						0		30	
1,1,2-Trichloroethane	ND	0.0165						0		30	
1,3-Dichloropropane	ND	0.0132						0		30	
Tetrachloroethene (PCE)	ND	0.0198						0		30	
Dibromochloromethane	ND	0.0198						0		30	
1,2-Dibromoethane (EDB)	ND	0.0132						0		30	
2-Hexanone (MBK)	ND	0.0825						0		30	
Chlorobenzene	ND	0.0198						0		30	
1,1,1,2-Tetrachloroethane	ND	0.0330						0		30	
Ethylbenzene	ND	0.0330						0		30	
m,p-Xylene	ND	0.0660						0		30	
o-Xylene	ND	0.0330						0		30	
Styrene	ND	0.0132						0		30	
Isopropylbenzene	ND	0.0198						0		30	

Work Order: 2308151
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: 2308044-023BDUP	SampType: DUP	Units: mg/Kg-dry	Prep Date: 8/10/2023	RunNo: 85899
Client ID: BATCH	Batch ID: 41166		Analysis Date: 8/12/2023	SeqNo: 1792707

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromoform	ND	0.0198						0		30	
1,1,2,2-Tetrachloroethane	ND	0.264						0		30	Q
n-Propylbenzene	ND	0.0198						0		30	
Bromobenzene	ND	0.0165						0		30	
1,3,5-Trimethylbenzene	ND	0.0198						0		30	
2-Chlorotoluene	ND	0.0218						0		30	
4-Chlorotoluene	ND	0.0218						0		30	
tert-Butylbenzene	ND	0.0198						0		30	
1,2,3-Trichloropropane	ND	0.0396						0		30	
1,2,4-Trichlorobenzene	ND	0.0792						0		30	
sec-Butylbenzene	ND	0.198						0		30	
4-Isopropyltoluene	ND	0.264						0		30	
1,3-Dichlorobenzene	ND	0.0264						0		30	
1,4-Dichlorobenzene	ND	0.0198						0		30	
n-Butylbenzene	ND	0.0264						0		30	
1,2-Dichlorobenzene	ND	0.0264						0		30	
1,2-Dibromo-3-chloropropane	ND	0.0396						0		30	
1,2,4-Trimethylbenzene	ND	0.0198						0		30	
Hexachloro-1,3-butadiene	ND	0.0528						0		30	
Naphthalene	ND	0.132						0		30	
1,2,3-Trichlorobenzene	ND	0.0792						0		30	
Surr: Dibromofluoromethane	1.64		1.651		99.4	79.5	124		0		
Surr: Toluene-d8	1.63		1.651		98.9	77.5	124		0		
Surr: 1-Bromo-4-fluorobenzene	1.62		1.651		98.0	60.5	139		0		

NOTES:

Q - Associated calibration verification is below acceptance criteria. Result may be low-biased.

Sample ID: 2308044-017BMS	SampType: MS	Units: mg/Kg-dry	Prep Date: 8/10/2023	RunNo: 85899
Client ID: BATCH	Batch ID: 41166		Analysis Date: 8/12/2023	SeqNo: 1792718

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane (CFC-12)	1.35	0.0163	1.087	0	124	5	160				

Work Order: 2308151
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: 2308044-017BMS	SampType: MS	Units: mg/Kg-dry	Prep Date: 8/10/2023	RunNo: 85899
Client ID: BATCH	Batch ID: 41166		Analysis Date: 8/12/2023	SeqNo: 1792718

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloromethane	1.23	0.0544	1.087	0	113	17.7	160				
Vinyl chloride	1.07	0.0272	1.087	0	98.0	21.7	160				
Bromomethane	1.28	0.0272	1.087	0	118	20	160				
Trichlorofluoromethane (CFC-11)	1.35	0.0217	1.087	0	125	5	160				
Chloroethane	1.58	0.0815	1.087	0	146	5	160				
1,1-Dichloroethene	1.17	0.109	1.087	0	107	21.7	160				
Acetone	2.07	0.272	2.718	0	76.1	20.7	160				
Methylene chloride	1.17	0.0381	1.087	0.03080	105	46.7	154				
trans-1,2-Dichloroethene	1.17	0.0109	1.087	0	107	41.9	160				
Methyl tert-butyl ether (MTBE)	0.968	0.0217	1.087	0	89.1	70.3	138				
1,1-Dichloroethane	1.16	0.0272	1.087	0	106	45.4	160				
cis-1,2-Dichloroethene	1.06	0.0163	1.087	0	97.1	52.6	151				
(MEK) 2-Butanone	2.01	0.326	2.718	0	73.8	44.3	160				
Chloroform	1.13	0.0190	1.087	0	104	52.7	148				
1,1,1-Trichloroethane (TCA)	1.11	0.0217	1.087	0	102	39.7	160				
1,1-Dichloropropene	1.08	0.0217	1.087	0	99.8	40.1	160				
Carbon tetrachloride	1.17	0.0272	1.087	0	107	34.2	160				
1,2-Dichloroethane (EDC)	1.10	0.0217	1.087	0	101	64.6	137				
Benzene	1.05	0.0190	1.087	0	96.3	52.3	147				
Trichloroethene (TCE)	1.07	0.0163	1.087	0	98.8	43.1	160				
1,2-Dichloropropane	1.06	0.0272	1.087	0	97.7	59.5	142				
Bromodichloromethane	1.05	0.0272	1.087	0	96.5	61.4	146				
Dibromomethane	1.07	0.0136	1.087	0	98.2	72.4	140				
cis-1,3-Dichloropropene	0.892	0.0163	1.087	0	82.1	59.6	136				
Toluene	1.12	0.0326	1.087	0	103	50.1	147				
Trans-1,3-Dichloropropylene	0.892	0.0217	1.087	0	82.1	59.3	139				
Methyl Isobutyl Ketone (MIBK)	2.76	0.0652	2.718	0	102	48	160				
1,1,2-Trichloroethane	1.06	0.0136	1.087	0	97.9	70.4	140				
1,3-Dichloropropane	1.04	0.0109	1.087	0	95.5	69.2	140				
Tetrachloroethene (PCE)	1.14	0.0163	1.087	0	105	44.6	160				
Dibromochloromethane	1.02	0.0163	1.087	0	94.0	64.7	141				
1,2-Dibromoethane (EDB)	1.12	0.0109	1.087	0	103	70.4	143				

Work Order: 2308151
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: 2308044-017BMS	SampType: MS	Units: mg/Kg-dry			Prep Date: 8/10/2023	RunNo: 85899					
Client ID: BATCH	Batch ID: 41166				Analysis Date: 8/12/2023	SeqNo: 1792718					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Hexanone (MBK)	2.24	0.0679	2.718	0	82.3	33	160				
Chlorobenzene	1.07	0.0163	1.087	0	98.6	59.6	134				
1,1,1,2-Tetrachloroethane	1.09	0.0272	1.087	0	101	58	141				
Ethylbenzene	1.07	0.0272	1.087	0	98.2	51.7	143				
m,p-Xylene	2.26	0.0544	2.174	0	104	54.5	144				
o-Xylene	1.09	0.0272	1.087	0	99.8	57.1	141				
Styrene	1.07	0.0109	1.087	0	98.0	63.4	135				
Isopropylbenzene	1.15	0.0163	1.087	0	106	47.8	152				
Bromoform	1.06	0.0163	1.087	0	97.8	70.1	134				
1,1,2,2-Tetrachloroethane	1.05	0.217	1.087	0	96.7	43.2	157				
n-Propylbenzene	1.14	0.0163	1.087	0	105	47.5	152				
Bromobenzene	1.06	0.0136	1.087	0	97.9	66.9	133				
1,3,5-Trimethylbenzene	1.05	0.0163	1.087	0	96.7	51.5	146				
2-Chlorotoluene	1.03	0.0179	1.087	0	94.3	54.5	137				
4-Chlorotoluene	1.09	0.0179	1.087	0	101	56.5	138				
tert-Butylbenzene	1.07	0.0163	1.087	0	98.7	41.8	152				
1,2,3-Trichloropropane	0.941	0.0326	1.087	0	86.6	64.3	132				
1,2,4-Trichlorobenzene	1.10	0.0652	1.087	0	102	58.1	135				
sec-Butylbenzene	1.15	0.163	1.087	0	106	44.2	155				
4-Isopropyltoluene	1.12	0.217	1.087	0	103	46	156				
1,3-Dichlorobenzene	1.06	0.0217	1.087	0	97.1	62.6	132				
1,4-Dichlorobenzene	1.12	0.0163	1.087	0	103	62.7	125				
n-Butylbenzene	1.11	0.0217	1.087	0	102	43.4	155				
1,2-Dichlorobenzene	1.07	0.0217	1.087	0	98.6	67.9	128				
1,2-Dibromo-3-chloropropane	0.990	0.0326	1.087	0	91.1	61.9	135				
1,2,4-Trimethylbenzene	1.12	0.0163	1.087	0	103	55.5	144				
Hexachloro-1,3-butadiene	1.03	0.0435	1.087	0	94.7	38.7	158				
Naphthalene	1.14	0.109	1.087	0	105	56.6	148				
1,2,3-Trichlorobenzene	1.11	0.0652	1.087	0	102	58.1	142				
Surr: Dibromofluoromethane	1.37		1.359		101	79.5	124				
Surr: Toluene-d8	1.37		1.359		100	77.5	124				
Surr: 1-Bromo-4-fluorobenzene	1.30		1.359		95.8	60.5	139				

Work Order: 2308151
CLIENT: GeoEngineers
Project: S Jackson Street

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: 2308044-017BMS	SampType: MS	Units: mg/Kg-dry	Prep Date: 8/10/2023	RunNo: 85899							
Client ID: BATCH	Batch ID: 41166	Analysis Date: 8/12/2023	SeqNo: 1792718								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sample ID: CCV-41166C	SampType: CCV	Units: µg/L	Prep Date: 8/14/2023	RunNo: 85899							
Client ID: CCV	Batch ID: 41166	Analysis Date: 8/14/2023	SeqNo: 1792722								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
n-Propylbenzene	21.5	0.0150	20.00	0	107	80	120				
Surr: Dibromofluoromethane	25.3		25.00		101	80	120				
Surr: Toluene-d8	25.2		25.00		101	80	120				
Surr: 1-Bromo-4-fluorobenzene	23.9		25.00		95.7	80	120				

Sample ID: CCV-41178C	SampType: CCV	Units: µg/L	Prep Date: 8/14/2023	RunNo: 85876							
Client ID: CCV	Batch ID: 41178	Analysis Date: 8/14/2023	SeqNo: 1792970								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
n-Propylbenzene	21.5	0.0150	20.00	0	107	80	120				
n-Butylbenzene	22.0	0.0200	20.00	0	110	80	120				
Surr: Dibromofluoromethane	25.3		25.00		101	80	120				
Surr: Toluene-d8	25.2		25.00		101	80	120				
Surr: 1-Bromo-4-fluorobenzene	23.9		25.00		95.7	80	120				

Client Name: GEI	Work Order Number: 2308151
Logged by: Morgan Wilson	Date Received: 8/10/2023 11:11:00 AM

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
2. How was the sample delivered? Courier

Log In

3. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes No Not Present
4. Was an attempt made to cool the samples? Yes No NA
5. Were all items received at a temperature of >2°C to 6°C * Yes No NA
6. Sample(s) in proper container(s)? Yes No
7. Sufficient sample volume for indicated test(s)? Yes No
8. Are samples properly preserved? Yes No
9. Was preservative added to bottles? Yes No NA
10. Is there headspace in the VOA vials? Yes No NA
11. Did all samples containers arrive in good condition(unbroken)? Yes No
12. Does paperwork match bottle labels? Yes No
13. Are matrices correctly identified on Chain of Custody? Yes No
14. Is it clear what analyses were requested? Yes No
15. Were all holding times able to be met? Yes No

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

17. Additional remarks:

Item Information

Item #	Temp °C
Sample	3.2

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C



Fremont
AN ALLIANCE FERRISCI GROUP COMPANY
Analytical

3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790

Chain of Custody Record & Laboratory Services Agreement

Date: 8/8/23 Page: 1 of 2

Project Name: South Jackson Street

Project No: 24504-001-01

Collected by: Paul Robinette

Location: Seattle, WA

Report To (PM): Robert Trahan

Laboratory Project No (Internal): 2398151
Special Remarks: Level 2B QA

Client: GeoEngineers

Address: 2101 4th Ave Ste 950

City, State, Zip: Seattle, WA 98121

Telephone: 425.861.2674

Email(s): rtrahan@geoengineers.com, probinette@geoengineers.com

Disposal: Samples will be disposed in 30 days unless otherwise requested.
 Retain volume (specify above) Return to client

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	# of Cont.	Analytes												Comments	
					VOCs (EPA 8260 / 624)	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/heavy Oil Range Organics (DM)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T) Dissolved (D)	Anions (AC)***	EDB (8011)		
1 R1-NSW-98	8/8/23	0900	S	1														Lead - STD TAT
2 UST2-NSW-93	8/8/23	1400	S	3	X	X	X	X	X	X	X	X	X	X	X	X	X	2-day TAT
3 UST2-MSW-93	8/8/23	1355	S	3	X	X	X	X	X	X	X	X	X	X	X	X	X	Hold
4 UST2-SSW-93	8/8/23	1405	S	3	X	X	X	X	X	X	X	X	X	X	X	X	X	Hold
5 UST2-B-89	8/8/23	1350	S	3	X	X	X	X	X	X	X	X	X	X	X	X	X	Hold
6 UST3-NSW-93	8/8/23	1515	S	3	X	X	X	X	X	X	X	X	X	X	X	X	X	Hold
7 UST3-SSW-93	8/8/23	1525	S	3	X	X	X	X	X	X	X	X	X	X	X	X	X	Hold
8 UST3-MSW-93	8/8/23	1530	S	3	X	X	X	X	X	X	X	X	X	X	X	X	X	Hold
9 UST3-B-90	8/8/23	1520	S	3	X	X	X	X	X	X	X	X	X	X	X	X	X	Hold
10																		

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water
 **Metals (Circle): MICA-5 RCRA-8 Priority Pollutants TAL Individual Ag Al As R Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Ti Tl V Zn
 ***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate-Nitrite

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Turn-around Time:
 2 Day Standard Next Day Same Day (specify)

Reinquished (Signature) _____ Print Name _____ Date/Time _____
 Received (Signature) _____ Print Name _____ Date/Time _____



Fremont Analytical
AN ALLIANCE TECHNICAL GROUP COMPANY

3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790

Chain of Custody Record & Laboratory Services Agreement

Date: 8/8/23

Page: 2 of 2

Laboratory Project No (Internal):

2308151

Special Remarks:
Level 2B QA

Client: GeoEngineers

Project Name: South Jackson Street

Project No: 24504-001-01

Address: 2101 4th Ave Ste 950

Collected by: Paul Robinette

City, State, Zip: Seattle, WA 98121

Location: Seattle, WA

Telephone: 425.861.2674

Report to (PM): Robert Trahan

Disposal: Samples will be disposed in 30 days unless otherwise requested.
 Retain volume (specify above) Return to client

Emails: rtrahan@geoengineers.com, probinette@geoengineers.com

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	# of Cont.	Analytes												Comments	
					VOCS (EPA 8260 / 624)	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (DX)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T) Dissolved (D)	Anions (IC)***	ED8 (801)		
1 UST4-NSW-93	8/9/23	0745	S	3	X	X	X	X	X	X	X	X	X	X	X	X	X	2-day TAT
2 UST4-SSW-93	8/9/23	0750	S	3	X	X	X	X	X	X	X	X	X	X	X	X	X	2-day TAT
3 UST4-B-90	8/9/23	0755	S	3	X	X	X	X	X	X	X	X	X	X	X	X	X	2-day TAT
4																		
5																		
6																		
7																		
8																		
9																		
10																		

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water

**Metals (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sn Sr Ti Tl V Zn

***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate-Nitrite

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished (Signature) _____ Print Name _____ Date/Time _____
 Received (Signature) _____ Print Name _____ Date/Time _____



Fremont
Analytical
An Alliance Technical Group Company

3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790

Chain of Custody Record & Laboratory Services Agreement

Date: 8/8/23 Page: 1 of 2

Laboratory Project No (internal): 2308151

Project Name: South Jackson Street

Special Remarks: ALL "UST" SAMPLES 2 DAY TAT

Client: GeoEngineers

Project No: 24504-001-01

Address: 2101 4th Ave Ste 950

Collected by: Paul Robinette

update per RT
-mw 8/11/23

City, State, Zip: Seattle, WA 98121

Location: Seattle, WA

Telephone: 425.861.2674

Report To (PM): Robert Trahan

Disposal: Samples will be disposed in 30 days unless otherwise requested.
 Retain volume (specify above) Return to client

Email(s): rtrahan@geoengineers.com, probinette@geoengineers.com

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	# of Cont.	VOCS (EPA 8260 / 624)	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/heavy Oil Range Organics (DRO)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 / 625)	PCBs (EPA 8270 - SIM)	Metals** (EPA 8082 / 608)	Total (T) Dissolved (D)	Anions (Cl)**	ED9 (8011)	Comments
1 R1-NSW-98	8/8/23	0900	S	1									X				Lead - STD TAT
2 UST2-NSW-93	8/8/23	1400	S	3	X	X	X										2-day TAT
3 UST2-WSW-93	8/8/23	1355	S	3	X	X	X										
4 UST2-SSW-93	8/8/23	1405	S	3													Hold
5 UST2-B-89	8/8/23	1350	S	3	X	X	X										
6 UST3-NSW-93	8/8/23	1515	S	3	X	X	X	X	X	X							
7 UST3-SSW-93	8/8/23	1525	S	3													Hold
8 UST3-WSW-93	8/8/23	1530	S	3	X	X	X	X	X	X							
9 UST3-B-90	8/8/23	1520	S	3	X	X	X	X	X	X							
10																	

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water
 **Metals (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Ti Tl V Zn
 ***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite

Turn-around Time:
 Standard Next Day
 3 Day Same Day
 2 Day (specify)

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished (Signature) _____ Print Name _____ Date/Time _____
 x _____ Paul Robinette 8/10/23

Received (Signature) _____ Print Name _____ Date/Time _____
 x _____ DINA C 08/10/23
 _____ MASON P 8/10/23 11:11



Fremont
Analytical
An Alliance Technical Group Company

3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790

Chain of Custody Record & Laboratory Services Agreement

Date: 8/8/23 Page: 2 of: 2

Laboratory Project No (internal): 2308151

Project Name: South Jackson Street

Special Remarks:
Level 2B QA

Client: GeoEngineers

Project No: 24504-001-01

Address: 2101 4th Ave Ste 950

Collected by: Paul Robinette

City, State, Zip: Seattle, WA 98121

Location: Seattle, WA

Telephone: 425.861.2674

Report To (PM): Robert Trahan

Disposal: Samples will be disposed in 30 days unless otherwise requested.
 Retain volume (specify above) Return to client

Email(s): rtrahan@geoengineers.com, probinette@geoengineers.com

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	# of Cont.	Analysis Methods														Comments						
					VOCs (EPA 8260 / 624)	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (DX)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T) / Dissolved (D)	Anions (IC)***	ED8 (8011)									
1 UST4-NSW-93	8/9/23	0745	S	3	X	X	X	X	X	X															2-day TAT
2 UST4-SSW-93	8/9/23	0750	S	3	X	X	X	X	X	X															2-day TAT
3 UST4-B-90	8/9/23	0755	S	3	X	X	X	X	X	X															2-day TAT
4																									
5																									
6																									
7																									
8																									
9																									
10																									

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water

**Metals (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Ti Tl V Zn

***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite

Turn-around Time:

- Standard Next Day
- 3 Day Same Day
- 2 Day _____ (specify)

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished (Signature)	Print Name	Date/Time	Received (Signature)	Print Name	Date/Time
<i>[Signature]</i>	Paul Robinette	8/10/23 09:00	<i>[Signature]</i>	SING C	08/10/23
Relinquished (Signature)	Print Name	Date/Time	Received (Signature)	Print Name	Date/Time
<i>[Signature]</i>			<i>[Signature]</i>	MASON P	8/10/23 11:11



3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790

Chain of Custody Record & Laboratory Services Agreement

Date: 8/8/23 Page: 1 of 2

Laboratory Project No (internal): **2308151**

Client: GeoEngineers

Project Name: South Jackson Street

Special Remarks: **ALL "UST" SAMPLES 2 DAY TAT**

Address: 2101 4th Ave Ste 950

Project No: 24504-001-01

update per RT -mw 8/11/23

City, State, Zip: Seattle, WA 98121

Collected by: Paul Robinette

X = run per RT, Std TAT, 8/21/23 -cg

Telephone: 425.861.2674

Location: Seattle, WA

Disposal: Samples will be disposed in 30 days unless otherwise requested.
 Retain volume (specify above) Return to client

Report To (PM): Robert Trahan

Email(s): rtrahan@geoengineers.com, probinette@geoengineers.com

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	# of Cont.	VOCS (EPA 8260 / 624)	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (DRO)	SVOCS (EPA 8270 / 625)	PAHs (EPA 8270 / 625)	PCBs (EPA 8270 - SIM)	Metals** (EPA 8082 / 608)	Total (T) Dissolved (D)	Amions (IC)**	ED8 (8011)	Comments
1 R1-NSW-98	8/8/23	0900	S	1								X					Lead - STD TAT
2 UST2-NSW-93	8/8/23	1400	S	3	X	X	X	X	X	X							2-day TAT
3 UST2-WSW-93	8/8/23	1355	S	3	X	X	X	X	X	X							
4 UST2-SSW-93	8/8/23	1405	S	3													Hold
5 UST2-B-89	8/8/23	1350	S	3	X	X	X	X	X	X							
6 UST3-NSW-93	8/8/23	1515	S	3	X	X	X	X	X	X	X	X					
7 UST3-SSW-93	8/8/23	1525	S	3													Hold
8 UST3-WSW-93	8/8/23	1530	S	3	X	X	X	X	X	X							
9 UST3-B-90	8/8/23	1520	S	3	X	X	X	X	X	X							
10																	

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water

**Metals (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Ti Tl V Zn

***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite

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Turn-around Time:

- Standard Next Day
- 3 Day Same Day
- 2 Day (specify)

Relinquished (Signature) _____ Print Name _____ Date/Time _____

x _____ Paul Robinette 8/10/23

Relinquished (Signature) _____ Print Name _____ Date/Time _____

x _____ MASON P 8/10/23 11:11

Received (Signature) _____ Print Name _____ Date/Time _____

x _____ DINA C 08/10/23

Received (Signature) _____ Print Name _____ Date/Time _____

x _____ MASON P 8/10/23 11:11



Fremont
Analytical
An Alliance Technical Group Company

3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790

Chain of Custody Record & Laboratory Services Agreement

Date: 8/8/23 Page: 2 of 2

Laboratory Project No (internal): **2308151**

Project Name: South Jackson Street

Special Remarks:
Level 2B QA

Client: GeoEngineers

Project No: 24504-001-01

Address: 2101 4th Ave Ste 950

Collected by: Paul Robinette

City, State, Zip: Seattle, WA 98121

Location: Seattle, WA

Telephone: 425.861.2674

Report To (PM): Robert Trahan

Disposal: Samples will be disposed in 30 days unless otherwise requested.
 Retain volume (specify above) Return to client

Email(s): rtrahan@geoengineers.com, probinette@geoengineers.com

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	# of Cont.	Analytical Parameters												Comments		
					VOCs (EPA 8260 / 624)	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (DX)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T) Dissolved (D)	Anions (IC)***	EDB (8011)			
1 UST4-NSW-93	8/9/23	0745	S	3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	2-day TAT
2 UST4-SSW-93	8/9/23	0750	S	3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	2-day TAT
3 UST4-B-90	8/9/23	0755	S	3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	2-day TAT
4																			
5																			
6																			
7																			
8																			
9																			
10																			

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water

Turn-around Time:

**Metals (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Ti Tl V Zn

Standard Next Day

***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite

3 Day Same Day

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

2 Day (specify)

Relinquished (Signature) _____ Print Name _____ Date/Time _____
 x *[Signature]* Paul Robinette - 8/10/23 08:10

Received (Signature) _____ Print Name _____ Date/Time _____
 x *[Signature]* SING C 08/10/23

Relinquished (Signature) _____ Print Name _____ Date/Time _____
 x _____

Received (Signature) _____ Print Name _____ Date/Time _____
 x *[Signature]* MASON P 8/10/23 11:11

DATA SET for Review - Deliverable Requirements

Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Fremont Analytical Work Order No. 2308151

GeoEngineers

Project Name: S Jackson Street

Project Number: 24504-001-01

This data set contains the following:

- Analytical Sequence Summary
- Calibration Information

Data Directory: D:\GC-24\Data\2023\230727FRONT\

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) 07270002.D CO	DX_220112.M	150	1.000	27 Jul 2023 10:39 am
2) 07270004.D HO 20	DX_220112.M	21	1.000	27 Jul 2023 10:50 am
3) 07270006.D HO 100	DX_220112.M	22	1.000	27 Jul 2023 11:01 am
4) 07270008.D HO 500	DX_220112.M	23	1.000	27 Jul 2023 11:12 am
5) 07270010.D HO 1000	DX_220112.M	24	1.000	27 Jul 2023 11:23 am
6) 07270012.D HO 2000	DX_220112.M	25	1.000	27 Jul 2023 11:34 am
7) 07270014.D HO 5000	DX_220112.M	26	1.000	27 Jul 2023 11:45 am
8) 07270016.D HO 10000	DX_220112.M	27	1.000	27 Jul 2023 11:56 am
9) 07270018.D CO	DX_220112.M	150	1.000	27 Jul 2023 12:07 pm
10) 07270020.D CO	DX_220112.M	150	1.000	27 Jul 2023 12:18 pm
11) 07270022.D CO	DX_220112.M	148	1.000	27 Jul 2023 12:29 pm
12) 07270024.D HO ICB	DX_220112.M	28	1.000	27 Jul 2023 12:40 pm
13) 07270026.D HO 20	DX_220112.M	21	1.000	27 Jul 2023 12:51 pm
14) 07270028.D HO ICV	DX_220112.M	29	1.000	27 Jul 2023 01:02 pm
15) 07270030.D CO	DX_220112.M	150	1.000	27 Jul 2023 01:13 pm
16) 07270032.D DX 20	DX_220112.M	11	1.000	27 Jul 2023 01:23 pm
17) 07270034.D DX 100	DX_220112.M	12	1.000	27 Jul 2023 01:34 pm
18) 07270036.D DX 500	DX_220112.M	13	1.000	27 Jul 2023 01:46 pm
19) 07270038.D DX 1000	DX_220112.M	14	1.000	27 Jul 2023 01:57 pm
20) 07270040.D DX 2000	DX_220112.M	15	1.000	27 Jul 2023 02:08 pm
21) 07270042.D DX 5000	DX_220112.M	16	1.000	27 Jul 2023 02:19 pm

22) 07270044.D DX 10000	DX_220112.M	17	1.000	27 Jul 2023	02:30 pm
23) 07270046.D HO ICB	DX_220112.M	28	1.000	27 Jul 2023	02:41 pm
24) 07270048.D HO 20	DX_220112.M	21	1.000	27 Jul 2023	02:52 pm
25) 07270050.D CO	DX_220112.M	150	1.000	27 Jul 2023	03:03 pm
26) 07270052.D CO	DX_220112.M	150	1.000	27 Jul 2023	03:14 pm
27) 07270054.D DX ICB	DX_220112.M	18	1.000	27 Jul 2023	03:25 pm
28) 07270056.D DX ICV	DX_220112.M	19	1.000	27 Jul 2023	03:42 pm
29) 07270058.D CO	DX_220112.M	150	1.000	27 Jul 2023	03:53 pm
30) 07270060.D CO	DX_220112.M	150	1.000	27 Jul 2023	04:04 pm
31) 07270062.D CO	DX_220112.M	150	1.000	27 Jul 2023	04:15 pm
32) 07270064.D CO	DX_220112.M	150	1.000	27 Jul 2023	04:26 pm
33) 07270066.D OIL-CCV	DX_220112.M	2	1.000	27 Jul 2023	04:37 pm
34) 07270068.D DX-CCV	DX_220112.M	1	1.000	27 Jul 2023	04:48 pm
35) 07270070.D CO	DX_220112.M	150	1.000	27 Jul 2023	04:59 pm
36) 07270072.D MB-40979	DX_220112.M	61	1.000	27 Jul 2023	05:10 pm
37) 07270074.D LCS-40979	DX_220112.M	62	1.000	27 Jul 2023	05:21 pm
38) 07270076.D LCSD-40979	DX_220112.M	63	1.000	27 Jul 2023	05:32 pm
39) 07270078.D Dx MDL	DX_220112.M	73	1.000	27 Jul 2023	05:43 pm
40) 07270080.D RRO MDL	DX_220112.M	74	1.000	27 Jul 2023	05:54 pm
41) 07270082.D CO	DX_220112.M	150	1.000	27 Jul 2023	06:05 pm
42) 07270084.D CO	DX_220112.M	150	1.000	27 Jul 2023	06:16 pm
43) 07270086.D OIL-CCV	DX_220112.M	2	1.000	27 Jul 2023	06:27 pm
44) 07270088.D DX-CCV	DX_220112.M	1	1.000	27 Jul 2023	06:38 pm
45) 07270090.D	DX_220112.M				

CO			150	1.000	27 Jul 2023	06:49	pm
46)	07270092.D MB-41004	DX_220112.M	111	1.000	27 Jul 2023	07:00	pm
47)	07270094.D LCS-41004	DX_220112.M	112	1.000	27 Jul 2023	07:11	pm
48)	07270096.D 2307262-001B	DX_220112.M	113	1.000	27 Jul 2023	07:22	pm
49)	07270098.D 2307262-002B	DX_220112.M	114	1.000	27 Jul 2023	07:33	pm
50)	07270100.D 2307262-003B	DX_220112.M	115	1.000	27 Jul 2023	07:44	pm
51)	07270102.D 2307262-004B	DX_220112.M	116	1.000	27 Jul 2023	07:55	pm
52)	07270104.D 2307262-005B	DX_220112.M	117	1.000	27 Jul 2023	08:06	pm
53)	07270106.D 2307262-006B	DX_220112.M	118	1.000	27 Jul 2023	08:17	pm
54)	07270108.D 2307262-007B	DX_220112.M	119	1.000	27 Jul 2023	08:28	pm
55)	07270110.D 2307262-007BDUP	DX_220112.M	120	1.000	27 Jul 2023	08:39	pm
56)	07270112.D CO	DX_220112.M	150	1.000	27 Jul 2023	08:50	pm
57)	07270114.D OIL-CCV	DX_220112.M	2	1.000	27 Jul 2023	09:01	pm
58)	07270116.D DX-CCV	DX_220112.M	1	1.000	27 Jul 2023	09:12	pm
59)	07270118.D CO	DX_220112.M	150	1.000	27 Jul 2023	09:23	pm
60)	07270120.D 2307262-008B	DX_220112.M	121	1.000	27 Jul 2023	09:34	pm
61)	07270122.D 2307262-009B	DX_220112.M	122	1.000	27 Jul 2023	09:45	pm
62)	07270124.D 2307262-010B	DX_220112.M	123	1.000	27 Jul 2023	09:56	pm
63)	07270126.D 2307284-001B	DX_220112.M	124	1.000	27 Jul 2023	10:07	pm
64)	07270128.D 2307284-002B	DX_220112.M	125	1.000	27 Jul 2023	10:18	pm
65)	07270130.D 2307284-003B	DX_220112.M	126	1.000	27 Jul 2023	10:29	pm
66)	07270132.D 2307284-004B	DX_220112.M	127	1.000	27 Jul 2023	10:40	pm
67)	07270134.D 2307285-001A	DX_220112.M	128	1.000	27 Jul 2023	10:51	pm
68)	07270136.D CO	DX_220112.M	150	1.000	27 Jul 2023	11:02	pm

69) 07270138.D OIL-CCV	DX_220112.M	2	1.000	27 Jul 2023	11:12 pm
70) 07270140.D DX-CCV	DX_220112.M	1	1.000	27 Jul 2023	11:23 pm
71) 07270142.D CO	DX_220112.M	150	1.000	27 Jul 2023	11:34 pm
72) 07270144.D MB-40989	DX_220112.M	131	1.000	27 Jul 2023	11:45 pm
73) 07270146.D LCS-40989	DX_220112.M	132	1.000	27 Jul 2023	11:56 pm
74) 07270148.D 2307278-002A	DX_220112.M	136	1.000	28 Jul 2023	12:07 am
75) 07270150.D 2307278-002ADUP	DX_220112.M	137	1.000	28 Jul 2023	12:18 am
76) 07270152.D 2307278-003A	DX_220112.M	138	1.000	28 Jul 2023	12:29 am
77) 07270154.D 2307278-004A	DX_220112.M	139	1.000	28 Jul 2023	12:40 am
78) 07270156.D 2307278-005A	DX_220112.M	140	1.000	28 Jul 2023	12:51 am
79) 07270158.D 2307278-006A	DX_220112.M	141	1.000	28 Jul 2023	01:02 am
80) 07270160.D 2307278-009A	DX_220112.M	144	1.000	28 Jul 2023	01:13 am
81) 07270162.D 2307278-010A	DX_220112.M	145	1.000	28 Jul 2023	01:24 am
82) 07270164.D CO	DX_220112.M	150	1.000	28 Jul 2023	01:35 am
83) 07270166.D OIL-CCV	DX_220112.M	2	1.000	28 Jul 2023	01:46 am
84) 07270168.D DX-CCV	DX_220112.M	1	1.000	28 Jul 2023	01:57 am
85) 07270170.D CO	DX_220112.M	150	1.000	28 Jul 2023	02:08 am
86) 07270172.D 2307278-012A	DX_220112.M	147	1.000	28 Jul 2023	02:18 am
87) 07270174.D 2307278-001A	DX_220112.M	133	1.000	28 Jul 2023	02:29 am
88) 07270176.D CO	DX_220112.M	150	1.000	28 Jul 2023	02:40 am
89) 07270178.D 2307278-001AMS	DX_220112.M	134	1.000	28 Jul 2023	02:51 am
90) 07270180.D CO	DX_220112.M	150	1.000	28 Jul 2023	03:02 am
91) 07270182.D 2307278-001AMSD	DX_220112.M	135	1.000	28 Jul 2023	03:13 am

92) 07270184.D CO	DX_220112.M	150	1.000	28 Jul 2023	03:24 am
93) 07270186.D 2307278-011A	DX_220112.M	146	1.000	28 Jul 2023	03:35 am
94) 07270188.D CO	DX_220112.M	150	1.000	28 Jul 2023	03:46 am
95) 07270190.D 2307278-008A	DX_220112.M	143	1.000	28 Jul 2023	03:57 am
96) 07270192.D CO	DX_220112.M	150	1.000	28 Jul 2023	04:08 am
97) 07270194.D 2307278-007A	DX_220112.M	142	1.000	28 Jul 2023	04:19 am
98) 07270196.D CO	DX_220112.M	150	1.000	28 Jul 2023	04:30 am
99) 07270198.D CO	DX_220112.M	150	1.000	28 Jul 2023	04:41 am
100) 07270200.D OIL-CCV	DX_220112.M	2	1.000	28 Jul 2023	04:52 am
101) 07270202.D DX-CCV	DX_220112.M	1	1.000	28 Jul 2023	05:03 am
102) 07270204.D CO	DX_220112.M	150	1.000	28 Jul 2023	05:14 am

Data Directory: D:\GC-24\Data\2023\230810FRONT\

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) 08100002.D CO	DX_220112.M	150	1.000	10 Aug 2023 08:40 am
2) 08100004.D OIL-CCV	DX_220112.M	2	1.000	10 Aug 2023 08:50 am
3) 08100006.D DX-CCV	DX_220112.M	1	1.000	10 Aug 2023 09:01 am
4) 08100008.D CO	DX_220112.M	150	1.000	10 Aug 2023 09:12 am
5) 08100010.D 2308049-001B 10x	DX_220112.M	29	1.000	10 Aug 2023 10:26 am
6) 08100012.D CO	DX_220112.M	150	1.000	10 Aug 2023 10:37 am
7) 08100014.D OIL-CCV	DX_220112.M	2	1.000	10 Aug 2023 10:47 am
8) 08100016.D DX-CCV	DX_220112.M	1	1.000	10 Aug 2023 10:58 am
9) 08100018.D CO	DX_220112.M	150	1.000	10 Aug 2023 11:09 am
10) 08100020.D MB-41160	DX_220112.M	31	1.000	10 Aug 2023 01:49 pm
11) 08100022.D LCS-41160	DX_220112.M	32	1.000	10 Aug 2023 02:00 pm
12) 08100024.D LCSD-41160	DX_220112.M	33	1.000	10 Aug 2023 02:11 pm
13) 08100026.D MB-41143	DX_220112.M	37	1.000	10 Aug 2023 02:21 pm
14) 08100028.D 2308107-001A	DX_220112.M	38	1.000	10 Aug 2023 02:32 pm
15) 08100030.D 2308107-002A	DX_220112.M	39	1.000	10 Aug 2023 02:43 pm
16) 08100032.D 2308107-003A	DX_220112.M	40	1.000	10 Aug 2023 02:54 pm
17) 08100034.D 2308107-004A	DX_220112.M	41	1.000	10 Aug 2023 03:05 pm
18) 08100036.D 2308107-005A	DX_220112.M	42	1.000	10 Aug 2023 03:16 pm
19) 08100038.D 2308094-001A	DX_220112.M	34	1.000	10 Aug 2023 03:27 pm
20) 08100040.D 2308099-001B	DX_220112.M	35	1.000	10 Aug 2023 03:38 pm
21) 08100042.D 2308099-002B	DX_220112.M	36	1.000	10 Aug 2023 03:49 pm

22)	08100044.D	DX_220112.M	150	1.000	10 Aug 2023	04:00	pm
23)	08100046.D	DX_220112.M	2	1.000	10 Aug 2023	04:11	pm
24)	08100048.D	DX_220112.M	1	1.000	10 Aug 2023	04:22	pm
25)	08100050.D	DX_220112.M	150	1.000	10 Aug 2023	04:33	pm
26)	08100052.D	DX_220112.M	51	1.000	10 Aug 2023	05:26	pm
27)	08100054.D	DX_220112.M	52	1.000	10 Aug 2023	05:37	pm
28)	08100056.D	DX_220112.M	56	1.000	10 Aug 2023	05:48	pm
29)	08100058.D	DX_220112.M	57	1.000	10 Aug 2023	05:59	pm
30)	08100060.D	DX_220112.M	58	1.000	10 Aug 2023	06:10	pm
31)	08100062.D	DX_220112.M	59	1.000	10 Aug 2023	06:21	pm
32)	08100064.D	DX_220112.M	60	1.000	10 Aug 2023	06:32	pm
33)	08100066.D	DX_220112.M	61	1.000	10 Aug 2023	06:43	pm
34)	08100068.D	DX_220112.M	62	1.000	10 Aug 2023	06:54	pm
35)	08100070.D	DX_220112.M	63	1.000	10 Aug 2023	07:05	pm
36)	08100072.D	DX_220112.M	64	1.000	10 Aug 2023	07:16	pm
37)	08100074.D	DX_220112.M	65	1.000	10 Aug 2023	07:27	pm
38)	08100076.D	DX_220112.M	150	1.000	10 Aug 2023	07:38	pm
39)	08100078.D	DX_220112.M	2	1.000	10 Aug 2023	07:49	pm
40)	08100080.D	DX_220112.M	1	1.000	10 Aug 2023	08:00	pm
41)	08100082.D	DX_220112.M	150	1.000	10 Aug 2023	08:11	pm
42)	08100084.D	DX_220112.M	66	1.000	10 Aug 2023	08:22	pm
43)	08100086.D	DX_220112.M	67	1.000	10 Aug 2023	08:33	pm
44)	08100088.D	DX_220112.M	69	1.000	10 Aug 2023	08:44	pm
45)	08100090.D	DX_220112.M					

2308159-002A			70	1.000	10 Aug 2023	08:55	pm
46) 08100092.D 2308159-003A	DX_220112.M		71	1.000	10 Aug 2023	09:05	pm
47) 08100094.D 2308159-004A	DX_220112.M		72	1.000	10 Aug 2023	09:16	pm
48) 08100096.D 2308159-005A	DX_220112.M		73	1.000	10 Aug 2023	09:27	pm
49) 08100098.D 2308152-001A	DX_220112.M		68	1.000	10 Aug 2023	09:38	pm
50) 08100100.D 2308139-001A	DX_220112.M		53	1.000	10 Aug 2023	09:49	pm
51) 08100102.D CO	DX_220112.M		150	1.000	10 Aug 2023	10:00	pm
52) 08100104.D 2308139-001AMS	DX_220112.M		54	1.000	10 Aug 2023	10:11	pm
53) 08100106.D CO	DX_220112.M		150	1.000	10 Aug 2023	10:22	pm
54) 08100108.D 2308139-001AMSD	DX_220112.M		55	1.000	10 Aug 2023	10:33	pm
55) 08100110.D CO	DX_220112.M		150	1.000	10 Aug 2023	10:44	pm
56) 08100112.D OIL-CCV	DX_220112.M		2	1.000	10 Aug 2023	10:55	pm
57) 08100114.D DX-CCV	DX_220112.M		1	1.000	10 Aug 2023	11:06	pm
58) 08100116.D CO	DX_220112.M		150	1.000	10 Aug 2023	11:17	pm
59) 08110002.D CO	DX_220112.M		150	1.000	11 Aug 2023	08:15	am
60) 08110004.D OIL-CCV	DX_220112.M		2	1.000	11 Aug 2023	08:25	am
61) 08110006.D DX-CCV	DX_220112.M		1	1.000	11 Aug 2023	08:36	am
62) 08110008.D CO	DX_220112.M		150	1.000	11 Aug 2023	08:47	am
63) 08110010.D 2308151-010A RR	DX_220112.M		65	1.000	11 Aug 2023	09:12	am
64) 08110012.D CO	DX_220112.M		150	1.000	11 Aug 2023	09:23	am
65) 08110014.D OIL-CCV	DX_220112.M		2	1.000	11 Aug 2023	09:34	am
66) 08110016.D DX-CCV	DX_220112.M		1	1.000	11 Aug 2023	09:44	am



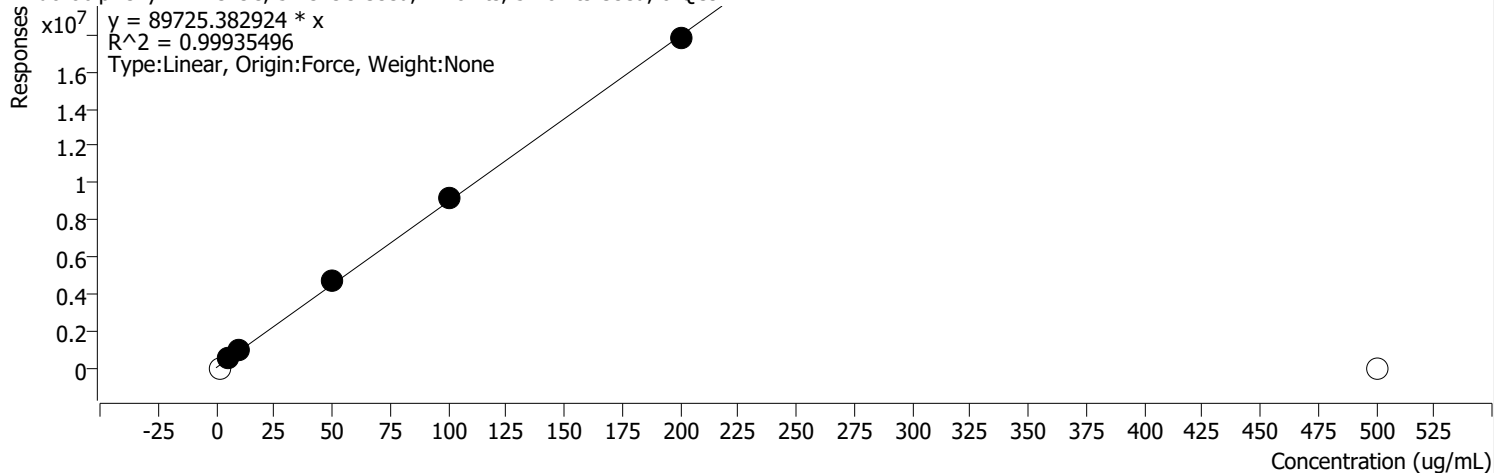
Calibration

Calibration Report

Batch Path	D:\GC-24\Data\2023\230727FRONT\QuantResults\Dx-Oil Cal.batch.bin		
Analysis Time	7/28/2023 9:47:30 AM	Analyst Name	FA\GC24
Report Time	7/28/2023 9:50:54 AM	Reporter Name	GC24
Last Calib Update	7/28/2023 9:45:03 AM	Batch State	Processed

2-Fluorobiphenyl

2-Fluorobiphenyl - 7 Levels, 5 Levels Used, 7 Points, 5 Points Used, 0 QCs



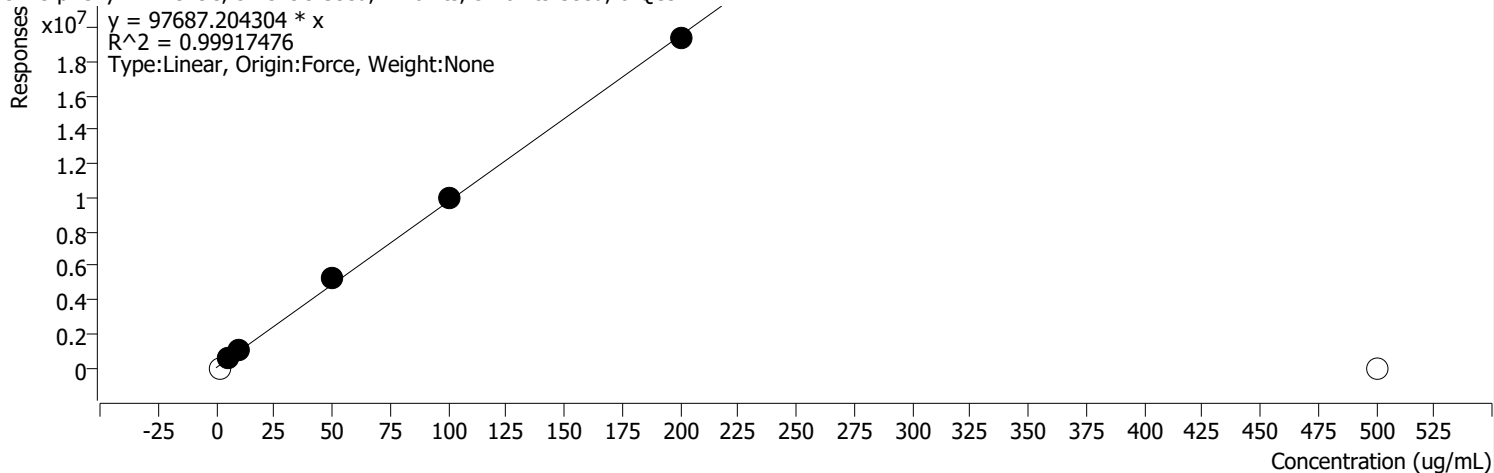
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-24\Data\2023\230727FRONT\07270048.D	Calibration	1		0	2.0000	0.0000
D:\GC-24\Data\2023\230727FRONT\07270006.D	Calibration	2	x	499781	5.0000	99956.2936
D:\GC-24\Data\2023\230727FRONT\07270008.D	Calibration	3	x	1001008	10.0000	100100.7802
D:\GC-24\Data\2023\230727FRONT\07270010.D	Calibration	4	x	4748564	50.0000	94971.2777
D:\GC-24\Data\2023\230727FRONT\07270012.D	Calibration	5	x	9133555	100.0000	91335.5456
D:\GC-24\Data\2023\230727FRONT\07270014.D	Calibration	6	x	17792528	200.0000	88962.6410
D:\GC-24\Data\2023\230727FRONT\07270016.D	Calibration	7		0	500.0000	0.0000

Calibration Report

Batch Path D:\GC-24\Data\2023\230727FRONT\QuantResults\Dx-Oil Cal.batch.bin
Analysis Time 7/28/2023 9:47:30 AM **Analyst Name** FA\GC24
Report Time 7/28/2023 9:50:56 AM **Reporter Name** GC24
Last Calib Update 7/28/2023 9:45:03 AM **Batch State** Processed

O-Terphenyl

O-Terphenyl - 7 Levels, 5 Levels Used, 7 Points, 5 Points Used, 0 QCs



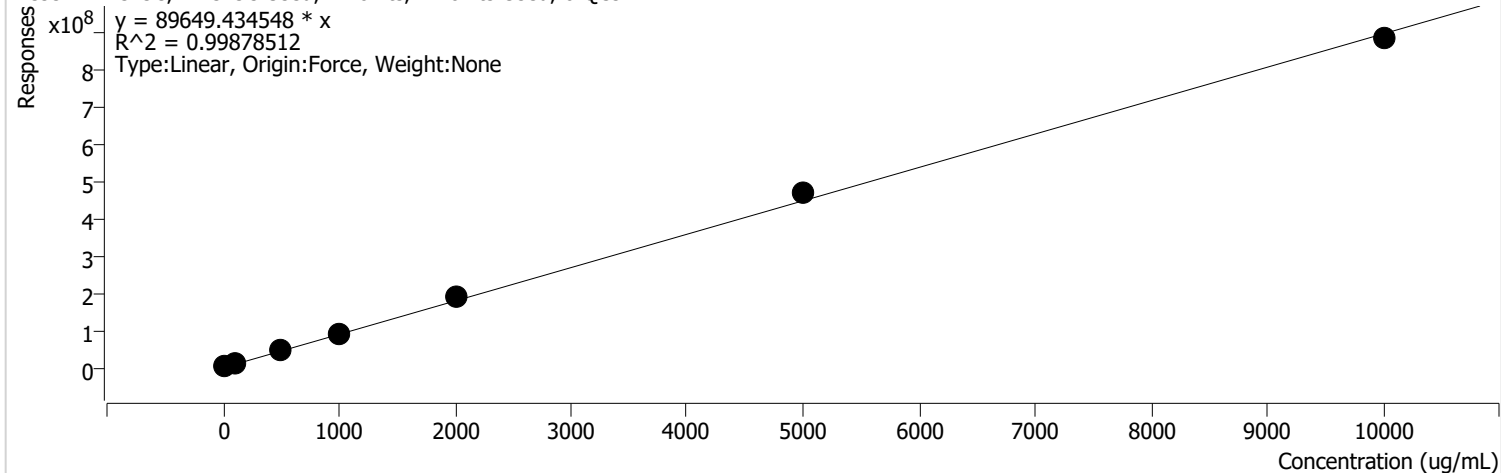
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-24\Data\2023\230727FRONT\07270048.D	Calibration	1		0	2.0000	0.0000
D:\GC-24\Data\2023\230727FRONT\07270006.D	Calibration	2	x	559603	5.0000	111920.5680
D:\GC-24\Data\2023\230727FRONT\07270008.D	Calibration	3	x	1118016	10.0000	111801.6431
D:\GC-24\Data\2023\230727FRONT\07270010.D	Calibration	4	x	5218661	50.0000	104373.2229
D:\GC-24\Data\2023\230727FRONT\07270012.D	Calibration	5	x	9941086	100.0000	99410.8621
D:\GC-24\Data\2023\230727FRONT\07270014.D	Calibration	6	x	19358846	200.0000	96794.2318
D:\GC-24\Data\2023\230727FRONT\07270016.D	Calibration	7		0	500.0000	0.0000

Calibration Report

Batch Path	D:\GC-24\Data\2023\230727FRONT\QuantResults\Dx-Oil Cal.batch.bin		
Analysis Time	7/28/2023 9:47:30 AM	Analyst Name	FA\GC24
Report Time	7/28/2023 9:50:56 AM	Reporter Name	GC24
Last Calib Update	7/28/2023 9:45:03 AM	Batch State	Processed

Diesel

Diesel - 7 Levels, 7 Levels Used, 7 Points, 7 Points Used, 0 QCs



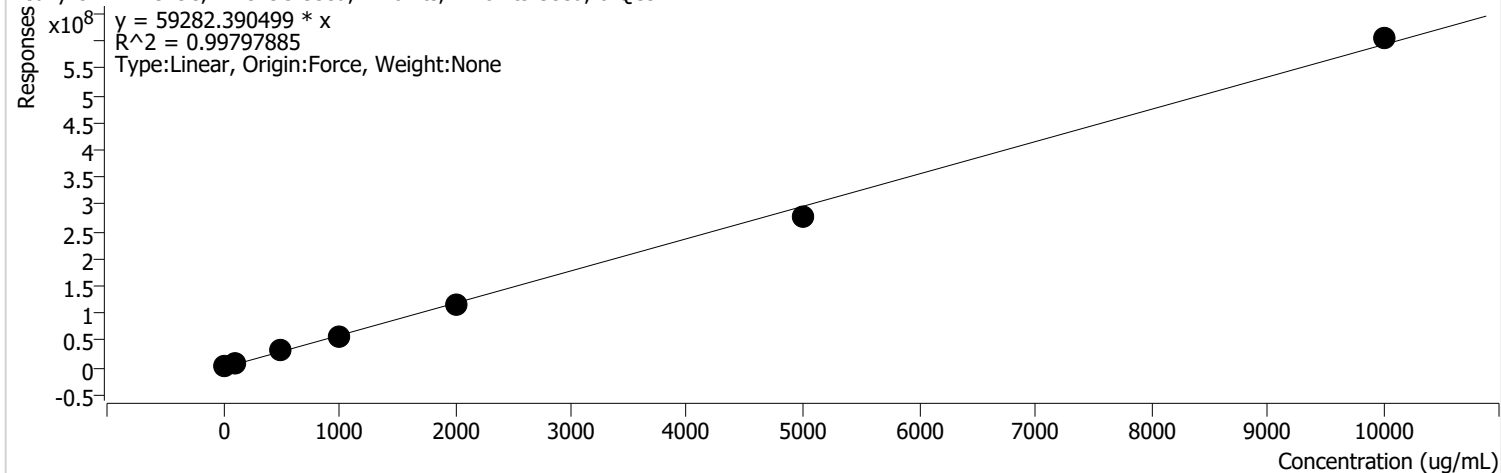
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-24\Data\2023\230727FRONT\07270032.D	Calibration	1	x	1532157	20.0000	76607.8377
D:\GC-24\Data\2023\230727FRONT\07270034.D	Calibration	2	x	8909518	100.0000	89095.1823
D:\GC-24\Data\2023\230727FRONT\07270036.D	Calibration	3	x	45292573	500.0000	90585.1454
D:\GC-24\Data\2023\230727FRONT\07270038.D	Calibration	4	x	91275534	1000.0000	91275.5337
D:\GC-24\Data\2023\230727FRONT\07270040.D	Calibration	5	x	188230632	2000.0000	94115.3159
D:\GC-24\Data\2023\230727FRONT\07270042.D	Calibration	6	x	470981718	5000.0000	94196.3435
D:\GC-24\Data\2023\230727FRONT\07270044.D	Calibration	7	x	883155794	10000.0000	88315.5794

Calibration Report

Batch Path	D:\GC-24\Data\2023\230727FRONT\QuantResults\Dx-Oil Cal.batch.bin		
Analysis Time	7/28/2023 9:47:30 AM	Analyst Name	FA\GC24
Report Time	7/28/2023 9:50:56 AM	Reporter Name	GC24
Last Calib Update	7/28/2023 9:45:03 AM	Batch State	Processed

Heavy Oil

Heavy Oil - 7 Levels, 7 Levels Used, 7 Points, 7 Points Used, 0 QCs



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-24\Data\2023\230727FRONT\07270048.D	Calibration	1	x	1139369	20.0000	56968.4627
D:\GC-24\Data\2023\230727FRONT\07270006.D	Calibration	2	x	6651487	100.0000	66514.8704
D:\GC-24\Data\2023\230727FRONT\07270008.D	Calibration	3	x	32500169	500.0000	65000.3388
D:\GC-24\Data\2023\230727FRONT\07270010.D	Calibration	4	x	56908464	1000.0000	56908.4636
D:\GC-24\Data\2023\230727FRONT\07270012.D	Calibration	5	x	117299033	2000.0000	58649.5166
D:\GC-24\Data\2023\230727FRONT\07270014.D	Calibration	6	x	275285166	5000.0000	55057.0333
D:\GC-24\Data\2023\230727FRONT\07270016.D	Calibration	7	x	603727752	10000.0000	60372.7752

Heavy Oil Calibration

Date: 7/27/23

Oil CAL STD: 28320

Concentration: 50,000 ug/L

Analyst: AHP

Oil ICV (SS): 27047

Concentration: 50,000 ug/L

MeCl2: 7583

SURROGATE: 28541

Concentration: 1,000 ug/L

	Calibration Point (ppm)	Surr Cal Point (ppm)	MeCl2 (uL)	STD Conc (ppm)	STD Amt (uL)	Surr Amt (uL)	Final Vol. (mL)	Comments
21	20	2	980	1000*	20*	-	1	*Note: the 1000 point w/ HO and surr will be used to make points 100 and 20
22	100	5	900	1000*	100*	-	1	
23	500	10	980	50,000	10	10	1	
24	1000*	50	930	50,000	20	50	1	
25	2000	100	860	50,000	40	100	1	
26	5000	200	700	50,000	100	200	1	
27	10000	500 -	800 ⁵⁰⁰ 800	50,000	200	500	1	
28	ICB	-	990 ^{0.712}	-	-	10	1	
29	ICV (500)	10	980	50,000 SS	10 ^{SS}	10	1	

Signature and Date: Alex Posters 7/27/23

DATA SET for Review - Deliverable Requirements

Gasoline by NWTPH-Gx

Fremont Analytical Work Order No. 2308151

GeoEngineers

Project Name: S Jackson Street

Project Number: 24504-001-01

This data set contains the following:

- Analytical Sequence Summary
- Calibration Information
- Tune Information
- Internal Standards Report

Data Directory: D:\GC-9\DATA\080823\

SampleName	MiscInfo	Vial	Multiplier	Injection Time
R 1) 080801.D	8260.M O-VOC-S		1.000	08 Aug 2023 02:59 pm
R 2) 080802.D	8260.M O-VOC-S		1.000	08 Aug 2023 03:31 pm
R 3) 080803.D	8260.M O-VOC-S		1.000	08 Aug 2023 04:03 pm
R 4) 080804.D	8260.M O-VOC-S		1.000	08 Aug 2023 04:36 pm
R 5) 080805.D	8260.M O-VOC-S		1.000	08 Aug 2023 05:08 pm
R 6) 080806.D	8260.M O-VOC-S		1.000	08 Aug 2023 05:40 pm
R 7) 080807.D	8260.M O-VOC-S		1.000	08 Aug 2023 06:12 pm
R 8) 080808.D	8260.M O-VOC-S		1.000	08 Aug 2023 06:44 pm
R 9) 080809.D	8260.M O-VOC-S		1.000	08 Aug 2023 07:16 pm
R 10) 080810.D	8260.M O-VOC-S		1.000	08 Aug 2023 07:48 pm
R 11) 080811.D	8260.M O-VOC-S		1.000	08 Aug 2023 08:20 pm
R 12) 080812.D	8260.M O-VOC-S		1.000	08 Aug 2023 08:53 pm
R 13) 080813.D	8260.M O-VOC-S		1.000	08 Aug 2023 09:25 pm
R 14) 080814.D	8260.M O-VOC-S		1.000	08 Aug 2023 09:57 pm
R 15) 080815.D	8260.M O-VOC-S		1.000	08 Aug 2023 10:29 pm
R 16) 080816.D	8260.M O-VOC-S		1.000	08 Aug 2023 11:01 pm
R 17) 080817.D	8260.M O-VOC-S		1.000	08 Aug 2023 11:33 pm
R 18) 080818.D	8260.M O-VOC-S		1.000	09 Aug 2023 12:05 am
R 19) 080819.D	8260.M O-VOC-S		1.000	09 Aug 2023 12:37 am
R 20) 080820.D	8260.M O-VOC-S		1.000	09 Aug 2023 01:09 am
R 21) 080821.D	8260.M O-VOC-S		1.000	09 Aug 2023 01:41 am

R	22) 080822.D	8260.M			1.000	09 Aug 2023	02:13	am
		O-VOC-S						
R	23) 080823.D	8260.M			1.000	09 Aug 2023	02:45	am
		O-VOC-S						
R	24) 080824.D	8260.M			1.000	09 Aug 2023	03:17	am
		O-VOC-S						
R	25) 080825.D	8260.M			1.000	09 Aug 2023	03:49	am
		O-VOC-S						
R	26) 080826.D	8260.M			1.000	09 Aug 2023	04:21	am
		O-VOC-S						
R	27) 080827.D	8260.M			1.000	09 Aug 2023	04:53	am
		O-VOC-S						
R	28) 080828.D	8260.M			1.000	09 Aug 2023	05:25	am
		O-VOC-S						
R	29) 080829.D	8260.M			1.000	09 Aug 2023	05:57	am
		O-VOC-S						
R	30) 080830.D	8260.M			1.000	09 Aug 2023	06:28	am
		O-VOC-S						
R	31) 080831.D	8260.M			1.000	09 Aug 2023	07:00	am
		O-VOC-S						
R	32) 080832.D	8260.M			1.000	09 Aug 2023	07:32	am
		O-VOC-S						
R	33) 080833.D	8260.M			1.000	09 Aug 2023	08:03	am
		O-VOC-S						
R	34) 080834.D	8260.M			1.000	09 Aug 2023	08:35	am
		O-VOC-S						
R	35) 080835.D	8260.M			1.000	09 Aug 2023	09:07	am
		O-VOC-S						
GX CAL 1	36) 080836.D	8260.M			1.000	09 Aug 2023	09:39	am
		O-VOC-GX-W	1					
GX CAL 2	37) 080837.D	8260.M			1.000	09 Aug 2023	10:10	am
		O-VOC-GX-W	2					
GX CAL 3	38) 080838.D	8260.M			1.000	09 Aug 2023	10:42	am
		O-VOC-GX-W	3					
GX CAL 4	39) 080839.D	8260.M			1.000	09 Aug 2023	11:14	am
		O-VOC-GX-W	4					
GX CAL 5	40) 080840.D	8260.M			1.000	09 Aug 2023	11:45	am
		O-VOC-GX-W	5					
GX CAL 6	41) 080841.D	8260.M			1.000	09 Aug 2023	12:17	pm
		O-VOC-GX-W	6					
GX CAL 7	42) 080842.D	8260.M			1.000	09 Aug 2023	12:49	pm
		O-VOC-GX-W	7					
R	43) 080843.D	8260.M			1.000	09 Aug 2023	01:20	pm
		O-VOC-GX-W						
R	44) 080844.D	8260.M			1.000	09 Aug 2023	01:52	pm
		O-VOC-GX-W						
	45) 080845.D	8260.M						

GX ICB	O-VOC-GX-W	8	1.000	09 Aug 2023	02:23	pm
46) 080846.D	8260.M					
GX ICV	O-VOC-GX-W	9	1.000	09 Aug 2023	02:55	pm
47) 080847.D	8260.M					
R	O-VOC-GX-W		1.000	09 Aug 2023	03:27	pm
48) 080848.D	8260.M					
GX ICV RR	O-VOC-GX-W	10	1.000	09 Aug 2023	03:59	pm
49) 080849.D	8260.M					
R	O-VOC-GX-W		1.000	09 Aug 2023	04:30	pm
50) 080850.D	8260.M					
GX ICV RRR new std	O-VOC-GX-W	11	1.000	09 Aug 2023	05:11	pm
51) 080851.D	8260.M					
R	O-VOC-GX-W		1.000	09 Aug 2023	05:43	pm
52) 080852.D	8260.M					
R	O-VOC-S		1.000	09 Aug 2023	06:15	pm
53) 080853.D	8260.M					
R	O-VOC-S		1.000	09 Aug 2023	06:47	pm
54) 080854.D	8260.M					
R	O-VOC-S		1.000	09 Aug 2023	07:18	pm
55) 080855.D	8260.M					
R	O-VOC-S		1.000	09 Aug 2023	07:50	pm
56) 080856.D	8260.M					
R	O-VOC-S		1.000	09 Aug 2023	08:22	pm
57) 080857.D	8260.M					
R	O-VOC-S		1.000	09 Aug 2023	08:54	pm
58) 080858.D	8260.M					
VOC S CAL 1	O-VOC-S	12	1.000	09 Aug 2023	09:27	pm
59) 080859.D	8260.M					
VOC S CAL 2	O-VOC-S	13	1.000	09 Aug 2023	09:59	pm
60) 080860.D	8260.M					
VOC S CAL 3	O-VOC-S	14	1.000	09 Aug 2023	10:31	pm
61) 080861.D	8260.M					
VOC S CAL 4	O-VOC-S	15	1.000	09 Aug 2023	11:03	pm
62) 080862.D	8260.M					
VOC S CAL 5	O-VOC-S	16	1.000	09 Aug 2023	11:35	pm
63) 080863.D	8260.M					
VOC S CAL 6	O-VOC-S	17	1.000	10 Aug 2023	12:07	am
64) 080864.D	8260.M					
VOC S CAL 7	O-VOC-S	18	1.000	10 Aug 2023	12:40	am
65) 080865.D	8260.M					
VOC S CAL 8	O-VOC-S	19	1.000	10 Aug 2023	01:12	am
66) 080866.D	8260.M					
R	O-VOC-S		1.000	10 Aug 2023	01:44	am
67) 080867.D	8260.M					
R	O-VOC-S		1.000	10 Aug 2023	02:16	am
68) 080868.D	8260.M					
ICB	O-VOC-S	20	1.000	10 Aug 2023	02:48	am

69)	080869.D	8260.M					
ICV	O-VOC-S		21	1.000	10 Aug 2023	03:20	am

70)	080870.D	8260.M					
R	O-VOC-S			1.000	10 Aug 2023	03:52	am

71)	080871.D	8260.M					
R	O-VOC-S			1.000	10 Aug 2023	04:24	am

72)	080872.D	8260.M					
R	O-VOC-S			1.000	10 Aug 2023	04:56	am

73)	081003.D	8260.M					
VOC S CCV A	O-VOC-S		2	1.000	10 Aug 2023	10:24	am

74)	081004.D	8260.M					
GX CCV	O-VOC-GX-S		3	1.000	10 Aug 2023	10:55	am

Data Directory: D:\GC-9\DATA\081023\

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) 081001.D R	8260.M O-VOC-S		1.000	10 Aug 2023 09:20 am
2) 081002.D VOC W CCV A	8260.M O-VOC-W	1	1.000	10 Aug 2023 09:52 am
3) 081003.D VOC S CCV A	8260.M O-VOC-S	2	1.000	10 Aug 2023 10:24 am
4) 081004.D GX CCV	8260.M O-VOC-GX-S	3	1.000	10 Aug 2023 10:55 am
5) 081005.D R	8260.M O-VOC-S		1.000	10 Aug 2023 11:27 am
6) 081006.D MB S	8260.M O-VOC-S	4	1.000	10 Aug 2023 12:58 pm
7) 081007.D VOC S MDL 0.1	8260.M O-VOC-S	5	1.000	10 Aug 2023 01:30 pm
8) 081008.D VOC S MDL 0.2	8260.M O-VOC-S	6	1.000	10 Aug 2023 02:02 pm
9) 081009.D VOC S MDL 0.5	8260.M O-VOC-S	7	1.000	10 Aug 2023 02:33 pm
10) 081010.D VOC S MDL 1.0	8260.M O-VOC-S	8	1.000	10 Aug 2023 03:05 pm
11) 081011.D VOC S MDL 2.0	8260.M O-VOC-S	9	1.000	10 Aug 2023 03:37 pm
12) 081012.D GX W 25	8260.M O-VOC-S	10	1.000	10 Aug 2023 04:09 pm
13) 081013.D GX W 50	8260.M O-VOC-S	11	1.000	10 Aug 2023 04:41 pm
14) 081014.D GX S 25	8260.M O-VOC-S	12	1.000	10 Aug 2023 05:13 pm
15) 081015.D GX S 50	8260.M O-VOC-S	13	1.000	10 Aug 2023 05:45 pm
16) 081016.D R	8260.M O-VOC-S		1.000	10 Aug 2023 06:16 pm
17) 081017.D 2308100-001B	8260.M O-VOC-S	14	1.000	10 Aug 2023 06:48 pm
18) 081018.D 2308100-002B	8260.M O-VOC-S	15	1.000	10 Aug 2023 07:20 pm
19) 081019.D 2308100-003B	8260.M O-VOC-S	16	1.000	10 Aug 2023 07:52 pm
20) 081020.D 2308100-004B	8260.M O-VOC-S	17	1.000	10 Aug 2023 08:24 pm
21) 081021.D 2308037-003B	8260.M O-VOC-S	18	1.000	10 Aug 2023 08:56 pm

22)	081022.D		8260.M						
2308037-003	BDUP	O-VOC-S		20	1.000	10 Aug 2023	09:28	pm	
23)	081023.D		8260.M						
R		O-VOC-S			1.000	10 Aug 2023	10:00	pm	
24)	081024.D		8260.M						
VOC S CCV B		O-VOC-S		22	1.000	10 Aug 2023	10:32	pm	
25)	081025.D		8260.M						
GX CCV B		O-VOC-S		23	1.000	10 Aug 2023	11:04	pm	
26)	081026.D		8260.M						
R		O-VOC-S			1.000	10 Aug 2023	11:36	pm	
27)	081027.D		8260.M						
MB-41178		O-VOC-S		42	1.000	11 Aug 2023	12:08	am	
28)	081028.D		8260.M						
2308159-001B 10x		O-VOC-S		43	1.000	11 Aug 2023	12:40	am	
29)	081029.D		8260.M						
2308159-001BDUP 10X		O-VOC-S		44	1.000	11 Aug 2023	01:12	am	
30)	081030.D		8260.M						
2308159-001B		O-VOC-S		45	1.000	11 Aug 2023	01:44	am	
31)	081031.D		8260.M						
R		O-VOC-S			1.000	11 Aug 2023	02:16	am	
32)	081032.D		8260.M						
2308159-003B 10X		O-VOC-S		46	1.000	11 Aug 2023	02:48	am	
33)	081033.D		8260.M						
2308159-003B		O-VOC-S		47	1.000	11 Aug 2023	03:20	am	
34)	081034.D		8260.M						
R		O-VOC-S			1.000	11 Aug 2023	03:52	am	
35)	081035.D		8260.M						
2308159-004B 10X		O-VOC-S		48	1.000	11 Aug 2023	04:24	am	
36)	081036.D		8260.M						
2308159-004B		O-VOC-S		49	1.000	11 Aug 2023	04:55	am	
37)	081037.D		8260.M						
R		O-VOC-S			1.000	11 Aug 2023	05:27	am	
38)	081038.D		8260.M						
2308159-005B 10X		O-VOC-S		50	1.000	11 Aug 2023	05:58	am	
39)	081039.D		8260.M						
2308159-005B		O-VOC-S		51	1.000	11 Aug 2023	06:30	am	
40)	081040.D		8260.M						
R		O-VOC-S			1.000	11 Aug 2023	07:01	am	
41)	081041.D		8260.M						
2308159-002B 10X		O-VOC-S		52	1.000	11 Aug 2023	07:33	am	
42)	081042.D		8260.M						
2308159-002B		O-VOC-S		53	1.000	11 Aug 2023	08:04	am	
43)	081043.D		8260.M						
R		O-VOC-S			1.000	11 Aug 2023	08:36	am	
44)	081044.D		8260.M						
2308159-002BMS 10X..		O-VOC-S		54	1.000	11 Aug 2023	09:08	am	
45)	081045.D		8260.M						

	O-VOC-S		1.000	11 Aug 2023	09:39	am
46) 081046.D	8260.M					
2308139-001B	O-VOC-S	57	1.000	11 Aug 2023	10:11	am
47) 081047.D	8260.M					
2308139-002B	O-VOC-S	58	1.000	11 Aug 2023	10:43	am
48) 081048.D	8260.M					
2308139-003B	O-VOC-S	59	1.000	11 Aug 2023	11:15	am
49) 081049.D	8260.M					
2308139-002BMS VOC	O-VOC-S	60	1.000	11 Aug 2023	11:47	am
50) 081050.D	8260.M					
VOC S CCV C	O-VOC-S	55	1.000	11 Aug 2023	12:18	pm
51) 081051.D	8260.M					
GX CCV C	O-VOC-S	56	1.000	11 Aug 2023	12:50	pm
52) 081052.D	8260.M					
R	O-VOC-S		1.000	11 Aug 2023	01:22	pm
53) 081053.D	8260.M					
VOC-S MDL2 0.1	O-VOC-S	1	1.000	11 Aug 2023	01:54	pm
54) 081054.D	8260.M					
VOC-S MDL2 0.2	O-VOC-S	2	1.000	11 Aug 2023	02:26	pm
55) 081055.D	8260.M					
VOC-S MDL2 0.5	O-VOC-S	3	1.000	11 Aug 2023	02:58	pm
56) 081056.D	8260.M					
VOC-S MDL2 1.0	O-VOC-S	4	1.000	11 Aug 2023	03:30	pm
57) 081057.D	8260.M					
VOC-S MDL2 2.0	O-VOC-S	5	1.000	11 Aug 2023	04:02	pm
58) 081058.D	8260.M					
GX-W MDL2 25	O-VOC-S	6	1.000	11 Aug 2023	04:34	pm
59) 081059.D	8260.M					
GX-W MDL2 50	O-VOC-S	7	1.000	11 Aug 2023	05:06	pm
60) 081060.D	8260.M					
GX-S MDL1 25	O-VOC-S	8	1.000	11 Aug 2023	05:38	pm
61) 081061.D	8260.M					
GX-S MDL1 50	O-VOC-S	9	1.000	11 Aug 2023	06:10	pm
62) 081062.D	8260.M					
R	O-VOC-S		1.000	11 Aug 2023	06:42	pm
63) 081063.D	8260.M					
2308037-001B	O-VOC-S	10	1.000	11 Aug 2023	07:13	pm
64) 081064.D	8260.M					
2308037-002B	O-VOC-S	11	1.000	11 Aug 2023	07:45	pm
65) 081065.D	8260.M					
2308037-005B	O-VOC-S	12	1.000	11 Aug 2023	08:17	pm
66) 081066.D	8260.M					
2308037-006B	O-VOC-S	13	1.000	11 Aug 2023	08:50	pm
67) 081067.D	8260.M					
2308037-007B	O-VOC-S	14	1.000	11 Aug 2023	09:22	pm
68) 081068.D	8260.M					
2308037-008B	O-VOC-S	15	1.000	11 Aug 2023	09:54	pm

69)	081069.D		8260.M						
2308037-009B		O-VOC-S		16	1.000	11 Aug 2023	10:26	pm	
70)	081070.D		8260.M						
2308037-004B		O-VOC-S		17	1.000	11 Aug 2023	10:58	pm	
71)	081071.D		8260.M						
2308037-004BMS GX		O-VOC-S		18	1.000	11 Aug 2023	11:30	pm	
72)	081072.D		8260.M						
R		O-VOC-S			1.000	12 Aug 2023	12:02	am	
73)	081073.D		8260.M						
CCV-41166C_41161C ..		O-VOC-S		19	1.000	12 Aug 2023	12:34	am	
74)	081074.D		8260.M						
CCV-41166C_41161C GX		O-VOC-S		20	1.000	12 Aug 2023	01:06	am	
75)	081075.D		8260.M						
R		O-VOC-S			1.000	12 Aug 2023	01:38	am	
76)	081076.D		8260.M						
MB		O-VOC-S		21	1.000	12 Aug 2023	02:10	am	
77)	081077.D		8260.M						
2308037-010B		O-VOC-S		22	1.000	12 Aug 2023	02:42	am	
78)	081078.D		8260.M						
2308037-010BDUP		O-VOC-S		23	1.000	12 Aug 2023	03:14	am	
79)	081079.D		8260.M						
2308037-011B		O-VOC-S		24	1.000	12 Aug 2023	03:46	am	
80)	081080.D		8260.M						
2308037-012B		O-VOC-S		25	1.000	12 Aug 2023	04:18	am	
81)	081081.D		8260.M						
2308044-001B		O-VOC-S		26	1.000	12 Aug 2023	04:49	am	
82)	081082.D		8260.M						
2308044-002B		O-VOC-S		27	1.000	12 Aug 2023	05:21	am	
83)	081083.D		8260.M						
2308044-003B		O-VOC-S		28	1.000	12 Aug 2023	05:52	am	
84)	081084.D		8260.M						
2308044-004B		O-VOC-S		29	1.000	12 Aug 2023	06:24	am	
85)	081085.D		8260.M						
2308044-005B 41166		O-VOC-S		30	1.000	12 Aug 2023	06:56	am	
86)	081086.D		8260.M						
2308044-006B		O-VOC-S		31	1.000	12 Aug 2023	07:27	am	
87)	081087.D		8260.M						
2308044-007B		O-VOC-S		32	1.000	12 Aug 2023	07:59	am	
88)	081088.D		8260.M						
2308044-008B		O-VOC-S		33	1.000	12 Aug 2023	08:30	am	
89)	081089.D		8260.M						
2308044-009B		O-VOC-S		34	1.000	12 Aug 2023	09:02	am	
90)	081090.D		8260.M						
2308044-010B		O-VOC-S		35	1.000	12 Aug 2023	09:34	am	
91)	081091.D		8260.M						
2308044-011B		O-VOC-S		36	1.000	12 Aug 2023	10:05	am	

92)	081092.D		8260.M						
2308037-	011BVOC MS..	O-VOC-S		37	1.000	12 Aug 2023	10:37	am	
93)	081093.D		8260.M						
R		O-VOC-S			1.000	12 Aug 2023	11:09	am	
94)	081094.D		8260.M						
CCV-41166D_41178D	..	O-VOC-S		38	1.000	12 Aug 2023	11:40	am	
95)	081095.D		8260.M						
CCV-41166D_41178D	GX	O-VOC-S		39	1.000	12 Aug 2023	12:12	pm	
96)	081096.D		8260.M						
R		O-VOC-S			1.000	12 Aug 2023	12:44	pm	
97)	081097.D		8260.M						
MB		O-VOC-S		40	1.000	12 Aug 2023	01:16	pm	
98)	081098.D		8260.M						
2308044-014B		O-VOC-S		41	1.000	12 Aug 2023	01:47	pm	
99)	081099.D		8260.M						
2308044-014BDUP		O-VOC-S		42	1.000	12 Aug 2023	02:19	pm	
100)	081100.D		8260.M						
2308044-017B		O-VOC-S		43	1.000	12 Aug 2023	02:51	pm	
101)	081101.D		8260.M						
2308044-020B		O-VOC-S		44	1.000	12 Aug 2023	03:23	pm	
102)	081102.D		8260.M						
2308044-023B		O-VOC-S		45	1.000	12 Aug 2023	03:55	pm	
103)	081103.D		8260.M						
2308044-023BDUP		O-VOC-S		46	1.000	12 Aug 2023	04:27	pm	
104)	081104.D		8260.M						
2308151-002B	41178	O-VOC-S		47	1.000	12 Aug 2023	04:59	pm	
105)	081105.D		8260.M						
2308151-003B	41161	O-VOC-S		48	1.000	12 Aug 2023	05:30	pm	
106)	081106.D		8260.M						
2308151-005B		O-VOC-S		49	1.000	12 Aug 2023	06:02	pm	
107)	081107.D		8260.M						
2308151-006B		O-VOC-S		50	1.000	12 Aug 2023	06:34	pm	
108)	081108.D		8260.M						
2308151-008B		O-VOC-S		51	1.000	12 Aug 2023	07:06	pm	
109)	081109.D		8260.M						
2308151-009B		O-VOC-S		52	1.000	12 Aug 2023	07:38	pm	
110)	081110.D		8260.M						
2308151-010B		O-VOC-S		53	1.000	12 Aug 2023	08:10	pm	
111)	081111.D		8260.M						
2308151-011B		O-VOC-S		54	1.000	12 Aug 2023	08:42	pm	
112)	081112.D		8260.M						
2308151-012B		O-VOC-S		55	1.000	12 Aug 2023	09:14	pm	
113)	081113.D		8260.M						
2308111-001B		O-VOC-S		56	1.000	12 Aug 2023	09:46	pm	
114)	081114.D		8260.M						
2308111-001BMS	GX	O-VOC-S		57	1.000	12 Aug 2023	10:18	pm	
115)	081115.D		8260.M						

2308044-017BMS	VOC	O-VOC-S	58	1.000	12 Aug 2023	10:50 pm

116)	081116.D		8260.M			
R		O-VOC-S		1.000	12 Aug 2023	11:22 pm

117)	081117.D		8260.M			
CCV-41166E_41178E	..	O-VOC-S	59	1.000	12 Aug 2023	11:53 pm

118)	081118.D		8260.M			
CCV-41166E_41178E	GX	O-VOC-S	60	1.000	13 Aug 2023	12:25 am

119)	081119.D		8260.M			
R		O-VOC-S		1.000	13 Aug 2023	12:58 am

Data Directory: D:\GC-9\DATA\081423\

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) 081445.D	8260.M			
No data found			0.000	N/A
2) 081401.D	8260.M			
R	O-VOC-S		1.000	14 Aug 2023 08:54 am
3) 081402.D	8260.M			
VOC W CCV A	O-VOC-W	1	1.000	14 Aug 2023 09:26 am
4) 081403.D	8260.M			
VOC S CCV A	O-VOC-S	2	1.000	14 Aug 2023 09:58 am
5) 081404.D	8260.M			
GX CCV	O-VOC-GX-S	3	1.000	14 Aug 2023 10:30 am
6) 081405.D	8260.M			
R	O-VOC-S		1.000	14 Aug 2023 11:02 am
7) 081406.D	8260.M			
2308151-006B RR	O-VOC-S	4	1.000	14 Aug 2023 11:34 am
8) 081407.D	8260.M			
2308151-010B RR	O-VOC-S	5	1.000	14 Aug 2023 12:06 pm
9) 081408.D	8260.M			
2308151-012B RR	O-VOC-S	6	1.000	14 Aug 2023 12:38 pm
10) 081409.D	8260.M			
2308151-005B 100X	O-VOC-S	7	1.000	14 Aug 2023 01:11 pm
11) 081410.D	8260.M			
2308151-011B 10X	O-VOC-S	8	1.000	14 Aug 2023 01:43 pm
12) 081411.D	8260.M			
2308151-009B 50X	O-VOC-S	9	1.000	14 Aug 2023 02:15 pm
13) 081412.D	8260.M			
R	O-VOC-S		1.000	14 Aug 2023 02:48 pm
14) 081413.D	8260.M			
2308151-005B 20x	O-VOC-GX-S	12	1.000	14 Aug 2023 03:21 pm
15) 081414.D	8260.M			
R	O-VOC-GX-S		1.000	14 Aug 2023 03:54 pm
16) 081415.D	8260.M			
R	O-VOC-GX-S		1.000	14 Aug 2023 04:27 pm
17) 081416.D	8260.M			
GX CCV	O-VOC-GX-S	10	1.000	14 Aug 2023 05:01 pm
18) 081417.D	8260.M			
R	O-VOC-S		1.000	14 Aug 2023 05:34 pm
19) 081418.D	8260.M			
2308111-001B RR	O-VOC-S	11	1.000	14 Aug 2023 06:07 pm
20) 081419.D	8260.M			
R	O-VOC-S		1.000	14 Aug 2023 06:40 pm
21) 081420.D	8260.M			
VOC S CCV B	O-VOC-S	13	1.000	14 Aug 2023 07:13 pm

22)	081421.D		8260.M						
GX	CCV C	O-VOC-GX-S		14	1.000	14 Aug 2023	07:45	pm	
23)	081422.D		8260.M						
R		O-VOC-GX-S			1.000	14 Aug 2023	08:18	pm	
24)	081423.D		8260.M						
MB-41202		O-VOC-GX-S		15	1.000	14 Aug 2023	08:50	pm	
25)	081424.D		8260.M						
2308174-001B		O-VOC-GX-S		16	1.000	14 Aug 2023	09:22	pm	
26)	081425.D		8260.M						
2308174-001BDUP		O-VOC-GX-S		17	1.000	14 Aug 2023	09:54	pm	
27)	081426.D		8260.M						
2308174-002B		O-VOC-GX-S		18	1.000	14 Aug 2023	10:27	pm	
28)	081427.D		8260.M						
2308174-003B		O-VOC-GX-S		19	1.000	14 Aug 2023	10:59	pm	
29)	081428.D		8260.M						
R		O-VOC-GX-S			1.000	14 Aug 2023	11:31	pm	
30)	081429.D		8260.M						
2308177-002B		O-VOC-GX-S		20	1.000	15 Aug 2023	12:03	am	
31)	081430.D		8260.M						
R		O-VOC-GX-S			1.000	15 Aug 2023	12:35	am	
32)	081431.D		8260.M						
R		O-VOC-GX-S			1.000	15 Aug 2023	01:08	am	
33)	081432.D		8260.M						
2308195-001B		O-VOC-GX-S		21	1.000	15 Aug 2023	01:40	am	
34)	081433.D		8260.M						
2308195-002B		O-VOC-GX-S		22	1.000	15 Aug 2023	02:12	am	
35)	081434.D		8260.M						
2308174-003BMS VOC		O-VOC-S		23	1.000	15 Aug 2023	02:44	am	
36)	081435.D		8260.M						
2308195-001BMS GX		O-VOC-GX-S		24	1.000	15 Aug 2023	03:16	am	
37)	081436.D		8260.M						
R		O-VOC-GX-S			1.000	15 Aug 2023	03:48	am	
38)	081437.D		8260.M						
R		O-VOC-GX-S			1.000	15 Aug 2023	04:20	am	
39)	081438.D		8260.M						
GX MDL S 25		O-VOC-GX-S		25	1.000	15 Aug 2023	04:52	am	
40)	081439.D		8260.M						
GX MDL S 50		O-VOC-GX-S		26	1.000	15 Aug 2023	05:24	am	
41)	081440.D		8260.M						
R		O-VOC-GX-S			1.000	15 Aug 2023	05:55	am	
42)	081441.D		8260.M						
VOC S CCV C		O-VOC-GX-S		27	1.000	15 Aug 2023	06:27	am	
43)	081442.D		8260.M						
GX CCV D		O-VOC-GX-S		28	1.000	15 Aug 2023	06:59	am	
44)	081443.D		8260.M						
R		O-VOC-GX-S			1.000	15 Aug 2023	07:31	am	
45)	081444.D		8260.M						

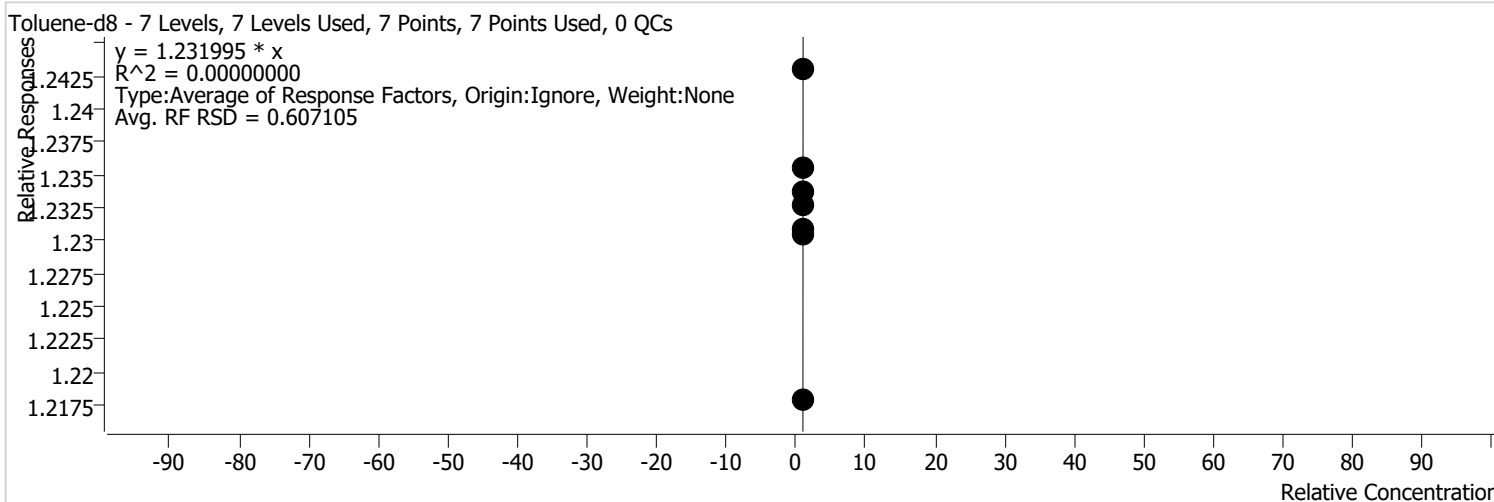


Calibration

Calibration Report

Batch Path	D:\GC-9\DATA\080823\QuantResults\GX CAL.batch.bin	Analyst Name	FA\GC9
Analysis Time	8/10/2023 2:14 PM	Reporter Name	FA\GC9
Report Time	8/10/2023 2:15:59 PM	Batch State	Processed
Last Calib Update	8/9/2023 1:21 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

Toluene-d8 %RSE =

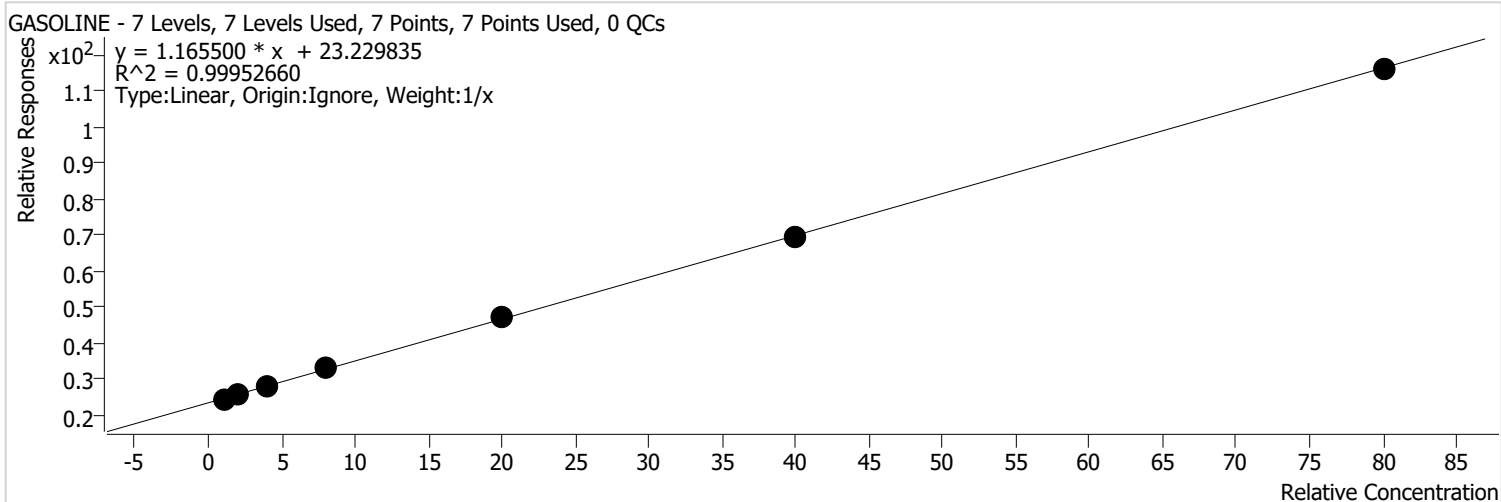


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-9\DATA\080823\080842.D	Calibration	7	x	10610739	25.0000	1.2180	
D:\GC-9\DATA\080823\080841.D	Calibration	6	x	10862980	25.0000	1.2308	
D:\GC-9\DATA\080823\080840.D	Calibration	5	x	10937113	25.0000	1.2355	
D:\GC-9\DATA\080823\080839.D	Calibration	4	x	11180222	25.0000	1.2327	
D:\GC-9\DATA\080823\080838.D	Calibration	3	x	11017236	25.0000	1.2304	
D:\GC-9\DATA\080823\080837.D	Calibration	2	x	11253018	25.0000	1.2430	
D:\GC-9\DATA\080823\080836.D	Calibration	1	x	11318955	25.0000	1.2336	

Calibration Report

Batch Path	D:\GC-9\DATA\080823\QuantResults\GX CAL.batch.bin		
Analysis Time	8/10/2023 2:14 PM	Analyst Name	FA\GC9
Report Time	8/10/2023 2:16:00 PM	Reporter Name	FA\GC9
Last Calib Update	8/9/2023 1:21 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

GASOLINE %RSE = 5.4

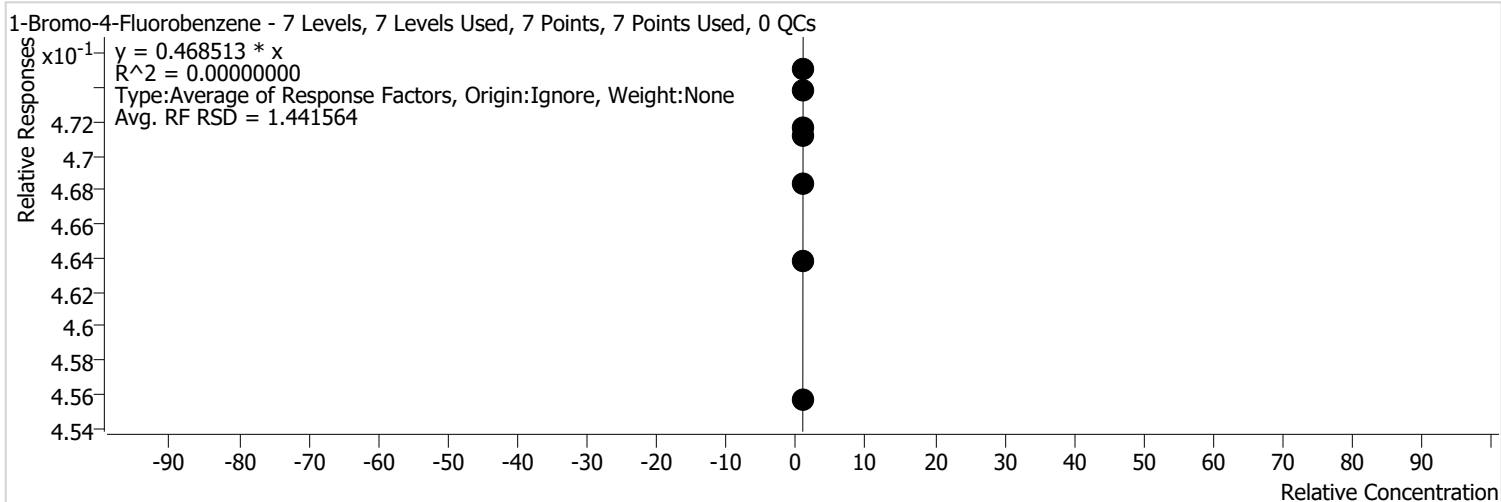


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-9\DATA\080823\080836.D	Calibration	1	x	184678558	25.0000	24.3487	
D:\GC-9\DATA\080823\080837.D	Calibration	2	x	192118086	50.0000	12.6918	
D:\GC-9\DATA\080823\080838.D	Calibration	3	x	210321495	100.0000	7.0416	
D:\GC-9\DATA\080823\080839.D	Calibration	4	x	252607699	200.0000	4.1391	
D:\GC-9\DATA\080823\080840.D	Calibration	5	x	346171524	500.0000	2.3377	
D:\GC-9\DATA\080823\080841.D	Calibration	6	x	516369292	1000.0000	1.7390	
D:\GC-9\DATA\080823\080842.D	Calibration	7	x	844702403	2000.0000	1.4492	

Calibration Report

Batch Path	D:\GC-9\DATA\080823\QuantResults\GX CAL.batch.bin		
Analysis Time	8/10/2023 2:14 PM	Analyst Name	FA\GC9
Report Time	8/10/2023 2:16:00 PM	Reporter Name	FA\GC9
Last Calib Update	8/9/2023 1:21 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1-Bromo-4-Fluorobenzene %RSE =



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-9\DATA\080823\080842.D	Calibration	7	x	3969984	25.0000	0.4557	
D:\GC-9\DATA\080823\080841.D	Calibration	6	x	4093661	25.0000	0.4638	
D:\GC-9\DATA\080823\080840.D	Calibration	5	x	4146350	25.0000	0.4684	
D:\GC-9\DATA\080823\080839.D	Calibration	4	x	4273575	25.0000	0.4712	
D:\GC-9\DATA\080823\080838.D	Calibration	3	x	4223033	25.0000	0.4716	
D:\GC-9\DATA\080823\080837.D	Calibration	2	x	4300832	25.0000	0.4751	
D:\GC-9\DATA\080823\080836.D	Calibration	1	x	4347339	25.0000	0.4738	

GX Calibration



Date: 8/19/23
 Analyst: CC
 Instrument: GC-9

Cal	ICV
GX Standard: <u>28564</u>	GX Standard: <u>28550</u>

KJ 8/10/23

28753

IS/Surrogate 28566

Cal Level	Spike Conc. (ppb)	Cal GX Spike (uL)	ICV GX Spike (uL)	Final Vol. (mL)	Comments
1	25	0.50	--	50	
2	50	1.00	--	50	
3	100	2.00	--	50	
4	200	4.00	--	50	
5	500	10.00	--	50	
6	1000	20.00	--	50	
7	2000	40.00	--	50	
	ICV (500 ppb)	--	10.00	50	

CC 8/19/23

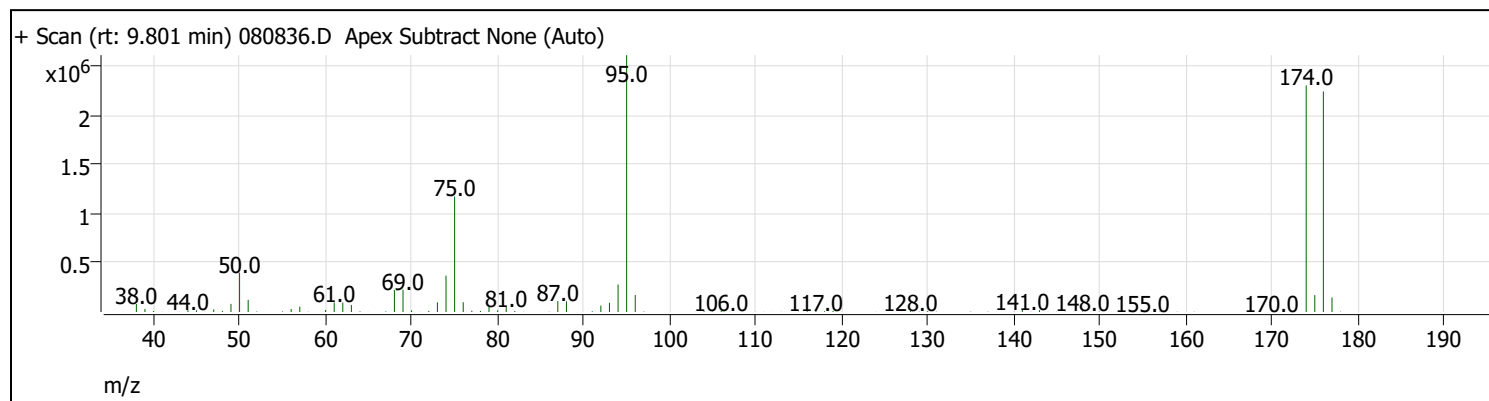
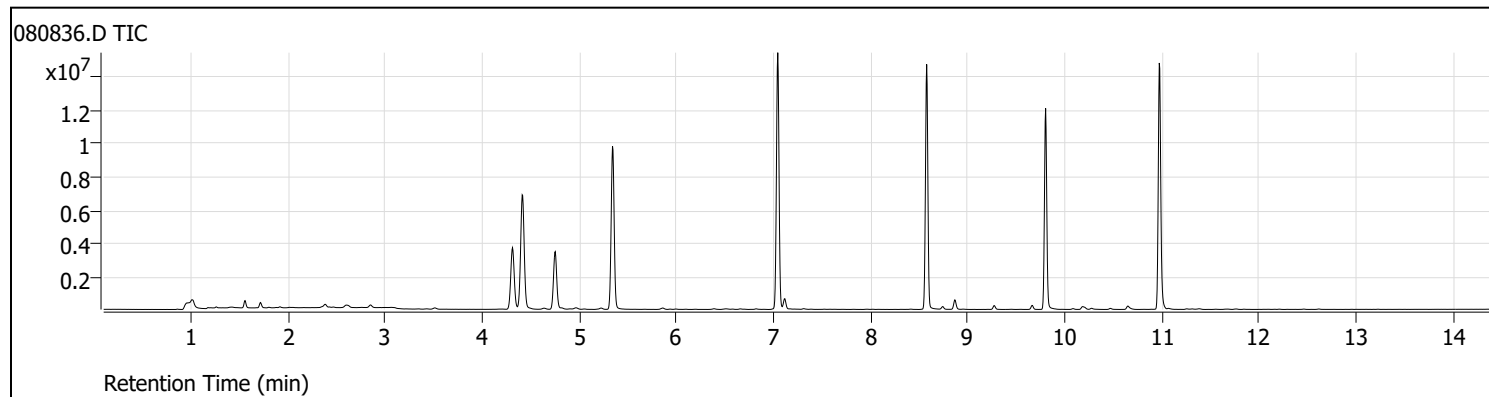
Signature and Date: 8/19/23



Tunes

Tune Evaluation Report

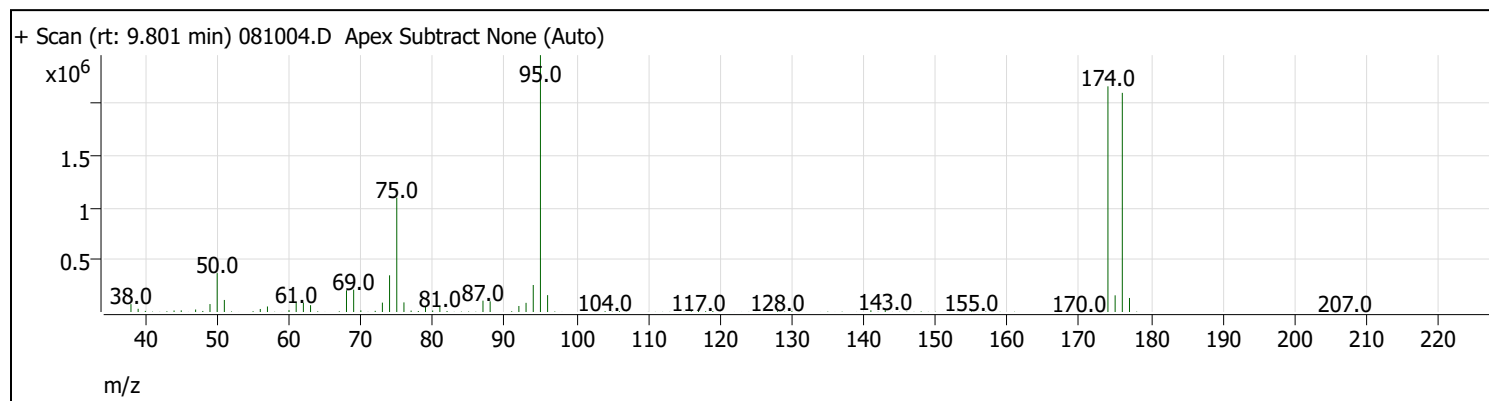
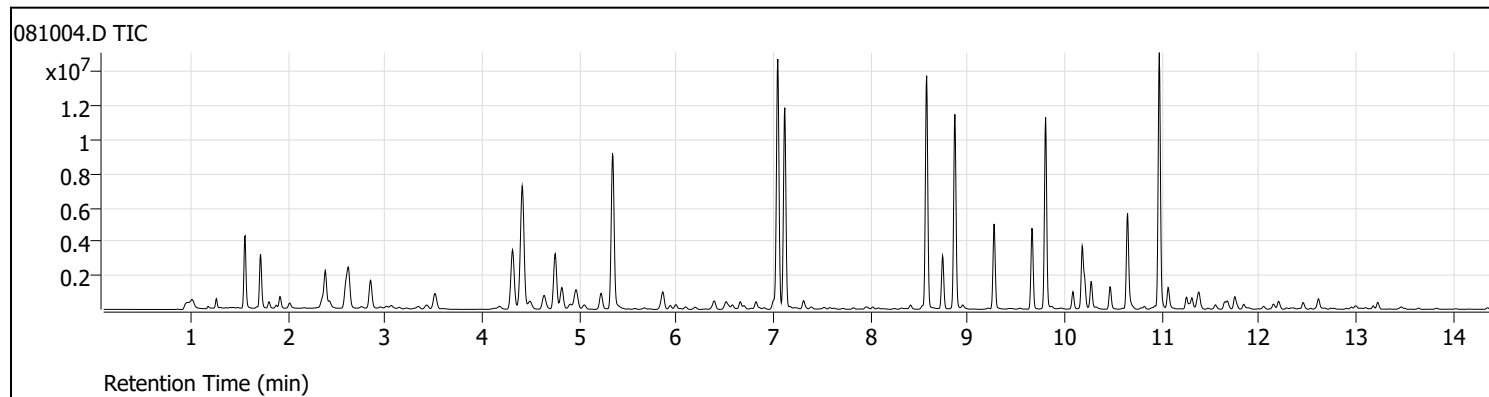
Data Path: D:\GC-9\DATA\080823\080836.D
 Acq on: 8/9/2023 9:39:06 AM
 Operator: FA\GC9
 Sample: GX CAL 1
 Inst Name: GC-9
 ALS Vial: 1
 Method: D:\MassHunter\Methods\Quant\BFB2021.m



Target Mass	Rel. To Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Pass/Fail
95	174	50	200	113.4	2619392	Pass
96	95	5	9	6.6	173056	Pass
173	174	0	2	0.0	0	Pass
174	95	50	200	88.2	2310144	Pass
175	174	5	9	7.5	172352	Pass
176	174	95	105	97.4	2249216	Pass
177	176	5	10	6.6	148416	Pass

Tune Evaluation Report

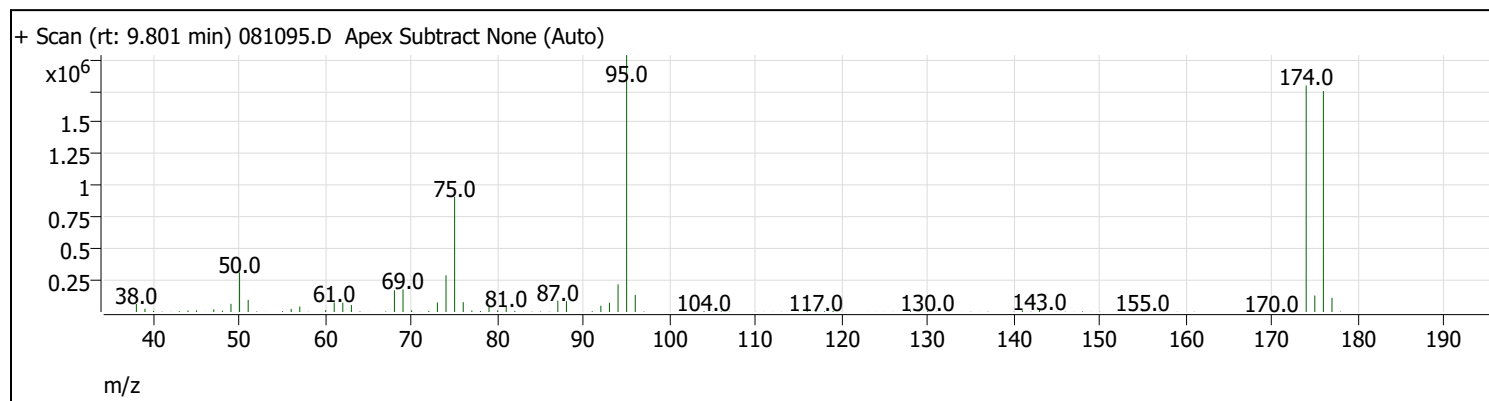
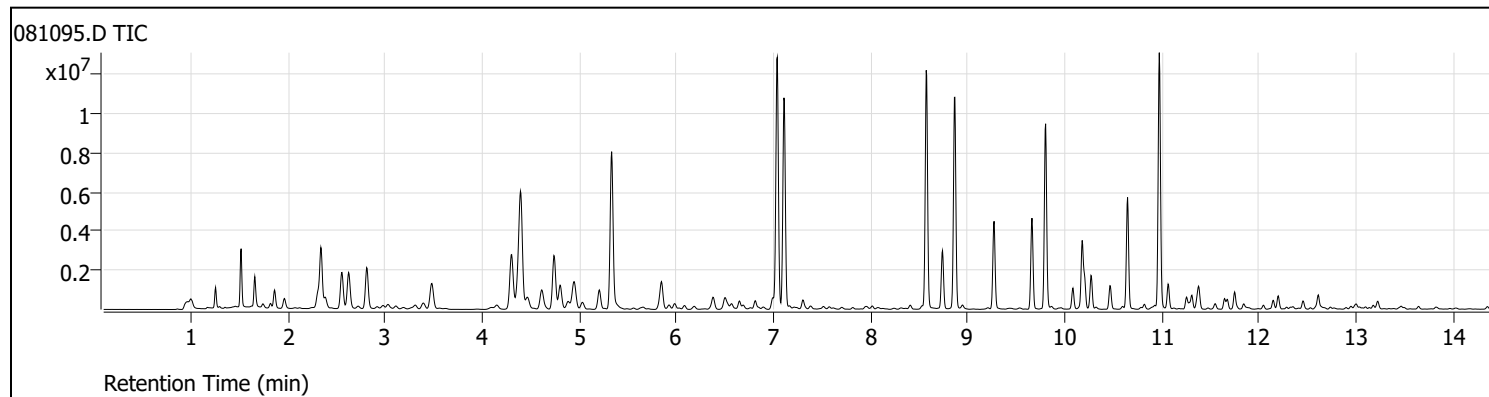
Data Path: D:\GC-9\DATA\081023\081004.D
 Acq on: 8/10/2023 10:55:54 AM
 Operator: FA\GC9
 Sample: GX CCV
 Inst Name: GC-9
 ALS Vial: 3
 Method: D:\MassHunter\Methods\Quant\BFB2021.m



Target Mass	Rel. To Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Pass/Fail
95	174	50	200	113.8	2458624	Pass
96	95	5	9	6.6	161408	Pass
173	174	0	2	0.0	0	Pass
174	95	50	200	87.9	2160128	Pass
175	174	5	9	7.4	159680	Pass
176	174	95	105	97.1	2097664	Pass
177	176	5	10	6.4	134272	Pass

Tune Evaluation Report

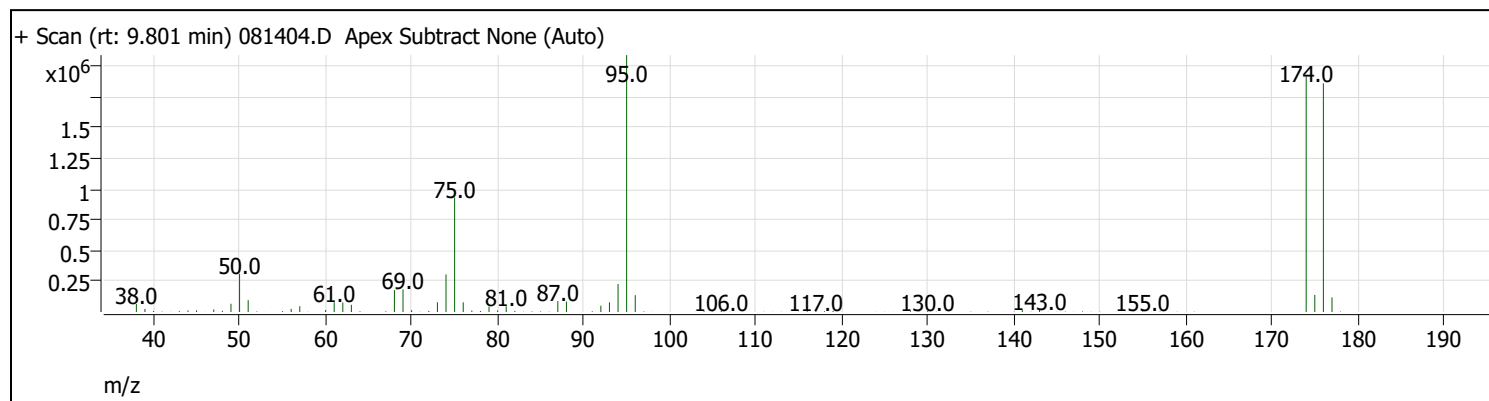
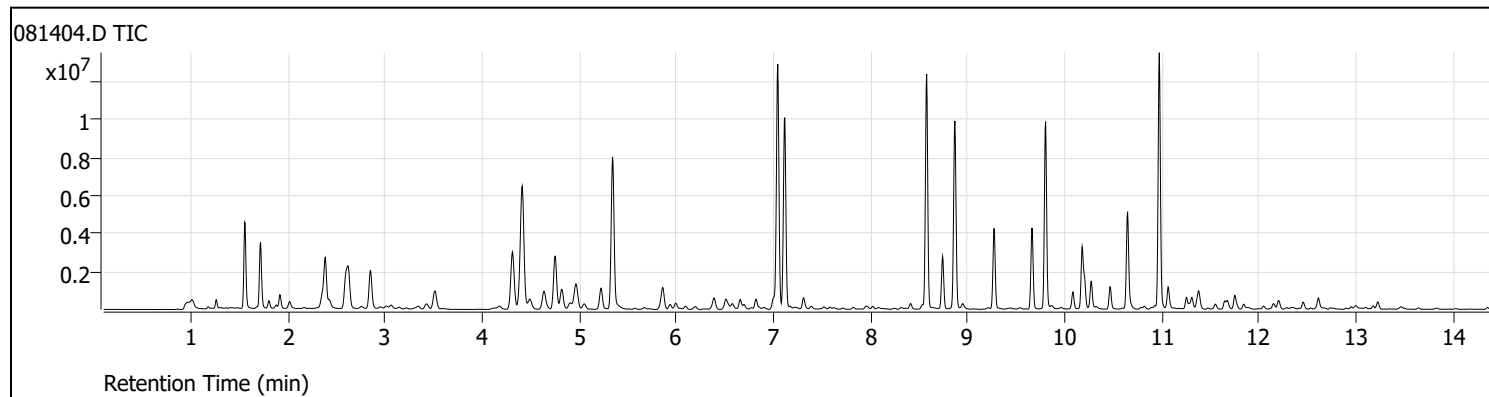
Data Path: D:\GC-9\DATA\081023\081095.D
 Acq on: 8/12/2023 12:12:32 PM
 Operator: FA\GC9
 Sample: CCV-41166D_41178D GX
 Inst Name: GC-9
 ALS Vial: 39
 Method: D:\MassHunter\Methods\Quant\BFB2021.m



Target Mass	Rel. To Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Pass/Fail
95	174	50	200	113.4	2034176	Pass
96	95	5	9	6.7	135552	Pass
173	174	0	2	0.0	0	Pass
174	95	50	200	88.2	1794048	Pass
175	174	5	9	7.3	130480	Pass
176	174	95	105	97.5	1749504	Pass
177	176	5	10	6.4	112424	Pass

Tune Evaluation Report

Data Path: D:\GC-9\DATA\081423\081404.D
 Acq on: 8/14/2023 10:30:04 AM
 Operator: FA\GC9
 Sample: GX CCV
 Inst Name: GC-9
 ALS Vial: 3
 Method: D:\MassHunter\Methods\Quant\BFB2021.m



Target Mass	Rel. To Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Pass/Fail
95	174	50	200	109.1	2091008	Pass
96	95	5	9	6.5	136832	Pass
173	174	0	2	0.0	0	Pass
174	95	50	200	91.7	1917440	Pass
175	174	5	9	7.2	138944	Pass
176	174	95	105	97.1	1861120	Pass
177	176	5	10	6.4	119416	Pass



Internal Standards

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-9 230814C CCV Name: GX 85852 MIDPOINT
 Run No: 85905 CCV SeqNo: 1792932
 Lab File ID (Standard): 080840.D Date Analyzed: 8/9/2023
 Instrument ID: GC-9 Time Analyzed: 11:45
 GC Column: ID (mm): Length (M):

	IS1 (CBZ) AREA #	RT #	IS2 (14DCBZ) AREA #	RT #				
12 HOUR STD	8852568	8.576	7404262	10.972				
UPPER LIMIT	17705136	9.076	14808524	11.472				
LOWER LIMIT	4426284	8.076	3702131	10.472				
SAMPLE NO.								
01	CCV-41166A	8.61703e+006	8.576	7.14786e+006	10.972			
02	CCV-41166B	7.91486e+006	8.571	6.68215e+006	10.973			
03	CCV-41166C	7.46962e+006	8.571	6.15787e+006	10.972			
04	CCV-41166D	7.23693e+006	8.571	6.04555e+006	10.973			
05	CCV-41166F	7.27387e+006	8.571	6.17035e+006	10.972			
06	CCV-41166G	7.43835e+006	8.576	6.20353e+006	10.972			

IS1 (CBZ) = Chlorobenzene-d5

IS2 (14DCBZ) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-9 230814C CCV Name: CCV-41166A
 Run No: 85905 CCV SeqNo: 1792909
 Lab File ID (Standard): 081004.D Date Analyzed: 8/10/2023
 Instrument ID: GC-9 Time Analyzed: 10:55
 GC Column: ID (mm): Length (M):

	IS1 (CBZ) AREA #	RT #	IS2 (14DCBZ) AREA #	RT #				
12 HOUR STD	8617034	8.576	7147864	10.972				
UPPER LIMIT	17234068	9.076	14295728	11.472				
LOWER LIMIT	4308517	8.076	3573932	10.472				
SAMPLE NO.								
01 MB-41166	9.10751e+006	8.571	7.60151e+006	10.972				

IS1 (CBZ) = Chlorobenzene-d5

IS2 (14DCBZ) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-9 230814C CCV Name: CCV-41166C
 Run No: 85905 CCV SeqNo: 1792905
 Lab File ID (Standard): 081095.D Date Analyzed: 8/12/2023
 Instrument ID: GC-9 Time Analyzed: 12:12
 GC Column: ID (mm): Length (M):

	IS1 (CBZ) AREA #	RT #	IS2 (14DCBZ) AREA #	RT #				
12 HOUR STD	7469616	8.571	6157874	10.972				
UPPER LIMIT	14939232	9.071	12315748	11.472				
LOWER LIMIT	3734808	8.071	3078937	10.472				
SAMPLE NO.								
01 LCS-41166	7.46962e+006	8.571	6.15787e+006	10.972				
02 2308044-014B	7.31291e+006	8.571	6.12292e+006	10.972				
03 2308044-014BDUP	7.38838e+006	8.571	6.1644e+006	10.972				
04 2308044-023B	7.23739e+006	8.571	6.05708e+006	10.973				
05 2308044-023BDUP	7.20045e+006	8.571	6.02772e+006	10.972				
06 2308151-002B	6.98437e+006	8.571	5.74816e+006	10.972				
07 2308151-003B	7.38562e+006	8.571	6.20426e+006	10.973				
08 2308151-005B	6.07887e+006	8.576	5.24985e+006	10.977				
09 2308151-006B	7.28134e+006	8.571	6.0646e+006	10.972				
10 2308151-008B	7.42487e+006	8.571	6.21789e+006	10.973				
11 2308151-010B	7.25458e+006	8.571	6.10664e+006	10.972				
12 2308151-011B	7.29341e+006	8.571	5.81707e+006	10.972				
13 2308151-012B	7.23723e+006	8.571	6.17088e+006	10.972				
14 2308111-001B	7.76383e+006	8.571	6.42932e+006	10.972				
15 2308111-001BMS	8.16703e+006	8.571	6.60459e+006	10.972				

IS1 (CBZ) = Chlorobenzene-d5

IS2 (14DCBZ) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-9 230814C CCV Name: CCV-41166E
 Run No: 85905 CCV SeqNo: 1793078
 Lab File ID (Standard): 081404.D Date Analyzed: 8/14/2023
 Instrument ID: GC-9 Time Analyzed: 10:30
 GC Column: ID (mm): Length (M):

	IS1 (CBZ) AREA #	RT #	IS2 (14DCBZ) AREA #	RT #				
12 HOUR STD	7537162	8.576	6292433	10.972				
UPPER LIMIT	15074324	9.076	12584866	11.472				
LOWER LIMIT	3768581	8.076	3146217	10.472				
SAMPLE NO.								
01	2308151-006B	7.37747e+006	8.571	6.21068e+006	10.973			
02	2308151-010B	7.61765e+006	8.576	6.04722e+006	10.972			
03	2308151-012B	7.46958e+006	8.571	6.3536e+006	10.972			
04	2308151-005B	7.80663e+006	8.576	6.54487e+006	10.972			
05	2308151-011B	7.58341e+006	8.576	6.42408e+006	10.972			
06	2308151-009B	7.57143e+006	8.576	6.2287e+006	10.972			
07	2308151-005B	7.62781e+006	8.576	6.37219e+006	10.973			

IS1 (CBZ) = Chlorobenzene-d5

IS2 (14DCBZ) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-9 230814C CCV Name: CCV-41166F
 Run No: 85905 CCV SeqNo: 1793142
 Lab File ID (Standard): 081416.D Date Analyzed: 8/14/2023
 Instrument ID: GC-9 Time Analyzed: 17:01
 GC Column: ID (mm): Length (M):

	IS1 (CBZ) AREA #	RT #	IS2 (14DCBZ) AREA #	RT #				
12 HOUR STD	7273870	8.571	6170350	10.972				
UPPER LIMIT	14547740	9.071	12340700	11.472				
LOWER LIMIT	3636935	8.071	3085175	10.472				
SAMPLE NO.								
01 2308111-001B	8.97961e+006	8.571	7.39855e+006	10.972				

IS1 (CBZ) = Chlorobenzene-d5

IS2 (14DCBZ) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

DATA SET for Review - Deliverable Requirements

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Fremont Analytical Work Order No. 2308151

GeoEngineers

Project Name: S Jackson Street

Project Number: 24504-001-01

This data set contains the following:

- Analytical Sequence Summary
- Calibration Information
- Tune Information
- Internal Standards Report

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) 072646.D No data found	8270E_SIM_625.M		0.000	N/A
2) 072601.D CO	8270E_SIM_625.M	150	1.000	26 Jul 2023 11:00 am
3) 072602.D CCV-	8270E_SIM_625.M	2	1.000	26 Jul 2023 11:28 am
4) 072603.D CO	8270E_SIM_625.M	150	1.000	26 Jul 2023 01:20 pm
5) 072604.D TUNE	8270E_SCAN_625.M	1	1.000	26 Jul 2023 01:48 pm
6) 072605.D PAH ICAL 10	8270E_SIM_625.M	72	1.000	26 Jul 2023 02:17 pm
7) 072606.D PAH ICAL 20	8270E_SIM_625.M	73	1.000	26 Jul 2023 02:45 pm
8) 072607.D PAH ICAL 40	8270E_SIM_625.M	74	1.000	26 Jul 2023 03:13 pm
9) 072608.D CO	8270E_SIM_625.M	83	1.000	26 Jul 2023 03:41 pm
10) 072609.D CO	8270E_SIM_625.M	79	1.000	26 Jul 2023 04:10 pm
11) 072610.D PAH ICAL 10	8270E_SIM_625.M	72	1.000	26 Jul 2023 04:38 pm
12) 072611.D PAH ICAL 20	8270E_SIM_625.M	73	1.000	26 Jul 2023 05:06 pm
13) 072612.D PAH ICAL 40	8270E_SIM_625.M	74	1.000	26 Jul 2023 05:35 pm
14) 072613.D PAH ICAL 100	8270E_SIM_625.M	75	1.000	26 Jul 2023 06:03 pm
15) 072614.D PAH ICAL 200	8270E_SIM_625.M	76	1.000	26 Jul 2023 06:32 pm
16) 072615.D PAH ICAL 500	8270E_SIM_625.M	77	1.000	26 Jul 2023 07:01 pm
17) 072616.D PAH ICAL 750	8270E_SIM_625.M	78	1.000	26 Jul 2023 07:29 pm
18) 072617.D PAH ICAL 1000	8270E_SIM_625.M	79	1.000	26 Jul 2023 07:58 pm
19) 072618.D PAH ICAL 2000	8270E_SIM_625.M	80	1.000	26 Jul 2023 08:26 pm
20) 072619.D PAH ICAL 5000	8270E_SIM_625.M	81	1.000	26 Jul 2023 08:55 pm
21) 072620.D CO	8270E_SIM_625.M	150	1.000	26 Jul 2023 09:23 pm
22) 072621.D PAH ICV	8270E_SIM_625.M	83	1.000	26 Jul 2023 09:51 pm
23) 072622.D PAH ICB	8270E_SIM_625.M	82	1.000	26 Jul 2023 10:20 pm
24) 072623.D TUNE	8270E_SCAN_625.M	1	1.000	26 Jul 2023 10:48 pm
25) 072624.D CO	8270E_SIM_625_LOWLEVEL.M	150	1.000	26 Jul 2023 11:17 pm
26) 072625.D PAH LL ICAL 2	8270E_SIM_625_LOWLEVEL.M	71	1.000	26 Jul 2023 11:45 pm
27) 072626.D PAH LL ICAL 10	8270E_SIM_625_LOWLEVEL.M	72	1.000	26 Jul 2023 12:14 am

38) 072627.D	8270E_SIM_625_LOWLEVEL.M	73	1.000	27 Jul 2023	12:42 am
PAH LL ICAL 20					

29) 072628.D	8270E_SIM_625_LOWLEVEL.M	74	1.000	27 Jul 2023	01:10 am
PAH LL ICAL 40					

30) 072629.D	8270E_SIM_625_LOWLEVEL.M	75	1.000	27 Jul 2023	01:38 am
PAH LL ICAL 100					

31) 072630.D	8270E_SIM_625_LOWLEVEL.M	76	1.000	27 Jul 2023	02:06 am
PAH LL ICAL 200					

32) 072631.D	8270E_SIM_625_LOWLEVEL.M	77	1.000	27 Jul 2023	02:34 am
PAH LL ICAL 500					

33) 072632.D	8270E_SIM_625_LOWLEVEL.M	78	1.000	27 Jul 2023	03:03 am
PAH LL ICAL 750					

34) 072633.D	8270E_SIM_625_LOWLEVEL.M	79	1.000	27 Jul 2023	03:31 am
PAH LL ICAL 1000					

35) 072634.D	8270E_SIM_625_LOWLEVEL.M	80	1.000	27 Jul 2023	03:59 am
PAH LL ICAL 2000					

36) 072635.D	8270E_SIM_625_LOWLEVEL.M	81	1.000	27 Jul 2023	04:27 am
PAH LL ICAL 5000					

37) 072636.D	8270E_SIM_625_LOWLEVEL.M	150	1.000	27 Jul 2023	04:55 am
CO					

38) 072637.D	8270E_SIM_625_LOWLEVEL.M	83	1.000	27 Jul 2023	05:23 am
PAH LL ICV					

39) 072638.D	8270E_SIM_625_LOWLEVEL.M	82	1.000	27 Jul 2023	05:51 am
PAH LL ICB					

40) 072639.D	8270E_SIM_625.M	150	1.000	27 Jul 2023	06:19 am
CO					

41) 072640.D	8270E_SCAN_625.M	1	1.000	27 Jul 2023	06:47 am
TUNE					

42) 072641.D	8270E_SIM_625.M	79	1.000	27 Jul 2023	07:16 am
CCV					

43) 072642.D	8270E_SIM_625.M	3	1.000	27 Jul 2023	07:44 am
MB-40988					

44) 072643.D	8270E_SIM_625.M	4	1.000	27 Jul 2023	08:12 am
LCS-40988					

45) 072644.D	8270E_SIM_625.M	5	1.000	27 Jul 2023	08:40 am
2307271-001A					

46) 072645.D	8270E_SIM_625.M	30	1.000	27 Jul 2023	09:09 am
2307244-001A 1000X					

Data Directory: H:\Data\2023\081423\

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) 081401.D CO	8270E_SIM_625.M	2	1.000	14 Aug 2023 08:10 am
2) 081402.D TUNE	8270E_SCAN_625.M	1	1.000	14 Aug 2023 08:38 am
3) 081403.D CCV	8270E_SIM_625.M	2	1.000	14 Aug 2023 09:07 am
4) 081404.D CCV	8270E_SIM_625.M	2	1.000	14 Aug 2023 10:06 am
5) 081405.D MB-41191	8270E_SIM_625.M	11	1.000	14 Aug 2023 11:13 am
6) 081406.D LCS-41191	8270E_SIM_625.M	12	1.000	14 Aug 2023 11:41 am
7) 081407.D 2308151-006A	8270E_SIM_625.M	16	1.000	14 Aug 2023 12:09 pm
8) 081408.D 2308174-001A	8270E_SIM_625.M	13	1.000	14 Aug 2023 12:38 pm
9) 081409.D 2308174-001AMS	8270E_SIM_625.M	14	1.000	14 Aug 2023 01:06 pm
10) 081410.D 2308174-001AMSD	8270E_SIM_625.M	15	1.000	14 Aug 2023 01:34 pm
11) 081411.D 2308168-001A	8270E_SIM_625.M	17	1.000	14 Aug 2023 02:02 pm
12) 081412.D 2308168-002A	8270E_SIM_625.M	18	1.000	14 Aug 2023 02:30 pm
13) 081413.D 2308168-003A	8270E_SIM_625.M	19	1.000	14 Aug 2023 02:58 pm
14) 081414.D 2308168-004A	8270E_SIM_625.M	20	1.000	14 Aug 2023 03:27 pm
15) 081415.D CCV	8270E_SIM_625.M	2	1.000	14 Aug 2023 03:55 pm

Data Directory: C:\GC-14\Data\2023\081023\

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) 081023.D TUNE	8270E_SCAN_625.M	1	1.000	10 Aug 2023 08:54 am
2) 081024.D CCV	8270E_SIM_625.M	2	1.000	10 Aug 2023 09:23 am
3) 081025.D CCV-LL-	8270E_SIM_625_LOWLEVEL.M	2	1.000	10 Aug 2023 09:50 am
4) 081026.D MB-41157	8270E_SIM_625_LOWLEVEL.M	71	1.000	10 Aug 2023 02:22 pm
5) 081027.D LCS-41157	8270E_SIM_625_LOWLEVEL.M	72	1.000	10 Aug 2023 02:50 pm
6) 081028.D LCSD-41157	8270E_SIM_625_LOWLEVEL.M	73	1.000	10 Aug 2023 03:19 pm
7) 081029.D LCS-LL-41157	8270E_SIM_625_LOWLEVEL.M	74	1.000	10 Aug 2023 03:47 pm
8) 081030.D 2308063-001C	8270E_SIM_625_LOWLEVEL.M	75	1.000	10 Aug 2023 04:15 pm
9) 081031.D 2308064-001C	8270E_SIM_625_LOWLEVEL.M	76	1.000	10 Aug 2023 04:43 pm
10) 081032.D CCV-LL-	8270E_SIM_625_LOWLEVEL.M	2	1.000	10 Aug 2023 05:12 pm
11) 081033.D TUNE	8270E_SCAN_625.M	1	1.000	10 Aug 2023 05:40 pm
12) 081034.D CCV	8270E_SIM_625.M	2	1.000	10 Aug 2023 06:09 pm
13) 081035.D MB-41159	8270E_SIM_625.M	77	1.000	10 Aug 2023 06:37 pm
14) 081036.D LCS-41159	8270E_SIM_625.M	78	1.000	10 Aug 2023 07:05 pm
15) 081037.D LCSD-41159	8270E_SIM_625.M	79	1.000	10 Aug 2023 07:34 pm
16) 081038.D 2308094-001B	8270E_SIM_625.M	80	1.000	10 Aug 2023 08:02 pm
17) 081039.D 2308106-001A	8270E_SIM_625.M	81	1.000	10 Aug 2023 08:30 pm
18) 081040.D 2308106-002A	8270E_SIM_625.M	82	1.000	10 Aug 2023 08:58 pm
19) 081041.D 2308106-003A	8270E_SIM_625.M	83	1.000	10 Aug 2023 09:26 pm
20) 081042.D 2308106-004A	8270E_SIM_625.M	84	1.000	10 Aug 2023 09:55 pm
21) 081043.D MB-41173	8270E_SIM_625.M	92	1.000	10 Aug 2023 10:23 pm

22) 081044.D LCS-41173	8270E_SIM_625.M	93	1.000	10 Aug 2023	10:51 pm
23) 081045.D 2308151-008A	8270E_SIM_625.M	94	1.000	10 Aug 2023	11:19 pm
24) 081046.D 2308151-009A	8270E_SIM_625.M	95	1.000	10 Aug 2023	11:47 pm
25) 081047.D 2308151-010A	8270E_SIM_625.M	96	1.000	11 Aug 2023	12:15 am
26) 081048.D 2308151-011A	8270E_SIM_625.M	97	1.000	11 Aug 2023	12:43 am
27) 081049.D 2308151-012A	8270E_SIM_625.M	98	1.000	11 Aug 2023	01:11 am
28) 081050.D 2308151-012AMS	8270E_SIM_625.M	99	1.000	11 Aug 2023	01:39 am
29) 081051.D 2308151-012AMSD	8270E_SIM_625.M	100	1.000	11 Aug 2023	02:07 am
30) 081052.D CCV-QCS-	8270E_SIM_625.M	2	1.000	11 Aug 2023	02:35 am
31) 081053.D 2308106-005A 500X	8270E_SIM_625.M	87	1.000	11 Aug 2023	03:03 am
32) 081054.D 2308106-006A 500X	8270E_SIM_625.M	88	1.000	11 Aug 2023	03:31 am
33) 081055.D 2308106-005A 50X	8270E_SIM_625.M	89	1.000	11 Aug 2023	03:59 am
34) 081056.D 2308106-006A 50X	8270E_SIM_625.M	90	1.000	11 Aug 2023	04:27 am
35) 081057.D CO	8270E_SIM_625.M	2	1.000	11 Aug 2023	04:55 am
36) 081058.D 2308111-001A	8270E_SIM_625.M	91	1.000	11 Aug 2023	05:23 am
37) 081059.D QCS-	8270E_SIM_625.M	2	1.000	11 Aug 2023	05:51 am
38) 081101.D CO	8270E_SIM_625.M	2	1.000	11 Aug 2023	08:48 am
39) 081102.D TUNE	8270E_SCAN_625.M	1	1.000	11 Aug 2023	09:16 am
40) 081103.D CCV	8270E_SIM_625.M	2	1.000	11 Aug 2023	09:45 am
41) 081104.D 2308106-004A 10X	8270E_SIM_625.M	101	1.000	11 Aug 2023	10:13 am
42) 081105.D CO	8270E_SIM_625.M	2	1.000	11 Aug 2023	10:41 am
43) 081106.D QCS-	8270E_SIM_625.M	2	1.000	11 Aug 2023	11:09 am
44) 081107.D LCS-41159	8270E_SIM_625.M	78	1.000	11 Aug 2023	11:44 am
45) 081108.D	8270E_SIM_625.M				

46) 081109.D

8270E_SIM_625.M

2

1.000

11 Aug 2023 01:00 pm

Data Directory: C:\GC-14\Data\2023\081523\

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) 081543.D No data found	8270E_SIM_625.M		0.000	N/A
2) 081501.D CO	8270E_SIM_625.M	2	1.000	15 Aug 2023 08:10 am
3) 081502.D TUNE	8270E_SCAN_625.M	1	1.000	15 Aug 2023 08:38 am
4) 081503.D CCV	8270E_SIM_625.M	2	1.000	15 Aug 2023 09:07 am
5) 081504.D CO	8270E_SIM_625.M	2	1.000	15 Aug 2023 11:45 am
6) 081505.D SIM CHECK	8270E_SIM_625.M	2	1.000	15 Aug 2023 12:13 pm
7) 081506.D TUNE	8270E_SCAN_625.M	1	1.000	15 Aug 2023 12:41 pm
8) 081507.D PAH 10	8270E_SIM_625.M	32	1.000	15 Aug 2023 02:45 pm
9) 081508.D PAH 20	8270E_SIM_625.M	33	1.000	15 Aug 2023 03:13 pm
10) 081509.D PAH 40	8270E_SIM_625.M	34	1.000	15 Aug 2023 03:41 pm
11) 081510.D PAH 100	8270E_SIM_625.M	35	1.000	15 Aug 2023 04:10 pm
12) 081511.D PAH 200	8270E_SIM_625.M	36	1.000	15 Aug 2023 04:38 pm
13) 081512.D PAH 500	8270E_SIM_625.M	37	1.000	15 Aug 2023 05:07 pm
14) 081513.D PAH 750	8270E_SIM_625.M	38	1.000	15 Aug 2023 05:36 pm
15) 081514.D PAH 1000	8270E_SIM_625.M	39	1.000	15 Aug 2023 06:05 pm
16) 081515.D PAH 2000	8270E_SIM_625.M	40	1.000	15 Aug 2023 06:34 pm
17) 081516.D PAH 5000	8270E_SIM_625.M	41	1.000	15 Aug 2023 07:04 pm
18) 081517.D CO	8270E_SIM_625.M	150	1.000	15 Aug 2023 07:33 pm
19) 081518.D PAH ICV	8270E_SIM_625.M	43	1.000	15 Aug 2023 08:02 pm
20) 081519.D PAH ICB	8270E_SIM_625.M	42	1.000	15 Aug 2023 08:31 pm
21) 081520.D TUNE	8270E_SCAN_625.M	1	1.000	15 Aug 2023 09:00 pm

22) 081521.D	8270E_SCAN_625.M	1	1.000	15 Aug 2023	09:29 pm

23) 081522.D	8270E_SIM_625_LOWLEVEL.M	31	1.000	15 Aug 2023	09:59 pm

24) 081523.D	8270E_SIM_625_LOWLEVEL.M	32	1.000	15 Aug 2023	10:28 pm

25) 081524.D	8270E_SIM_625_LOWLEVEL.M	33	1.000	15 Aug 2023	10:56 pm

26) 081525.D	8270E_SIM_625_LOWLEVEL.M	34	1.000	15 Aug 2023	11:25 pm

27) 081526.D	8270E_SIM_625_LOWLEVEL.M	35	1.000	15 Aug 2023	11:54 pm

28) 081527.D	8270E_SIM_625_LOWLEVEL.M	36	1.000	16 Aug 2023	12:22 am

29) 081528.D	8270E_SIM_625_LOWLEVEL.M	37	1.000	16 Aug 2023	12:51 am

30) 081529.D	8270E_SIM_625_LOWLEVEL.M	38	1.000	16 Aug 2023	01:20 am

31) 081530.D	8270E_SIM_625_LOWLEVEL.M	39	1.000	16 Aug 2023	01:48 am

32) 081531.D	8270E_SIM_625_LOWLEVEL.M	40	1.000	16 Aug 2023	02:17 am

33) 081532.D	8270E_SIM_625_LOWLEVEL.M	41	1.000	16 Aug 2023	02:46 am

34) 081533.D	8270E_SIM_625.M	150	1.000	16 Aug 2023	03:14 am

35) 081534.D	8270E_SIM_625_LOWLEVEL.M	43	1.000	16 Aug 2023	03:43 am

36) 081535.D	8270E_SIM_625_LOWLEVEL.M	42	1.000	16 Aug 2023	04:11 am

37) 081536.D	8270E_SIM_625.M	2	1.000	16 Aug 2023	04:40 am

38) 081537.D	8270E_SIM_625.M	2	1.000	16 Aug 2023	05:08 am

39) 081538.D	8270E_SIM_625.M	2	1.000	16 Aug 2023	05:37 am

40) 081539.D	8270E_SIM_625.M	2	1.000	16 Aug 2023	06:05 am

41) 081540.D	8270E_SIM_625.M	51	1.000	16 Aug 2023	06:34 am

42) 081541.D	8270E_SIM_625.M	52	1.000	16 Aug 2023	07:02 am

43) 081542.D	8270E_SIM_625.M	53	1.000	16 Aug 2023	07:31 am

Data Directory: C:\GC-14\Data\2023\082123\

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) 082101.D CO	8270E_SIM_625.M	2	1.000	21 Aug 2023 08:23 am
2) 082102.D TUNE	8270E_SCAN_625.M	1	1.000	21 Aug 2023 08:51 am
3) 082103.D CCV	8270E_SIM_625.M	2	1.000	21 Aug 2023 09:20 am
4) 082104.D 2308238-001A 20x	8270E_SCAN_625.M	11	1.000	21 Aug 2023 09:48 am
5) 082105.D CCV	8270E_SIM_625.M	2	1.000	21 Aug 2023 12:46 pm
6) 082106.D MB-41251	8270E_SIM_625.M	21	1.000	21 Aug 2023 01:14 pm
7) 082107.D LCS-41251	8270E_SIM_625.M	22	1.000	21 Aug 2023 01:42 pm
8) 082108.D 2308151-002A	8270E_SIM_625.M	23	1.000	21 Aug 2023 02:10 pm
9) 082109.D 2308151-002AMS	8270E_SIM_625.M	24	1.000	21 Aug 2023 02:38 pm
10) 082110.D 2308151-002AMSD	8270E_SIM_625.M	25	1.000	21 Aug 2023 03:06 pm
11) 082111.D 2308151-003A	8270E_SIM_625.M	26	1.000	21 Aug 2023 03:35 pm
12) 082112.D 2308151-005A	8270E_SIM_625.M	27	1.000	21 Aug 2023 04:03 pm
13) 082113.D 2308229-001A	8270E_SIM_625.M	28	1.000	21 Aug 2023 04:31 pm
14) 082114.D 2308256-001A	8270E_SIM_625.M	29	1.000	21 Aug 2023 04:59 pm
15) 082115.D QCS	8270E_SIM_625.M	2	1.000	21 Aug 2023 05:28 pm



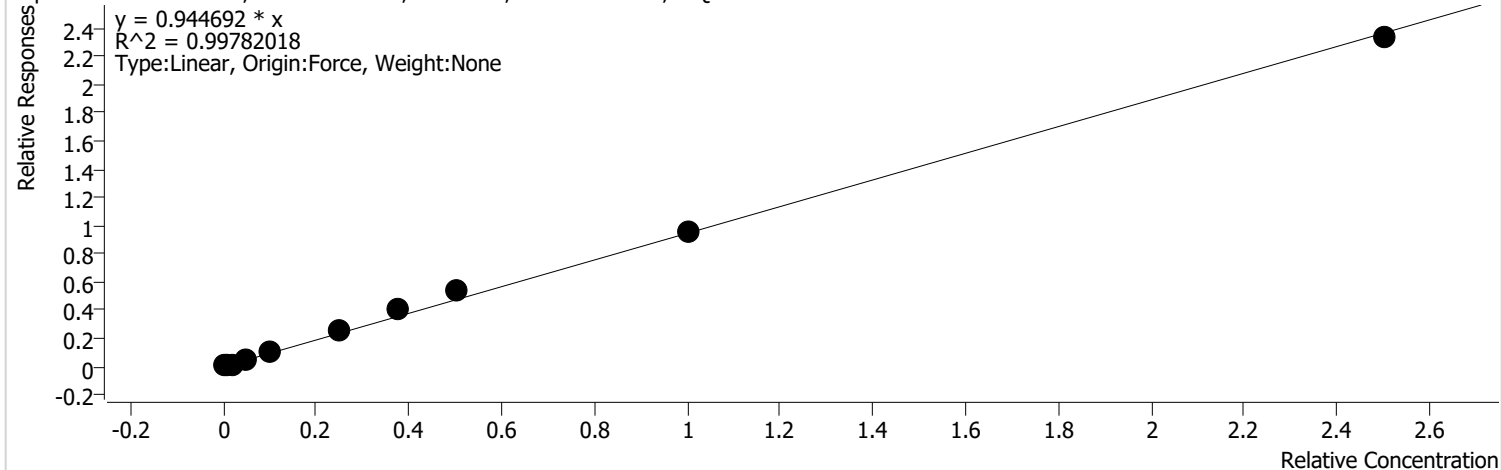
Calibration

Calibration Report

Batch Path	C:\GC-14\Data\2023\072623\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	7/27/2023 9:49 AM	Reporter Name	FA\GC14
Report Time	7/27/2023 9:51:58 AM	Batch State	Processed
Last Calib Update	7/27/2023 9:48 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Naphthalene %RSE = 10.8

Naphthalene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



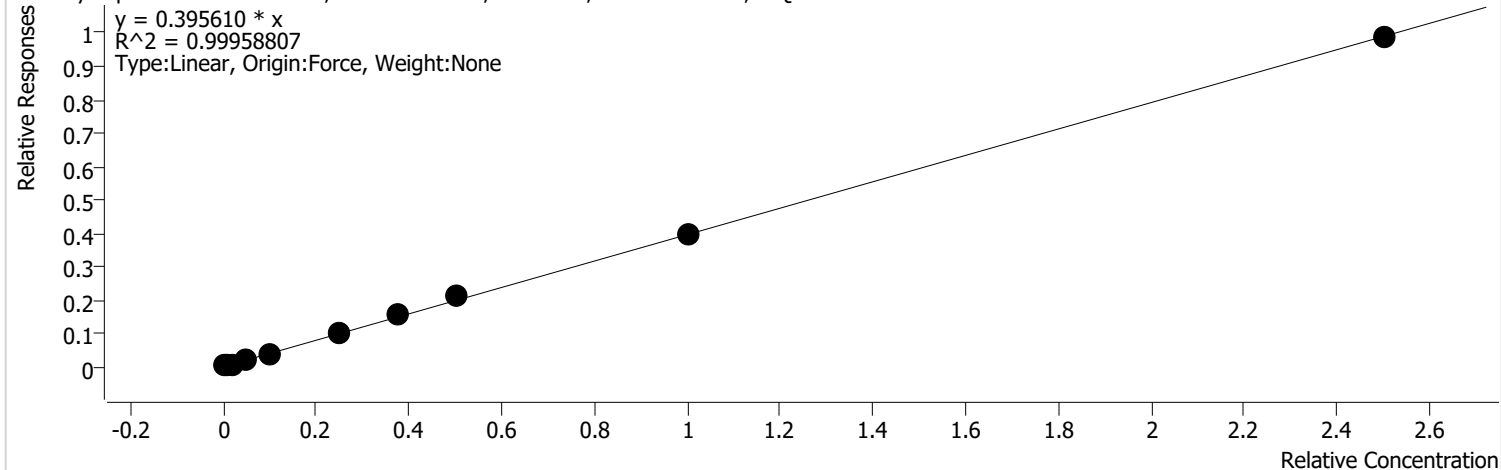
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C:\GC-14\Data\2023\072623\072611.D	Calibration	2	x	7904	20.0000	1.0295	
C:\GC-14\Data\2023\072623\072612.D	Calibration	3	x	15571	40.0000	1.0334	
C:\GC-14\Data\2023\072623\072613.D	Calibration	4	x	38480	100.0000	1.0061	
C:\GC-14\Data\2023\072623\072614.D	Calibration	5	x	77269	200.0000	0.9942	
C:\GC-14\Data\2023\072623\072615.D	Calibration	6	x	216216	500.0000	1.0617	
C:\GC-14\Data\2023\072623\072616.D	Calibration	7	x	329435	750.0000	1.0725	
C:\GC-14\Data\2023\072623\072617.D	Calibration	8	x	438764	1000.0000	1.0949	
C:\GC-14\Data\2023\072623\072618.D	Calibration	9	x	834662	2000.0000	0.9629	
C:\GC-14\Data\2023\072623\072619.D	Calibration	10	x	2029614	5000.0000	0.9316	

Calibration Report

Batch Path	C:\GC-14\Data\2023\072623\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	7/27/2023 9:49 AM	Reporter Name	FA\GC14
Report Time	7/27/2023 9:52:00 AM	Batch State	Processed
Last Calib Update	7/27/2023 9:48 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

2-Methylnaphthalene %RSE = 9.1

2-Methylnaphthalene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



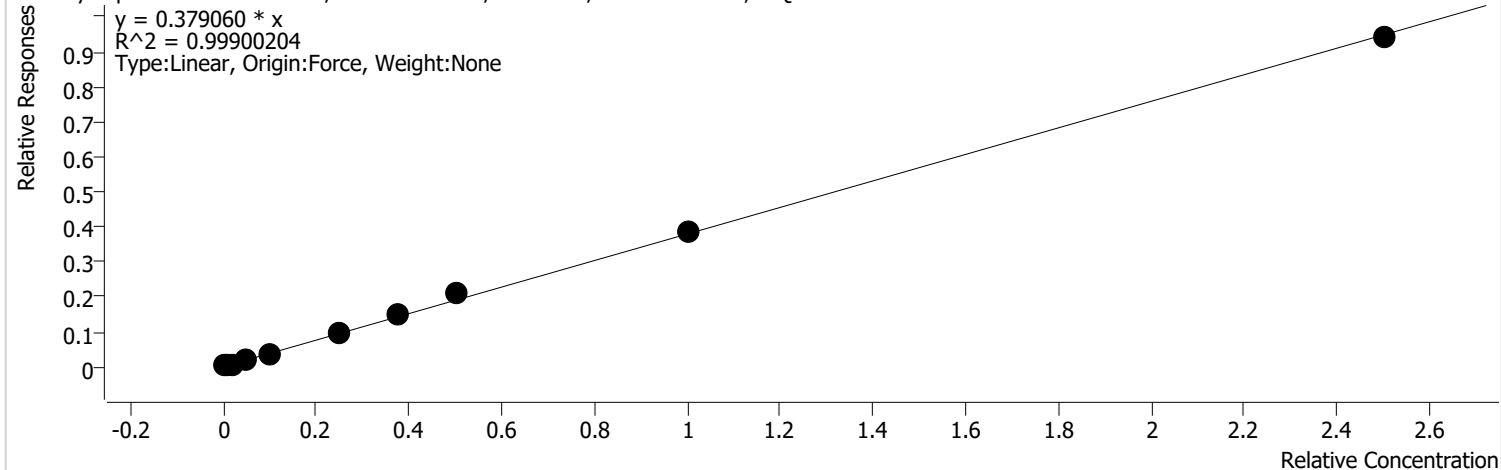
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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C:\GC-14\Data\2023\072623\072611.D	Calibration	2	x	2713	20.0000	0.3534	
C:\GC-14\Data\2023\072623\072612.D	Calibration	3	x	5390	40.0000	0.3577	
C:\GC-14\Data\2023\072623\072613.D	Calibration	4	x	13404	100.0000	0.3505	
C:\GC-14\Data\2023\072623\072614.D	Calibration	5	x	27441	200.0000	0.3531	
C:\GC-14\Data\2023\072623\072615.D	Calibration	6	x	80968	500.0000	0.3976	
C:\GC-14\Data\2023\072623\072616.D	Calibration	7	x	126285	750.0000	0.4111	
C:\GC-14\Data\2023\072623\072617.D	Calibration	8	x	171782	1000.0000	0.4287	
C:\GC-14\Data\2023\072623\072618.D	Calibration	9	x	342745	2000.0000	0.3954	
C:\GC-14\Data\2023\072623\072619.D	Calibration	10	x	858459	5000.0000	0.3940	

Calibration Report

Batch Path	C:\GC-14\Data\2023\072623\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	7/27/2023 9:49 AM	Reporter Name	FA\GC14
Report Time	7/27/2023 9:52:00 AM	Batch State	Processed
Last Calib Update	7/27/2023 9:48 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

1-Methylnaphthalene %RSE = 10.9

1-Methylnaphthalene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs

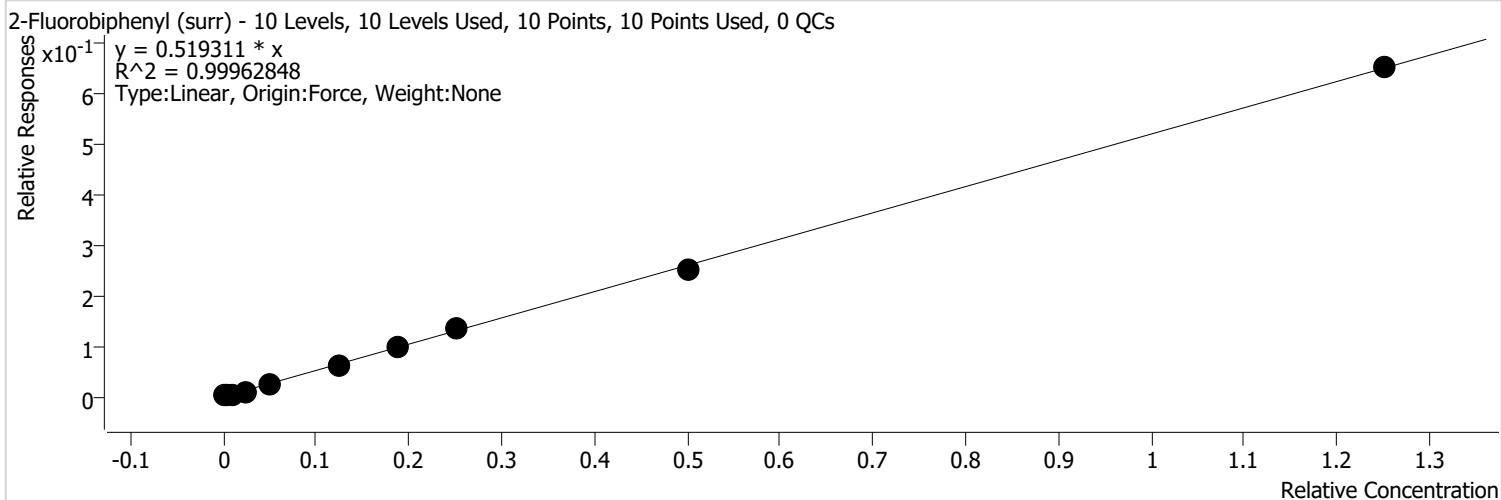


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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C:\GC-14\Data\2023\072623\072612.D	Calibration	3	x	5083	40.0000	0.3374	
C:\GC-14\Data\2023\072623\072613.D	Calibration	4	x	12727	100.0000	0.3328	
C:\GC-14\Data\2023\072623\072614.D	Calibration	5	x	26129	200.0000	0.3362	
C:\GC-14\Data\2023\072623\072615.D	Calibration	6	x	78609	500.0000	0.3860	
C:\GC-14\Data\2023\072623\072616.D	Calibration	7	x	124615	750.0000	0.4057	
C:\GC-14\Data\2023\072623\072617.D	Calibration	8	x	170652	1000.0000	0.4258	
C:\GC-14\Data\2023\072623\072618.D	Calibration	9	x	332961	2000.0000	0.3841	
C:\GC-14\Data\2023\072623\072619.D	Calibration	10	x	818720	5000.0000	0.3758	

Calibration Report

Batch Path	C:\GC-14\Data\2023\072623\QuantResults\PAH ICAL.batch.bin		
Analysis Time	7/27/2023 9:49 AM	Analyst Name	FA\GC14
Report Time	7/27/2023 9:52:00 AM	Reporter Name	FA\GC14
Last Calib Update	7/27/2023 9:48 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

2-Fluorobiphenyl (surr) %RSE =



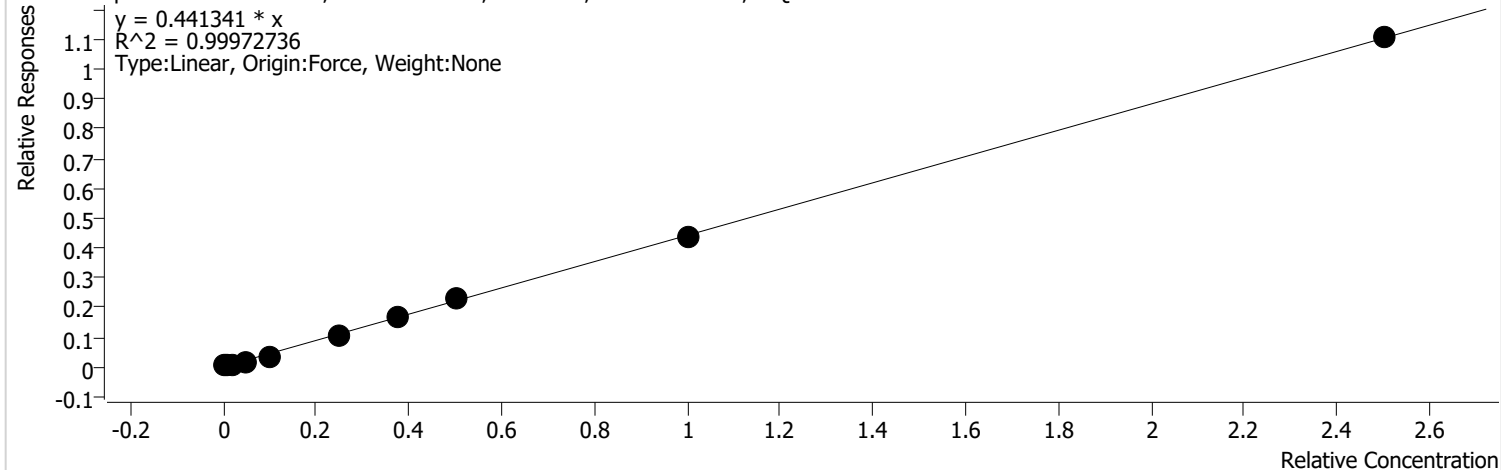
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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C:\GC-14\Data\2023\072623\072612.D	Calibration	3	x	3352	20.0000	0.4449	
C:\GC-14\Data\2023\072623\072613.D	Calibration	4	x	8402	50.0000	0.4394	
C:\GC-14\Data\2023\072623\072614.D	Calibration	5	x	17284	100.0000	0.4448	
C:\GC-14\Data\2023\072623\072615.D	Calibration	6	x	51690	250.0000	0.5076	
C:\GC-14\Data\2023\072623\072616.D	Calibration	7	x	81324	375.0000	0.5295	
C:\GC-14\Data\2023\072623\072617.D	Calibration	8	x	110537	500.0000	0.5517	
C:\GC-14\Data\2023\072623\072618.D	Calibration	9	x	219287	1000.0000	0.5059	
C:\GC-14\Data\2023\072623\072619.D	Calibration	10	x	566653	2500.0000	0.5202	

Calibration Report

Batch Path	C:\GC-14\Data\2023\072623\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	7/27/2023 9:49 AM	Reporter Name	FA\GC14
Report Time	7/27/2023 9:52:00 AM	Batch State	Processed
Last Calib Update	7/27/2023 9:48 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

2-Chloronaphthalene %RSE = 14.4

2-Chloronaphthalene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



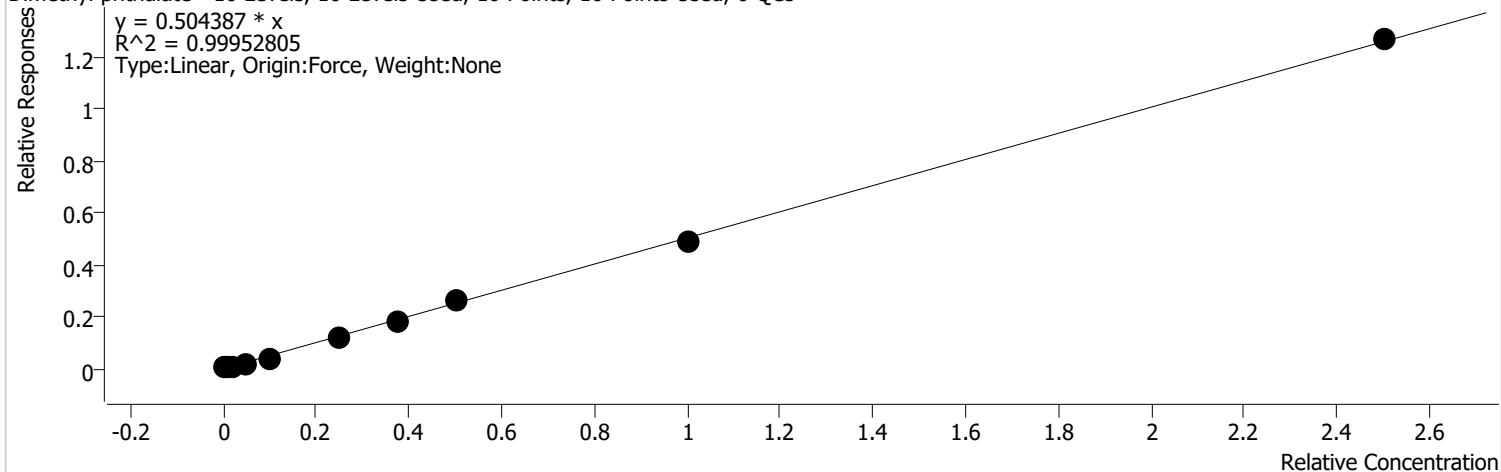
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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C:\GC-14\Data\2023\072623\072612.D	Calibration	3	x	5397	40.0000	0.3582	
C:\GC-14\Data\2023\072623\072613.D	Calibration	4	x	13927	100.0000	0.3642	
C:\GC-14\Data\2023\072623\072614.D	Calibration	5	x	28795	200.0000	0.3705	
C:\GC-14\Data\2023\072623\072615.D	Calibration	6	x	86557	500.0000	0.4250	
C:\GC-14\Data\2023\072623\072616.D	Calibration	7	x	135975	750.0000	0.4427	
C:\GC-14\Data\2023\072623\072617.D	Calibration	8	x	186204	1000.0000	0.4647	
C:\GC-14\Data\2023\072623\072618.D	Calibration	9	x	375619	2000.0000	0.4333	
C:\GC-14\Data\2023\072623\072619.D	Calibration	10	x	962886	5000.0000	0.4420	

Calibration Report

Batch Path	C:\GC-14\Data\2023\072623\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	7/27/2023 9:49 AM	Reporter Name	FA\GC14
Report Time	7/27/2023 9:52:00 AM	Batch State	Processed
Last Calib Update	7/27/2023 9:48 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Dimethyl phthalate %RSE = 14.2

Dimethyl phthalate - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



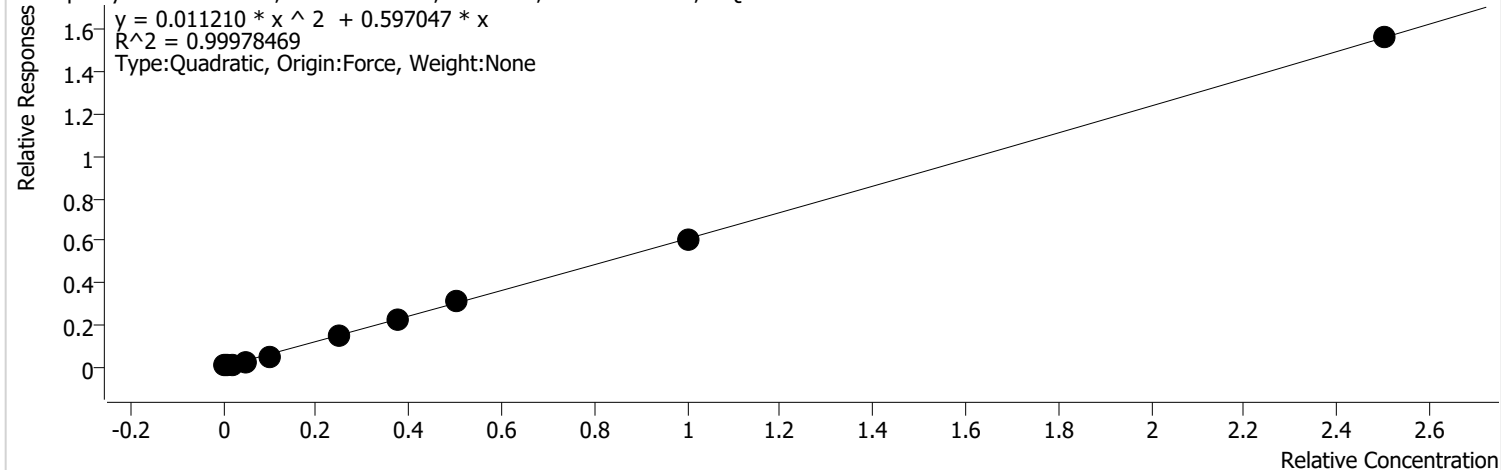
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\072623\072610.D	Calibration	1	x	1728	10.0000	0.4511	
C:\GC-14\Data\2023\072623\072611.D	Calibration	2	x	3290	20.0000	0.4285	
C:\GC-14\Data\2023\072623\072612.D	Calibration	3	x	6132	40.0000	0.4069	
C:\GC-14\Data\2023\072623\072613.D	Calibration	4	x	15170	100.0000	0.3966	
C:\GC-14\Data\2023\072623\072614.D	Calibration	5	x	31666	200.0000	0.4075	
C:\GC-14\Data\2023\072623\072615.D	Calibration	6	x	95312	500.0000	0.4680	
C:\GC-14\Data\2023\072623\072616.D	Calibration	7	x	152286	750.0000	0.4958	
C:\GC-14\Data\2023\072623\072617.D	Calibration	8	x	208468	1000.0000	0.5202	
C:\GC-14\Data\2023\072623\072618.D	Calibration	9	x	421768	2000.0000	0.4866	
C:\GC-14\Data\2023\072623\072619.D	Calibration	10	x	1105353	5000.0000	0.5074	

Calibration Report

Batch Path	C:\GC-14\Data\2023\072623\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	7/27/2023 9:49 AM	Reporter Name	FA\GC14
Report Time	7/27/2023 9:52:00 AM	Batch State	Processed
Last Calib Update	7/27/2023 9:48 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Acenaphthylene %RSE = 16.8

Acenaphthylene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs

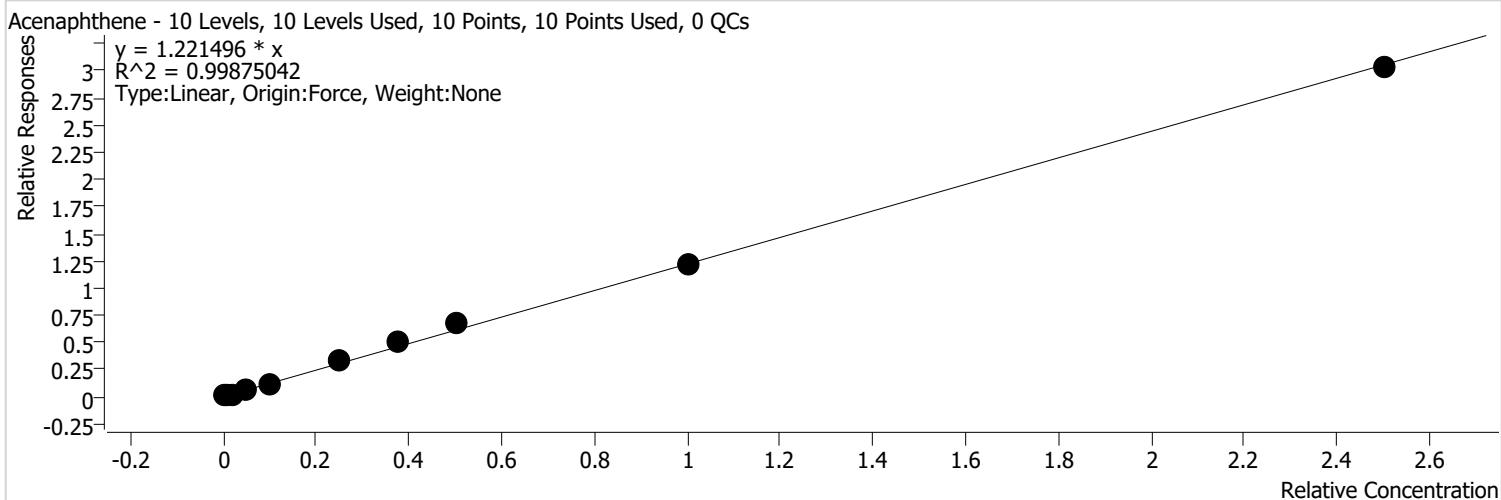


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\072623\072610.D	Calibration	1	x	1864	10.0000	0.4866	
C:\GC-14\Data\2023\072623\072611.D	Calibration	2	x	3673	20.0000	0.4784	
C:\GC-14\Data\2023\072623\072612.D	Calibration	3	x	7093	40.0000	0.4707	
C:\GC-14\Data\2023\072623\072613.D	Calibration	4	x	18278	100.0000	0.4779	
C:\GC-14\Data\2023\072623\072614.D	Calibration	5	x	37827	200.0000	0.4867	
C:\GC-14\Data\2023\072623\072615.D	Calibration	6	x	115698	500.0000	0.5681	
C:\GC-14\Data\2023\072623\072616.D	Calibration	7	x	183073	750.0000	0.5960	
C:\GC-14\Data\2023\072623\072617.D	Calibration	8	x	253128	1000.0000	0.6317	
C:\GC-14\Data\2023\072623\072618.D	Calibration	9	x	524420	2000.0000	0.6050	
C:\GC-14\Data\2023\072623\072619.D	Calibration	10	x	1361857	5000.0000	0.6251	

Calibration Report

Batch Path	C:\GC-14\Data\2023\072623\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	7/27/2023 9:49 AM	Reporter Name	FA\GC14
Report Time	7/27/2023 9:52:00 AM	Batch State	Processed
Last Calib Update	7/27/2023 9:48 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Acenaphthene %RSE = 7.9



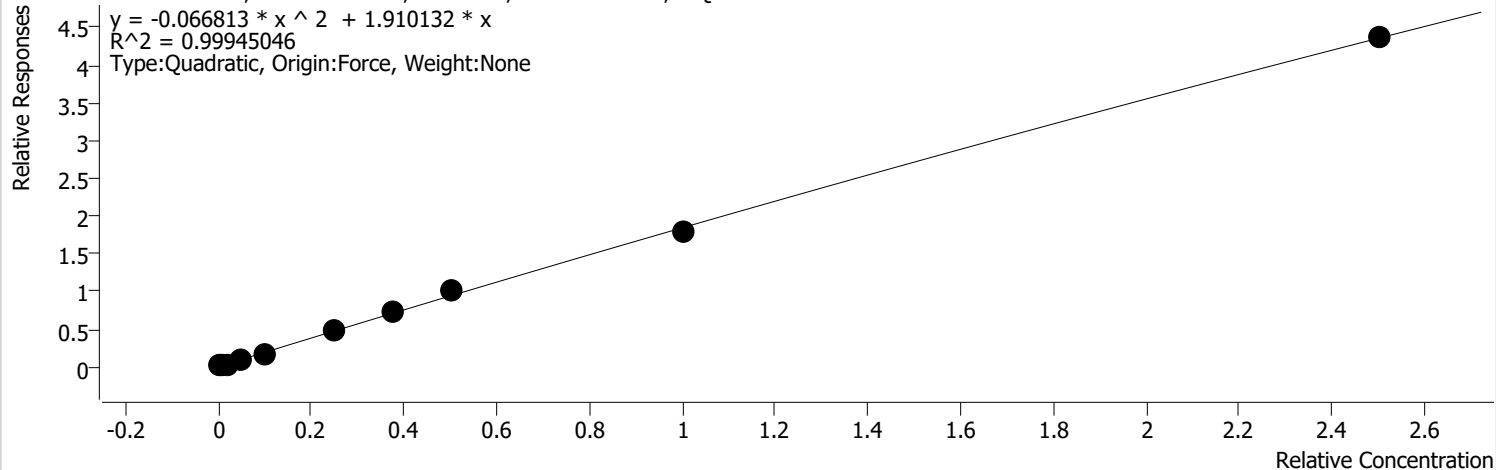
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\072623\072610.D	Calibration	1	x	1481	10.0000	1.3188	
C:\GC-14\Data\2023\072623\072611.D	Calibration	2	x	2910	20.0000	1.2987	
C:\GC-14\Data\2023\072623\072612.D	Calibration	3	x	5641	40.0000	1.2845	
C:\GC-14\Data\2023\072623\072613.D	Calibration	4	x	13875	100.0000	1.2407	
C:\GC-14\Data\2023\072623\072614.D	Calibration	5	x	28474	200.0000	1.2355	
C:\GC-14\Data\2023\072623\072615.D	Calibration	6	x	84760	500.0000	1.3386	
C:\GC-14\Data\2023\072623\072616.D	Calibration	7	x	133162	750.0000	1.3545	
C:\GC-14\Data\2023\072623\072617.D	Calibration	8	x	181981	1000.0000	1.3745	
C:\GC-14\Data\2023\072623\072618.D	Calibration	9	x	366524	2000.0000	1.2223	
C:\GC-14\Data\2023\072623\072619.D	Calibration	10	x	942512	5000.0000	1.2111	

Calibration Report

Batch Path	C:\GC-14\Data\2023\072623\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	7/27/2023 9:49 AM	Reporter Name	FA\GC14
Report Time	7/27/2023 9:52:00 AM	Batch State	Processed
Last Calib Update	7/27/2023 9:48 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Dibenzofuran %RSE = 5.5

Dibenzofuran - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



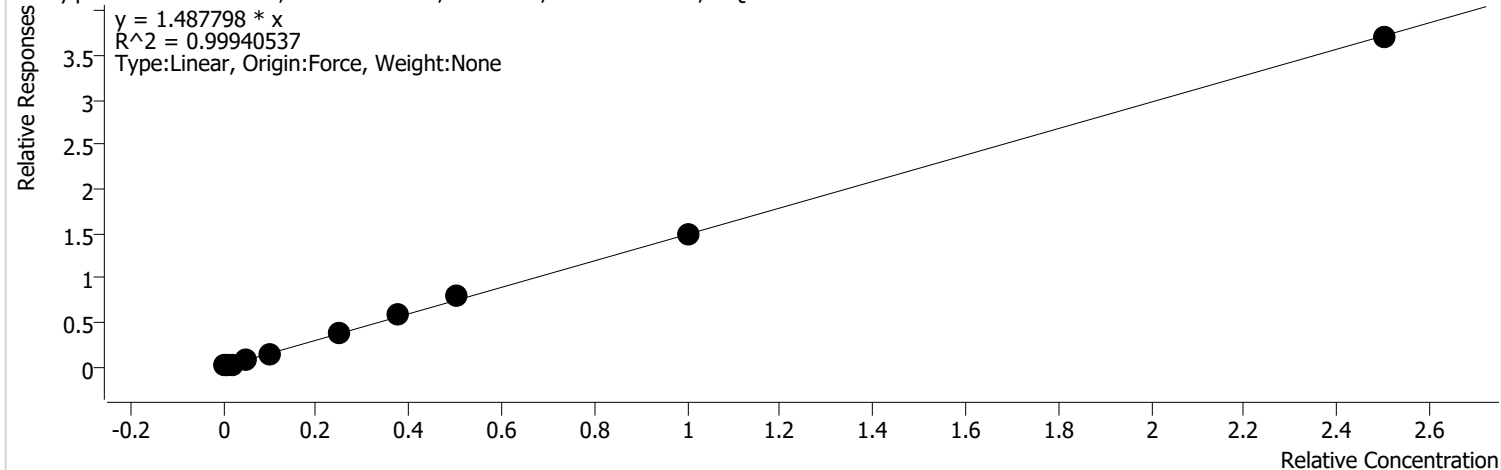
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\072623\072610.D	Calibration	1	x	2049	10.0000	1.8242	
C:\GC-14\Data\2023\072623\072611.D	Calibration	2	x	4094	20.0000	1.8270	
C:\GC-14\Data\2023\072623\072612.D	Calibration	3	x	8036	40.0000	1.8298	
C:\GC-14\Data\2023\072623\072613.D	Calibration	4	x	20037	100.0000	1.7917	
C:\GC-14\Data\2023\072623\072614.D	Calibration	5	x	41386	200.0000	1.7958	
C:\GC-14\Data\2023\072623\072615.D	Calibration	6	x	123739	500.0000	1.9541	
C:\GC-14\Data\2023\072623\072616.D	Calibration	7	x	194232	750.0000	1.9757	
C:\GC-14\Data\2023\072623\072617.D	Calibration	8	x	264479	1000.0000	1.9976	
C:\GC-14\Data\2023\072623\072618.D	Calibration	9	x	534230	2000.0000	1.7815	
C:\GC-14\Data\2023\072623\072619.D	Calibration	10	x	1358629	5000.0000	1.7457	

Calibration Report

Batch Path	C:\GC-14\Data\2023\072623\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	7/27/2023 9:49 AM	Reporter Name	FA\GC14
Report Time	7/27/2023 9:52:00 AM	Batch State	Processed
Last Calib Update	7/27/2023 9:48 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Diethylphthalate %RSE = 7.6

Diethylphthalate - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



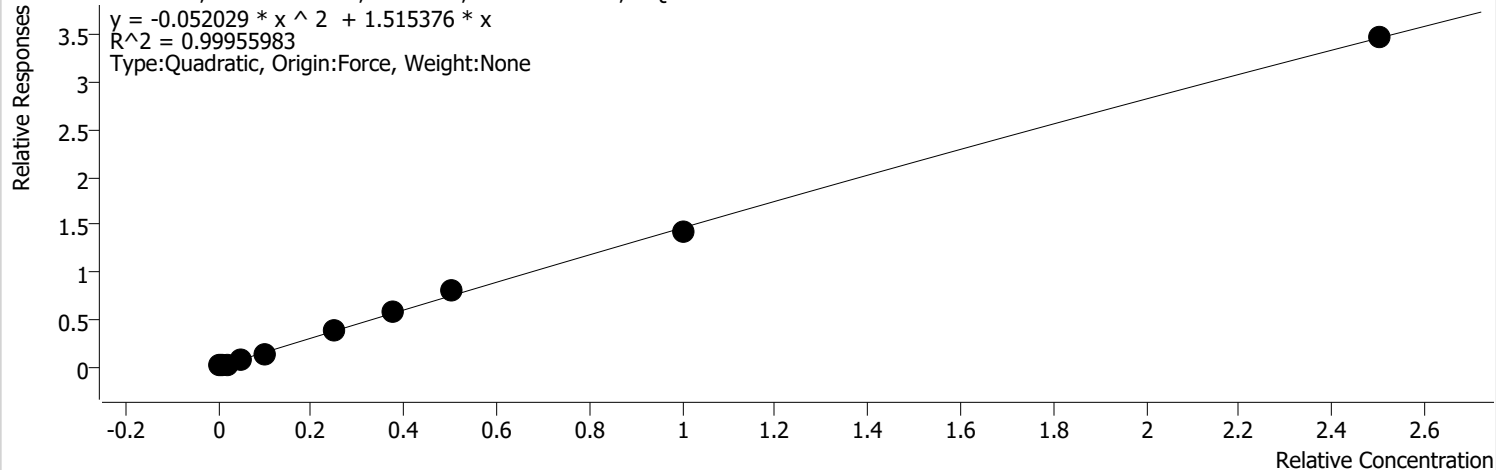
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\072623\072610.D	Calibration	1	x	1659	10.0000	1.4773	
C:\GC-14\Data\2023\072623\072611.D	Calibration	2	x	3140	20.0000	1.4016	
C:\GC-14\Data\2023\072623\072612.D	Calibration	3	x	5896	40.0000	1.3425	
C:\GC-14\Data\2023\072623\072613.D	Calibration	4	x	14933	100.0000	1.3352	
C:\GC-14\Data\2023\072623\072614.D	Calibration	5	x	31007	200.0000	1.3454	
C:\GC-14\Data\2023\072623\072615.D	Calibration	6	x	96713	500.0000	1.5273	
C:\GC-14\Data\2023\072623\072616.D	Calibration	7	x	155556	750.0000	1.5823	
C:\GC-14\Data\2023\072623\072617.D	Calibration	8	x	215687	1000.0000	1.6291	
C:\GC-14\Data\2023\072623\072618.D	Calibration	9	x	446986	2000.0000	1.4906	
C:\GC-14\Data\2023\072623\072619.D	Calibration	10	x	1151416	5000.0000	1.4795	

Calibration Report

Batch Path	C:\GC-14\Data\2023\072623\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	7/27/2023 9:49 AM	Reporter Name	FA\GC14
Report Time	7/27/2023 9:52:00 AM	Batch State	Processed
Last Calib Update	7/27/2023 9:48 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Fluorene %RSE = 8.4

Fluorene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



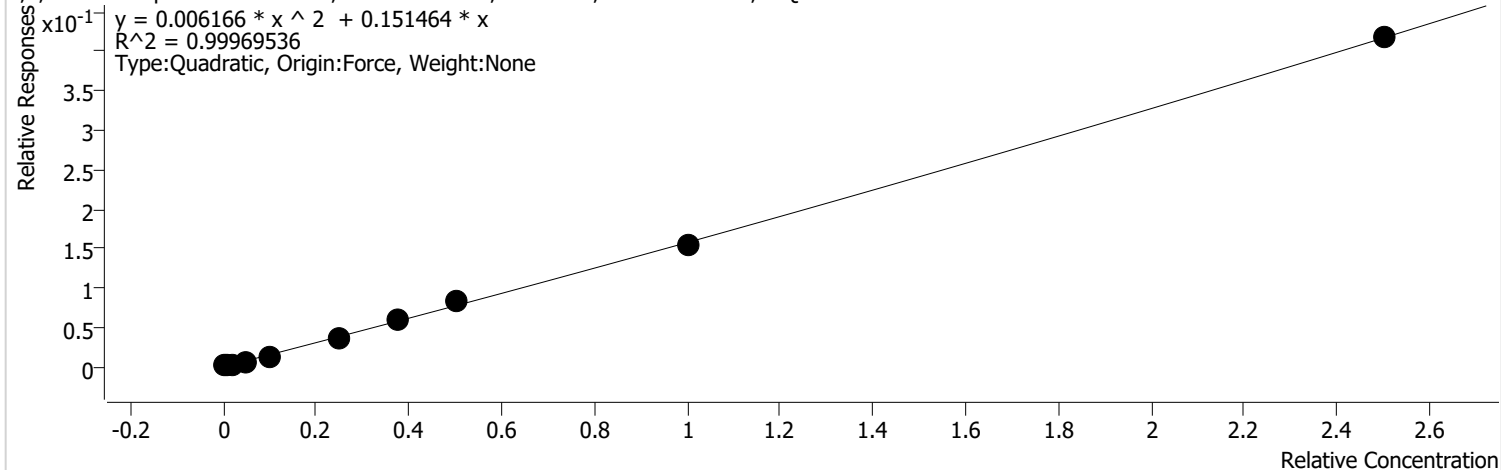
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\072623\072610.D	Calibration	1	x	1562	10.0000	1.3910	
C:\GC-14\Data\2023\072623\072611.D	Calibration	2	x	3108	20.0000	1.3871	
C:\GC-14\Data\2023\072623\072612.D	Calibration	3	x	5999	40.0000	1.3660	
C:\GC-14\Data\2023\072623\072613.D	Calibration	4	x	15144	100.0000	1.3541	
C:\GC-14\Data\2023\072623\072614.D	Calibration	5	x	31524	200.0000	1.3678	
C:\GC-14\Data\2023\072623\072615.D	Calibration	6	x	95513	500.0000	1.5084	
C:\GC-14\Data\2023\072623\072616.D	Calibration	7	x	152579	750.0000	1.5520	
C:\GC-14\Data\2023\072623\072617.D	Calibration	8	x	209706	1000.0000	1.5839	
C:\GC-14\Data\2023\072623\072618.D	Calibration	9	x	426753	2000.0000	1.4231	
C:\GC-14\Data\2023\072623\072619.D	Calibration	10	x	1079395	5000.0000	1.3869	

Calibration Report

Batch Path	C:\GC-14\Data\2023\072623\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	7/27/2023 9:49 AM	Reporter Name	FA\GC14
Report Time	7/27/2023 9:52:00 AM	Batch State	Processed
Last Calib Update	7/27/2023 9:48 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

2,4,6-Tribromophenol %RSE =

2,4,6-Tribromophenol - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



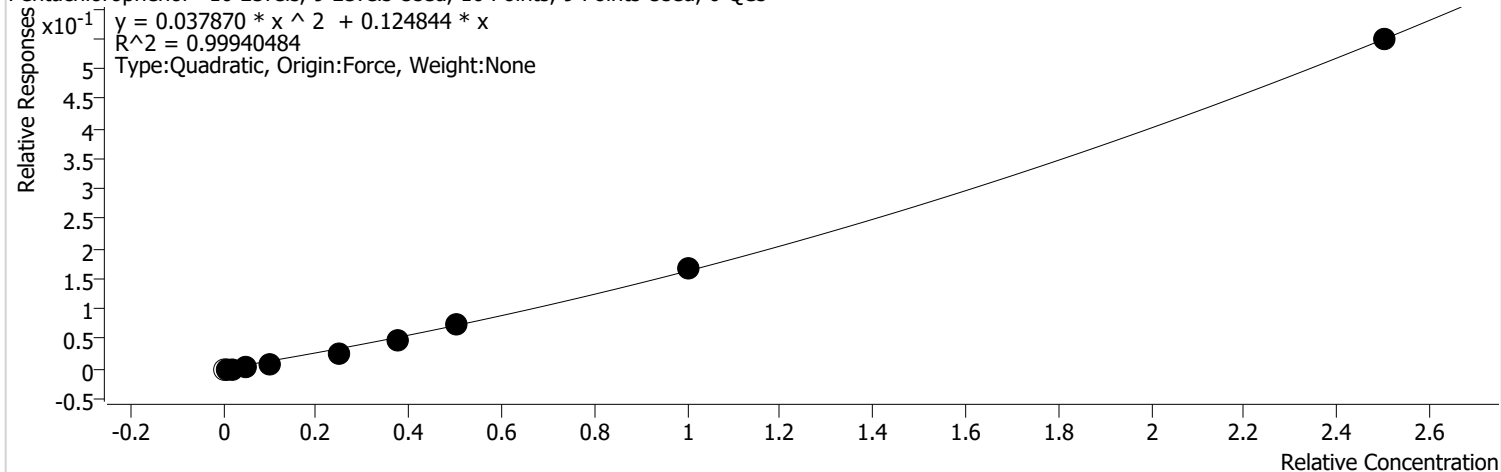
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\072623\072610.D	Calibration	1	x	150	10.0000	0.1332	
C:\GC-14\Data\2023\072623\072611.D	Calibration	2	x	272	20.0000	0.1212	
C:\GC-14\Data\2023\072623\072612.D	Calibration	3	x	520	40.0000	0.1185	
C:\GC-14\Data\2023\072623\072613.D	Calibration	4	x	1336	100.0000	0.1194	
C:\GC-14\Data\2023\072623\072614.D	Calibration	5	x	2837	200.0000	0.1231	
C:\GC-14\Data\2023\072623\072615.D	Calibration	6	x	9313	500.0000	0.1471	
C:\GC-14\Data\2023\072623\072616.D	Calibration	7	x	15479	750.0000	0.1575	
C:\GC-14\Data\2023\072623\072617.D	Calibration	8	x	21722	1000.0000	0.1641	
C:\GC-14\Data\2023\072623\072618.D	Calibration	9	x	46451	2000.0000	0.1549	
C:\GC-14\Data\2023\072623\072619.D	Calibration	10	x	129949	5000.0000	0.1670	

Calibration Report

Batch Path	C:\GC-14\Data\2023\072623\QuantResults\PAH ICAL.batch.bin		
Analysis Time	7/27/2023 9:49 AM	Analyst Name	FA\GC14
Report Time	7/27/2023 9:52:00 AM	Reporter Name	FA\GC14
Last Calib Update	7/27/2023 9:48 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Pentachlorophenol %RSE = 55.0

Pentachlorophenol - 10 Levels, 9 Levels Used, 10 Points, 9 Points Used, 0 QCs

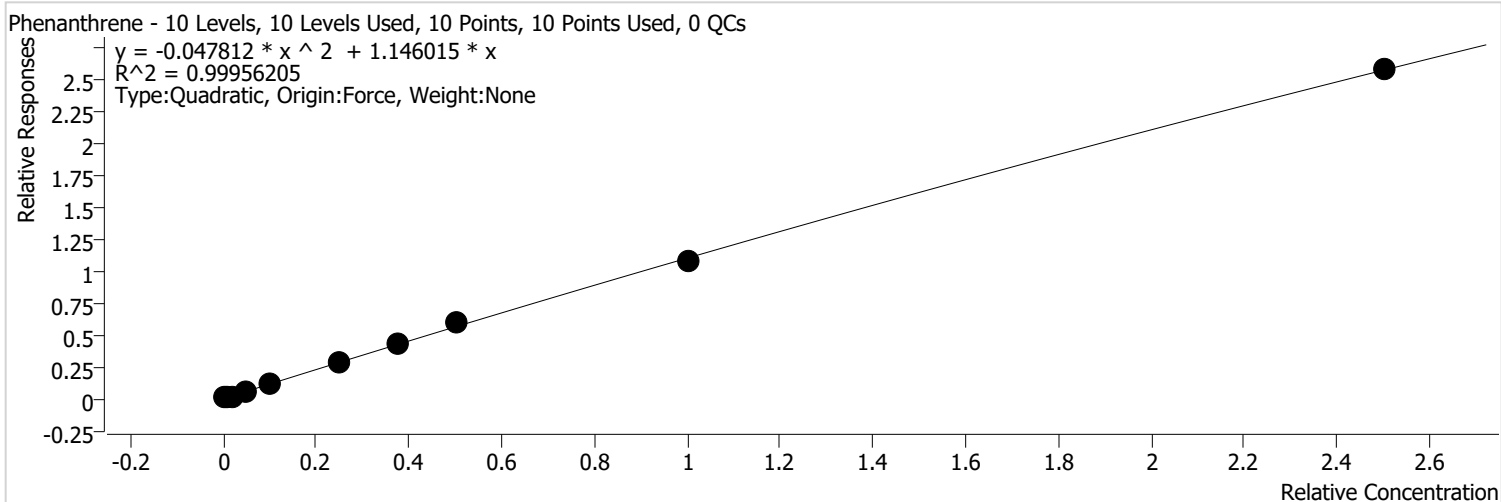


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\072623\072610.D	Calibration	1		51	10.0000	0.0453	
C:\GC-14\Data\2023\072623\072611.D	Calibration	2	x	74	20.0000	0.0331	
C:\GC-14\Data\2023\072623\072612.D	Calibration	3	x	147	40.0000	0.0334	
C:\GC-14\Data\2023\072623\072613.D	Calibration	4	x	514	100.0000	0.0460	
C:\GC-14\Data\2023\072623\072614.D	Calibration	5	x	1334	200.0000	0.0579	
C:\GC-14\Data\2023\072623\072615.D	Calibration	6	x	6718	500.0000	0.1061	
C:\GC-14\Data\2023\072623\072616.D	Calibration	7	x	12970	750.0000	0.1319	
C:\GC-14\Data\2023\072623\072617.D	Calibration	8	x	19571	1000.0000	0.1478	
C:\GC-14\Data\2023\072623\072618.D	Calibration	9	x	50069	2000.0000	0.1670	
C:\GC-14\Data\2023\072623\072619.D	Calibration	10	x	170651	5000.0000	0.2193	

Calibration Report

Batch Path	C:\GC-14\Data\2023\072623\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	7/27/2023 9:49 AM	Reporter Name	FA\GC14
Report Time	7/27/2023 9:52:00 AM	Batch State	Processed
Last Calib Update	7/27/2023 9:48 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Phenanthrene %RSE = 5.3



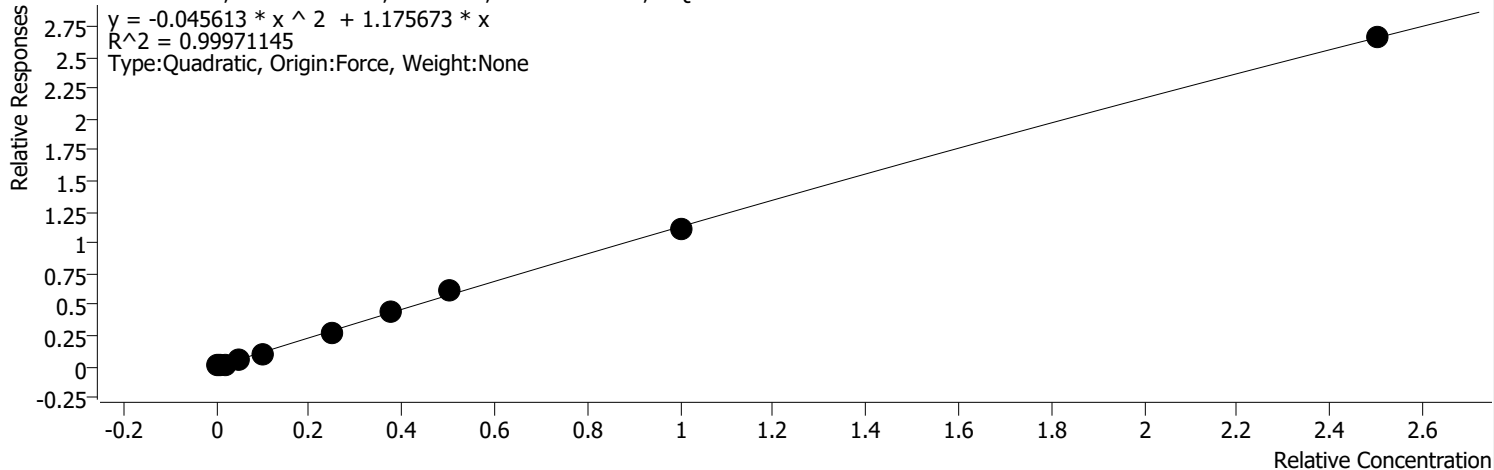
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\072623\072610.D	Calibration	1	x	2753	10.0000	1.1661	
C:\GC-14\Data\2023\072623\072611.D	Calibration	2	x	5201	20.0000	1.1007	
C:\GC-14\Data\2023\072623\072612.D	Calibration	3	x	9943	40.0000	1.0794	
C:\GC-14\Data\2023\072623\072613.D	Calibration	4	x	24589	100.0000	1.0599	
C:\GC-14\Data\2023\072623\072614.D	Calibration	5	x	51361	200.0000	1.0803	
C:\GC-14\Data\2023\072623\072615.D	Calibration	6	x	147203	500.0000	1.1523	
C:\GC-14\Data\2023\072623\072616.D	Calibration	7	x	231058	750.0000	1.1731	
C:\GC-14\Data\2023\072623\072617.D	Calibration	8	x	310224	1000.0000	1.1893	
C:\GC-14\Data\2023\072623\072618.D	Calibration	9	x	620628	2000.0000	1.0665	
C:\GC-14\Data\2023\072623\072619.D	Calibration	10	x	1590673	5000.0000	1.0278	

Calibration Report

Batch Path	C:\GC-14\Data\2023\072623\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	7/27/2023 9:49 AM	Reporter Name	FA\GC14
Report Time	7/27/2023 9:52:00 AM	Batch State	Processed
Last Calib Update	7/27/2023 9:48 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Anthracene %RSE = 14.5

Anthracene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs

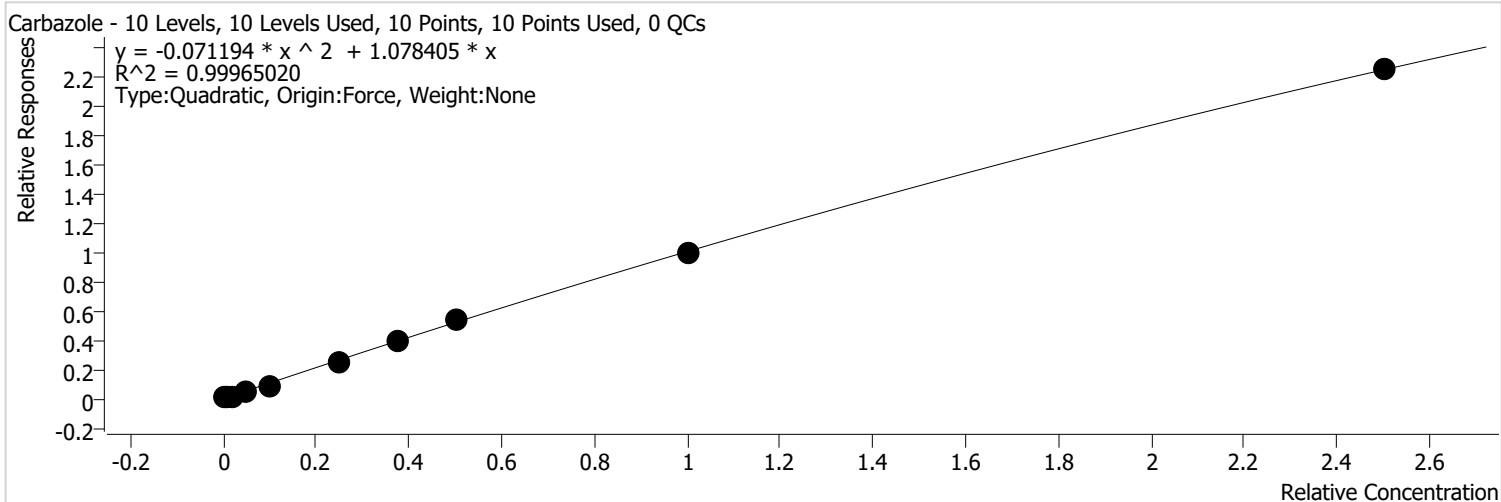


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\072623\072610.D	Calibration	1	x	2419	10.0000	1.0244	
C:\GC-14\Data\2023\072623\072611.D	Calibration	2	x	4570	20.0000	0.9672	
C:\GC-14\Data\2023\072623\072612.D	Calibration	3	x	8849	40.0000	0.9606	
C:\GC-14\Data\2023\072623\072613.D	Calibration	4	x	22183	100.0000	0.9562	
C:\GC-14\Data\2023\072623\072614.D	Calibration	5	x	46590	200.0000	0.9800	
C:\GC-14\Data\2023\072623\072615.D	Calibration	6	x	143423	500.0000	1.1227	
C:\GC-14\Data\2023\072623\072616.D	Calibration	7	x	230299	750.0000	1.1692	
C:\GC-14\Data\2023\072623\072617.D	Calibration	8	x	316680	1000.0000	1.2141	
C:\GC-14\Data\2023\072623\072618.D	Calibration	9	x	649182	2000.0000	1.1156	
C:\GC-14\Data\2023\072623\072619.D	Calibration	10	x	1643740	5000.0000	1.0621	

Calibration Report

Batch Path	C:\GC-14\Data\2023\072623\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	7/27/2023 9:49 AM	Reporter Name	FA\GC14
Report Time	7/27/2023 9:52:00 AM	Batch State	Processed
Last Calib Update	7/27/2023 9:48 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Carbazole %RSE = 18.8



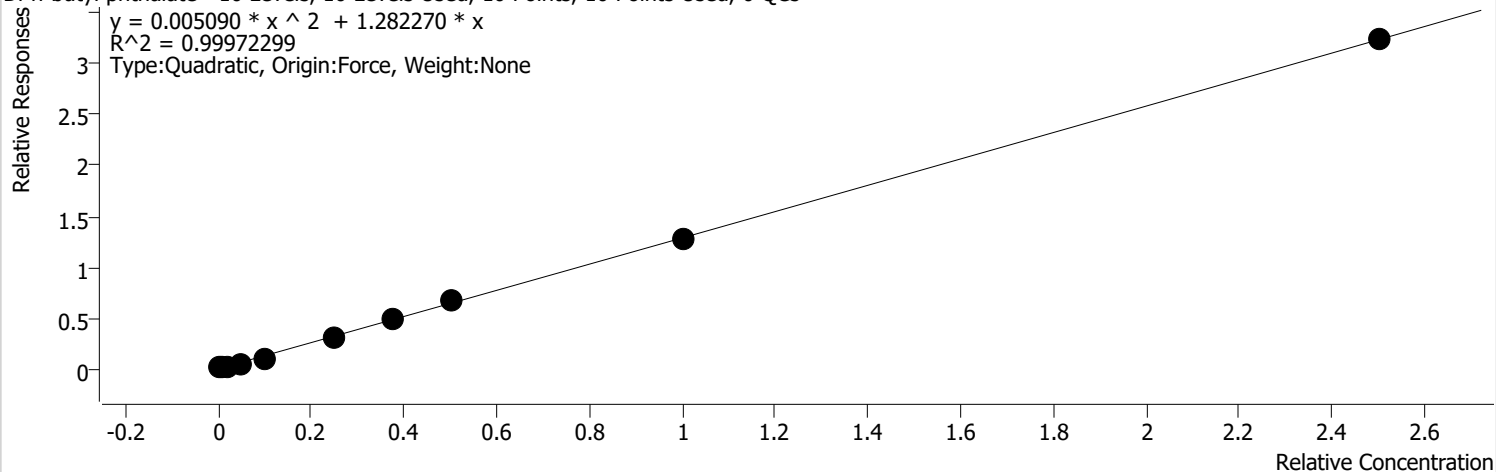
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\072623\072610.D	Calibration	1	x	2049	10.0000	0.8678	
C:\GC-14\Data\2023\072623\072611.D	Calibration	2	x	3914	20.0000	0.8284	
C:\GC-14\Data\2023\072623\072612.D	Calibration	3	x	7530	40.0000	0.8174	
C:\GC-14\Data\2023\072623\072613.D	Calibration	4	x	19233	100.0000	0.8291	
C:\GC-14\Data\2023\072623\072614.D	Calibration	5	x	40810	200.0000	0.8584	
C:\GC-14\Data\2023\072623\072615.D	Calibration	6	x	127449	500.0000	0.9977	
C:\GC-14\Data\2023\072623\072616.D	Calibration	7	x	208281	750.0000	1.0574	
C:\GC-14\Data\2023\072623\072617.D	Calibration	8	x	285036	1000.0000	1.0927	
C:\GC-14\Data\2023\072623\072618.D	Calibration	9	x	581905	2000.0000	1.0000	
C:\GC-14\Data\2023\072623\072619.D	Calibration	10	x	1393710	5000.0000	0.9005	

Calibration Report

Batch Path	C:\GC-14\Data\2023\072623\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	7/27/2023 9:49 AM	Reporter Name	FA\GC14
Report Time	7/27/2023 9:52:00 AM	Batch State	Processed
Last Calib Update	7/27/2023 9:48 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Di-n-butyl phthalate %RSE = 19.0

Di-n-butyl phthalate - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



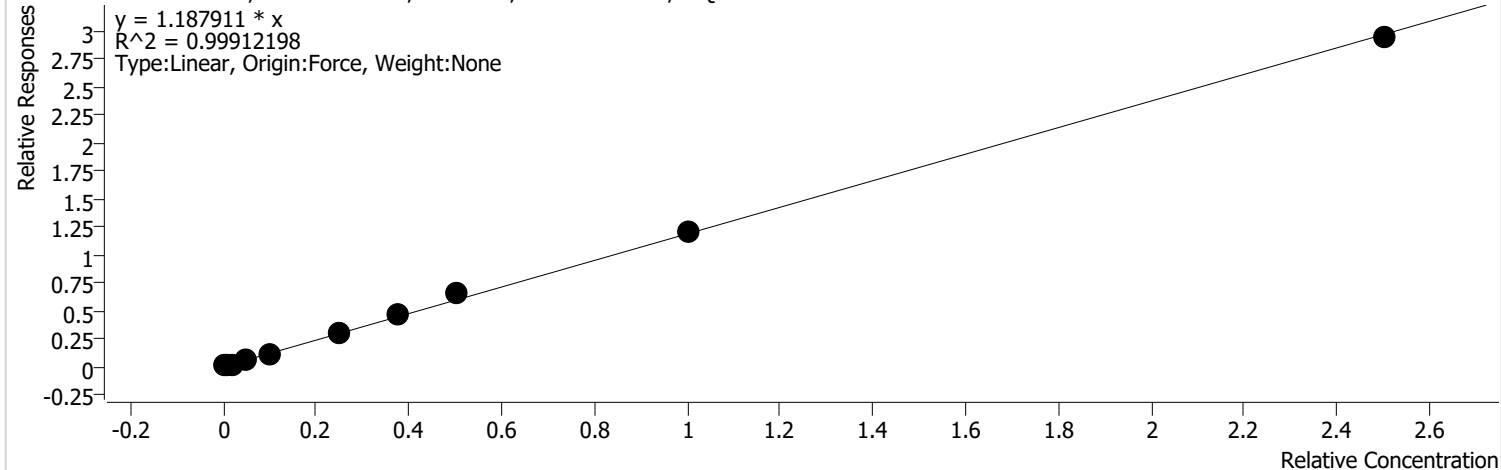
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\072623\072610.D	Calibration	1	x	2575	10.0000	1.0906	
C:\GC-14\Data\2023\072623\072611.D	Calibration	2	x	4709	20.0000	0.9966	
C:\GC-14\Data\2023\072623\072612.D	Calibration	3	x	8977	40.0000	0.9745	
C:\GC-14\Data\2023\072623\072613.D	Calibration	4	x	22199	100.0000	0.9569	
C:\GC-14\Data\2023\072623\072614.D	Calibration	5	x	47333	200.0000	0.9956	
C:\GC-14\Data\2023\072623\072615.D	Calibration	6	x	151820	500.0000	1.1884	
C:\GC-14\Data\2023\072623\072616.D	Calibration	7	x	252674	750.0000	1.2828	
C:\GC-14\Data\2023\072623\072617.D	Calibration	8	x	350000	1000.0000	1.3418	
C:\GC-14\Data\2023\072623\072618.D	Calibration	9	x	747045	2000.0000	1.2837	
C:\GC-14\Data\2023\072623\072619.D	Calibration	10	x	2004016	5000.0000	1.2949	

Calibration Report

Batch Path	C:\GC-14\Data\2023\072623\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	7/27/2023 9:49 AM	Reporter Name	FA\GC14
Report Time	7/27/2023 9:52:00 AM	Batch State	Processed
Last Calib Update	7/27/2023 9:48 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Fluoranthene %RSE = 9.9

Fluoranthene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs

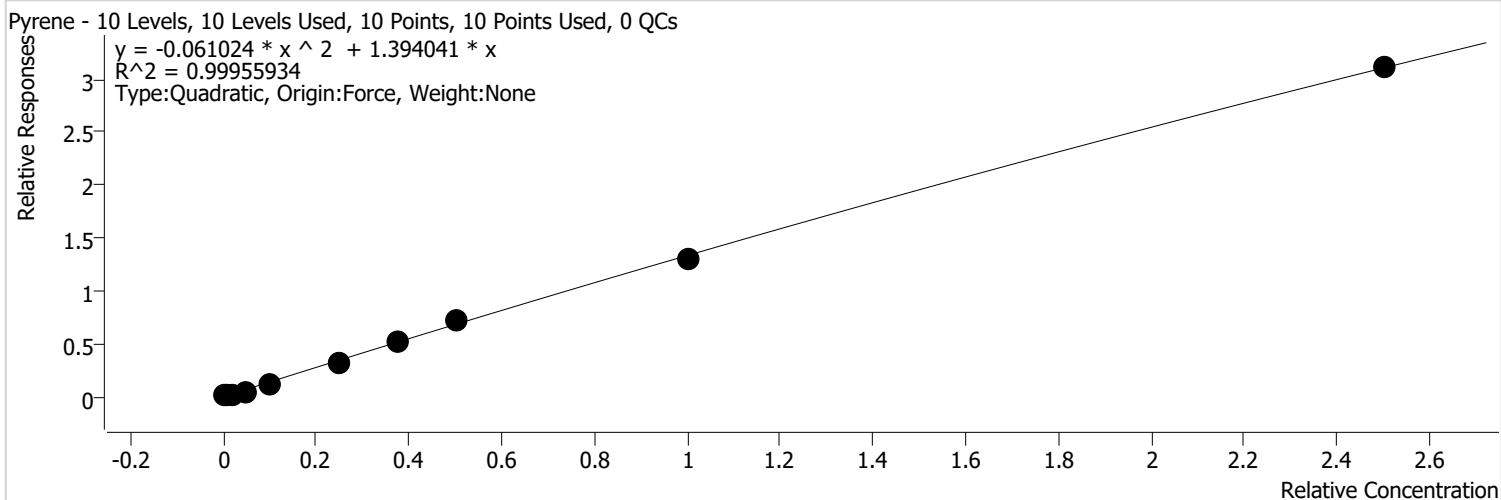


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\072623\072610.D	Calibration	1	x	2608	10.0000	1.1044	
C:\GC-14\Data\2023\072623\072611.D	Calibration	2	x	4968	20.0000	1.0515	
C:\GC-14\Data\2023\072623\072612.D	Calibration	3	x	9535	40.0000	1.0351	
C:\GC-14\Data\2023\072623\072613.D	Calibration	4	x	23975	100.0000	1.0335	
C:\GC-14\Data\2023\072623\072614.D	Calibration	5	x	50587	200.0000	1.0640	
C:\GC-14\Data\2023\072623\072615.D	Calibration	6	x	153951	500.0000	1.2051	
C:\GC-14\Data\2023\072623\072616.D	Calibration	7	x	249502	750.0000	1.2667	
C:\GC-14\Data\2023\072623\072617.D	Calibration	8	x	341699	1000.0000	1.3100	
C:\GC-14\Data\2023\072623\072618.D	Calibration	9	x	709293	2000.0000	1.2189	
C:\GC-14\Data\2023\072623\072619.D	Calibration	10	x	1820641	5000.0000	1.1764	

Calibration Report

Batch Path	C:\GC-14\Data\2023\072623\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	7/27/2023 9:49 AM	Reporter Name	FA\GC14
Report Time	7/27/2023 9:52:00 AM	Batch State	Processed
Last Calib Update	7/27/2023 9:48 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Pyrene %RSE = 17.0



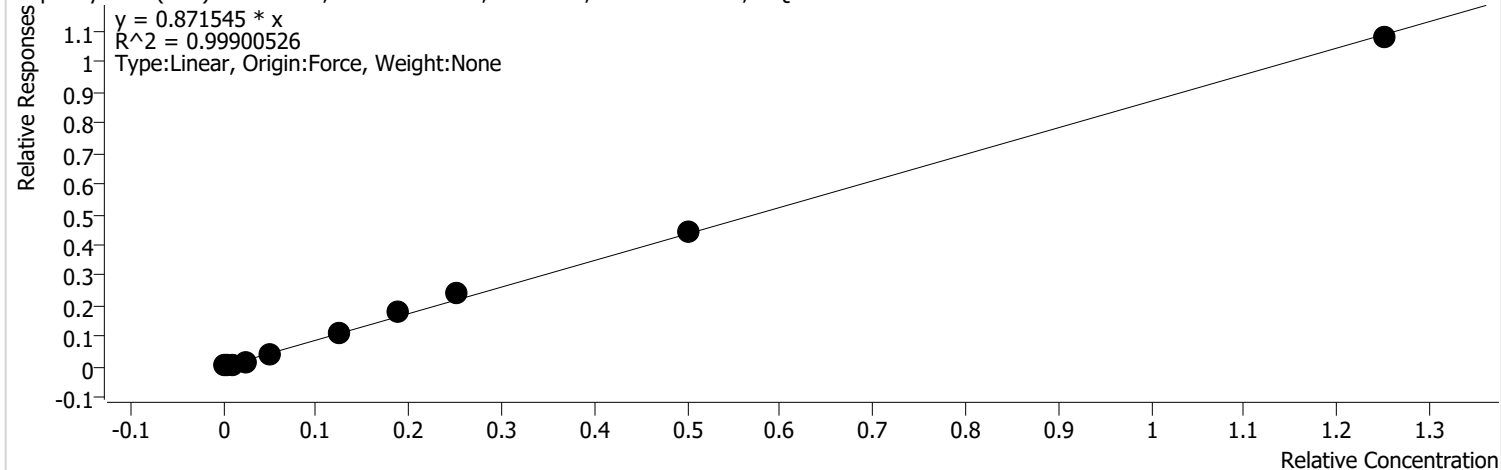
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\072623\072610.D	Calibration	1	x	2780	10.0000	1.1773	
C:\GC-14\Data\2023\072623\072611.D	Calibration	2	x	5285	20.0000	1.1184	
C:\GC-14\Data\2023\072623\072612.D	Calibration	3	x	10024	40.0000	1.0881	
C:\GC-14\Data\2023\072623\072613.D	Calibration	4	x	25276	100.0000	1.0895	
C:\GC-14\Data\2023\072623\072614.D	Calibration	5	x	53290	200.0000	1.1209	
C:\GC-14\Data\2023\072623\072615.D	Calibration	6	x	166202	500.0000	1.3010	
C:\GC-14\Data\2023\072623\072616.D	Calibration	7	x	275151	750.0000	1.3969	
C:\GC-14\Data\2023\072623\072617.D	Calibration	8	x	378019	1000.0000	1.4492	
C:\GC-14\Data\2023\072623\072618.D	Calibration	9	x	763710	2000.0000	1.3124	
C:\GC-14\Data\2023\072623\072619.D	Calibration	10	x	1922358	5000.0000	1.2421	

Calibration Report

Batch Path	C:\GC-14\Data\2023\072623\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	7/27/2023 9:49 AM	Reporter Name	FA\GC14
Report Time	7/27/2023 9:52:00 AM	Batch State	Processed
Last Calib Update	7/27/2023 9:48 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Terphenyl-d14 (surr) %RSE =

Terphenyl-d14 (surr) - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



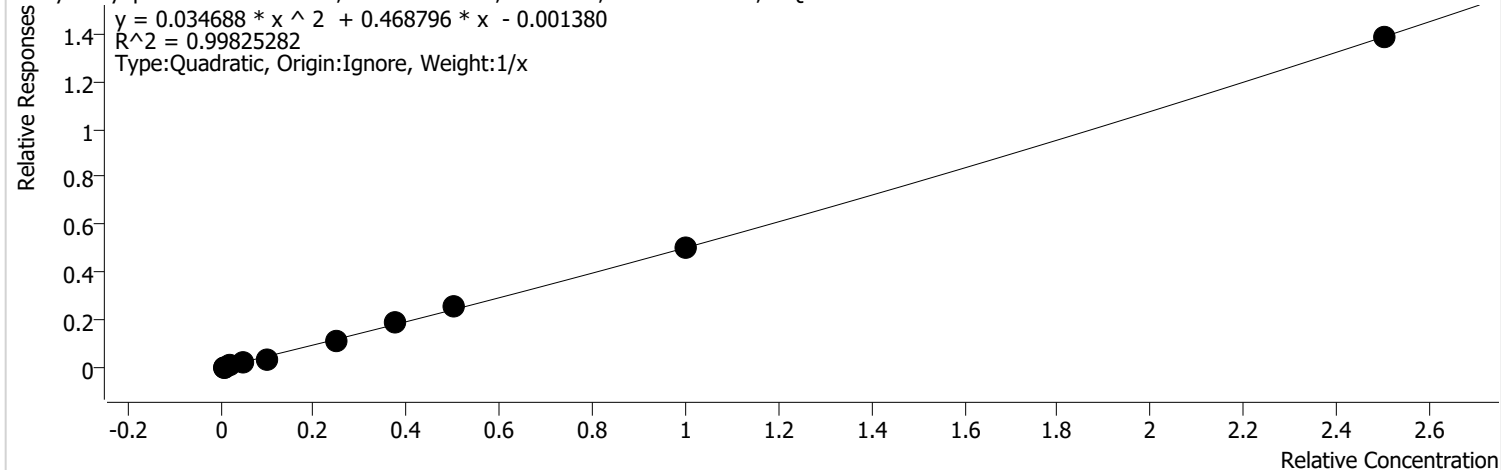
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\072623\072610.D	Calibration	1	x	918	5.0000	0.7776	
C:\GC-14\Data\2023\072623\072611.D	Calibration	2	x	1768	10.0000	0.7483	
C:\GC-14\Data\2023\072623\072612.D	Calibration	3	x	3409	20.0000	0.7400	
C:\GC-14\Data\2023\072623\072613.D	Calibration	4	x	8551	50.0000	0.7372	
C:\GC-14\Data\2023\072623\072614.D	Calibration	5	x	18007	100.0000	0.7575	
C:\GC-14\Data\2023\072623\072615.D	Calibration	6	x	56488	250.0000	0.8844	
C:\GC-14\Data\2023\072623\072616.D	Calibration	7	x	93294	375.0000	0.9473	
C:\GC-14\Data\2023\072623\072617.D	Calibration	8	x	126545	500.0000	0.9703	
C:\GC-14\Data\2023\072623\072618.D	Calibration	9	x	257856	1000.0000	0.8862	
C:\GC-14\Data\2023\072623\072619.D	Calibration	10	x	668317	2500.0000	0.8637	

Calibration Report

Batch Path	C:\GC-14\Data\2023\072623\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	7/27/2023 9:49 AM	Reporter Name	FA\GC14
Report Time	7/27/2023 9:52:00 AM	Batch State	Processed
Last Calib Update	7/27/2023 9:48 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Benzyl Butyl phthalate %RSE = 19.0

Benzyl Butyl phthalate - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



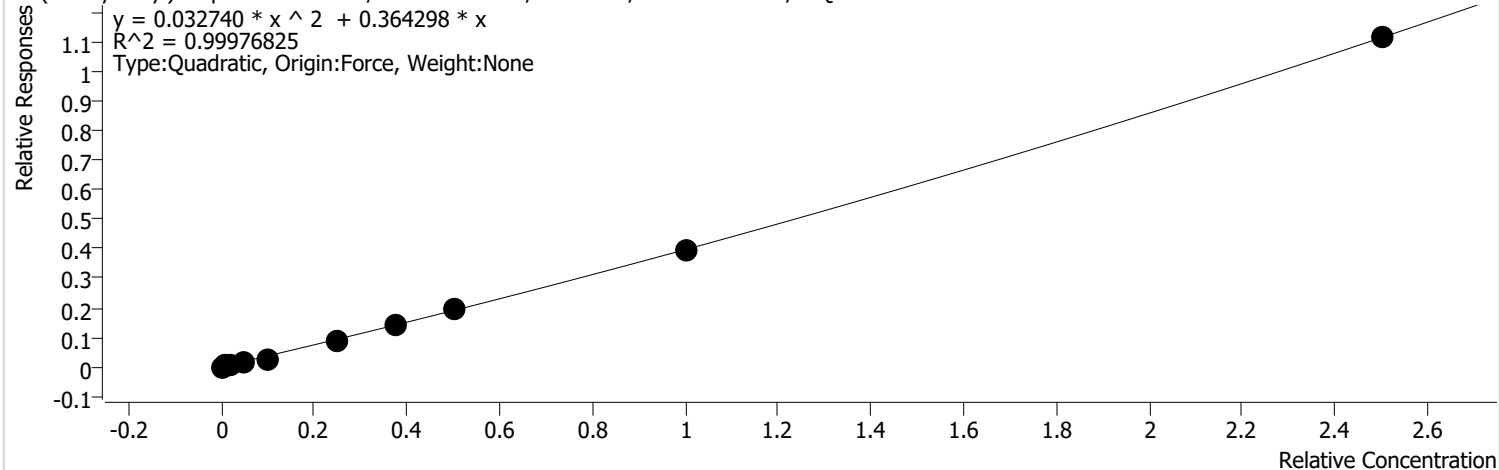
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\072623\072610.D	Calibration	1	x	888	10.0000	0.3759	
C:\GC-14\Data\2023\072623\072611.D	Calibration	2	x	1710	20.0000	0.3619	
C:\GC-14\Data\2023\072623\072612.D	Calibration	3	x	3200	40.0000	0.3473	
C:\GC-14\Data\2023\072623\072613.D	Calibration	4	x	8073	100.0000	0.3480	
C:\GC-14\Data\2023\072623\072614.D	Calibration	5	x	17496	200.0000	0.3680	
C:\GC-14\Data\2023\072623\072615.D	Calibration	6	x	57631	500.0000	0.4511	
C:\GC-14\Data\2023\072623\072616.D	Calibration	7	x	96861	750.0000	0.4918	
C:\GC-14\Data\2023\072623\072617.D	Calibration	8	x	134608	1000.0000	0.5160	
C:\GC-14\Data\2023\072623\072618.D	Calibration	9	x	292620	2000.0000	0.5028	
C:\GC-14\Data\2023\072623\072619.D	Calibration	10	x	856807	5000.0000	0.5536	

Calibration Report

Batch Path	C:\GC-14\Data\2023\072623\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	7/27/2023 9:49 AM	Reporter Name	FA\GC14
Report Time	7/27/2023 9:52:00 AM	Batch State	Processed
Last Calib Update	7/27/2023 9:48 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

bis (2-Ethylhexyl) adipate %RSE = 22.9

bis (2-Ethylhexyl) adipate - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



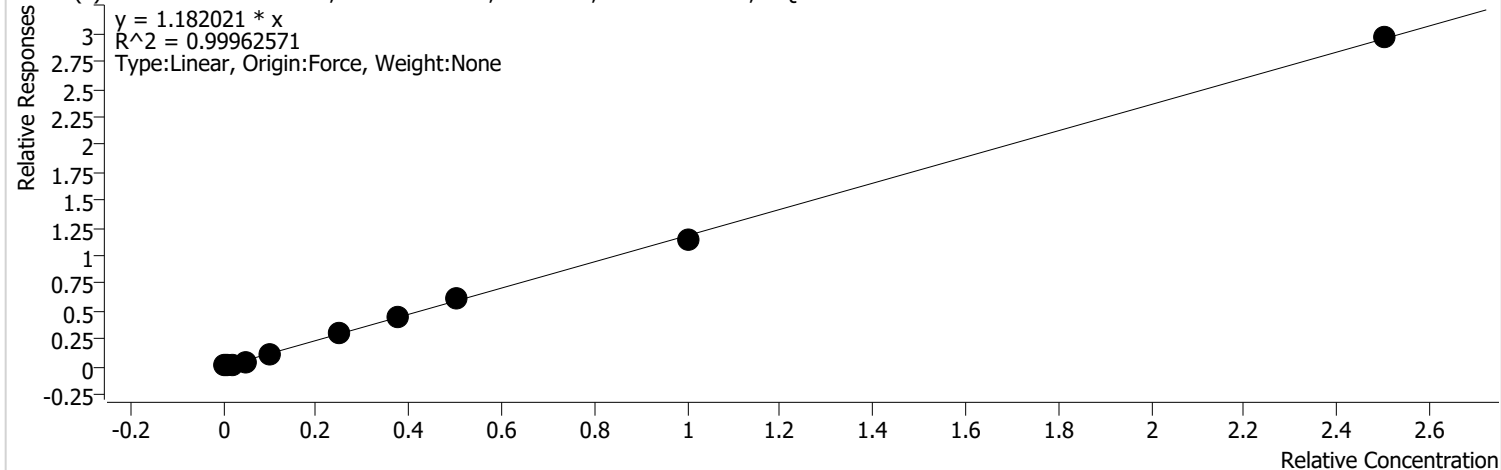
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\072623\072610.D	Calibration	1	x	709	10.0000	0.3001	
C:\GC-14\Data\2023\072623\072611.D	Calibration	2	x	1238	20.0000	0.2619	
C:\GC-14\Data\2023\072623\072612.D	Calibration	3	x	2375	40.0000	0.2578	
C:\GC-14\Data\2023\072623\072613.D	Calibration	4	x	5886	100.0000	0.2537	
C:\GC-14\Data\2023\072623\072614.D	Calibration	5	x	12829	200.0000	0.2698	
C:\GC-14\Data\2023\072623\072615.D	Calibration	6	x	43547	500.0000	0.3409	
C:\GC-14\Data\2023\072623\072616.D	Calibration	7	x	73973	750.0000	0.3756	
C:\GC-14\Data\2023\072623\072617.D	Calibration	8	x	103109	1000.0000	0.3953	
C:\GC-14\Data\2023\072623\072618.D	Calibration	9	x	231284	2000.0000	0.3974	
C:\GC-14\Data\2023\072623\072619.D	Calibration	10	x	690317	5000.0000	0.4460	

Calibration Report

Batch Path	C:\GC-14\Data\2023\072623\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	7/27/2023 9:49 AM	Reporter Name	FA\GC14
Report Time	7/27/2023 9:52:00 AM	Batch State	Processed
Last Calib Update	7/27/2023 9:48 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Benzo (a) anthracene %RSE = 15.3

Benzo (a) anthracene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs

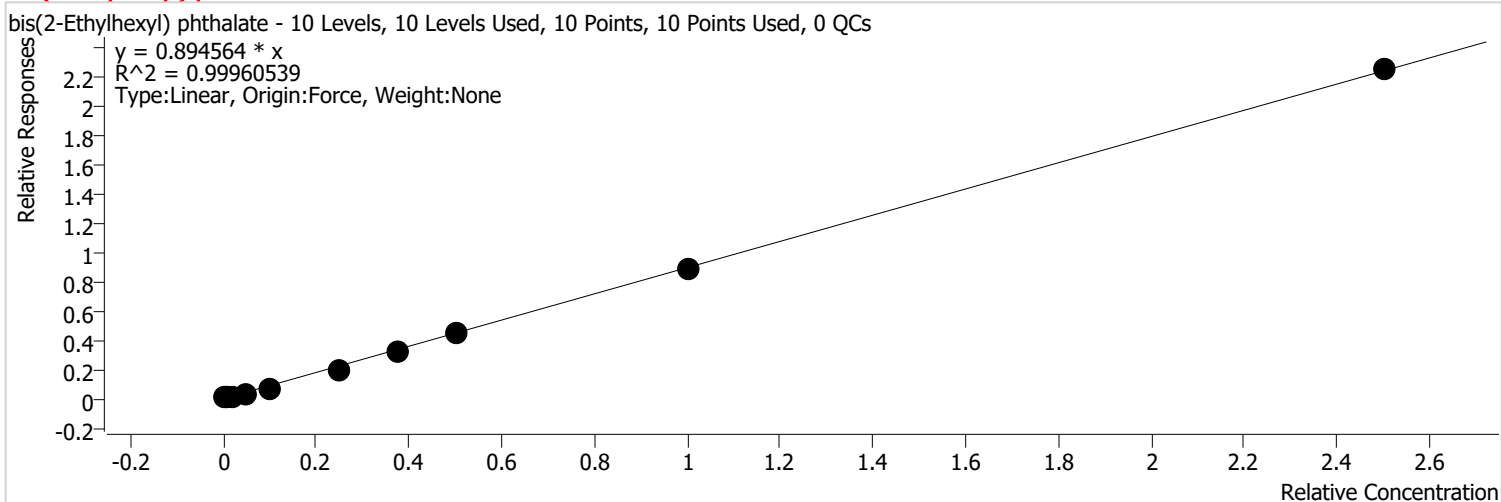


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\072623\072610.D	Calibration	1	x	3866	10.0000	1.6372	
C:\GC-14\Data\2023\072623\072611.D	Calibration	2	x	6046	20.0000	1.2796	
C:\GC-14\Data\2023\072623\072612.D	Calibration	3	x	10277	40.0000	1.1156	
C:\GC-14\Data\2023\072623\072613.D	Calibration	4	x	24044	100.0000	1.0364	
C:\GC-14\Data\2023\072623\072614.D	Calibration	5	x	50331	200.0000	1.0586	
C:\GC-14\Data\2023\072623\072615.D	Calibration	6	x	150677	500.0000	1.1795	
C:\GC-14\Data\2023\072623\072616.D	Calibration	7	x	239764	750.0000	1.2173	
C:\GC-14\Data\2023\072623\072617.D	Calibration	8	x	321236	1000.0000	1.2315	
C:\GC-14\Data\2023\072623\072618.D	Calibration	9	x	663701	2000.0000	1.1405	
C:\GC-14\Data\2023\072623\072619.D	Calibration	10	x	1835756	5000.0000	1.1862	

Calibration Report

Batch Path	C:\GC-14\Data\2023\072623\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	7/27/2023 9:49 AM	Reporter Name	FA\GC14
Report Time	7/27/2023 9:52:00 AM	Batch State	Processed
Last Calib Update	7/27/2023 9:48 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

bis(2-Ethylhexyl) phthalate %RSE = 21.7



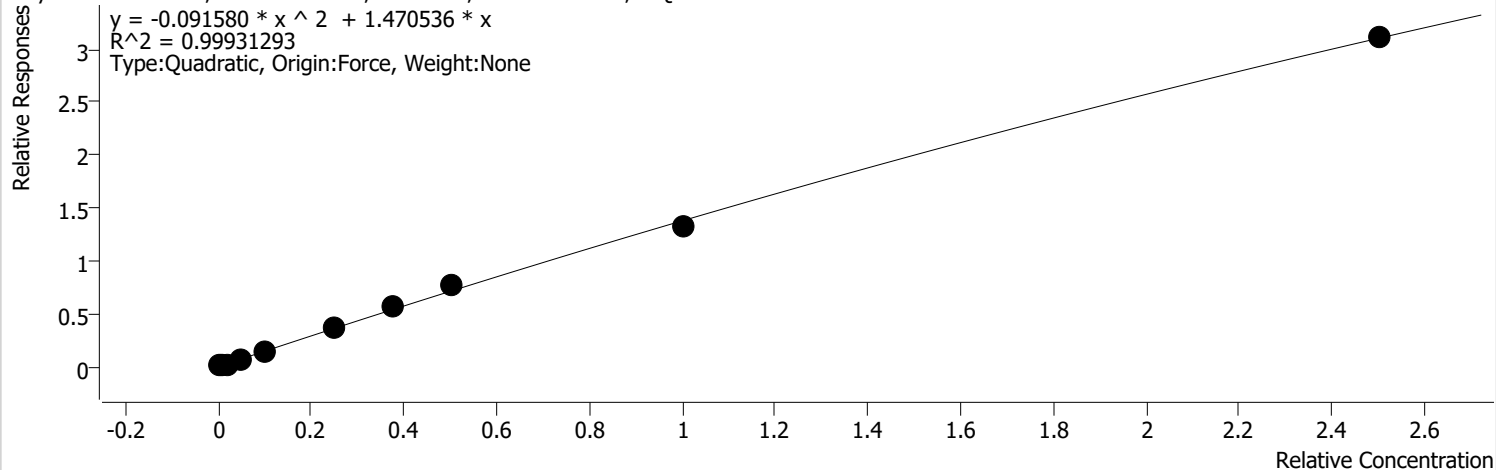
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\072623\072610.D	Calibration	1	x	1496	10.0000	0.7370	
C:\GC-14\Data\2023\072623\072611.D	Calibration	2	x	2678	20.0000	0.6574	
C:\GC-14\Data\2023\072623\072612.D	Calibration	3	x	4931	40.0000	0.6249	
C:\GC-14\Data\2023\072623\072613.D	Calibration	4	x	12445	100.0000	0.6167	
C:\GC-14\Data\2023\072623\072614.D	Calibration	5	x	27199	200.0000	0.6433	
C:\GC-14\Data\2023\072623\072615.D	Calibration	6	x	93745	500.0000	0.8104	
C:\GC-14\Data\2023\072623\072616.D	Calibration	7	x	158084	750.0000	0.8776	
C:\GC-14\Data\2023\072623\072617.D	Calibration	8	x	220310	1000.0000	0.9159	
C:\GC-14\Data\2023\072623\072618.D	Calibration	9	x	491809	2000.0000	0.8801	
C:\GC-14\Data\2023\072623\072619.D	Calibration	10	x	1353015	5000.0000	0.8978	

Calibration Report

Batch Path	C:\GC-14\Data\2023\072623\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	7/27/2023 9:49 AM	Reporter Name	FA\GC14
Report Time	7/27/2023 9:52:00 AM	Batch State	Processed
Last Calib Update	7/27/2023 9:48 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Chrysene %RSE = 7.5

Chrysene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs

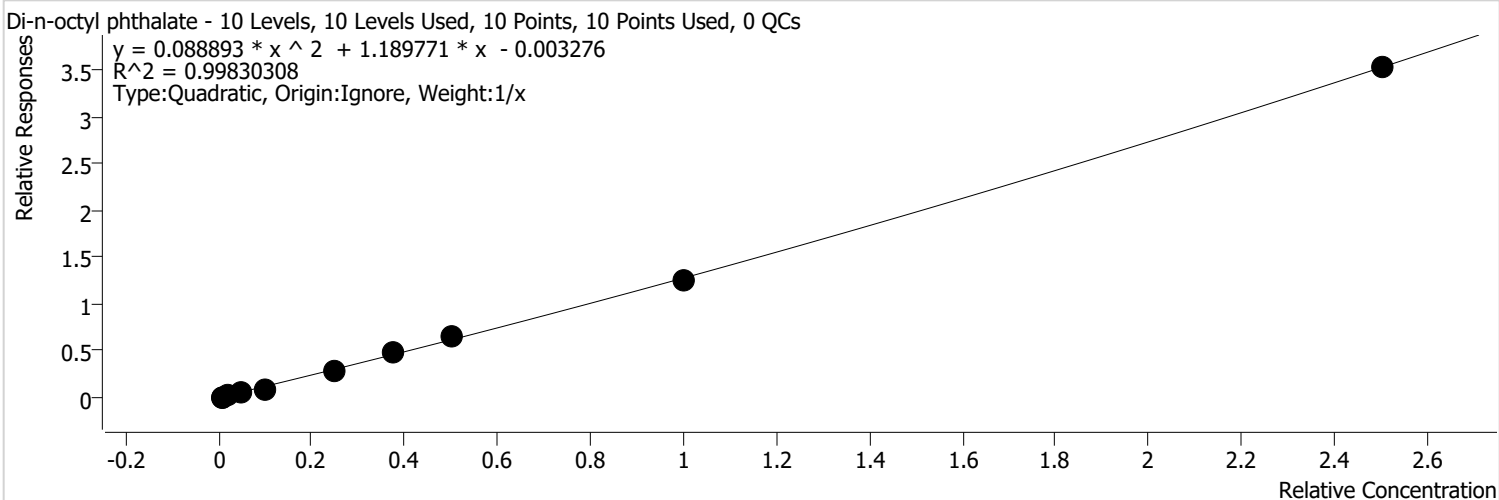


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\072623\072610.D	Calibration	1	x	2920	10.0000	1.4382	
C:\GC-14\Data\2023\072623\072611.D	Calibration	2	x	5642	20.0000	1.3849	
C:\GC-14\Data\2023\072623\072612.D	Calibration	3	x	10499	40.0000	1.3305	
C:\GC-14\Data\2023\072623\072613.D	Calibration	4	x	26745	100.0000	1.3254	
C:\GC-14\Data\2023\072623\072614.D	Calibration	5	x	56532	200.0000	1.3370	
C:\GC-14\Data\2023\072623\072615.D	Calibration	6	x	169533	500.0000	1.4656	
C:\GC-14\Data\2023\072623\072616.D	Calibration	7	x	272894	750.0000	1.5149	
C:\GC-14\Data\2023\072623\072617.D	Calibration	8	x	366308	1000.0000	1.5229	
C:\GC-14\Data\2023\072623\072618.D	Calibration	9	x	744061	2000.0000	1.3315	
C:\GC-14\Data\2023\072623\072619.D	Calibration	10	x	1874131	5000.0000	1.2436	

Calibration Report

Batch Path	C:\GC-14\Data\2023\072623\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	7/27/2023 9:49 AM	Reporter Name	FA\GC14
Report Time	7/27/2023 9:52:00 AM	Batch State	Processed
Last Calib Update	7/27/2023 9:48 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Di-n-octyl phthalate %RSE = 18.0



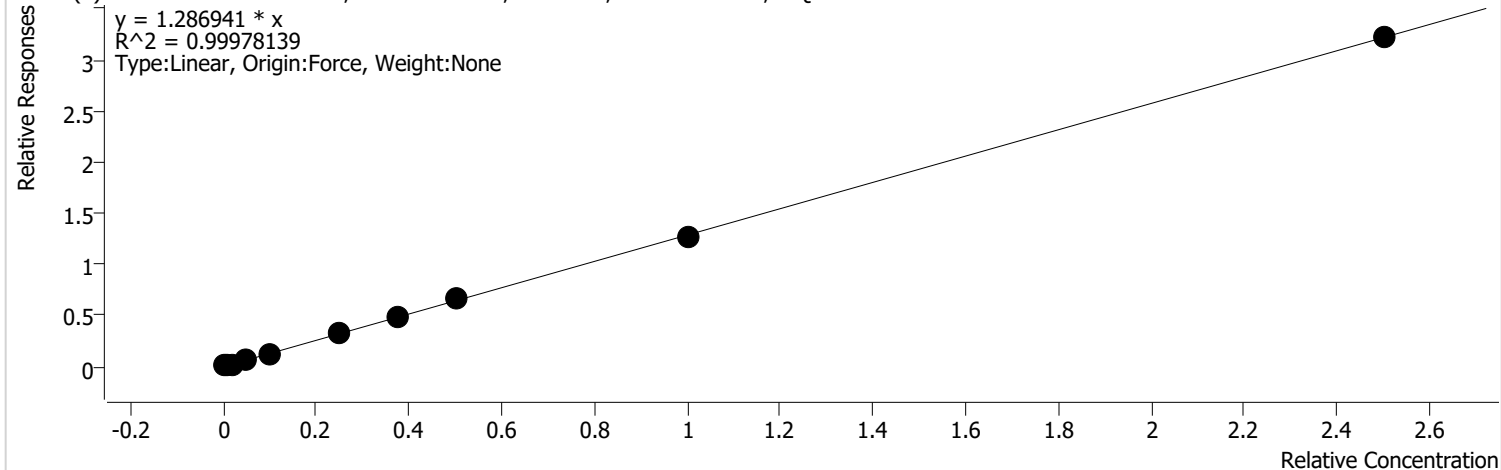
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\072623\072610.D	Calibration	1	x	1982	10.0000	0.9764	
C:\GC-14\Data\2023\072623\072611.D	Calibration	2	x	3712	20.0000	0.9112	
C:\GC-14\Data\2023\072623\072612.D	Calibration	3	x	7163	40.0000	0.9078	
C:\GC-14\Data\2023\072623\072613.D	Calibration	4	x	18265	100.0000	0.9051	
C:\GC-14\Data\2023\072623\072614.D	Calibration	5	x	39684	200.0000	0.9385	
C:\GC-14\Data\2023\072623\072615.D	Calibration	6	x	134629	500.0000	1.1638	
C:\GC-14\Data\2023\072623\072616.D	Calibration	7	x	227134	750.0000	1.2609	
C:\GC-14\Data\2023\072623\072617.D	Calibration	8	x	315791	1000.0000	1.3129	
C:\GC-14\Data\2023\072623\072618.D	Calibration	9	x	704712	2000.0000	1.2611	
C:\GC-14\Data\2023\072623\072619.D	Calibration	10	x	2123956	5000.0000	1.4093	

Calibration Report

Batch Path	C:\GC-14\Data\2023\072623\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	7/27/2023 9:49 AM	Reporter Name	FA\GC14
Report Time	7/27/2023 9:52:00 AM	Batch State	Processed
Last Calib Update	7/27/2023 9:48 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

benzo (b) fluoranthene %RSE = 6.7

benzo (b) fluoranthene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



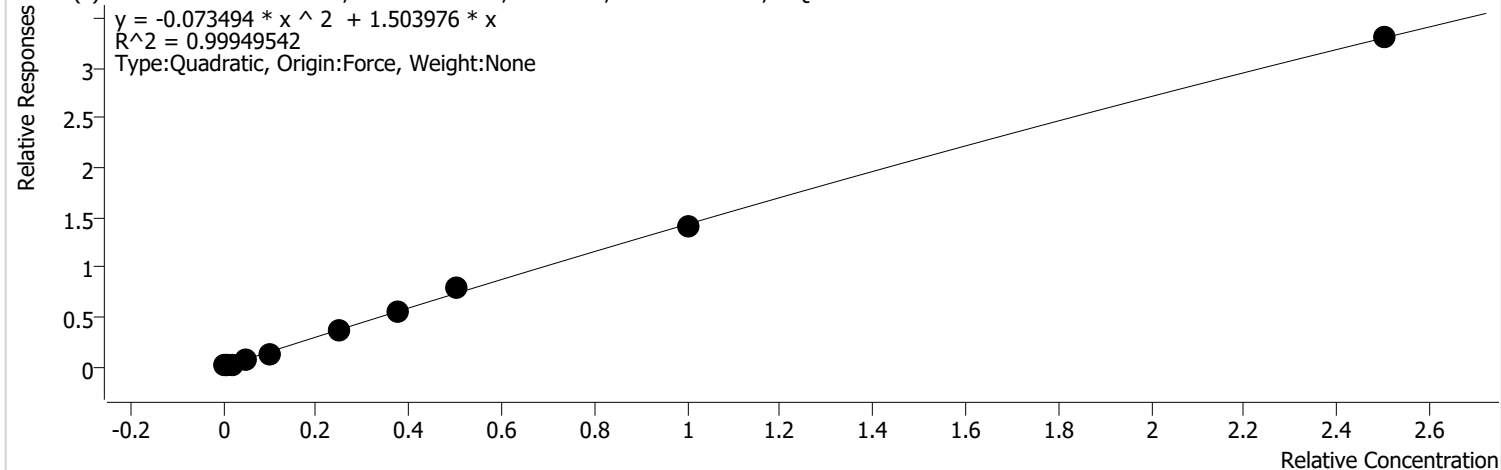
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\072623\072610.D	Calibration	1	x	2550	10.0000	1.2560	
C:\GC-14\Data\2023\072623\072611.D	Calibration	2	x	4814	20.0000	1.1817	
C:\GC-14\Data\2023\072623\072612.D	Calibration	3	x	9161	40.0000	1.1610	
C:\GC-14\Data\2023\072623\072613.D	Calibration	4	x	23554	100.0000	1.1673	
C:\GC-14\Data\2023\072623\072614.D	Calibration	5	x	50654	200.0000	1.1980	
C:\GC-14\Data\2023\072623\072615.D	Calibration	6	x	153937	500.0000	1.3308	
C:\GC-14\Data\2023\072623\072616.D	Calibration	7	x	239851	750.0000	1.3315	
C:\GC-14\Data\2023\072623\072617.D	Calibration	8	x	325261	1000.0000	1.3523	
C:\GC-14\Data\2023\072623\072618.D	Calibration	9	x	708568	2000.0000	1.2680	
C:\GC-14\Data\2023\072623\072619.D	Calibration	10	x	1938265	5000.0000	1.2861	

Calibration Report

Batch Path	C:\GC-14\Data\2023\072623\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	7/27/2023 9:49 AM	Reporter Name	FA\GC14
Report Time	7/27/2023 9:52:00 AM	Batch State	Processed
Last Calib Update	7/27/2023 9:48 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

benzo (k) fluoranthene %RSE = 13.9

benzo (k) fluoranthene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs

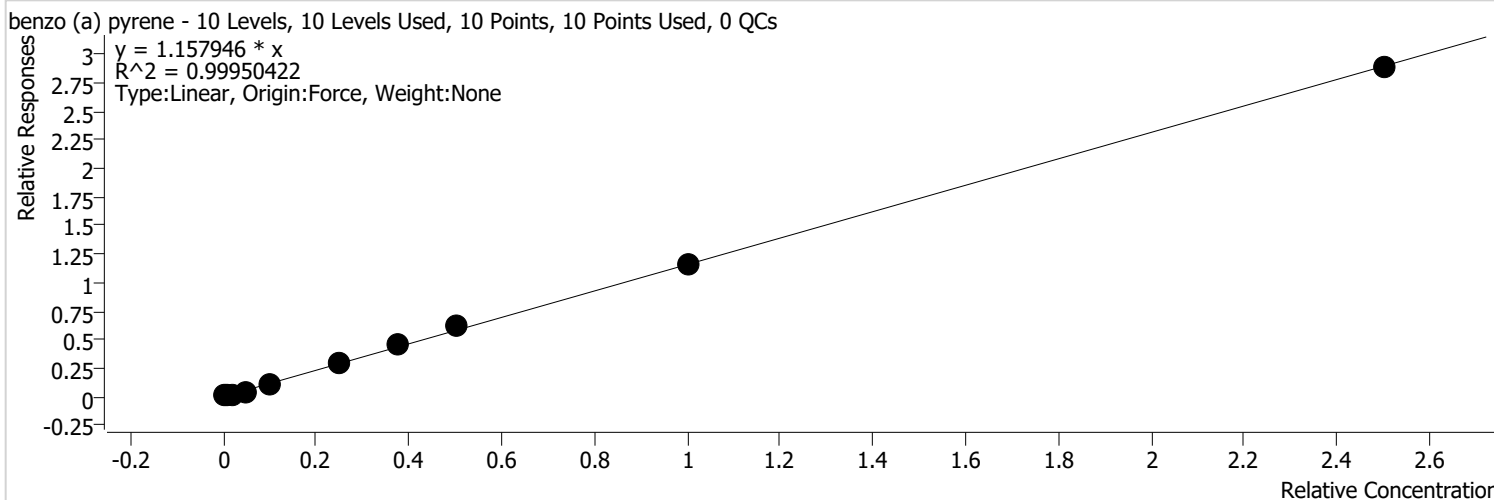


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\072623\072610.D	Calibration	1	x	2614	10.0000	1.2875	
C:\GC-14\Data\2023\072623\072611.D	Calibration	2	x	5115	20.0000	1.2555	
C:\GC-14\Data\2023\072623\072612.D	Calibration	3	x	9905	40.0000	1.2553	
C:\GC-14\Data\2023\072623\072613.D	Calibration	4	x	24959	100.0000	1.2369	
C:\GC-14\Data\2023\072623\072614.D	Calibration	5	x	53800	200.0000	1.2724	
C:\GC-14\Data\2023\072623\072615.D	Calibration	6	x	166427	500.0000	1.4387	
C:\GC-14\Data\2023\072623\072616.D	Calibration	7	x	272192	750.0000	1.5110	
C:\GC-14\Data\2023\072623\072617.D	Calibration	8	x	378069	1000.0000	1.5718	
C:\GC-14\Data\2023\072623\072618.D	Calibration	9	x	781199	2000.0000	1.3980	
C:\GC-14\Data\2023\072623\072619.D	Calibration	10	x	1991486	5000.0000	1.3214	

Calibration Report

Batch Path	C:\GC-14\Data\2023\072623\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	7/27/2023 9:49 AM	Reporter Name	FA\GC14
Report Time	7/27/2023 9:52:00 AM	Batch State	Processed
Last Calib Update	7/27/2023 9:48 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

benzo (a) pyrene %RSE = 10.4

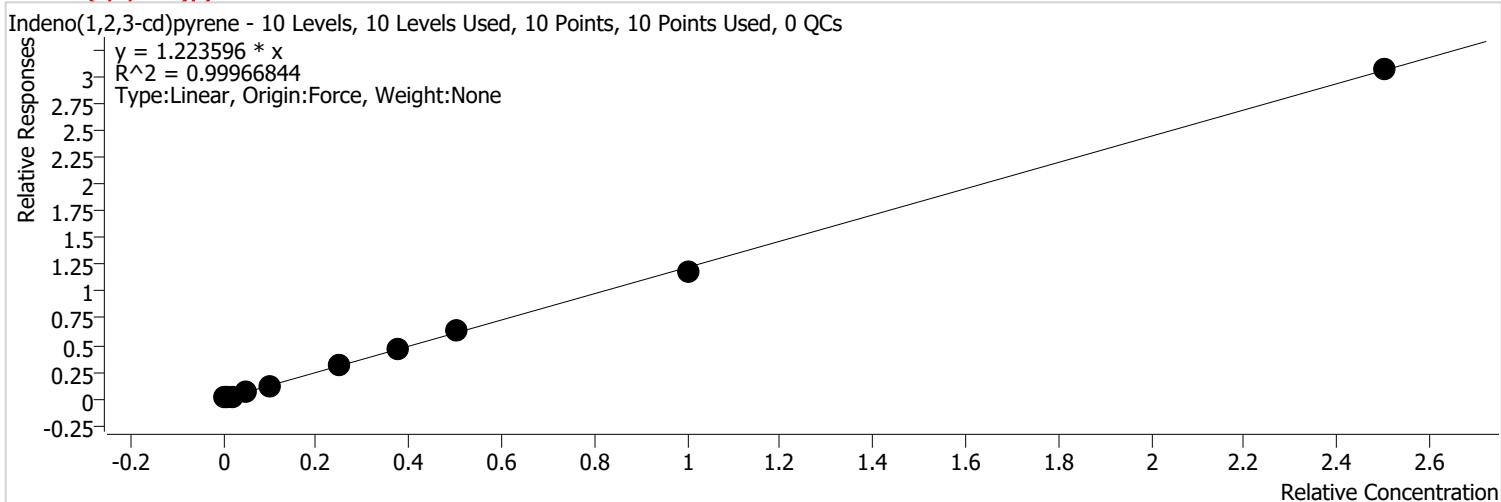


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\072623\072610.D	Calibration	1	x	2191	10.0000	1.0790	
C:\GC-14\Data\2023\072623\072611.D	Calibration	2	x	4114	20.0000	1.0098	
C:\GC-14\Data\2023\072623\072612.D	Calibration	3	x	7860	40.0000	0.9961	
C:\GC-14\Data\2023\072623\072613.D	Calibration	4	x	20042	100.0000	0.9932	
C:\GC-14\Data\2023\072623\072614.D	Calibration	5	x	43087	200.0000	1.0190	
C:\GC-14\Data\2023\072623\072615.D	Calibration	6	x	134562	500.0000	1.1633	
C:\GC-14\Data\2023\072623\072616.D	Calibration	7	x	219414	750.0000	1.2180	
C:\GC-14\Data\2023\072623\072617.D	Calibration	8	x	303118	1000.0000	1.2602	
C:\GC-14\Data\2023\072623\072618.D	Calibration	9	x	647419	2000.0000	1.1586	
C:\GC-14\Data\2023\072623\072619.D	Calibration	10	x	1737120	5000.0000	1.1526	

Calibration Report

Batch Path	C:\GC-14\Data\2023\072623\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	7/27/2023 9:49 AM	Reporter Name	FA\GC14
Report Time	7/27/2023 9:52:00 AM	Batch State	Processed
Last Calib Update	7/27/2023 9:48 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Indeno(1,2,3-cd)pyrene %RSE = 5.5



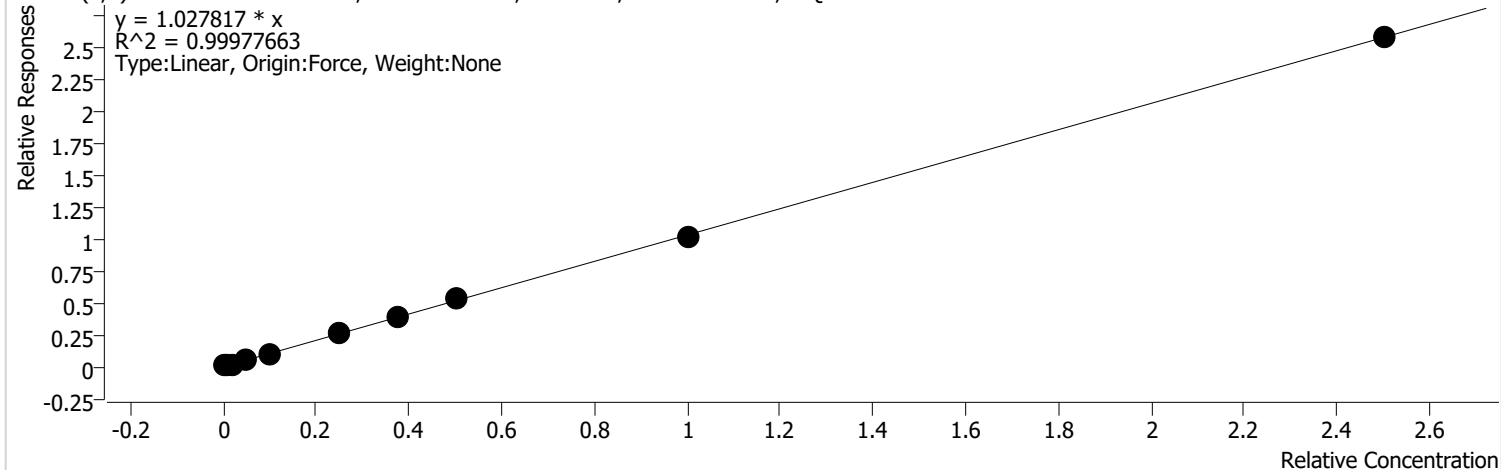
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\072623\072610.D	Calibration	1	x	3122	10.0000	1.2382	
C:\GC-14\Data\2023\072623\072611.D	Calibration	2	x	5816	20.0000	1.1501	
C:\GC-14\Data\2023\072623\072612.D	Calibration	3	x	11093	40.0000	1.1426	
C:\GC-14\Data\2023\072623\072613.D	Calibration	4	x	27827	100.0000	1.1245	
C:\GC-14\Data\2023\072623\072614.D	Calibration	5	x	59529	200.0000	1.1436	
C:\GC-14\Data\2023\072623\072615.D	Calibration	6	x	179939	500.0000	1.2574	
C:\GC-14\Data\2023\072623\072616.D	Calibration	7	x	285796	750.0000	1.2584	
C:\GC-14\Data\2023\072623\072617.D	Calibration	8	x	389719	1000.0000	1.2818	
C:\GC-14\Data\2023\072623\072618.D	Calibration	9	x	817392	2000.0000	1.1855	
C:\GC-14\Data\2023\072623\072619.D	Calibration	10	x	2184061	5000.0000	1.2264	

Calibration Report

Batch Path	C:\GC-14\Data\2023\072623\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	7/27/2023 9:49 AM	Reporter Name	FA\GC14
Report Time	7/27/2023 9:52:00 AM	Batch State	Processed
Last Calib Update	7/27/2023 9:48 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Dibenz (a,h) anthracene %RSE = 6.9

Dibenz (a,h) anthracene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



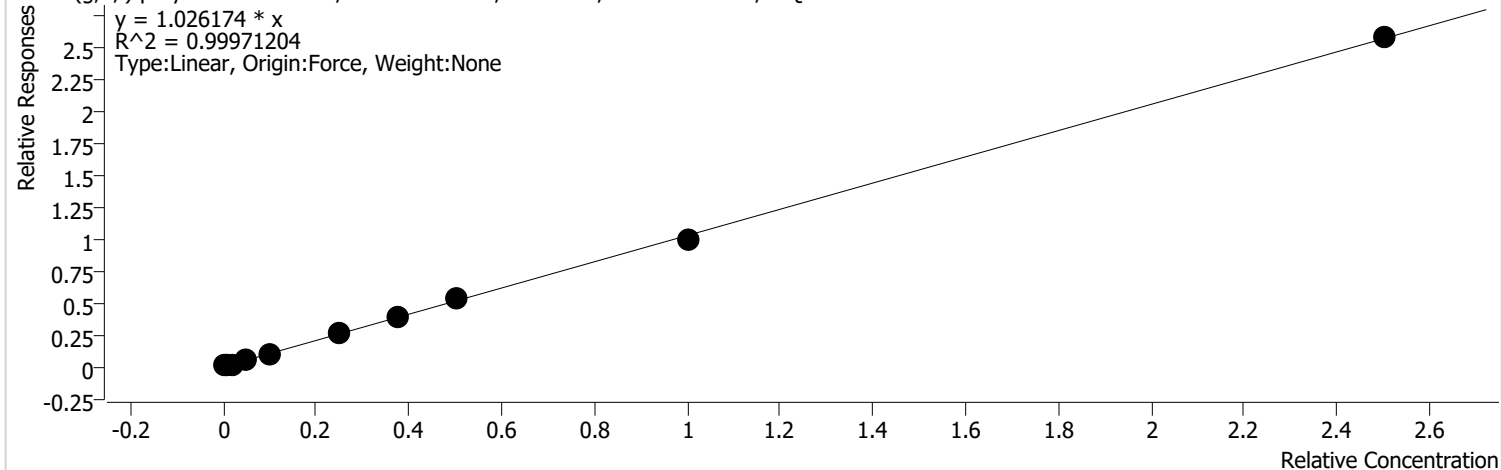
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\072623\072610.D	Calibration	1	x	2519	10.0000	0.9991	
C:\GC-14\Data\2023\072623\072611.D	Calibration	2	x	4771	20.0000	0.9434	
C:\GC-14\Data\2023\072623\072612.D	Calibration	3	x	9060	40.0000	0.9332	
C:\GC-14\Data\2023\072623\072613.D	Calibration	4	x	22827	100.0000	0.9225	
C:\GC-14\Data\2023\072623\072614.D	Calibration	5	x	48847	200.0000	0.9384	
C:\GC-14\Data\2023\072623\072615.D	Calibration	6	x	149476	500.0000	1.0445	
C:\GC-14\Data\2023\072623\072616.D	Calibration	7	x	240416	750.0000	1.0586	
C:\GC-14\Data\2023\072623\072617.D	Calibration	8	x	330150	1000.0000	1.0859	
C:\GC-14\Data\2023\072623\072618.D	Calibration	9	x	699930	2000.0000	1.0152	
C:\GC-14\Data\2023\072623\072619.D	Calibration	10	x	1828675	5000.0000	1.0269	

Calibration Report

Batch Path	C:\GC-14\Data\2023\072623\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	7/27/2023 9:49 AM	Reporter Name	FA\GC14
Report Time	7/27/2023 9:52:00 AM	Batch State	Processed
Last Calib Update	7/27/2023 9:48 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Benzo (g,h,i) perylene %RSE = 4.8

Benzo (g,h,i) perylene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\072623\072610.D	Calibration	1	x	2688	10.0000	1.0657	
C:\GC-14\Data\2023\072623\072611.D	Calibration	2	x	5007	20.0000	0.9899	
C:\GC-14\Data\2023\072623\072612.D	Calibration	3	x	9516	40.0000	0.9802	
C:\GC-14\Data\2023\072623\072613.D	Calibration	4	x	23501	100.0000	0.9497	
C:\GC-14\Data\2023\072623\072614.D	Calibration	5	x	49632	200.0000	0.9535	
C:\GC-14\Data\2023\072623\072615.D	Calibration	6	x	148912	500.0000	1.0406	
C:\GC-14\Data\2023\072623\072616.D	Calibration	7	x	236140	750.0000	1.0397	
C:\GC-14\Data\2023\072623\072617.D	Calibration	8	x	325495	1000.0000	1.0706	
C:\GC-14\Data\2023\072623\072618.D	Calibration	9	x	685886	2000.0000	0.9948	
C:\GC-14\Data\2023\072623\072619.D	Calibration	10	x	1832711	5000.0000	1.0291	

PAH Calibration

Date: 7/26/23

Analyst: SRH

MeCl2: 2971/7583

Cal	ICV
8270 Megamix: <u>28525</u>	8270 Megamix: <u>27571</u>
8270 Surrogate: <u>28415</u>	IS: <u>28261</u>

66-14
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66-21
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Spike Conc. (ppb)	BN/Acid Surr Conc. (ppb)	2° Spike (uL)	B/N Surr (uL)	Internal Standard (uL)	Remove (uL)	Final Vol. (mL)	Comments
2	2/1	0.2	--	10	10.2	1	For PAH-LL Cal Only
10	10/5	1	--	10	11	1	
20	20/10	2	--	10	12	1	
40	40/20	4	--	10	14	1	
100	100/50	10	--	10	20	1	
200	200/100	20	--	10	30	1	
500	500/250	50	--	10	60	1	
750	750/375	75	--	10	85	1	
1000	1000/500	100	--	10	110	1	
2000	2000/1000	200	--	10	210	1	
5000	5000/2500	500	--	10	510	1	
ICB	1000/500		5	10	15	1	
ICV (1000 ppb)	1000/500	**	5	10	16	1	**Add 1 uL of SS Megamix

	Mega Mix (uL)	8270 Surr (uL)	Final Volume (mL)
2° Intermediate (cal)	100	500	10

SRH 7/26/23

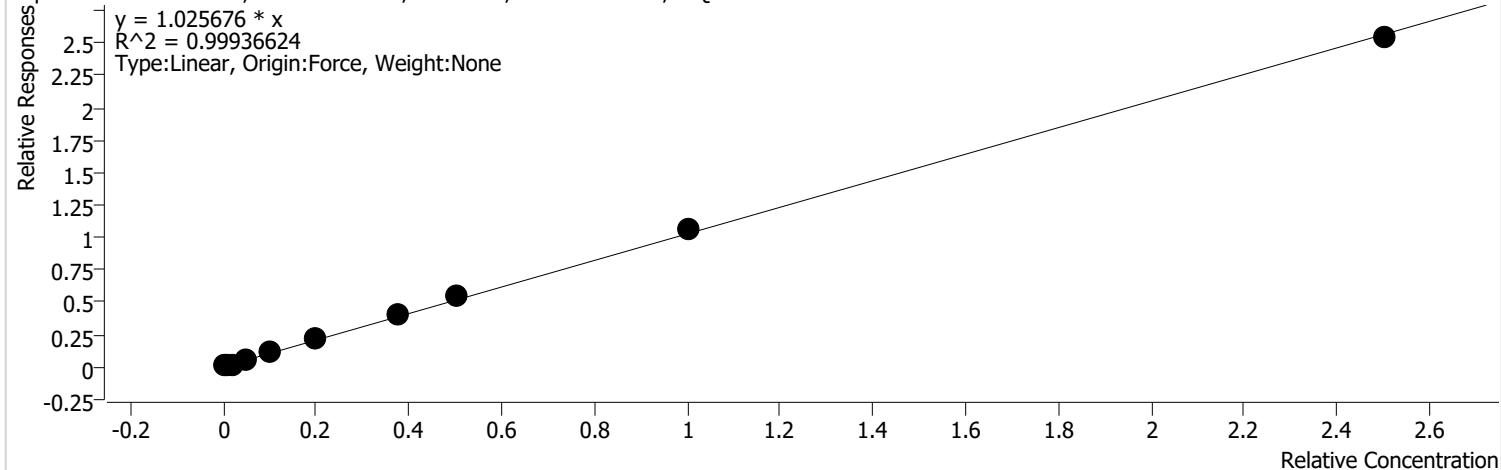
Signature and Date: *SRH* 7/26/23

Calibration Report

Batch Path	C:\GC-14\Data\2023\081523\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	8/16/2023 8:02 AM	Reporter Name	FA\GC14
Report Time	8/16/2023 8:07:59 AM	Batch State	Processed
Last Calib Update	8/16/2023 8:01 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Naphthalene %RSE = 7.6

Naphthalene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



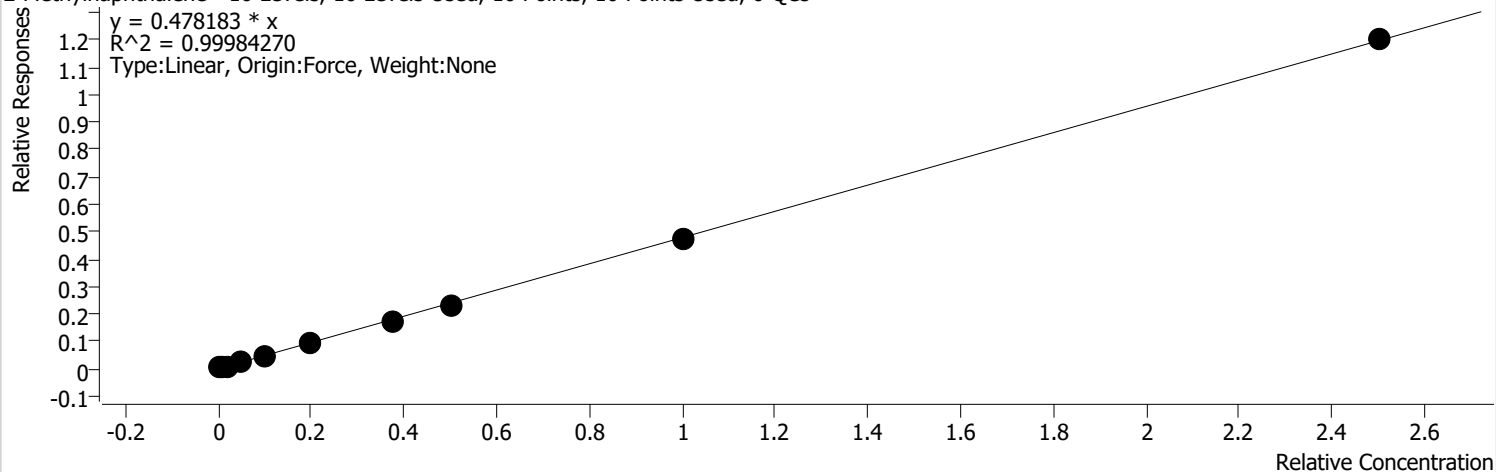
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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C:\GC-14\Data\2023\081523\081508.D	Calibration	2	x	4009	20.0000	1.0818	
C:\GC-14\Data\2023\081523\081509.D	Calibration	3	x	7685	40.0000	1.0330	
C:\GC-14\Data\2023\081523\081510.D	Calibration	4	x	20008	100.0000	1.1142	
C:\GC-14\Data\2023\081523\081511.D	Calibration	5	x	38237	200.0000	1.0916	
C:\GC-14\Data\2023\081523\081512.D	Calibration	6	x	80789	400.0000	1.1170	
C:\GC-14\Data\2023\081523\081513.D	Calibration	7	x	150460	750.0000	1.0922	
C:\GC-14\Data\2023\081523\081514.D	Calibration	8	x	196331	1000.0000	1.0831	
C:\GC-14\Data\2023\081523\081515.D	Calibration	9	x	420133	2000.0000	1.0590	
C:\GC-14\Data\2023\081523\081516.D	Calibration	10	x	968293	5000.0000	1.0158	

Calibration Report

Batch Path	C:\GC-14\Data\2023\081523\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	8/16/2023 8:02 AM	Reporter Name	FA\GC14
Report Time	8/16/2023 8:08:01 AM	Batch State	Processed
Last Calib Update	8/16/2023 8:01 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

2-Methylnaphthalene %RSE = 10.6

2-Methylnaphthalene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



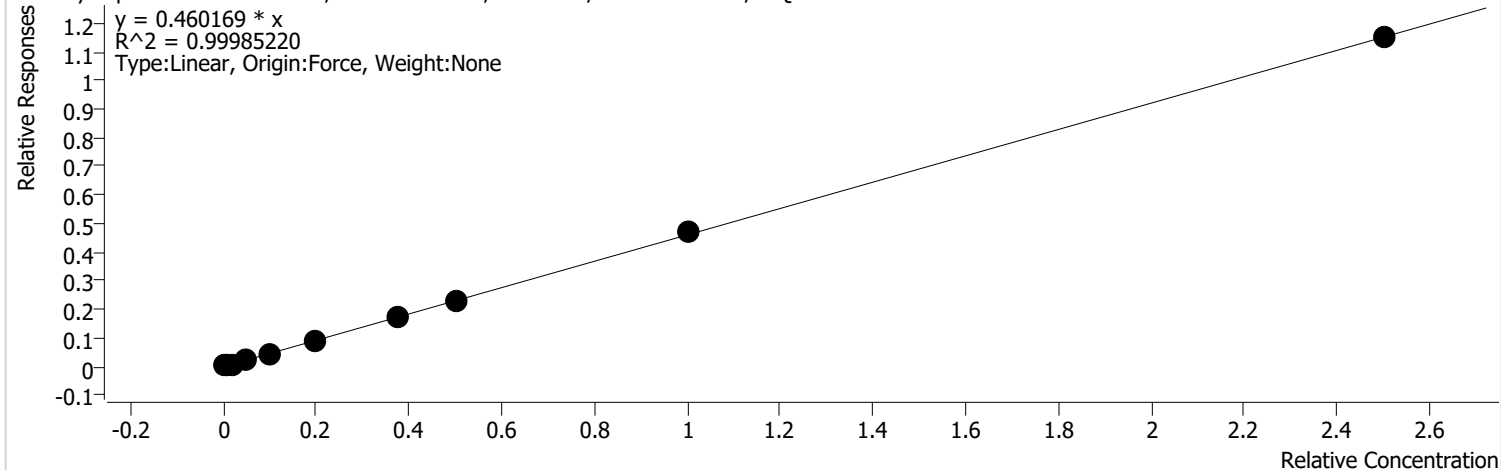
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\081523\081507.D	Calibration	1	x	895	10.0000	0.4048	
C:\GC-14\Data\2023\081523\081508.D	Calibration	2	x	1534	20.0000	0.4140	
C:\GC-14\Data\2023\081523\081509.D	Calibration	3	x	2988	40.0000	0.4016	
C:\GC-14\Data\2023\081523\081510.D	Calibration	4	x	7799	100.0000	0.4343	
C:\GC-14\Data\2023\081523\081511.D	Calibration	5	x	15113	200.0000	0.4315	
C:\GC-14\Data\2023\081523\081512.D	Calibration	6	x	32883	400.0000	0.4547	
C:\GC-14\Data\2023\081523\081513.D	Calibration	7	x	63562	750.0000	0.4614	
C:\GC-14\Data\2023\081523\081514.D	Calibration	8	x	83191	1000.0000	0.4589	
C:\GC-14\Data\2023\081523\081515.D	Calibration	9	x	189572	2000.0000	0.4779	
C:\GC-14\Data\2023\081523\081516.D	Calibration	10	x	457192	5000.0000	0.4796	

Calibration Report

Batch Path	C:\GC-14\Data\2023\081523\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	8/16/2023 8:02 AM	Reporter Name	FA\GC14
Report Time	8/16/2023 8:08:01 AM	Batch State	Processed
Last Calib Update	8/16/2023 8:01 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

1-Methylnaphthalene %RSE = 12.4

1-Methylnaphthalene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



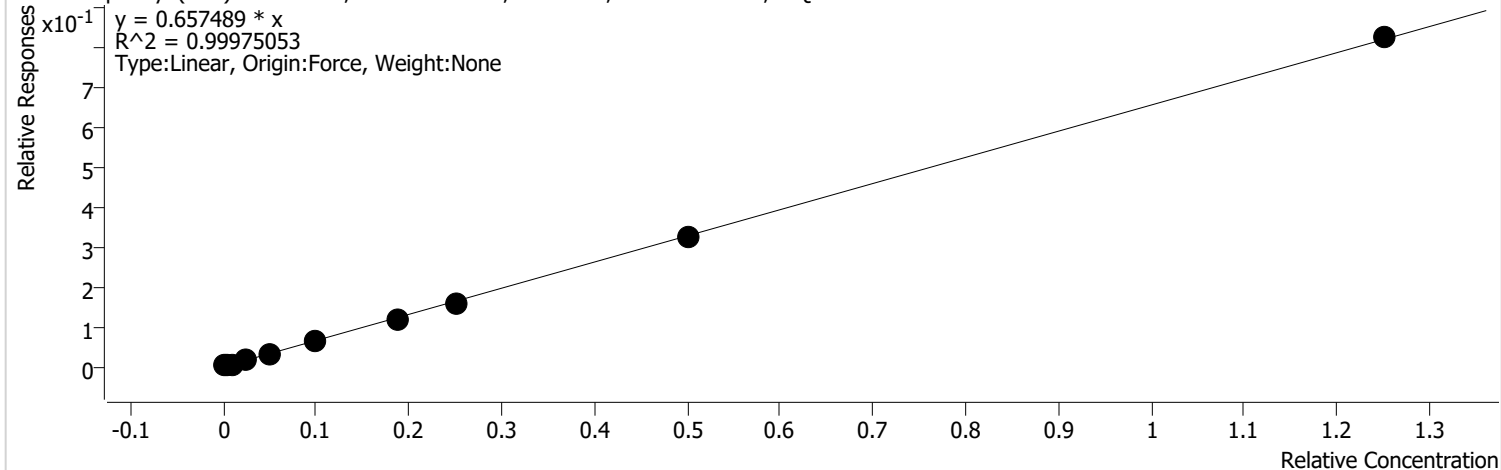
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\081523\081507.D	Calibration	1	x	845	10.0000	0.3819	
C:\GC-14\Data\2023\081523\081508.D	Calibration	2	x	1392	20.0000	0.3756	
C:\GC-14\Data\2023\081523\081509.D	Calibration	3	x	2785	40.0000	0.3744	
C:\GC-14\Data\2023\081523\081510.D	Calibration	4	x	7453	100.0000	0.4150	
C:\GC-14\Data\2023\081523\081511.D	Calibration	5	x	14310	200.0000	0.4085	
C:\GC-14\Data\2023\081523\081512.D	Calibration	6	x	31522	400.0000	0.4358	
C:\GC-14\Data\2023\081523\081513.D	Calibration	7	x	62192	750.0000	0.4515	
C:\GC-14\Data\2023\081523\081514.D	Calibration	8	x	82464	1000.0000	0.4549	
C:\GC-14\Data\2023\081523\081515.D	Calibration	9	x	186311	2000.0000	0.4696	
C:\GC-14\Data\2023\081523\081516.D	Calibration	10	x	437834	5000.0000	0.4593	

Calibration Report

Batch Path	C:\GC-14\Data\2023\081523\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	8/16/2023 8:02 AM	Reporter Name	FA\GC14
Report Time	8/16/2023 8:08:01 AM	Batch State	Processed
Last Calib Update	8/16/2023 8:01 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

2-Fluorobiphenyl (surr) %RSE =

2-Fluorobiphenyl (surr) - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



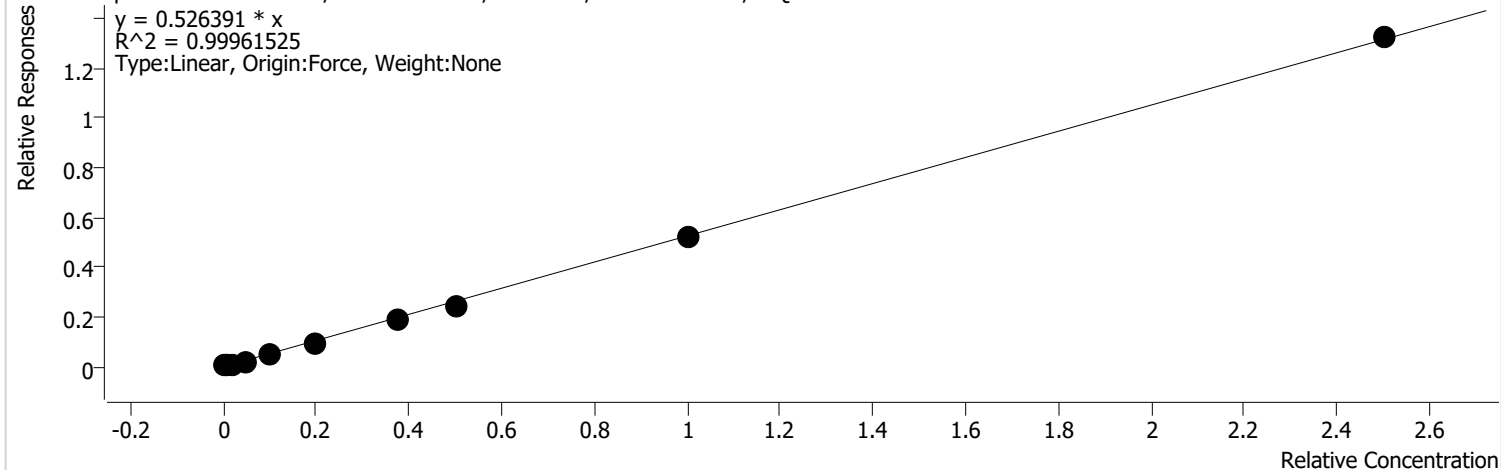
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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C:\GC-14\Data\2023\081523\081508.D	Calibration	2	x	1061	10.0000	0.5725	
C:\GC-14\Data\2023\081523\081509.D	Calibration	3	x	2028	20.0000	0.5454	
C:\GC-14\Data\2023\081523\081510.D	Calibration	4	x	5327	50.0000	0.5932	
C:\GC-14\Data\2023\081523\081511.D	Calibration	5	x	10202	100.0000	0.5825	
C:\GC-14\Data\2023\081523\081512.D	Calibration	6	x	22311	200.0000	0.6170	
C:\GC-14\Data\2023\081523\081513.D	Calibration	7	x	43550	375.0000	0.6323	
C:\GC-14\Data\2023\081523\081514.D	Calibration	8	x	57043	500.0000	0.6294	
C:\GC-14\Data\2023\081523\081515.D	Calibration	9	x	128572	1000.0000	0.6482	
C:\GC-14\Data\2023\081523\081516.D	Calibration	10	x	315077	2500.0000	0.6611	

Calibration Report

Batch Path	C:\GC-14\Data\2023\081523\QuantResults\PAH ICAL.batch.bin		
Analysis Time	8/16/2023 8:02 AM	Analyst Name	FA\GC14
Report Time	8/16/2023 8:08:01 AM	Reporter Name	FA\GC14
Last Calib Update	8/16/2023 8:01 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

2-Chloronaphthalene %RSE = 14.9

2-Chloronaphthalene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



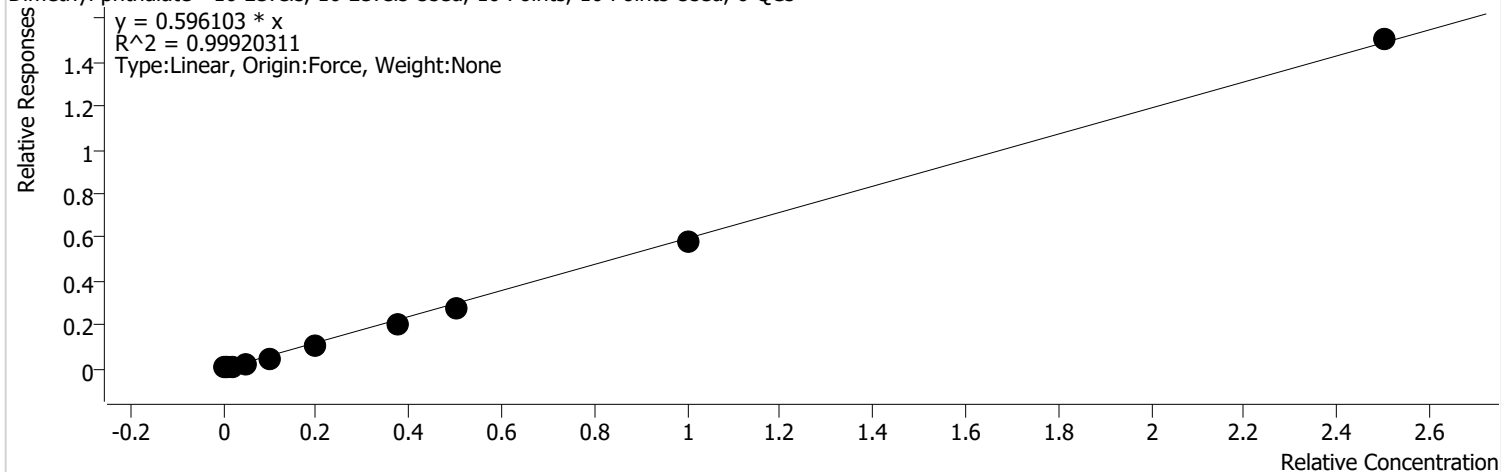
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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C:\GC-14\Data\2023\081523\081508.D	Calibration	2	x	1564	20.0000	0.4221	
C:\GC-14\Data\2023\081523\081509.D	Calibration	3	x	3068	40.0000	0.4125	
C:\GC-14\Data\2023\081523\081510.D	Calibration	4	x	8219	100.0000	0.4577	
C:\GC-14\Data\2023\081523\081511.D	Calibration	5	x	15764	200.0000	0.4500	
C:\GC-14\Data\2023\081523\081512.D	Calibration	6	x	34796	400.0000	0.4811	
C:\GC-14\Data\2023\081523\081513.D	Calibration	7	x	68427	750.0000	0.4967	
C:\GC-14\Data\2023\081523\081514.D	Calibration	8	x	89848	1000.0000	0.4956	
C:\GC-14\Data\2023\081523\081515.D	Calibration	9	x	207316	2000.0000	0.5226	
C:\GC-14\Data\2023\081523\081516.D	Calibration	10	x	504581	5000.0000	0.5293	

Calibration Report

Batch Path	C:\GC-14\Data\2023\081523\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	8/16/2023 8:02 AM	Reporter Name	FA\GC14
Report Time	8/16/2023 8:08:01 AM	Batch State	Processed
Last Calib Update	8/16/2023 8:01 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Dimethyl phthalate %RSE = 14.7

Dimethyl phthalate - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



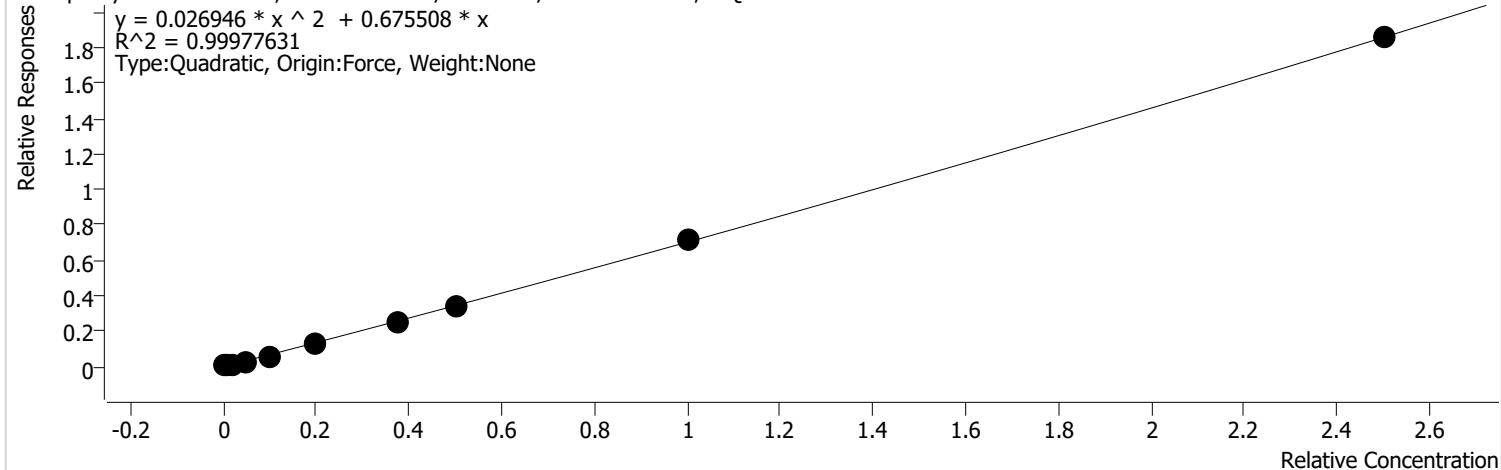
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\081523\081507.D	Calibration	1	x	1120	10.0000	0.5062	
C:\GC-14\Data\2023\081523\081508.D	Calibration	2	x	1786	20.0000	0.4821	
C:\GC-14\Data\2023\081523\081509.D	Calibration	3	x	3566	40.0000	0.4794	
C:\GC-14\Data\2023\081523\081510.D	Calibration	4	x	9363	100.0000	0.5214	
C:\GC-14\Data\2023\081523\081511.D	Calibration	5	x	17365	200.0000	0.4957	
C:\GC-14\Data\2023\081523\081512.D	Calibration	6	x	37302	400.0000	0.5158	
C:\GC-14\Data\2023\081523\081513.D	Calibration	7	x	76256	750.0000	0.5536	
C:\GC-14\Data\2023\081523\081514.D	Calibration	8	x	99067	1000.0000	0.5465	
C:\GC-14\Data\2023\081523\081515.D	Calibration	9	x	231920	2000.0000	0.5846	
C:\GC-14\Data\2023\081523\081516.D	Calibration	10	x	573452	5000.0000	0.6016	

Calibration Report

Batch Path	C:\GC-14\Data\2023\081523\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	8/16/2023 8:02 AM	Reporter Name	FA\GC14
Report Time	8/16/2023 8:08:01 AM	Batch State	Processed
Last Calib Update	8/16/2023 8:01 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Acenaphthylene %RSE = 14.4

Acenaphthylene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



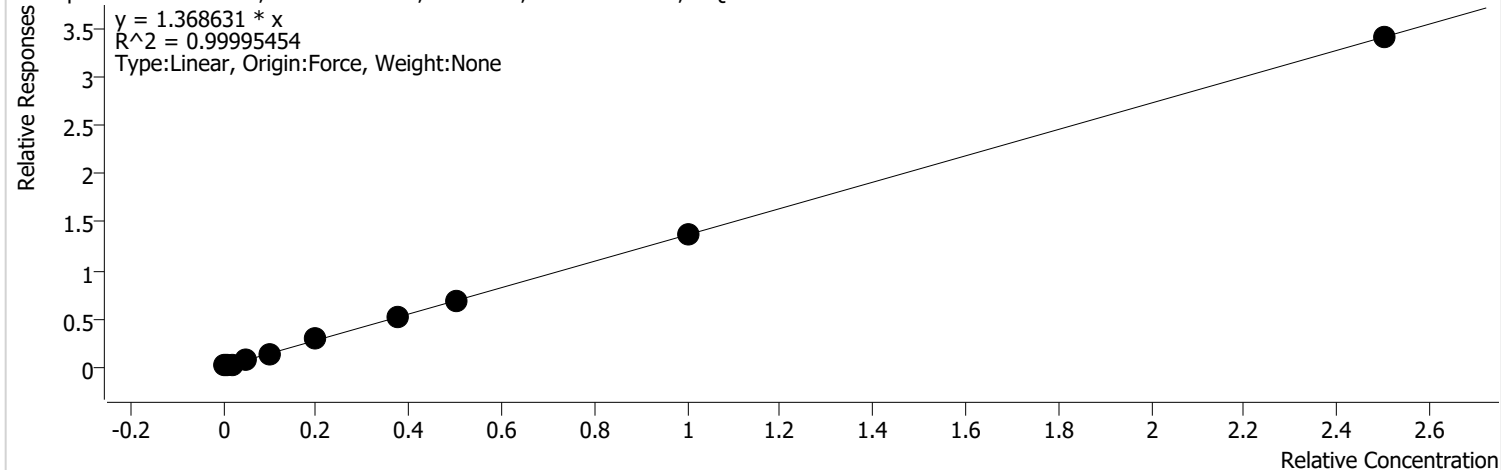
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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C:\GC-14\Data\2023\081523\081509.D	Calibration	3	x	4016	40.0000	0.5399	
C:\GC-14\Data\2023\081523\081510.D	Calibration	4	x	10671	100.0000	0.5943	
C:\GC-14\Data\2023\081523\081511.D	Calibration	5	x	20411	200.0000	0.5827	
C:\GC-14\Data\2023\081523\081512.D	Calibration	6	x	45344	400.0000	0.6270	
C:\GC-14\Data\2023\081523\081513.D	Calibration	7	x	91914	750.0000	0.6672	
C:\GC-14\Data\2023\081523\081514.D	Calibration	8	x	120903	1000.0000	0.6670	
C:\GC-14\Data\2023\081523\081515.D	Calibration	9	x	285139	2000.0000	0.7187	
C:\GC-14\Data\2023\081523\081516.D	Calibration	10	x	707382	5000.0000	0.7421	

Calibration Report

Batch Path	C:\GC-14\Data\2023\081523\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	8/16/2023 8:02 AM	Reporter Name	FA\GC14
Report Time	8/16/2023 8:08:01 AM	Batch State	Processed
Last Calib Update	8/16/2023 8:01 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Acenaphthene %RSE = 4.8

Acenaphthene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



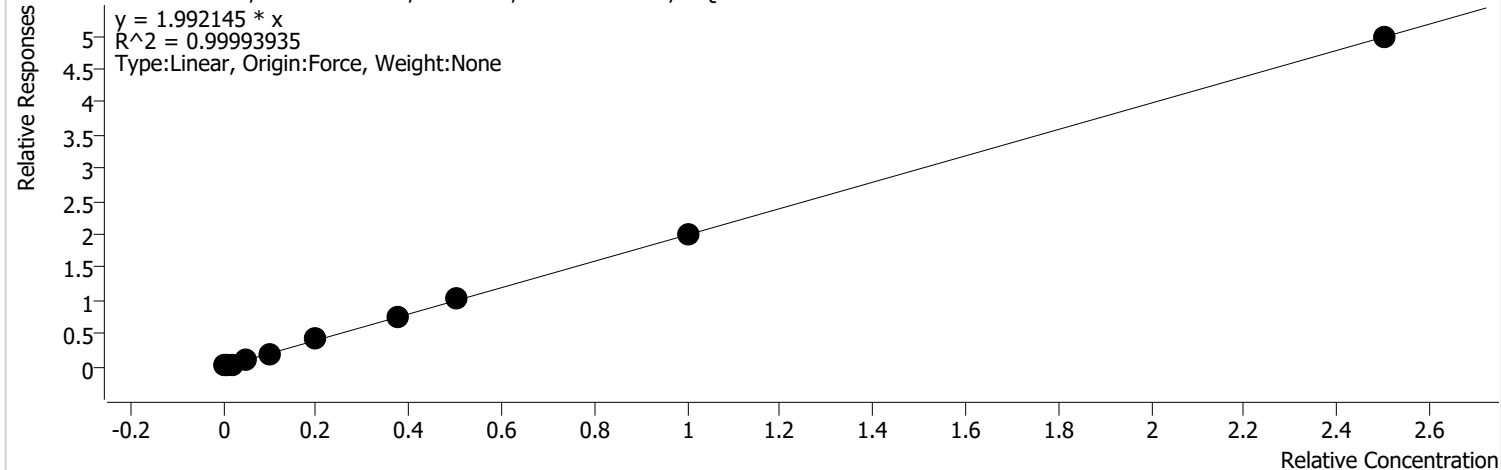
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\081523\081507.D	Calibration	1	x	996	10.0000	1.5302	
C:\GC-14\Data\2023\081523\081508.D	Calibration	2	x	1683	20.0000	1.3894	
C:\GC-14\Data\2023\081523\081509.D	Calibration	3	x	3254	40.0000	1.3567	
C:\GC-14\Data\2023\081523\081510.D	Calibration	4	x	8218	100.0000	1.4290	
C:\GC-14\Data\2023\081523\081511.D	Calibration	5	x	15574	200.0000	1.3903	
C:\GC-14\Data\2023\081523\081512.D	Calibration	6	x	33668	400.0000	1.4172	
C:\GC-14\Data\2023\081523\081513.D	Calibration	7	x	66658	750.0000	1.4036	
C:\GC-14\Data\2023\081523\081514.D	Calibration	8	x	87087	1000.0000	1.3911	
C:\GC-14\Data\2023\081523\081515.D	Calibration	9	x	201380	2000.0000	1.3720	
C:\GC-14\Data\2023\081523\081516.D	Calibration	10	x	494013	5000.0000	1.3660	

Calibration Report

Batch Path	C:\GC-14\Data\2023\081523\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	8/16/2023 8:02 AM	Reporter Name	FA\GC14
Report Time	8/16/2023 8:08:01 AM	Batch State	Processed
Last Calib Update	8/16/2023 8:01 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Dibenzofuran %RSE = 4.6

Dibenzofuran - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



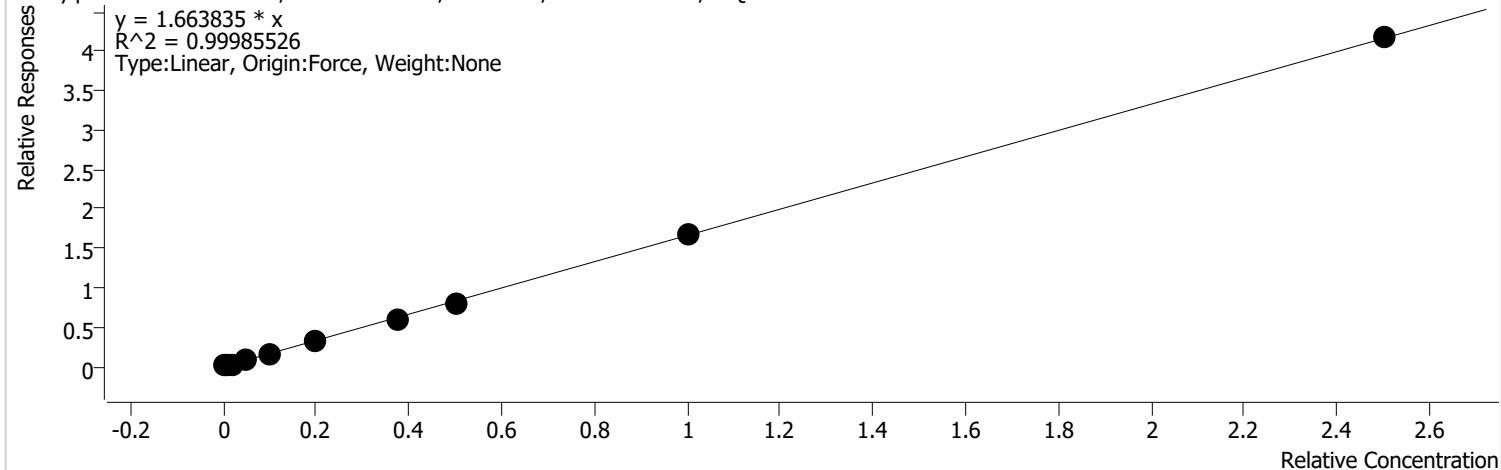
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\081523\081507.D	Calibration	1	x	1344	10.0000	2.0659	
C:\GC-14\Data\2023\081523\081508.D	Calibration	2	x	2251	20.0000	1.8584	
C:\GC-14\Data\2023\081523\081509.D	Calibration	3	x	4361	40.0000	1.8186	
C:\GC-14\Data\2023\081523\081510.D	Calibration	4	x	11525	100.0000	2.0041	
C:\GC-14\Data\2023\081523\081511.D	Calibration	5	x	22437	200.0000	2.0031	
C:\GC-14\Data\2023\081523\081512.D	Calibration	6	x	49340	400.0000	2.0769	
C:\GC-14\Data\2023\081523\081513.D	Calibration	7	x	97171	750.0000	2.0460	
C:\GC-14\Data\2023\081523\081514.D	Calibration	8	x	127535	1000.0000	2.0372	
C:\GC-14\Data\2023\081523\081515.D	Calibration	9	x	292462	2000.0000	1.9925	
C:\GC-14\Data\2023\081523\081516.D	Calibration	10	x	719126	5000.0000	1.9885	

Calibration Report

Batch Path	C:\GC-14\Data\2023\081523\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	8/16/2023 8:02 AM	Reporter Name	FA\GC14
Report Time	8/16/2023 8:08:01 AM	Batch State	Processed
Last Calib Update	8/16/2023 8:01 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Diethylphthalate %RSE = 10.9

Diethylphthalate - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



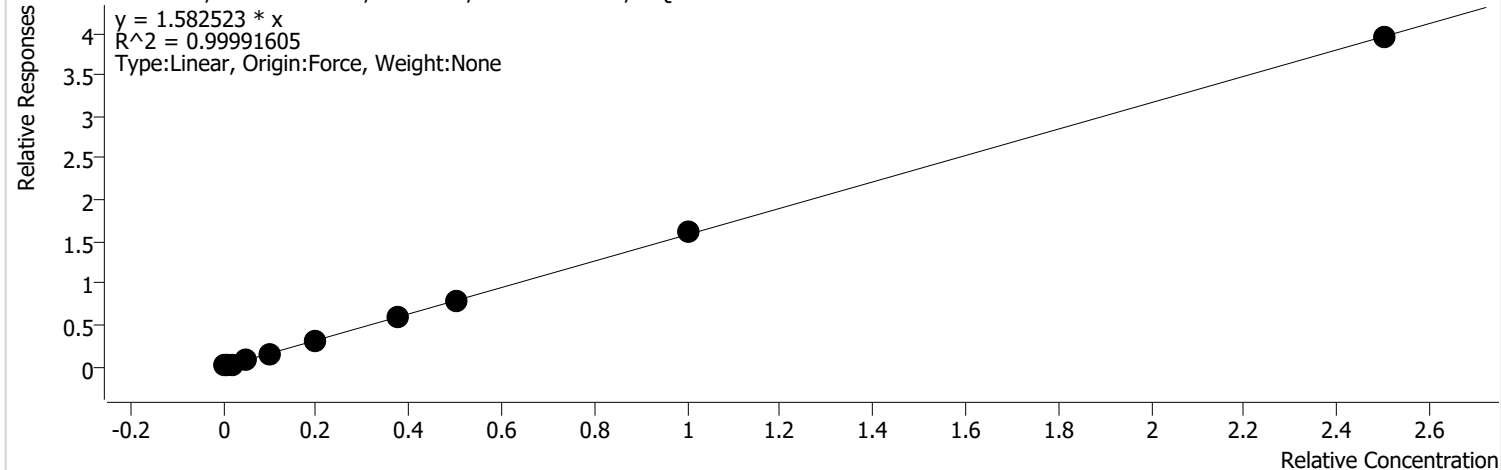
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\081523\081507.D	Calibration	1	x	1257	10.0000	1.9315	
C:\GC-14\Data\2023\081523\081508.D	Calibration	2	x	1724	20.0000	1.4229	
C:\GC-14\Data\2023\081523\081509.D	Calibration	3	x	3373	40.0000	1.4065	
C:\GC-14\Data\2023\081523\081510.D	Calibration	4	x	8736	100.0000	1.5191	
C:\GC-14\Data\2023\081523\081511.D	Calibration	5	x	16722	200.0000	1.4928	
C:\GC-14\Data\2023\081523\081512.D	Calibration	6	x	37104	400.0000	1.5619	
C:\GC-14\Data\2023\081523\081513.D	Calibration	7	x	76633	750.0000	1.6136	
C:\GC-14\Data\2023\081523\081514.D	Calibration	8	x	100354	1000.0000	1.6030	
C:\GC-14\Data\2023\081523\081515.D	Calibration	9	x	245152	2000.0000	1.6702	
C:\GC-14\Data\2023\081523\081516.D	Calibration	10	x	602991	5000.0000	1.6674	

Calibration Report

Batch Path	C:\GC-14\Data\2023\081523\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	8/16/2023 8:02 AM	Reporter Name	FA\GC14
Report Time	8/16/2023 8:08:01 AM	Batch State	Processed
Last Calib Update	8/16/2023 8:01 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Fluorene %RSE = 6.4

Fluorene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



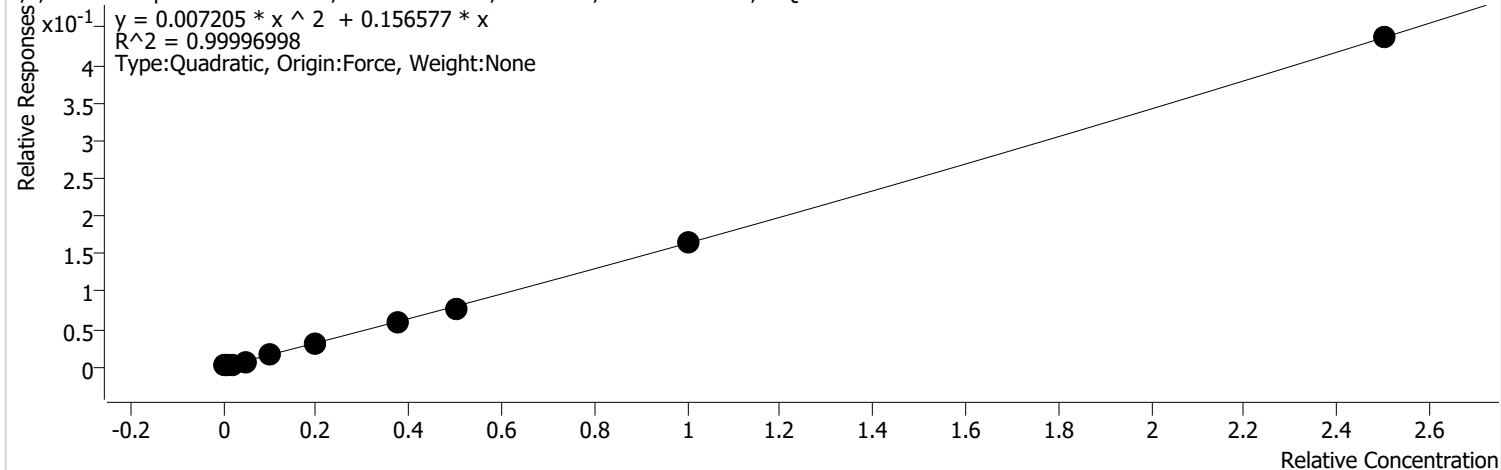
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\081523\081507.D	Calibration	1	x	1032	10.0000	1.5858	
C:\GC-14\Data\2023\081523\081508.D	Calibration	2	x	1661	20.0000	1.3709	
C:\GC-14\Data\2023\081523\081509.D	Calibration	3	x	3371	40.0000	1.4057	
C:\GC-14\Data\2023\081523\081510.D	Calibration	4	x	8918	100.0000	1.5507	
C:\GC-14\Data\2023\081523\081511.D	Calibration	5	x	17207	200.0000	1.5362	
C:\GC-14\Data\2023\081523\081512.D	Calibration	6	x	37421	400.0000	1.5752	
C:\GC-14\Data\2023\081523\081513.D	Calibration	7	x	76482	750.0000	1.6104	
C:\GC-14\Data\2023\081523\081514.D	Calibration	8	x	99885	1000.0000	1.5955	
C:\GC-14\Data\2023\081523\081515.D	Calibration	9	x	236329	2000.0000	1.6101	
C:\GC-14\Data\2023\081523\081516.D	Calibration	10	x	570346	5000.0000	1.5771	

Calibration Report

Batch Path	C:\GC-14\Data\2023\081523\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	8/16/2023 8:02 AM	Reporter Name	FA\GC14
Report Time	8/16/2023 8:08:01 AM	Batch State	Processed
Last Calib Update	8/16/2023 8:01 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

2,4,6-Tribromophenol %RSE =

2,4,6-Tribromophenol - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



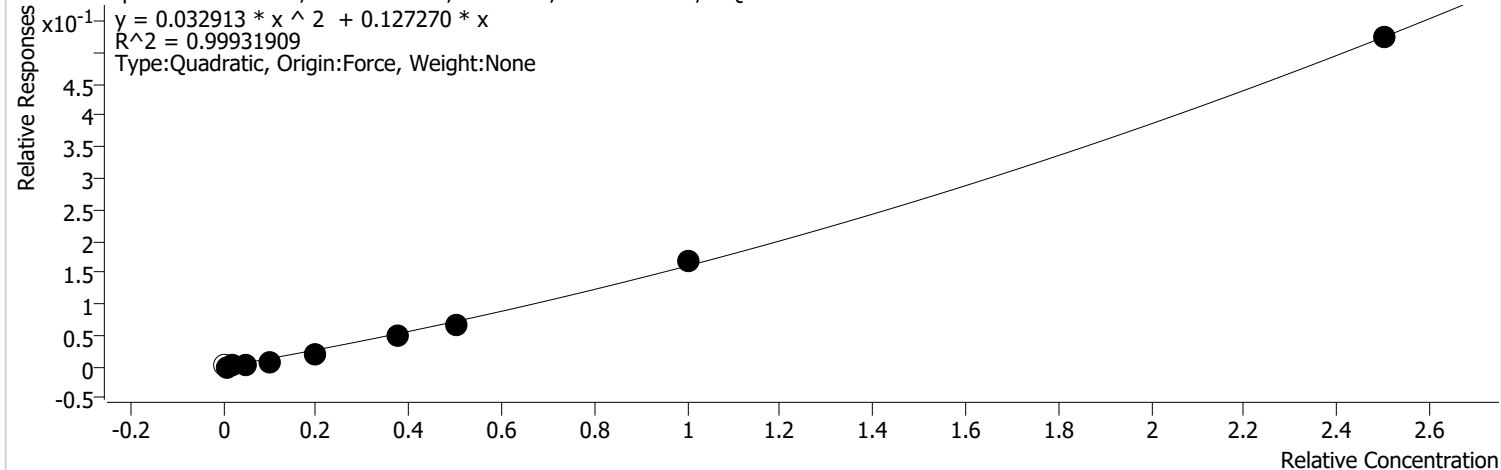
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\081523\081507.D	Calibration	1	x	106	10.0000	0.1628	
C:\GC-14\Data\2023\081523\081508.D	Calibration	2	x	156	20.0000	0.1289	
C:\GC-14\Data\2023\081523\081509.D	Calibration	3	x	323	40.0000	0.1348	
C:\GC-14\Data\2023\081523\081510.D	Calibration	4	x	862	100.0000	0.1500	
C:\GC-14\Data\2023\081523\081511.D	Calibration	5	x	1718	200.0000	0.1534	
C:\GC-14\Data\2023\081523\081512.D	Calibration	6	x	3749	400.0000	0.1578	
C:\GC-14\Data\2023\081523\081513.D	Calibration	7	x	7634	750.0000	0.1608	
C:\GC-14\Data\2023\081523\081514.D	Calibration	8	x	9808	1000.0000	0.1567	
C:\GC-14\Data\2023\081523\081515.D	Calibration	9	x	24186	2000.0000	0.1648	
C:\GC-14\Data\2023\081523\081516.D	Calibration	10	x	63124	5000.0000	0.1745	

Calibration Report

Batch Path	C:\GC-14\Data\2023\081523\QuantResults\PAH ICAL.batch.bin		
Analysis Time	8/16/2023 8:02 AM	Analyst Name	FA\GC14
Report Time	8/16/2023 8:08:01 AM	Reporter Name	FA\GC14
Last Calib Update	8/16/2023 8:01 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Pentachlorophenol %RSE = 41.5

Pentachlorophenol - 10 Levels, 9 Levels Used, 10 Points, 9 Points Used, 0 QCs

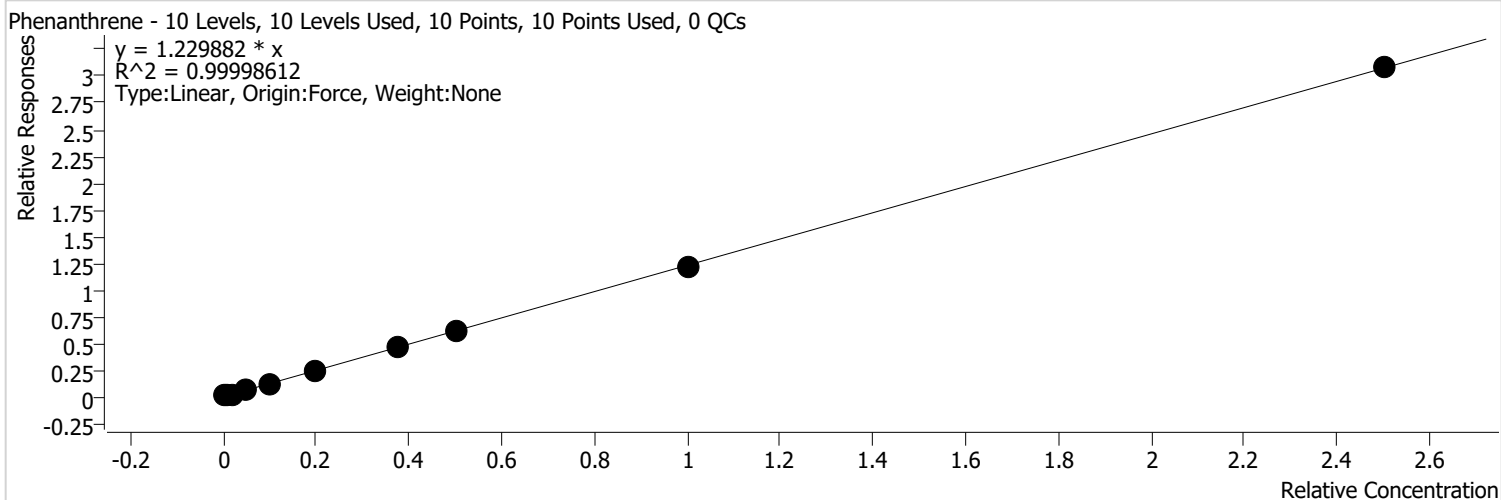


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\081523\081507.D	Calibration	1		113	10.0000	0.1731	
C:\GC-14\Data\2023\081523\081508.D	Calibration	2	x	80	20.0000	0.0663	
C:\GC-14\Data\2023\081523\081509.D	Calibration	3	x	119	40.0000	0.0495	
C:\GC-14\Data\2023\081523\081510.D	Calibration	4	x	388	100.0000	0.0674	
C:\GC-14\Data\2023\081523\081511.D	Calibration	5	x	867	200.0000	0.0774	
C:\GC-14\Data\2023\081523\081512.D	Calibration	6	x	2558	400.0000	0.1077	
C:\GC-14\Data\2023\081523\081513.D	Calibration	7	x	6225	750.0000	0.1311	
C:\GC-14\Data\2023\081523\081514.D	Calibration	8	x	8423	1000.0000	0.1345	
C:\GC-14\Data\2023\081523\081515.D	Calibration	9	x	24617	2000.0000	0.1677	
C:\GC-14\Data\2023\081523\081516.D	Calibration	10	x	75652	5000.0000	0.2092	

Calibration Report

Batch Path	C:\GC-14\Data\2023\081523\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	8/16/2023 8:02 AM	Reporter Name	FA\GC14
Report Time	8/16/2023 8:08:01 AM	Batch State	Processed
Last Calib Update	8/16/2023 8:01 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Phenanthrene %RSE = 9.1



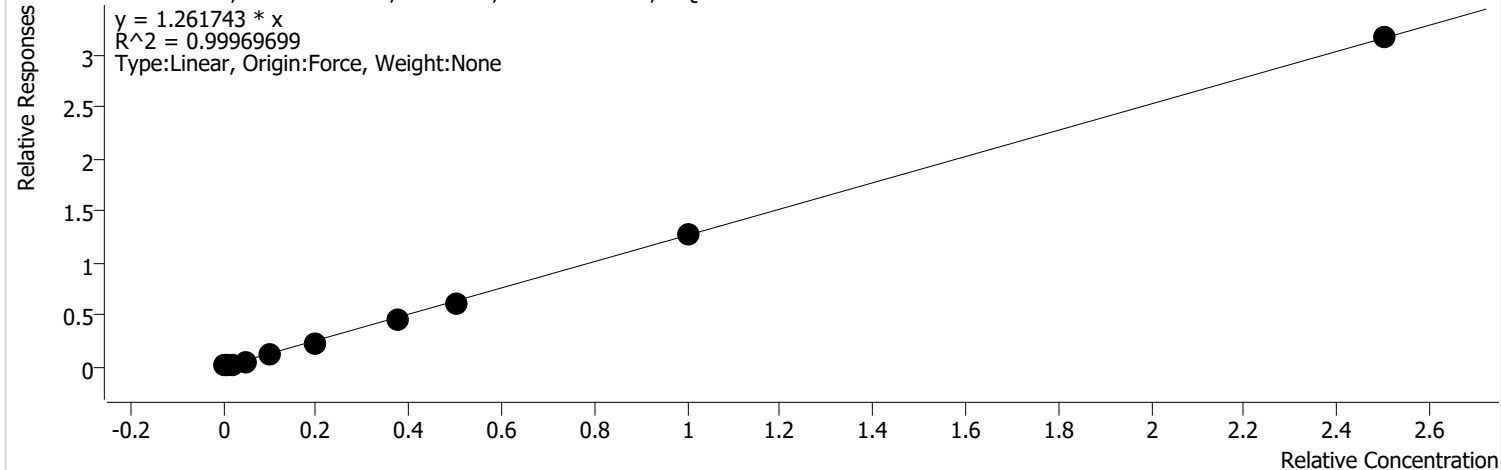
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\081523\081507.D	Calibration	1	x	1875	10.0000	1.5046	
C:\GC-14\Data\2023\081523\081508.D	Calibration	2	x	2678	20.0000	1.1274	
C:\GC-14\Data\2023\081523\081509.D	Calibration	3	x	5304	40.0000	1.1224	
C:\GC-14\Data\2023\081523\081510.D	Calibration	4	x	13634	100.0000	1.2031	
C:\GC-14\Data\2023\081523\081511.D	Calibration	5	x	26222	200.0000	1.1897	
C:\GC-14\Data\2023\081523\081512.D	Calibration	6	x	55985	400.0000	1.2138	
C:\GC-14\Data\2023\081523\081513.D	Calibration	7	x	111438	750.0000	1.2227	
C:\GC-14\Data\2023\081523\081514.D	Calibration	8	x	143802	1000.0000	1.2179	
C:\GC-14\Data\2023\081523\081515.D	Calibration	9	x	335147	2000.0000	1.2254	
C:\GC-14\Data\2023\081523\081516.D	Calibration	10	x	825466	5000.0000	1.2314	

Calibration Report

Batch Path	C:\GC-14\Data\2023\081523\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	8/16/2023 8:02 AM	Reporter Name	FA\GC14
Report Time	8/16/2023 8:08:01 AM	Batch State	Processed
Last Calib Update	8/16/2023 8:01 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Anthracene %RSE = 13.4

Anthracene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



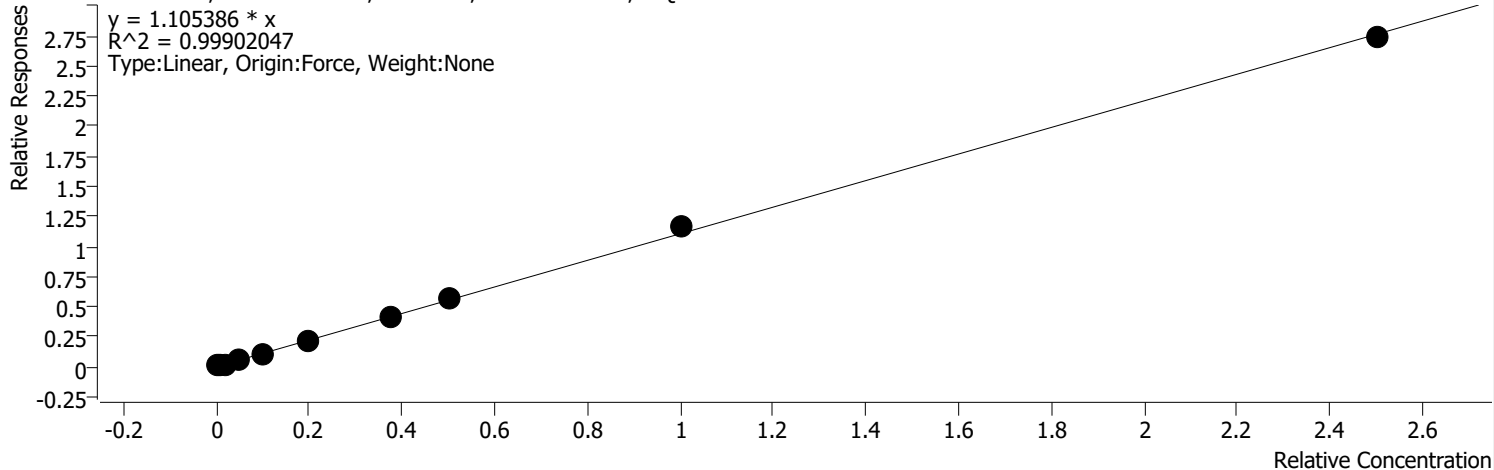
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\081523\081507.D	Calibration	1	x	1522	10.0000	1.2213	
C:\GC-14\Data\2023\081523\081508.D	Calibration	2	x	2388	20.0000	1.0055	
C:\GC-14\Data\2023\081523\081509.D	Calibration	3	x	4661	40.0000	0.9863	
C:\GC-14\Data\2023\081523\081510.D	Calibration	4	x	12402	100.0000	1.0944	
C:\GC-14\Data\2023\081523\081511.D	Calibration	5	x	23723	200.0000	1.0763	
C:\GC-14\Data\2023\081523\081512.D	Calibration	6	x	52366	400.0000	1.1354	
C:\GC-14\Data\2023\081523\081513.D	Calibration	7	x	109998	750.0000	1.2069	
C:\GC-14\Data\2023\081523\081514.D	Calibration	8	x	142402	1000.0000	1.2060	
C:\GC-14\Data\2023\081523\081515.D	Calibration	9	x	350165	2000.0000	1.2803	
C:\GC-14\Data\2023\081523\081516.D	Calibration	10	x	846919	5000.0000	1.2634	

Calibration Report

Batch Path	C:\GC-14\Data\2023\081523\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	8/16/2023 8:02 AM	Reporter Name	FA\GC14
Report Time	8/16/2023 8:08:01 AM	Batch State	Processed
Last Calib Update	8/16/2023 8:01 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Carbazole %RSE = 12.0

Carbazole - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs

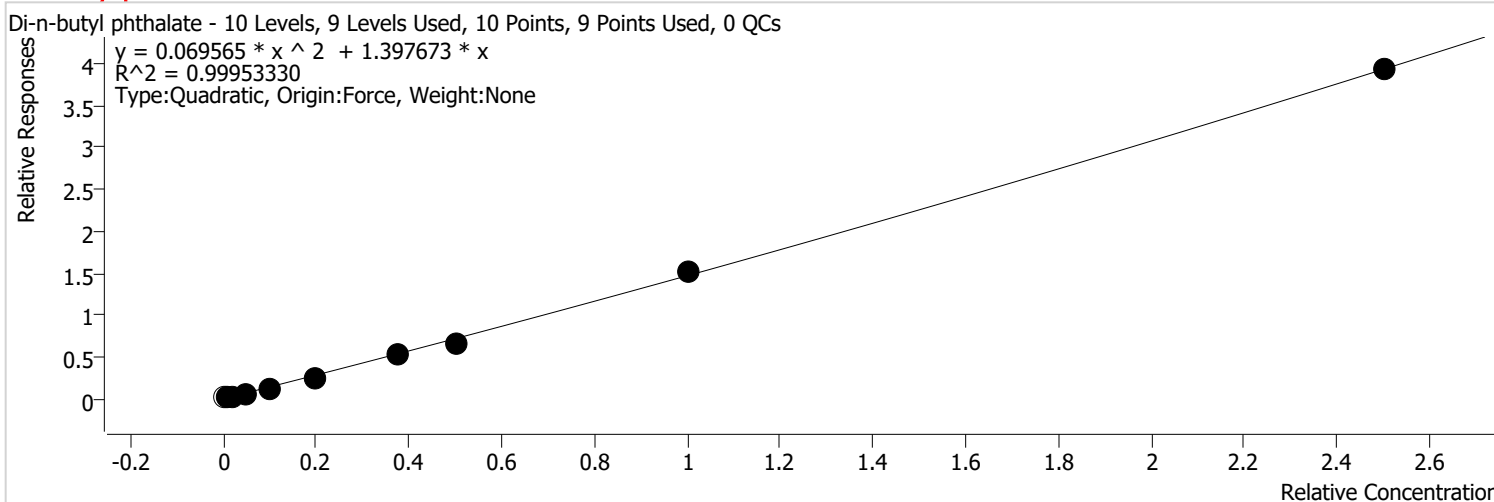


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\081523\081507.D	Calibration	1	x	1321	10.0000	1.0603	
C:\GC-14\Data\2023\081523\081508.D	Calibration	2	x	2103	20.0000	0.8856	
C:\GC-14\Data\2023\081523\081509.D	Calibration	3	x	4135	40.0000	0.8750	
C:\GC-14\Data\2023\081523\081510.D	Calibration	4	x	11174	100.0000	0.9861	
C:\GC-14\Data\2023\081523\081511.D	Calibration	5	x	21739	200.0000	0.9863	
C:\GC-14\Data\2023\081523\081512.D	Calibration	6	x	48133	400.0000	1.0436	
C:\GC-14\Data\2023\081523\081513.D	Calibration	7	x	100505	750.0000	1.1027	
C:\GC-14\Data\2023\081523\081514.D	Calibration	8	x	132487	1000.0000	1.1221	
C:\GC-14\Data\2023\081523\081515.D	Calibration	9	x	322112	2000.0000	1.1777	
C:\GC-14\Data\2023\081523\081516.D	Calibration	10	x	733247	5000.0000	1.0939	

Calibration Report

Batch Path	C:\GC-14\Data\2023\081523\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	8/16/2023 8:02 AM	Reporter Name	FA\GC14
Report Time	8/16/2023 8:08:01 AM	Batch State	Processed
Last Calib Update	8/16/2023 8:01 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Di-n-butyl phthalate %RSE = 10.2



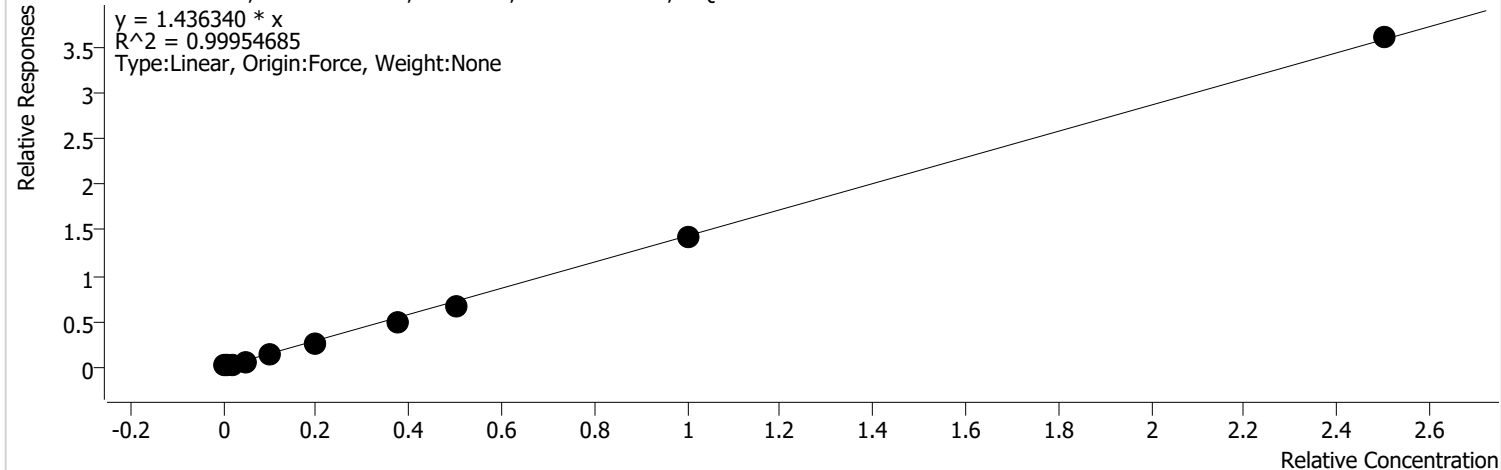
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\081523\081507.D	Calibration	1		5696	10.0000	4.5706	
C:\GC-14\Data\2023\081523\081508.D	Calibration	2	x	2998	20.0000	1.2624	
C:\GC-14\Data\2023\081523\081509.D	Calibration	3	x	5840	40.0000	1.2357	
C:\GC-14\Data\2023\081523\081510.D	Calibration	4	x	14633	100.0000	1.2913	
C:\GC-14\Data\2023\081523\081511.D	Calibration	5	x	27721	200.0000	1.2576	
C:\GC-14\Data\2023\081523\081512.D	Calibration	6	x	56275	400.0000	1.2201	
C:\GC-14\Data\2023\081523\081513.D	Calibration	7	x	127955	750.0000	1.4039	
C:\GC-14\Data\2023\081523\081514.D	Calibration	8	x	158798	1000.0000	1.3449	
C:\GC-14\Data\2023\081523\081515.D	Calibration	9	x	414376	2000.0000	1.5151	
C:\GC-14\Data\2023\081523\081516.D	Calibration	10	x	1052019	5000.0000	1.5694	

Calibration Report

Batch Path	C:\GC-14\Data\2023\081523\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	8/16/2023 8:02 AM	Reporter Name	FA\GC14
Report Time	8/16/2023 8:08:01 AM	Batch State	Processed
Last Calib Update	8/16/2023 8:01 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Fluoranthene %RSE = 14.6

Fluoranthene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs

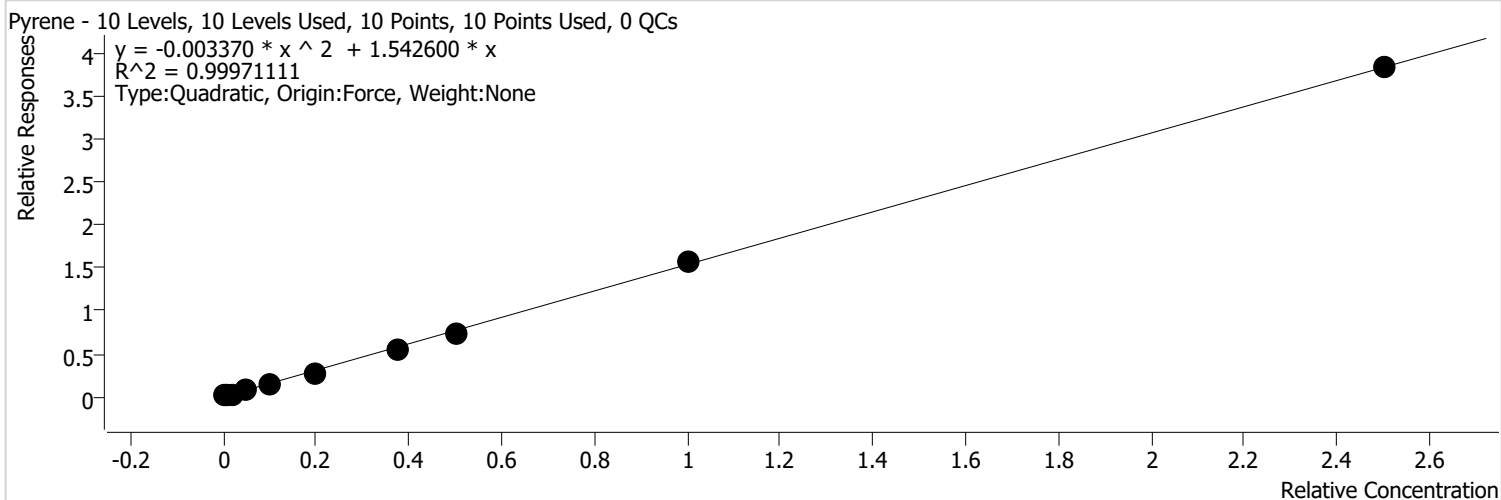


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\081523\081507.D	Calibration	1	x	1774	10.0000	1.4237	
C:\GC-14\Data\2023\081523\081508.D	Calibration	2	x	2628	20.0000	1.1066	
C:\GC-14\Data\2023\081523\081509.D	Calibration	3	x	5212	40.0000	1.1030	
C:\GC-14\Data\2023\081523\081510.D	Calibration	4	x	13877	100.0000	1.2245	
C:\GC-14\Data\2023\081523\081511.D	Calibration	5	x	27015	200.0000	1.2256	
C:\GC-14\Data\2023\081523\081512.D	Calibration	6	x	59025	400.0000	1.2798	
C:\GC-14\Data\2023\081523\081513.D	Calibration	7	x	122004	750.0000	1.3386	
C:\GC-14\Data\2023\081523\081514.D	Calibration	8	x	159751	1000.0000	1.3530	
C:\GC-14\Data\2023\081523\081515.D	Calibration	9	x	390678	2000.0000	1.4284	
C:\GC-14\Data\2023\081523\081516.D	Calibration	10	x	968356	5000.0000	1.4446	

Calibration Report

Batch Path	C:\GC-14\Data\2023\081523\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	8/16/2023 8:02 AM	Reporter Name	FA\GC14
Report Time	8/16/2023 8:08:01 AM	Batch State	Processed
Last Calib Update	8/16/2023 8:01 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Pyrene %RSE = 13.8

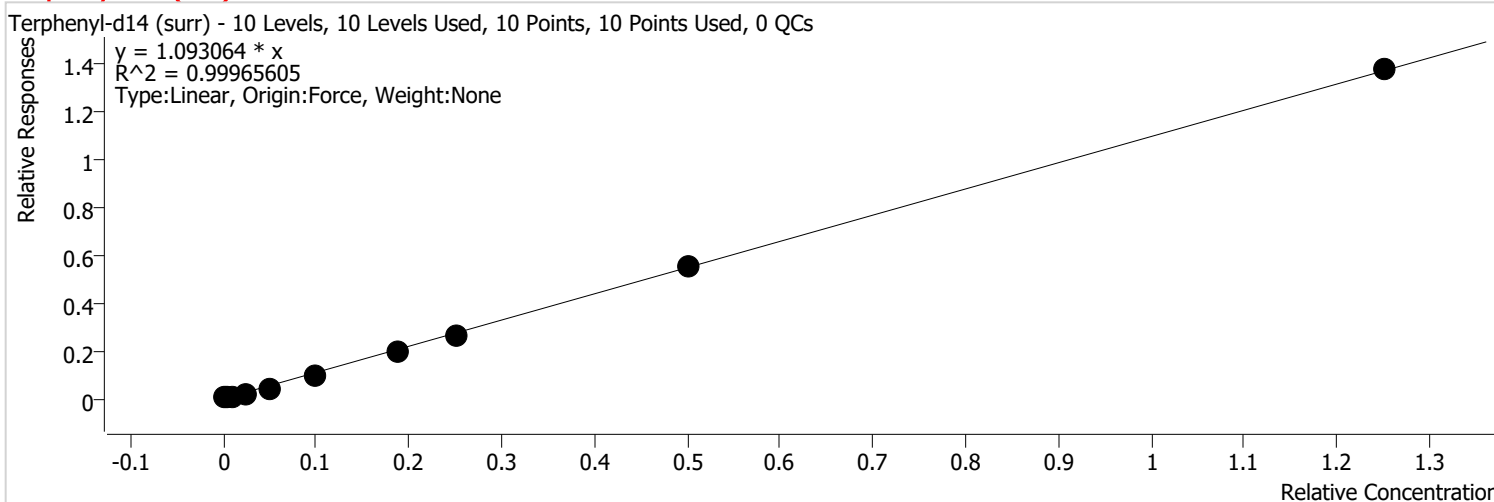


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\081523\081507.D	Calibration	1	x	2065	10.0000	1.6571	
C:\GC-14\Data\2023\081523\081508.D	Calibration	2	x	2927	20.0000	1.2324	
C:\GC-14\Data\2023\081523\081509.D	Calibration	3	x	5843	40.0000	1.2363	
C:\GC-14\Data\2023\081523\081510.D	Calibration	4	x	15282	100.0000	1.3485	
C:\GC-14\Data\2023\081523\081511.D	Calibration	5	x	29545	200.0000	1.3404	
C:\GC-14\Data\2023\081523\081512.D	Calibration	6	x	63226	400.0000	1.3708	
C:\GC-14\Data\2023\081523\081513.D	Calibration	7	x	136610	750.0000	1.4989	
C:\GC-14\Data\2023\081523\081514.D	Calibration	8	x	177230	1000.0000	1.5010	
C:\GC-14\Data\2023\081523\081515.D	Calibration	9	x	430978	2000.0000	1.5758	
C:\GC-14\Data\2023\081523\081516.D	Calibration	10	x	1027216	5000.0000	1.5324	

Calibration Report

Batch Path	C:\GC-14\Data\2023\081523\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	8/16/2023 8:02 AM	Reporter Name	FA\GC14
Report Time	8/16/2023 8:08:01 AM	Batch State	Processed
Last Calib Update	8/16/2023 8:01 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Terphenyl-d14 (surr) %RSE =



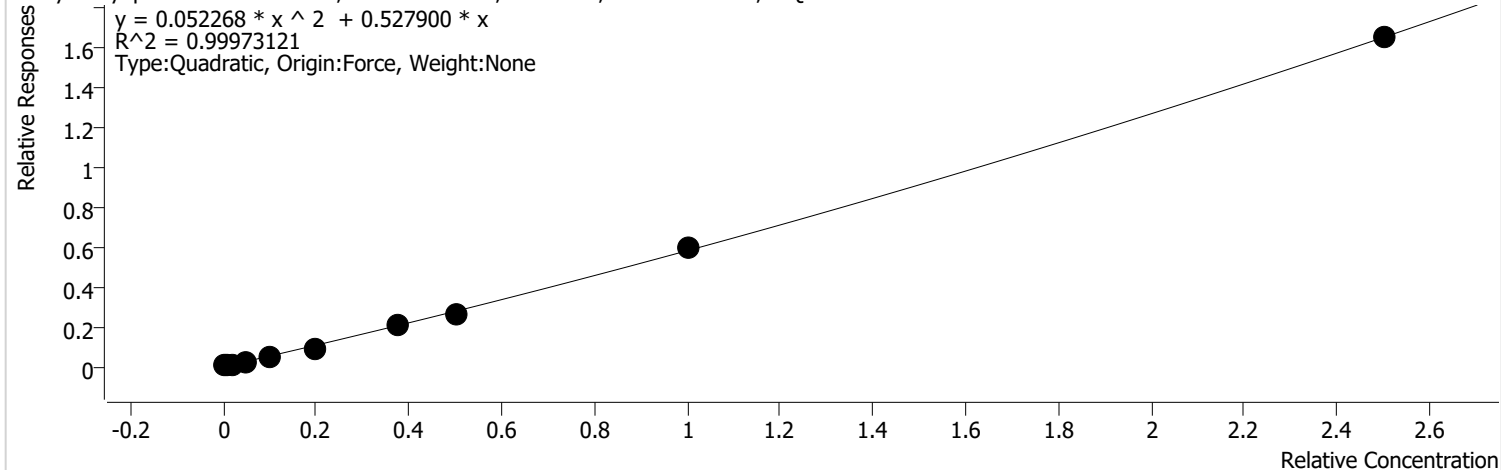
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\081523\081507.D	Calibration	1	x	584	5.0000	0.9371	
C:\GC-14\Data\2023\081523\081508.D	Calibration	2	x	950	10.0000	0.7998	
C:\GC-14\Data\2023\081523\081509.D	Calibration	3	x	1909	20.0000	0.8080	
C:\GC-14\Data\2023\081523\081510.D	Calibration	4	x	5056	50.0000	0.8924	
C:\GC-14\Data\2023\081523\081511.D	Calibration	5	x	9886	100.0000	0.8970	
C:\GC-14\Data\2023\081523\081512.D	Calibration	6	x	21905	200.0000	0.9499	
C:\GC-14\Data\2023\081523\081513.D	Calibration	7	x	47043	375.0000	1.0323	
C:\GC-14\Data\2023\081523\081514.D	Calibration	8	x	62464	500.0000	1.0581	
C:\GC-14\Data\2023\081523\081515.D	Calibration	9	x	149772	1000.0000	1.0952	
C:\GC-14\Data\2023\081523\081516.D	Calibration	10	x	367617	2500.0000	1.0968	

Calibration Report

Batch Path	C:\GC-14\Data\2023\081523\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	8/16/2023 8:02 AM	Reporter Name	FA\GC14
Report Time	8/16/2023 8:08:01 AM	Batch State	Processed
Last Calib Update	8/16/2023 8:01 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Benzyl Butyl phthalate %RSE = 12.8

Benzyl Butyl phthalate - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



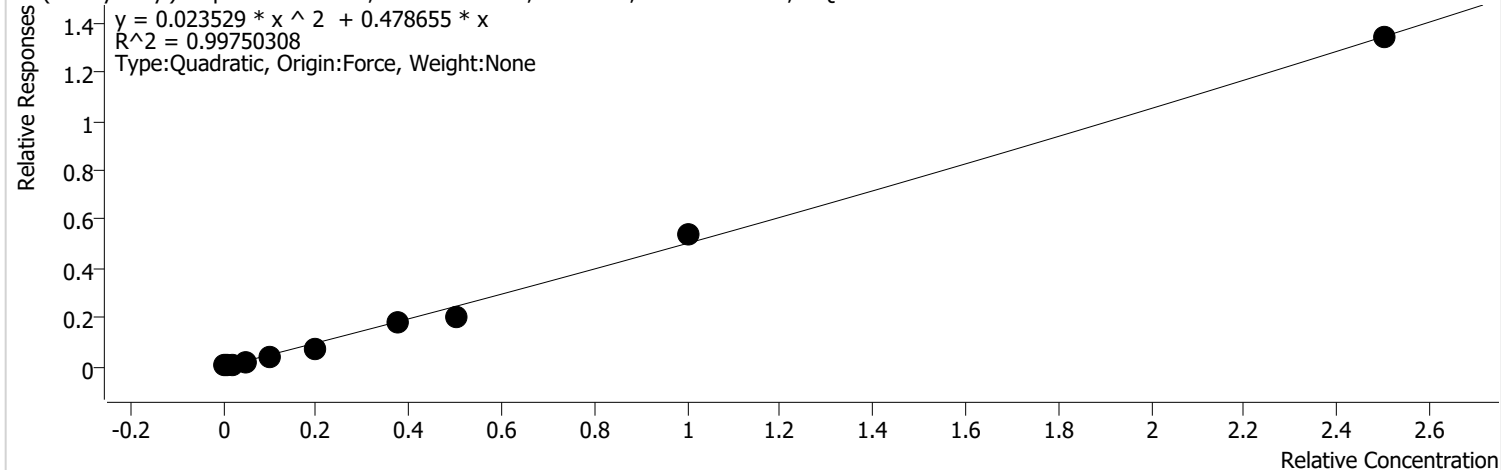
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\081523\081507.D	Calibration	1	x	664	10.0000	0.5329	
C:\GC-14\Data\2023\081523\081508.D	Calibration	2	x	1004	20.0000	0.4228	
C:\GC-14\Data\2023\081523\081509.D	Calibration	3	x	2040	40.0000	0.4316	
C:\GC-14\Data\2023\081523\081510.D	Calibration	4	x	5381	100.0000	0.4748	
C:\GC-14\Data\2023\081523\081511.D	Calibration	5	x	10376	200.0000	0.4708	
C:\GC-14\Data\2023\081523\081512.D	Calibration	6	x	21907	400.0000	0.4750	
C:\GC-14\Data\2023\081523\081513.D	Calibration	7	x	49719	750.0000	0.5455	
C:\GC-14\Data\2023\081523\081514.D	Calibration	8	x	62128	1000.0000	0.5262	
C:\GC-14\Data\2023\081523\081515.D	Calibration	9	x	162748	2000.0000	0.5950	
C:\GC-14\Data\2023\081523\081516.D	Calibration	10	x	441001	5000.0000	0.6579	

Calibration Report

Batch Path	C:\GC-14\Data\2023\081523\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	8/16/2023 8:02 AM	Reporter Name	FA\GC14
Report Time	8/16/2023 8:08:01 AM	Batch State	Processed
Last Calib Update	8/16/2023 8:01 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

bis (2-Ethylhexyl) adipate %RSE = 25.5

bis (2-Ethylhexyl) adipate - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



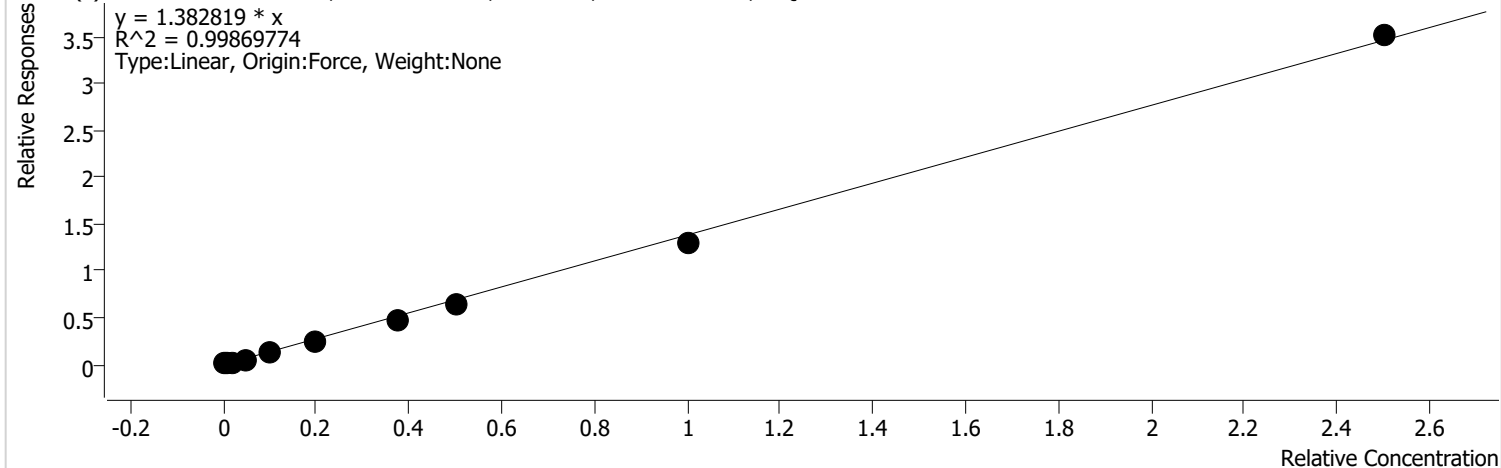
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\081523\081507.D	Calibration	1	x	491	10.0000	0.3942	
C:\GC-14\Data\2023\081523\081508.D	Calibration	2	x	733	20.0000	0.3088	
C:\GC-14\Data\2023\081523\081509.D	Calibration	3	x	1494	40.0000	0.3160	
C:\GC-14\Data\2023\081523\081510.D	Calibration	4	x	4026	100.0000	0.3553	
C:\GC-14\Data\2023\081523\081511.D	Calibration	5	x	8822	200.0000	0.4002	
C:\GC-14\Data\2023\081523\081512.D	Calibration	6	x	17086	400.0000	0.3704	
C:\GC-14\Data\2023\081523\081513.D	Calibration	7	x	43121	750.0000	0.4731	
C:\GC-14\Data\2023\081523\081514.D	Calibration	8	x	48075	1000.0000	0.4072	
C:\GC-14\Data\2023\081523\081515.D	Calibration	9	x	148149	2000.0000	0.5417	
C:\GC-14\Data\2023\081523\081516.D	Calibration	10	x	359116	5000.0000	0.5357	

Calibration Report

Batch Path	C:\GC-14\Data\2023\081523\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	8/16/2023 8:02 AM	Reporter Name	FA\GC14
Report Time	8/16/2023 8:08:01 AM	Batch State	Processed
Last Calib Update	8/16/2023 8:01 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Benzo (a) anthracene %RSE = 13.8

Benzo (a) anthracene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs

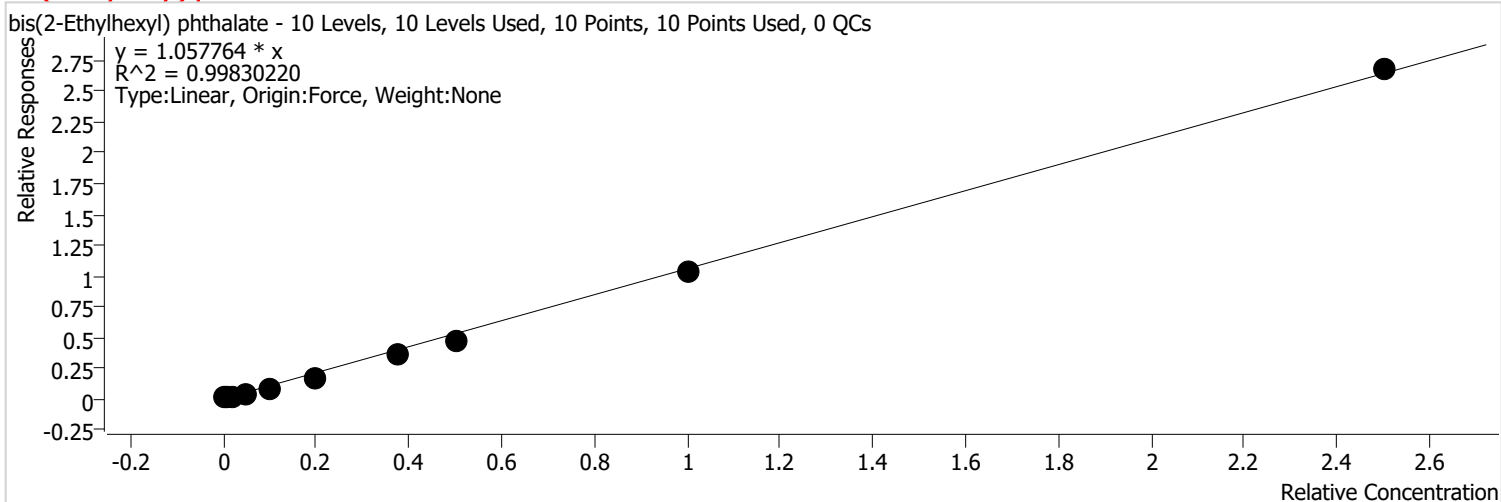


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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C:\GC-14\Data\2023\081523\081508.D	Calibration	2	x	3183	20.0000	1.3402	
C:\GC-14\Data\2023\081523\081509.D	Calibration	3	x	5637	40.0000	1.1928	
C:\GC-14\Data\2023\081523\081510.D	Calibration	4	x	13906	100.0000	1.2271	
C:\GC-14\Data\2023\081523\081511.D	Calibration	5	x	26145	200.0000	1.1862	
C:\GC-14\Data\2023\081523\081512.D	Calibration	6	x	57193	400.0000	1.2400	
C:\GC-14\Data\2023\081523\081513.D	Calibration	7	x	115968	750.0000	1.2724	
C:\GC-14\Data\2023\081523\081514.D	Calibration	8	x	150676	1000.0000	1.2761	
C:\GC-14\Data\2023\081523\081515.D	Calibration	9	x	357908	2000.0000	1.3086	
C:\GC-14\Data\2023\081523\081516.D	Calibration	10	x	940307	5000.0000	1.4028	

Calibration Report

Batch Path	C:\GC-14\Data\2023\081523\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	8/16/2023 8:02 AM	Reporter Name	FA\GC14
Report Time	8/16/2023 8:08:01 AM	Batch State	Processed
Last Calib Update	8/16/2023 8:01 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

bis(2-Ethylhexyl) phthalate %RSE = 21.6

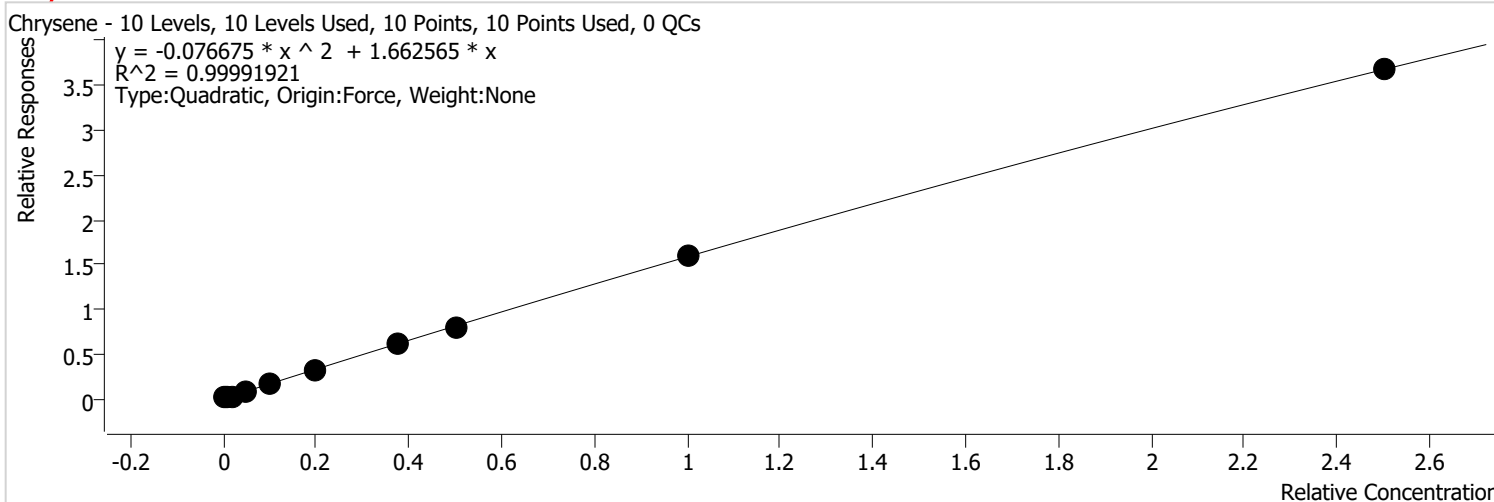


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\081523\081507.D	Calibration	1	x	1275	10.0000	1.2445	
C:\GC-14\Data\2023\081523\081508.D	Calibration	2	x	1482	20.0000	0.7399	
C:\GC-14\Data\2023\081523\081509.D	Calibration	3	x	2917	40.0000	0.7307	
C:\GC-14\Data\2023\081523\081510.D	Calibration	4	x	8153	100.0000	0.8542	
C:\GC-14\Data\2023\081523\081511.D	Calibration	5	x	15923	200.0000	0.8465	
C:\GC-14\Data\2023\081523\081512.D	Calibration	6	x	33121	400.0000	0.8188	
C:\GC-14\Data\2023\081523\081513.D	Calibration	7	x	75539	750.0000	0.9436	
C:\GC-14\Data\2023\081523\081514.D	Calibration	8	x	96951	1000.0000	0.9196	
C:\GC-14\Data\2023\081523\081515.D	Calibration	9	x	265174	2000.0000	1.0438	
C:\GC-14\Data\2023\081523\081516.D	Calibration	10	x	720276	5000.0000	1.0701	

Calibration Report

Batch Path	C:\GC-14\Data\2023\081523\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	8/16/2023 8:02 AM	Reporter Name	FA\GC14
Report Time	8/16/2023 8:08:01 AM	Batch State	Processed
Last Calib Update	8/16/2023 8:01 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Chrysene %RSE = 8.8

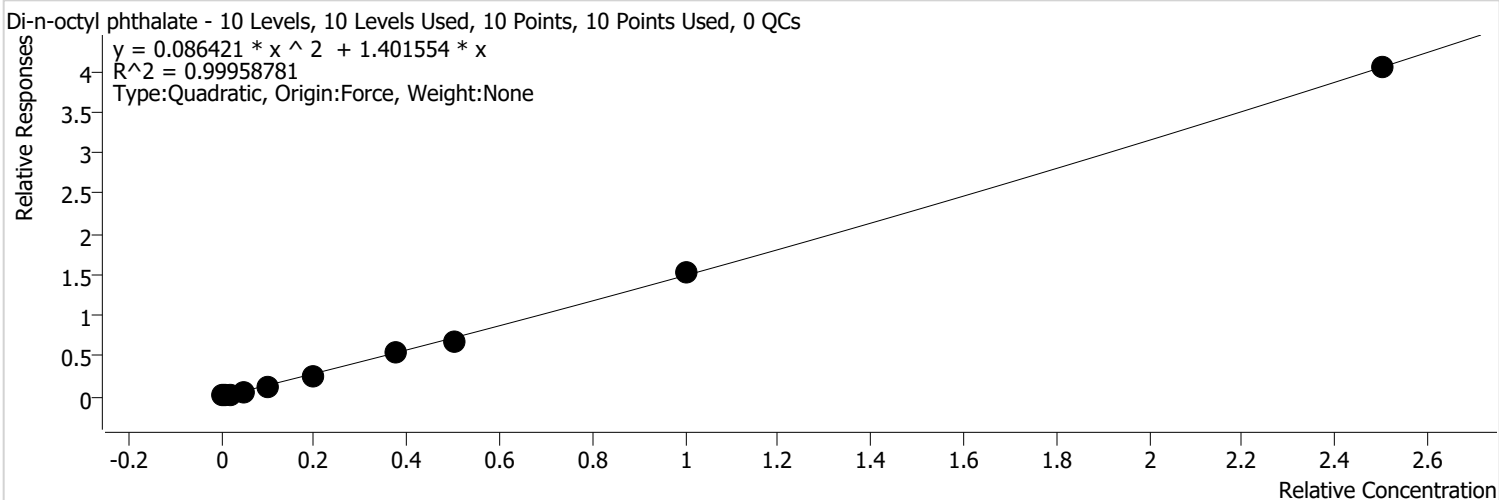


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\081523\081507.D	Calibration	1	x	1720	10.0000	1.6788	
C:\GC-14\Data\2023\081523\081508.D	Calibration	2	x	2877	20.0000	1.4359	
C:\GC-14\Data\2023\081523\081509.D	Calibration	3	x	5567	40.0000	1.3944	
C:\GC-14\Data\2023\081523\081510.D	Calibration	4	x	14999	100.0000	1.5714	
C:\GC-14\Data\2023\081523\081511.D	Calibration	5	x	29041	200.0000	1.5439	
C:\GC-14\Data\2023\081523\081512.D	Calibration	6	x	64173	400.0000	1.5865	
C:\GC-14\Data\2023\081523\081513.D	Calibration	7	x	128482	750.0000	1.6049	
C:\GC-14\Data\2023\081523\081514.D	Calibration	8	x	168797	1000.0000	1.6011	
C:\GC-14\Data\2023\081523\081515.D	Calibration	9	x	407872	2000.0000	1.6054	
C:\GC-14\Data\2023\081523\081516.D	Calibration	10	x	989435	5000.0000	1.4699	

Calibration Report

Batch Path	C:\GC-14\Data\2023\081523\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	8/16/2023 8:02 AM	Reporter Name	FA\GC14
Report Time	8/16/2023 8:08:01 AM	Batch State	Processed
Last Calib Update	8/16/2023 8:01 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Di-n-octyl phthalate %RSE = 15.7



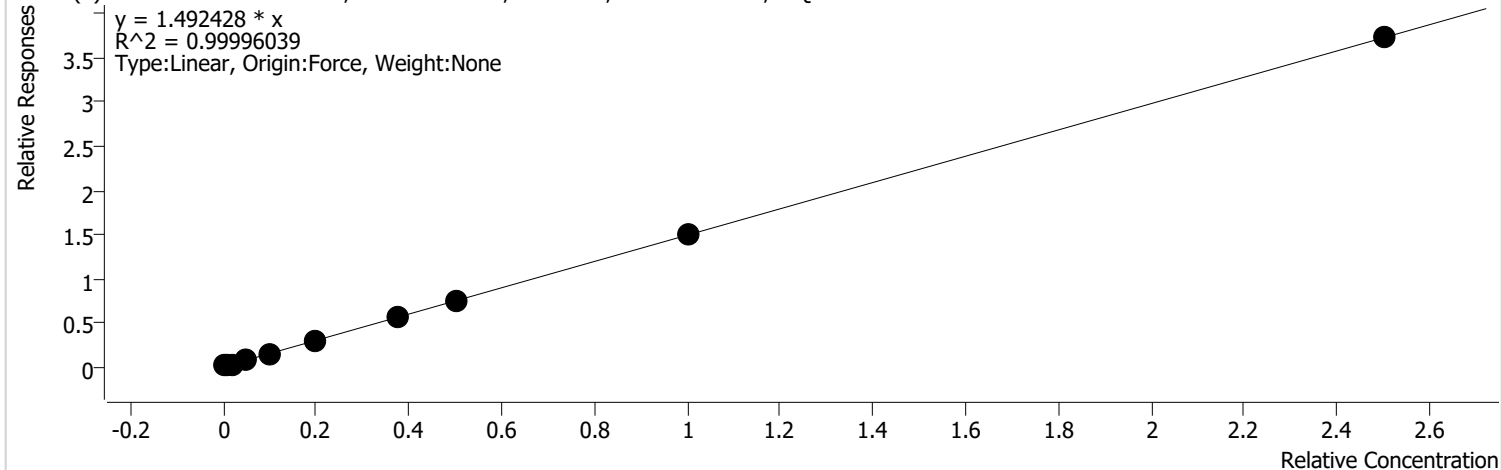
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\081523\081507.D	Calibration	1	x	1312	10.0000	1.2809	
C:\GC-14\Data\2023\081523\081508.D	Calibration	2	x	2092	20.0000	1.0444	
C:\GC-14\Data\2023\081523\081509.D	Calibration	3	x	4304	40.0000	1.0781	
C:\GC-14\Data\2023\081523\081510.D	Calibration	4	x	11900	100.0000	1.2467	
C:\GC-14\Data\2023\081523\081511.D	Calibration	5	x	23715	200.0000	1.2608	
C:\GC-14\Data\2023\081523\081512.D	Calibration	6	x	49485	400.0000	1.2234	
C:\GC-14\Data\2023\081523\081513.D	Calibration	7	x	115358	750.0000	1.4409	
C:\GC-14\Data\2023\081523\081514.D	Calibration	8	x	142820	1000.0000	1.3547	
C:\GC-14\Data\2023\081523\081515.D	Calibration	9	x	389194	2000.0000	1.5319	
C:\GC-14\Data\2023\081523\081516.D	Calibration	10	x	1087475	5000.0000	1.6156	

Calibration Report

Batch Path	C:\GC-14\Data\2023\081523\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	8/16/2023 8:02 AM	Reporter Name	FA\GC14
Report Time	8/16/2023 8:08:01 AM	Batch State	Processed
Last Calib Update	8/16/2023 8:01 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

benzo (b) fluoranthene %RSE = 8.6

benzo (b) fluoranthene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



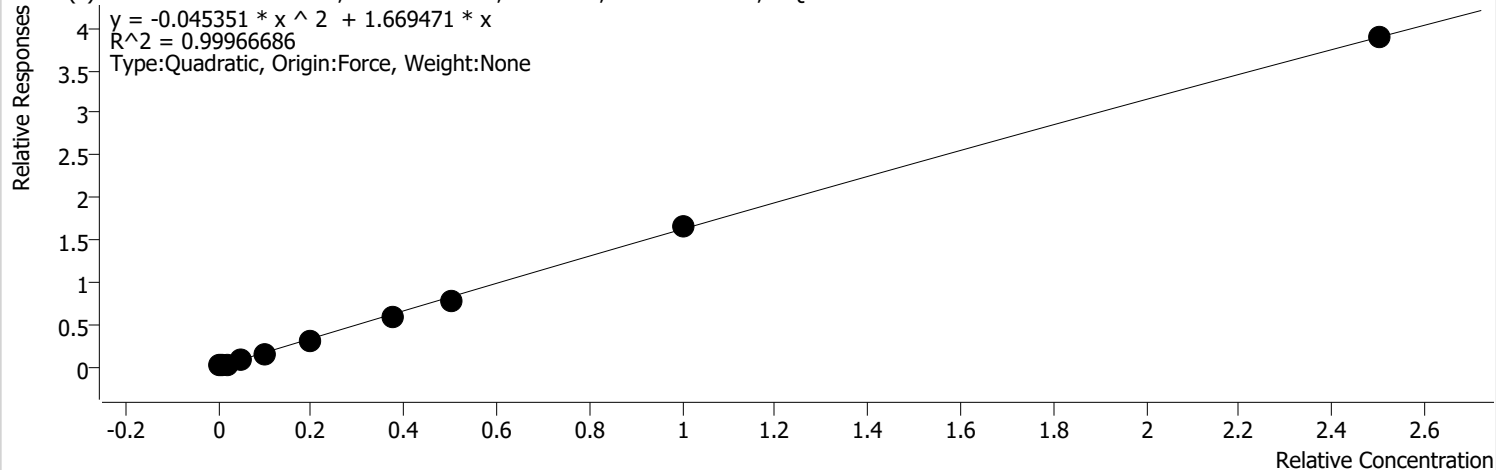
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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C:\GC-14\Data\2023\081523\081508.D	Calibration	2	x	2495	20.0000	1.2453	
C:\GC-14\Data\2023\081523\081509.D	Calibration	3	x	5088	40.0000	1.2744	
C:\GC-14\Data\2023\081523\081510.D	Calibration	4	x	13554	100.0000	1.4200	
C:\GC-14\Data\2023\081523\081511.D	Calibration	5	x	26228	200.0000	1.3944	
C:\GC-14\Data\2023\081523\081512.D	Calibration	6	x	57140	400.0000	1.4127	
C:\GC-14\Data\2023\081523\081513.D	Calibration	7	x	121011	750.0000	1.5115	
C:\GC-14\Data\2023\081523\081514.D	Calibration	8	x	156326	1000.0000	1.4828	
C:\GC-14\Data\2023\081523\081515.D	Calibration	9	x	380214	2000.0000	1.4966	
C:\GC-14\Data\2023\081523\081516.D	Calibration	10	x	1004570	5000.0000	1.4924	

Calibration Report

Batch Path	C:\GC-14\Data\2023\081523\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	8/16/2023 8:02 AM	Reporter Name	FA\GC14
Report Time	8/16/2023 8:08:01 AM	Batch State	Processed
Last Calib Update	8/16/2023 8:01 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

benzo (k) fluoranthene %RSE = 13.4

benzo (k) fluoranthene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



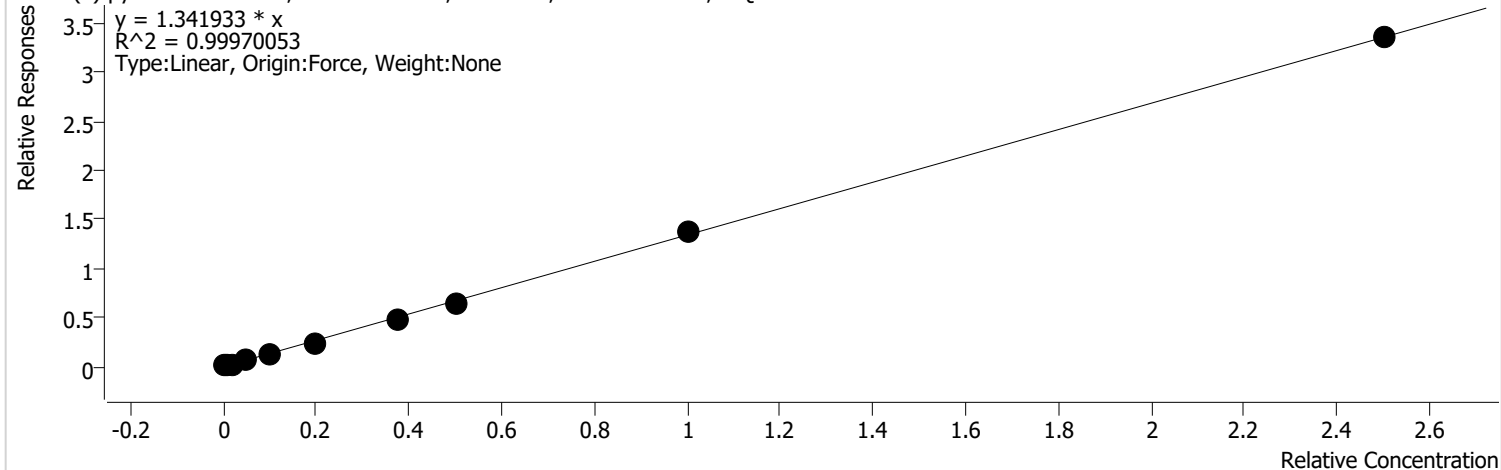
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\081523\081507.D	Calibration	1	x	1613	10.0000	1.5743	
C:\GC-14\Data\2023\081523\081508.D	Calibration	2	x	2668	20.0000	1.3316	
C:\GC-14\Data\2023\081523\081509.D	Calibration	3	x	5112	40.0000	1.2804	
C:\GC-14\Data\2023\081523\081510.D	Calibration	4	x	14303	100.0000	1.4985	
C:\GC-14\Data\2023\081523\081511.D	Calibration	5	x	28175	200.0000	1.4979	
C:\GC-14\Data\2023\081523\081512.D	Calibration	6	x	63793	400.0000	1.5771	
C:\GC-14\Data\2023\081523\081513.D	Calibration	7	x	126252	750.0000	1.5770	
C:\GC-14\Data\2023\081523\081514.D	Calibration	8	x	167127	1000.0000	1.5853	
C:\GC-14\Data\2023\081523\081515.D	Calibration	9	x	423881	2000.0000	1.6685	
C:\GC-14\Data\2023\081523\081516.D	Calibration	10	x	1046049	5000.0000	1.5541	

Calibration Report

Batch Path	C:\GC-14\Data\2023\081523\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	8/16/2023 8:02 AM	Reporter Name	FA\GC14
Report Time	8/16/2023 8:08:02 AM	Batch State	Processed
Last Calib Update	8/16/2023 8:01 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

benzo (a) pyrene %RSE = 12.0

benzo (a) pyrene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



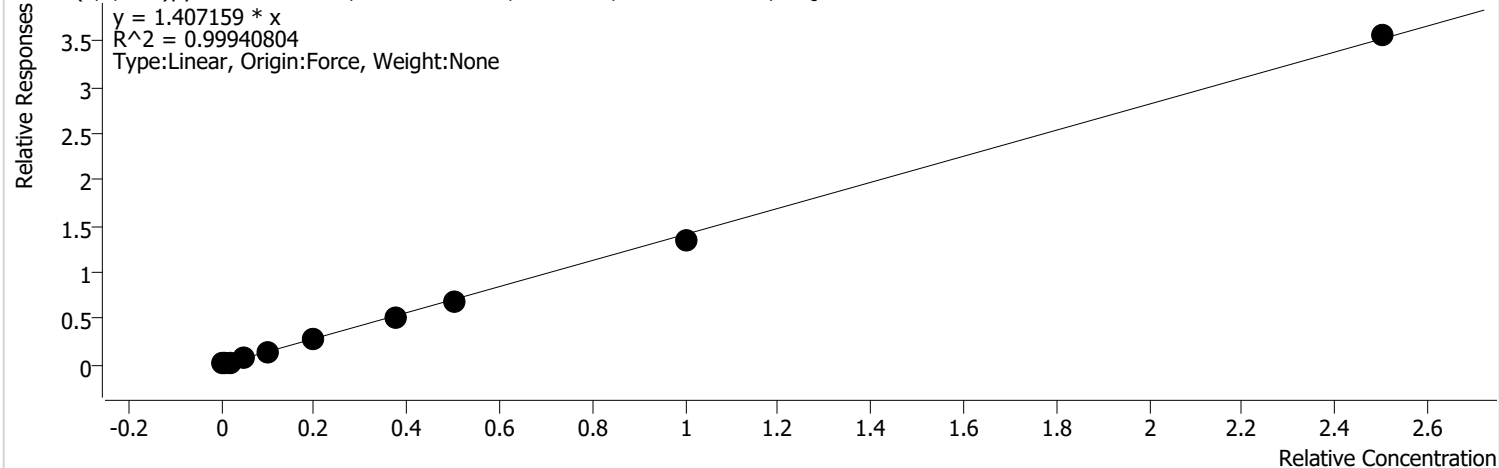
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\081523\081507.D	Calibration	1	x	1294	10.0000	1.2629	
C:\GC-14\Data\2023\081523\081508.D	Calibration	2	x	2099	20.0000	1.0477	
C:\GC-14\Data\2023\081523\081509.D	Calibration	3	x	4346	40.0000	1.0886	
C:\GC-14\Data\2023\081523\081510.D	Calibration	4	x	11685	100.0000	1.2242	
C:\GC-14\Data\2023\081523\081511.D	Calibration	5	x	22772	200.0000	1.2107	
C:\GC-14\Data\2023\081523\081512.D	Calibration	6	x	49303	400.0000	1.2189	
C:\GC-14\Data\2023\081523\081513.D	Calibration	7	x	105130	750.0000	1.3132	
C:\GC-14\Data\2023\081523\081514.D	Calibration	8	x	135923	1000.0000	1.2893	
C:\GC-14\Data\2023\081523\081515.D	Calibration	9	x	349986	2000.0000	1.3776	
C:\GC-14\Data\2023\081523\081516.D	Calibration	10	x	901997	5000.0000	1.3400	

Calibration Report

Batch Path	C:\GC-14\Data\2023\081523\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	8/16/2023 8:02 AM	Reporter Name	FA\GC14
Report Time	8/16/2023 8:08:02 AM	Batch State	Processed
Last Calib Update	8/16/2023 8:01 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Indeno(1,2,3-cd)pyrene %RSE = 8.8

Indeno(1,2,3-cd)pyrene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



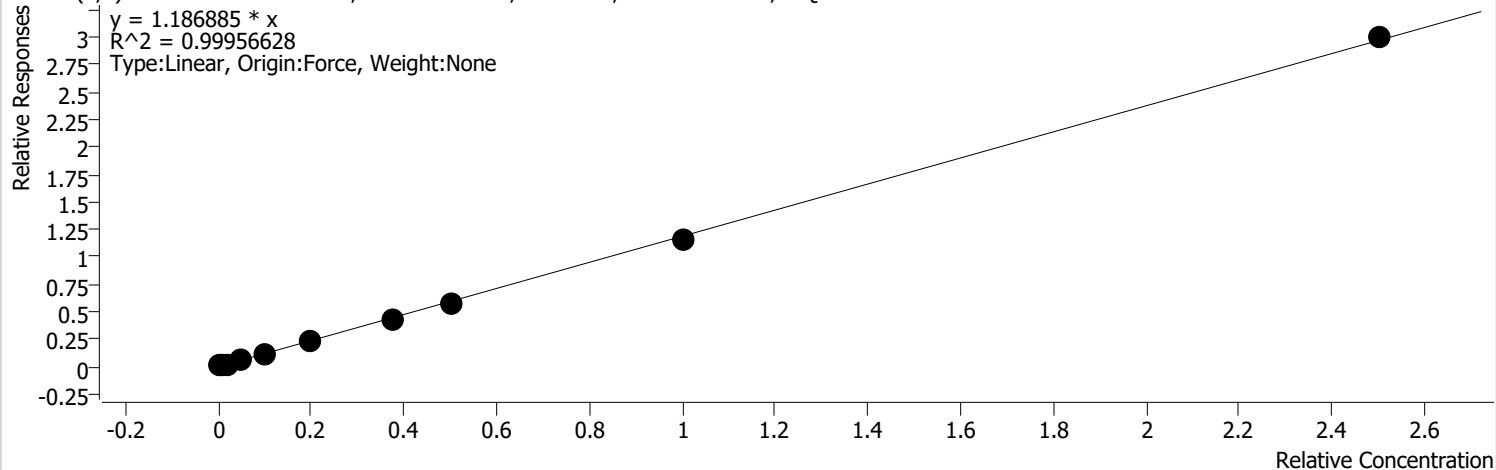
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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C:\GC-14\Data\2023\081523\081509.D	Calibration	3	x	5724	40.0000	1.1899	
C:\GC-14\Data\2023\081523\081510.D	Calibration	4	x	15026	100.0000	1.3113	
C:\GC-14\Data\2023\081523\081511.D	Calibration	5	x	29341	200.0000	1.3051	
C:\GC-14\Data\2023\081523\081512.D	Calibration	6	x	66997	400.0000	1.3807	
C:\GC-14\Data\2023\081523\081513.D	Calibration	7	x	131081	750.0000	1.3375	
C:\GC-14\Data\2023\081523\081514.D	Calibration	8	x	177674	1000.0000	1.3647	
C:\GC-14\Data\2023\081523\081515.D	Calibration	9	x	425106	2000.0000	1.3442	
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Calibration Report

Batch Path	C:\GC-14\Data\2023\081523\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	8/16/2023 8:02 AM	Reporter Name	FA\GC14
Report Time	8/16/2023 8:08:02 AM	Batch State	Processed
Last Calib Update	8/16/2023 8:01 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Dibenz (a,h) anthracene %RSE = 10.1

Dibenz (a,h) anthracene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



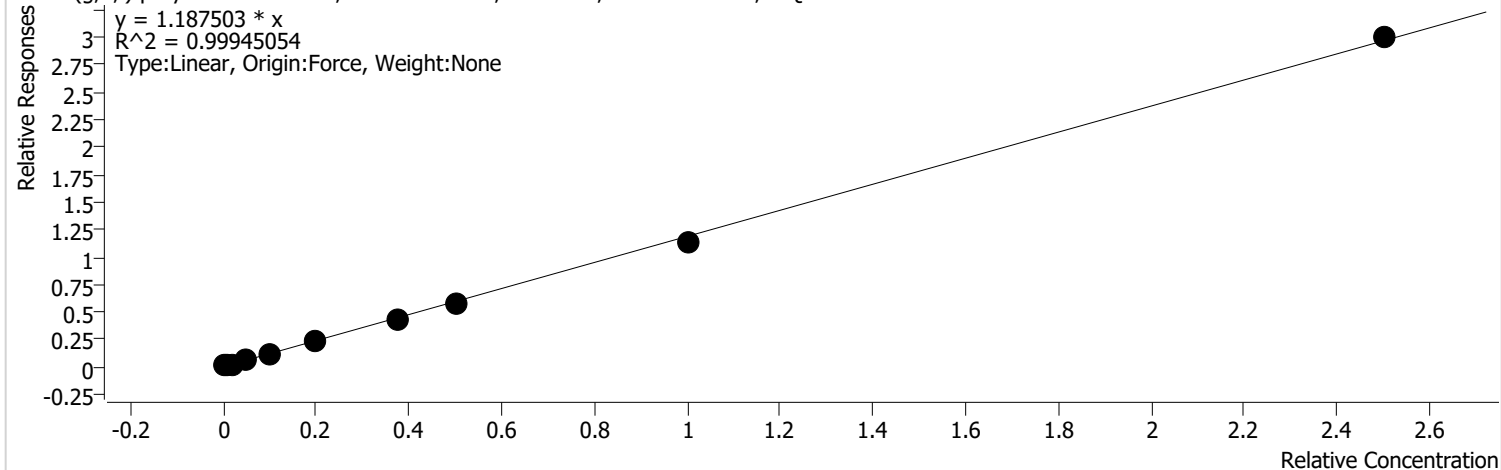
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\081523\081507.D	Calibration	1	x	1424	10.0000	1.1480	
C:\GC-14\Data\2023\081523\081508.D	Calibration	2	x	2393	20.0000	0.9904	
C:\GC-14\Data\2023\081523\081509.D	Calibration	3	x	4711	40.0000	0.9794	
C:\GC-14\Data\2023\081523\081510.D	Calibration	4	x	12444	100.0000	1.0859	
C:\GC-14\Data\2023\081523\081511.D	Calibration	5	x	24274	200.0000	1.0797	
C:\GC-14\Data\2023\081523\081512.D	Calibration	6	x	55289	400.0000	1.1394	
C:\GC-14\Data\2023\081523\081513.D	Calibration	7	x	110172	750.0000	1.1242	
C:\GC-14\Data\2023\081523\081514.D	Calibration	8	x	148332	1000.0000	1.1394	
C:\GC-14\Data\2023\081523\081515.D	Calibration	9	x	363551	2000.0000	1.1496	
C:\GC-14\Data\2023\081523\081516.D	Calibration	10	x	946871	5000.0000	1.1967	

Calibration Report

Batch Path	C:\GC-14\Data\2023\081523\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	8/16/2023 8:02 AM	Reporter Name	FA\GC14
Report Time	8/16/2023 8:08:02 AM	Batch State	Processed
Last Calib Update	8/16/2023 8:01 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Benzo (g,h,i) perylene %RSE = 7.8

Benzo (g,h,i) perylene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs




Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\081523\081507.D	Calibration	1	x	1665	10.0000	1.3424	
C:\GC-14\Data\2023\081523\081508.D	Calibration	2	x	2712	20.0000	1.1223	
C:\GC-14\Data\2023\081523\081509.D	Calibration	3	x	5018	40.0000	1.0432	
C:\GC-14\Data\2023\081523\081510.D	Calibration	4	x	12889	100.0000	1.1247	
C:\GC-14\Data\2023\081523\081511.D	Calibration	5	x	24940	200.0000	1.1093	
C:\GC-14\Data\2023\081523\081512.D	Calibration	6	x	56608	400.0000	1.1666	
C:\GC-14\Data\2023\081523\081513.D	Calibration	7	x	109491	750.0000	1.1172	
C:\GC-14\Data\2023\081523\081514.D	Calibration	8	x	148051	1000.0000	1.1372	
C:\GC-14\Data\2023\081523\081515.D	Calibration	9	x	361189	2000.0000	1.1421	
C:\GC-14\Data\2023\081523\081516.D	Calibration	10	x	948417	5000.0000	1.1987	

Semivolatile Calibration

Date: 8/11/23	Cal	ICV
Analyst: SRH	8270 Megamix: 27433	8270 Megamix: 28486
MeCl2: 30017645	2,4-DNP: 27477	2,4-DNP: 28196
8270 Surrogate: 28415	Benzoic Acid: 27263	Benzoic Acid: 28493
Internal Standard: 28717	Benzidines: 23501	Benzidines: 28634

	Spike Conc. (ppb)	BN/Acid Surr Conc. (ppb)	2° Spike (uL)	B/N Surr (uL)	Internal Standard (uL)	Remove (uL)	Final Vol. (mL)	Comments
GC-21	2	2/1	0.2	--	10	10.2	1	For PAH-LL Cal Only
121	10	10/5	1	--	10	11	1	
122	20	20/10	2	--	10	12	1	
123	40	40/20	4	--	10	14	1	
124	100	100/50	10	--	10	20	1	
125	200	200/100	20	--	10	30	1	
126	400	400/200	40	--	10	50	1	
127	750	750/375	75	--	10	85	1	
128	1000	1000/500	100	--	10	110	1	
129	2000	2000/1000	200	--	10	210	1	
130	5000	5000/2500	500	--	10	510	1	
131	ICB	1000/500		5	10	15	1	
140	ICV (1000 ppb)	1000/500	100 (2° SS)	--	10	110	1	

	Mega Mix (uL)	2,4-DNP (uL)	Benzoic Acid	8270 Surr	Benzidine	Final
2° Intermediate (cal)	100	100	100	500	50	10
2° Intermediate (SS)	10	10	10	50	5	1

Signature and Date:  8/11/23

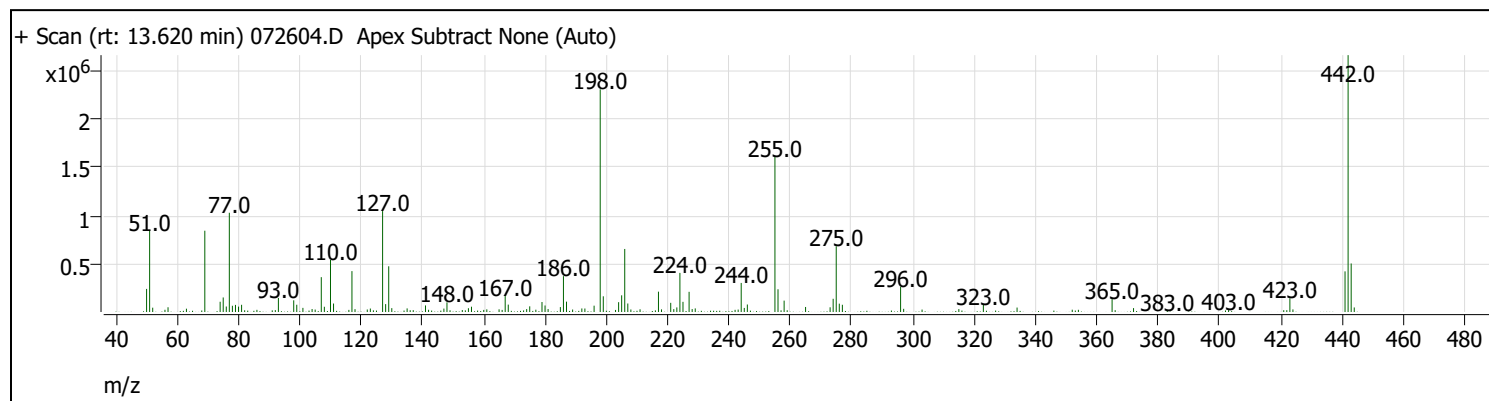
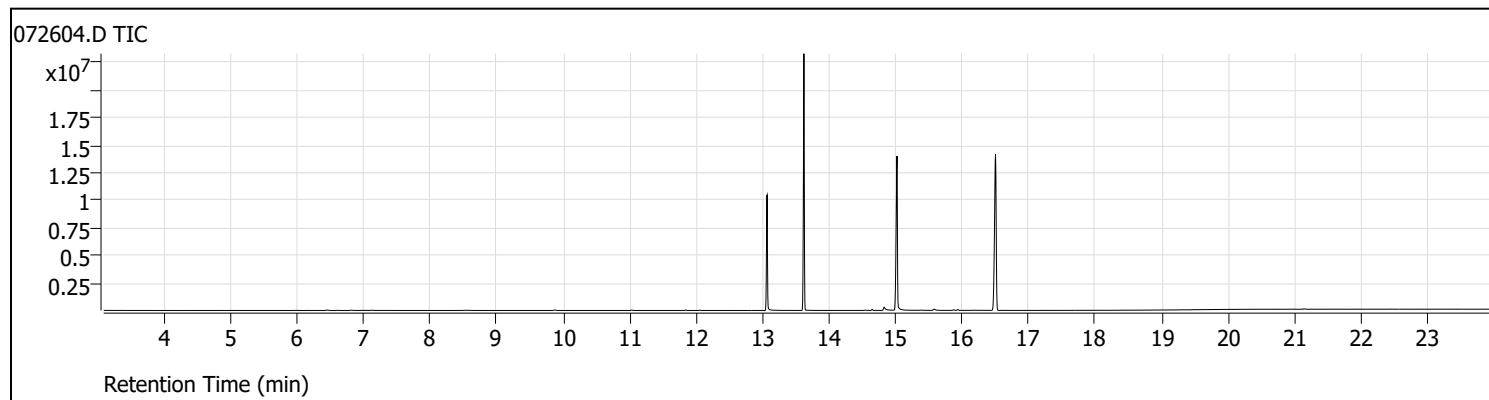
Signature: AK



Tunes

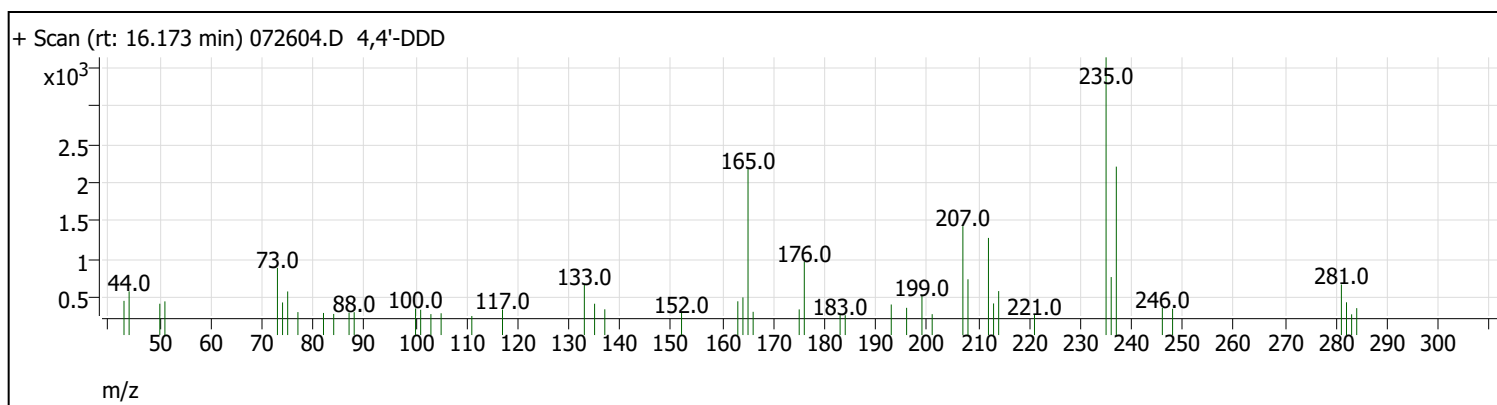
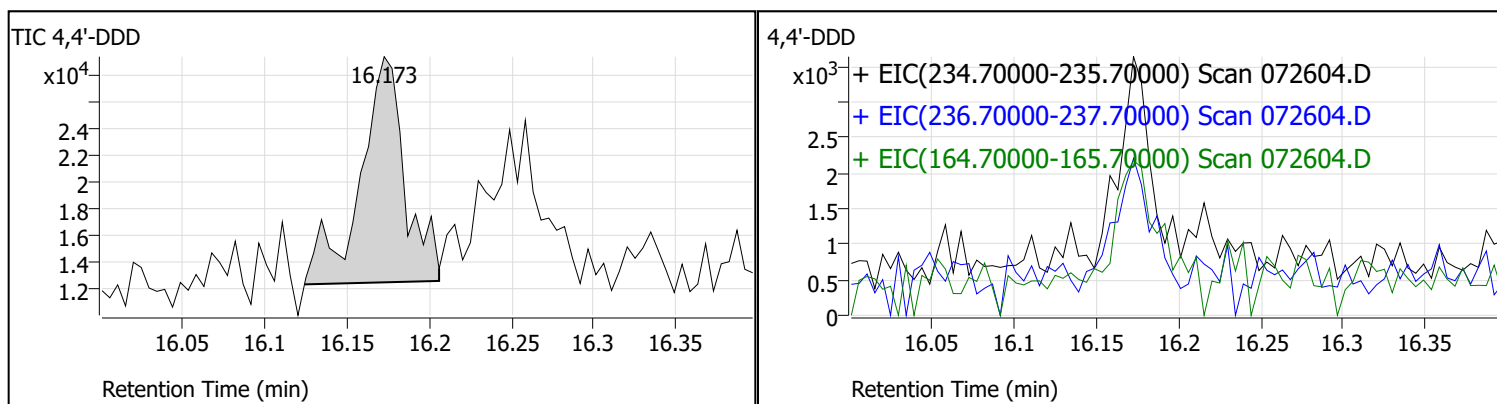
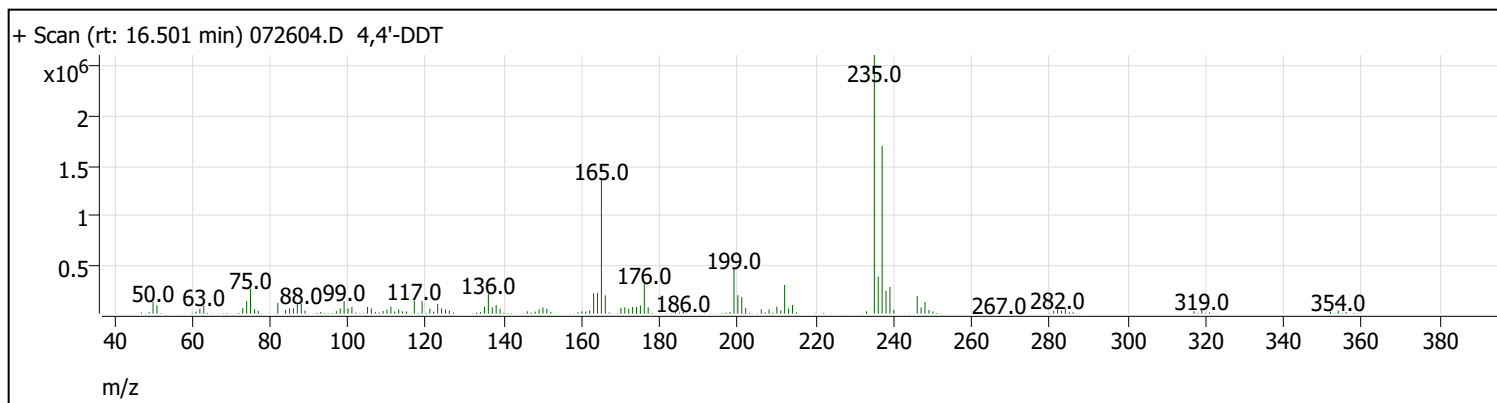
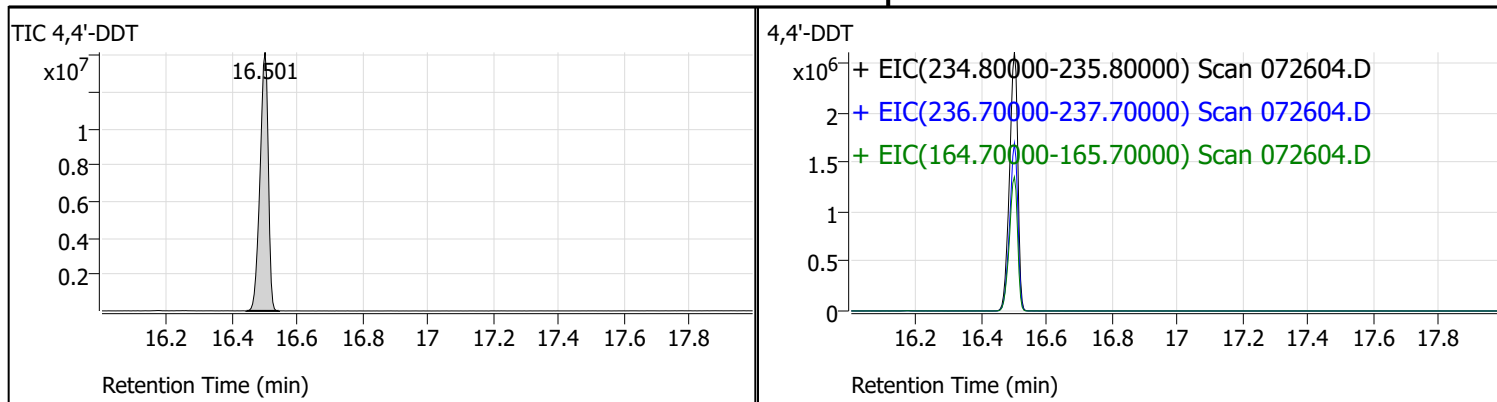
Tune Evaluation Report

Data Path: C:\GC-14\Data\2023\072623\072604.D
 Acq on: 7/26/2023 1:48:55 PM
 Operator: FA\GC14
 Sample: TUNE
 Inst Name: GC-14
 ALS Vial: 1
 Method: C:\GC-14\Methods\Quant
 Methods\TUNE\DFTPPwBreak&TailingGC218270E.m



Target Mass	Rel. To Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Pass/Fail
68	69	0	2	1.9	15715	Pass
70	69	0	2	0.5	3867	Pass
197	198	0	2	0.0	0	Pass
198	198	100	100	100.0	2311168	Pass
199	198	5	9	7.0	162880	Pass
365	442	1	100	5.0	133952	Pass
441	443	1E-10	150	83.8	421888	Pass
442	442	100	100	100.0	2665472	Pass
443	442	15	24	18.9	503552	Pass
69	69	100	100	100.0	843648	Pass

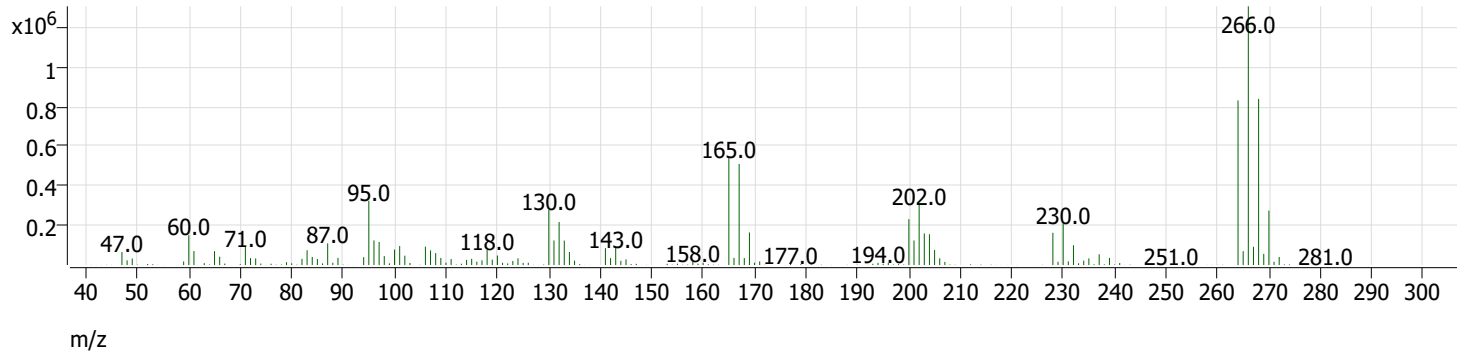
Tune Evaluation Report



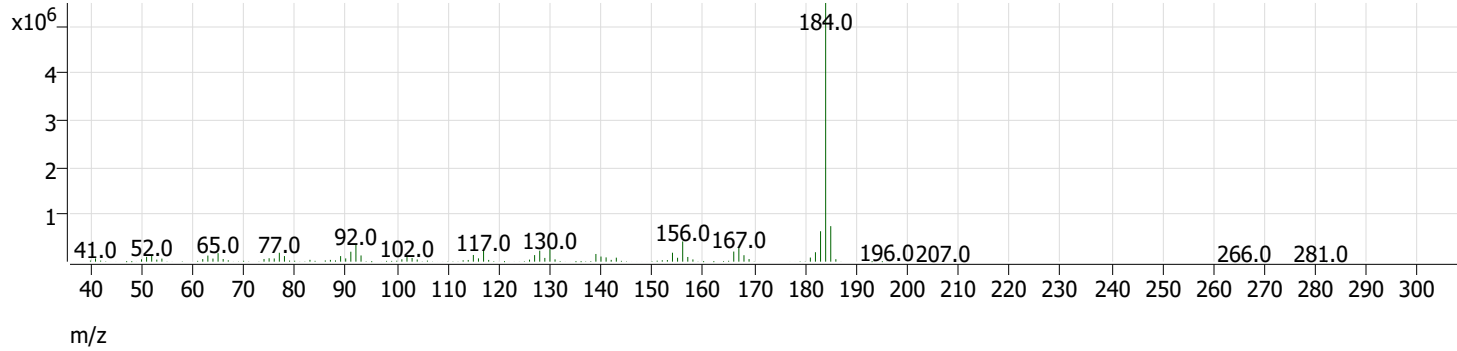
Compound Name	Expected RT	Observed RT	TIC Area	Breakdown %	Pass/Fail
4,4'-DDT	17.000	16.501	24908262	0.1	Pass
4,4'-DDD	16.200	16.173	31622		

Tune Evaluation Report

+ Scan (rt: 13.068 min) 072604.D Pentachlorophenol



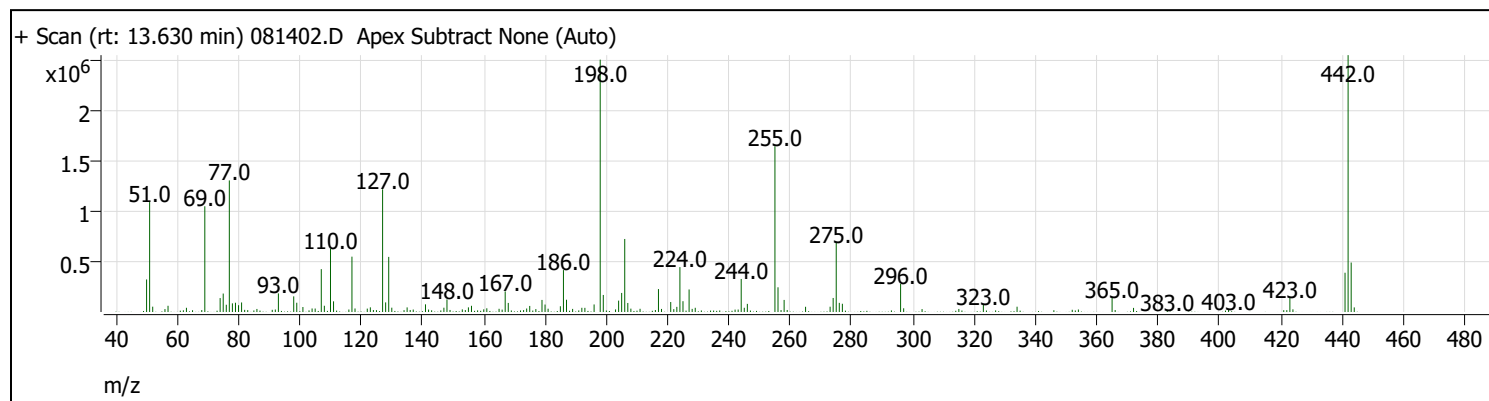
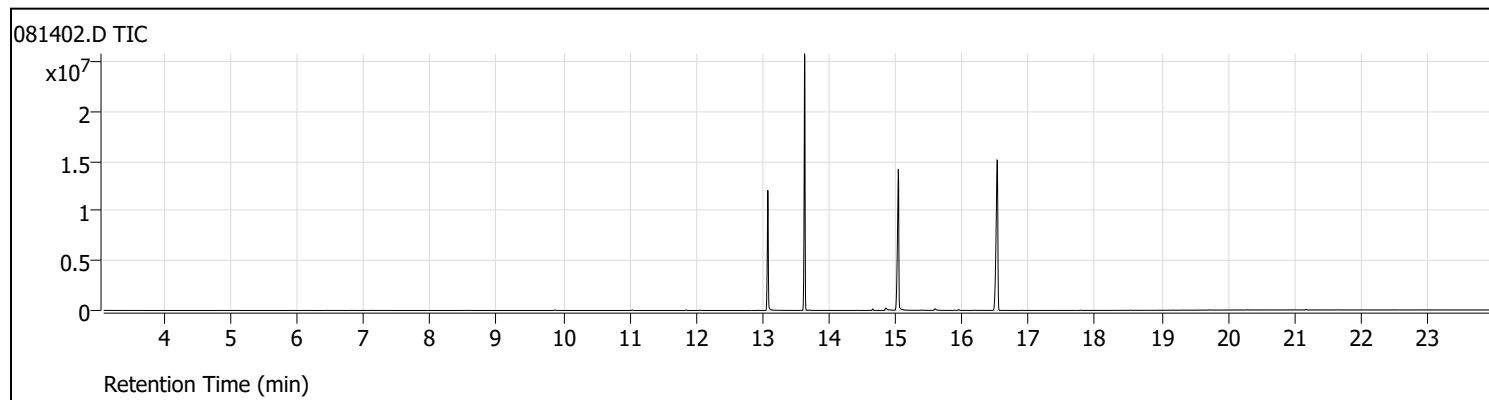
+ Scan (rt: 15.020 min) 072604.D Benzidine



Compound Name	Expected RT	Observed RT	Tailing Factor	PGF	Pass/Fail
Pentachlorophenol	13.092	13.068	0.6	8.8	Pass
Benzidine	15.049	15.020	0.5	6.7	Pass

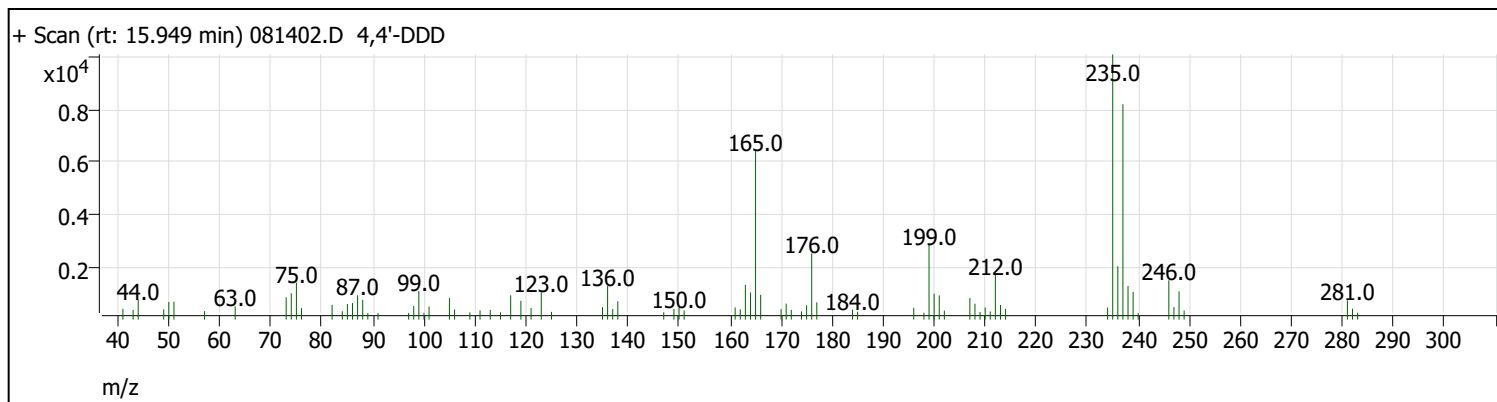
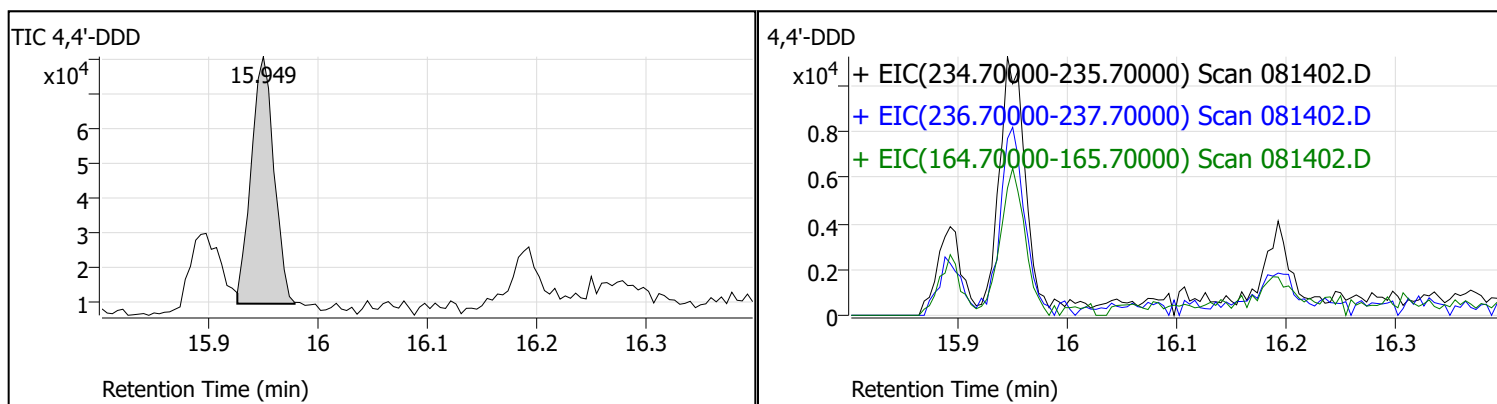
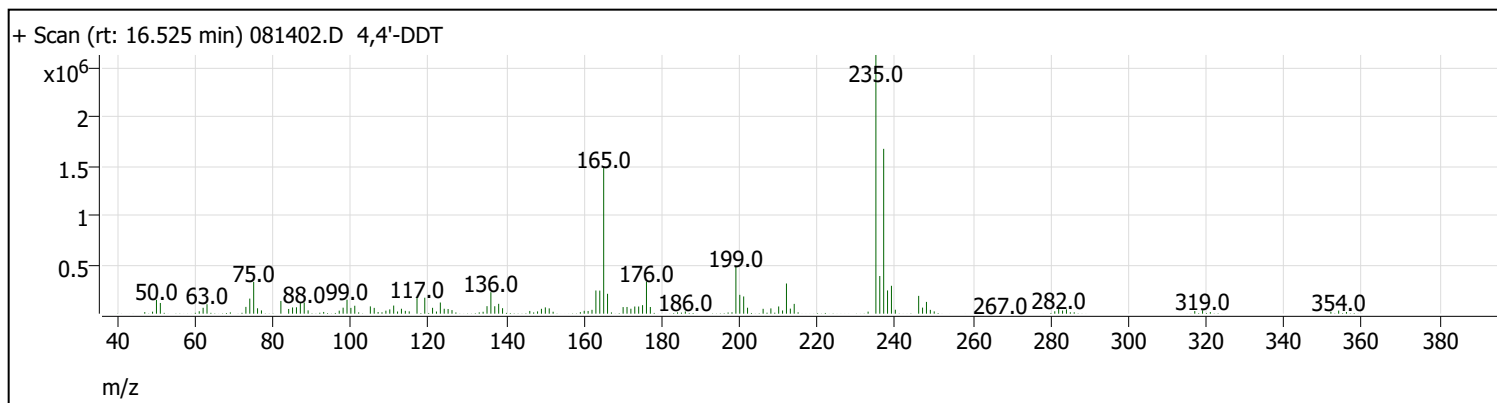
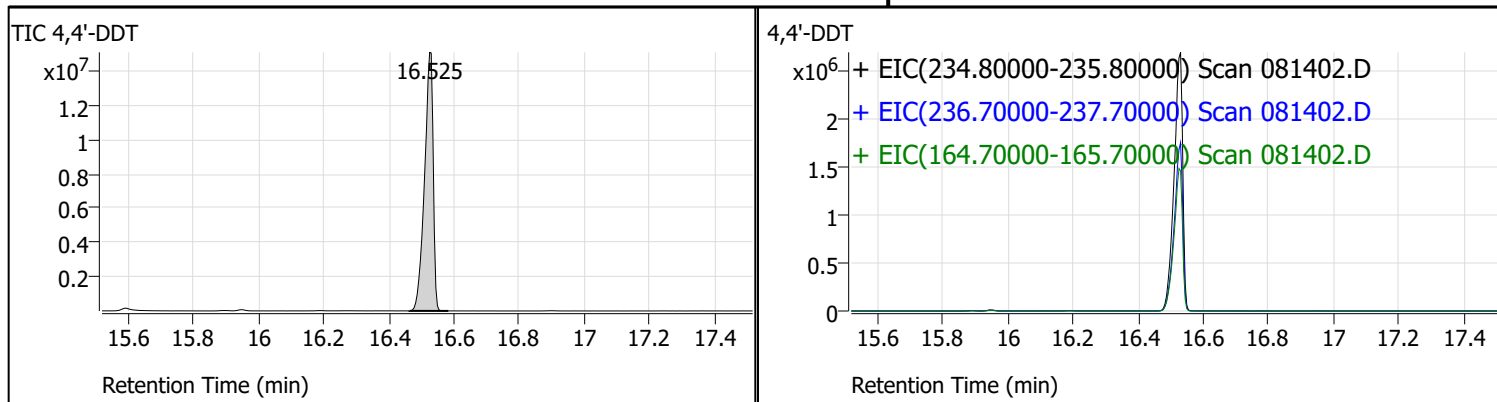
Tune Evaluation Report

Data Path: C:\GC-14\Data\2023\081423\081402.D
 Acq on: 8/14/2023 8:38:58 AM
 Operator: FA\GC14
 Sample: TUNE
 Inst Name: GC-14
 ALS Vial: 1
 Method: C:\GC-14\Methods\Quant
 Methods\TUNE\DFTPPwBreak&TailingGC218270E.m



Target Mass	Rel. To Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Pass/Fail
68	69	0	2	1.8	19016	Pass
70	69	0	2	0.6	6351	Pass
197	198	0	2	0.0	0	Pass
198	198	100	100	100.0	2501120	Pass
199	198	5	9	6.8	169024	Pass
365	442	1	100	5.5	139520	Pass
441	443	1E-10	150	79.4	389184	Pass
442	442	100	100	100.0	2545664	Pass
443	442	15	24	19.3	490112	Pass
69	69	100	100	100.0	1047936	Pass

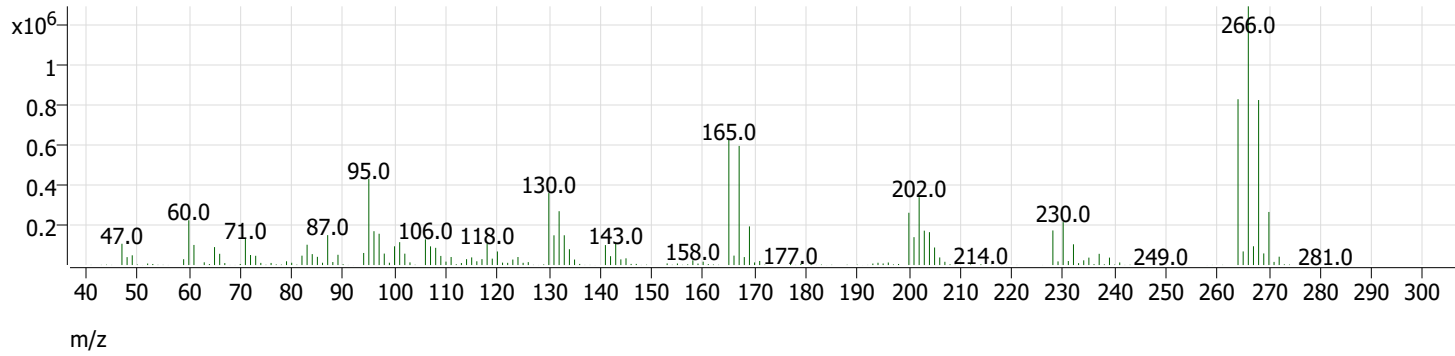
Tune Evaluation Report



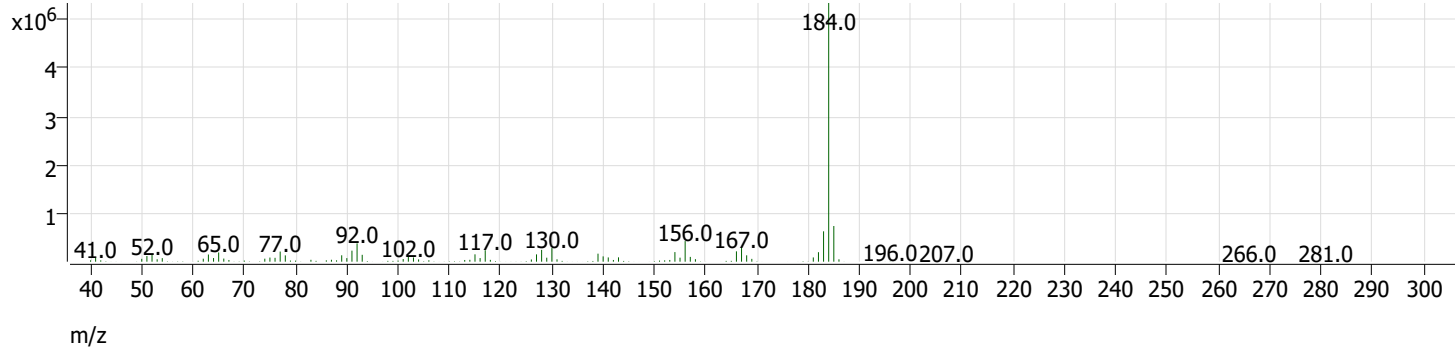
Compound Name	Expected RT	Observed RT	TIC Area	Breakdown %	Pass/Fail
4,4'-DDT	16.516	16.525	27750478	0.4	Pass
4,4'-DDD	16.100	15.949	103285		

Tune Evaluation Report

+ Scan (rt: 13.078 min) 081402.D Pentachlorophenol



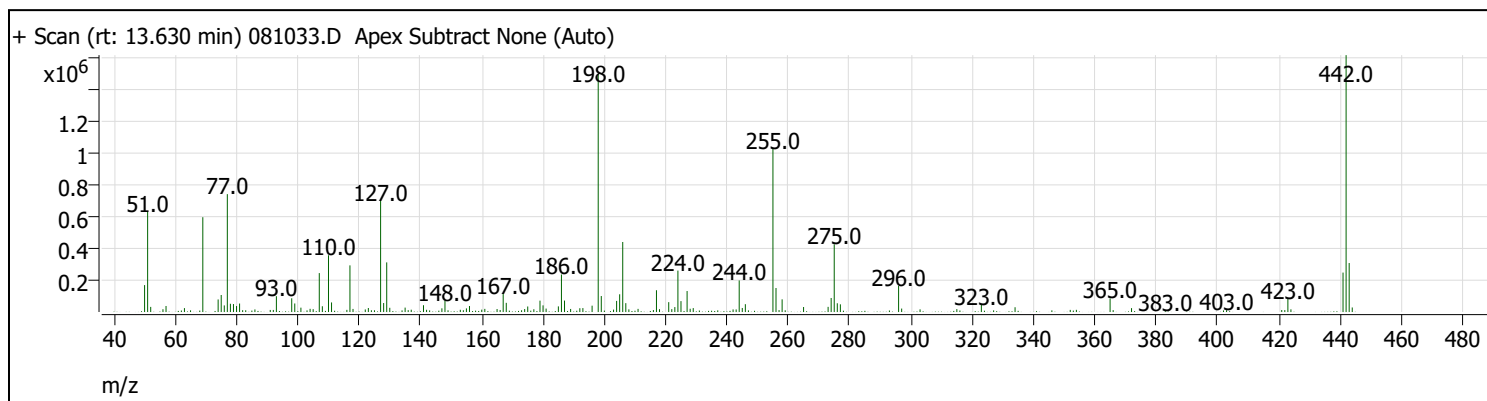
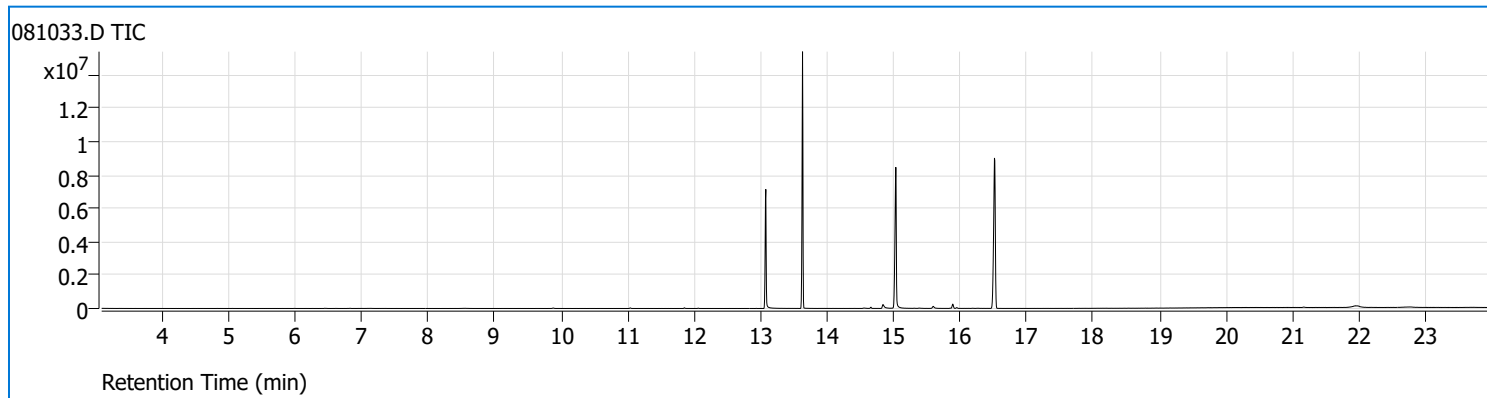
+ Scan (rt: 15.040 min) 081402.D Benzidine



Compound Name	Expected RT	Observed RT	Tailing Factor	PGF	Pass/Fail
Pentachlorophenol	13.092	13.078	0.8	5.5	Pass
Benzidine	15.049	15.040	0.5	4.1	Pass

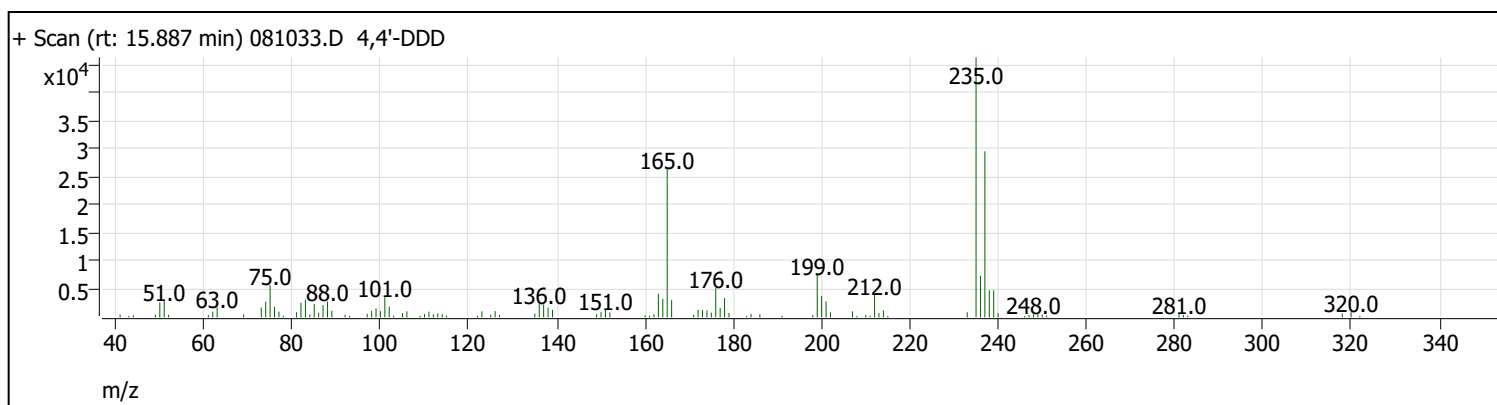
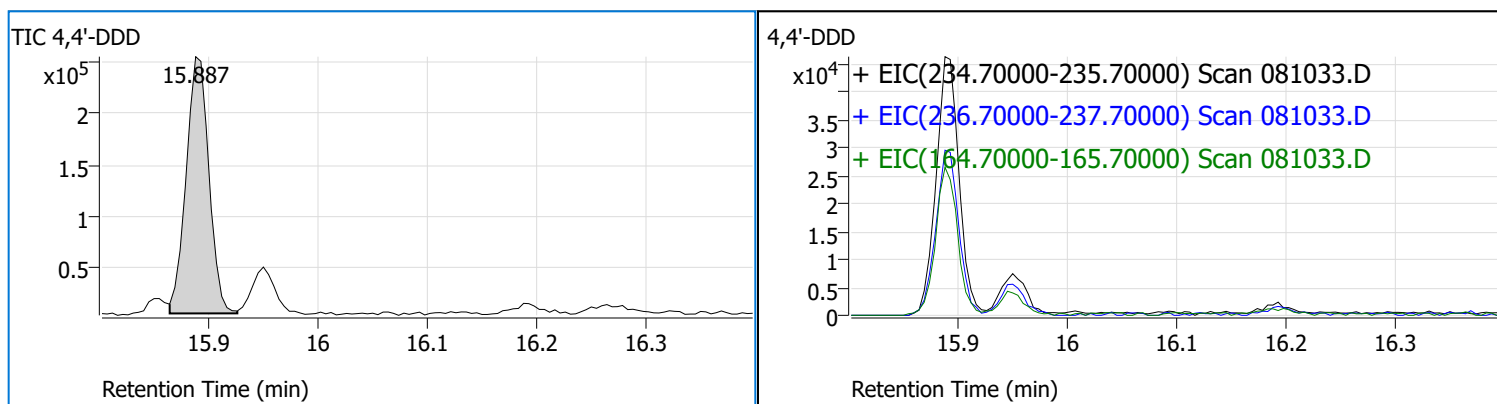
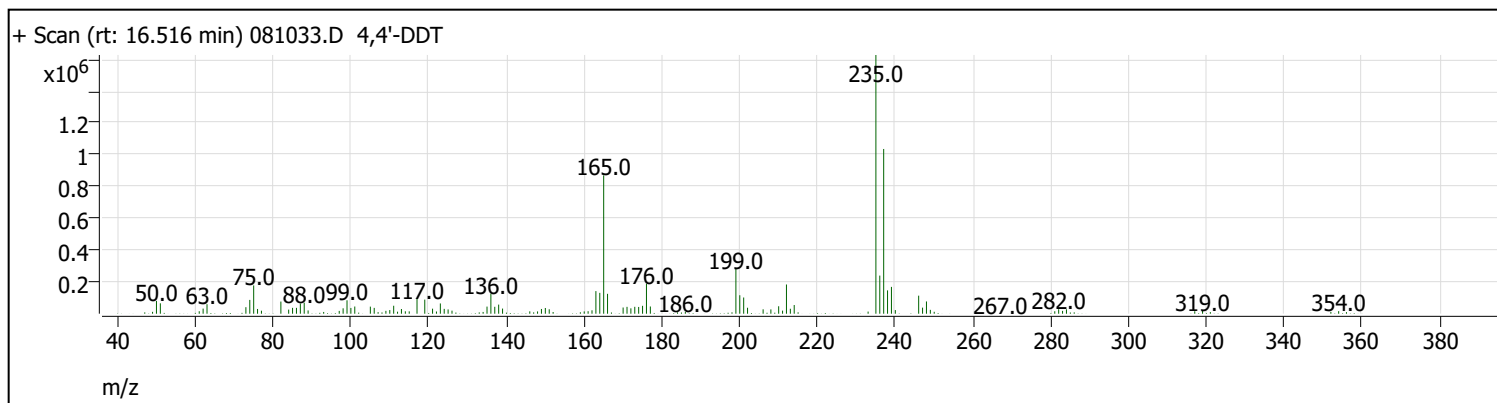
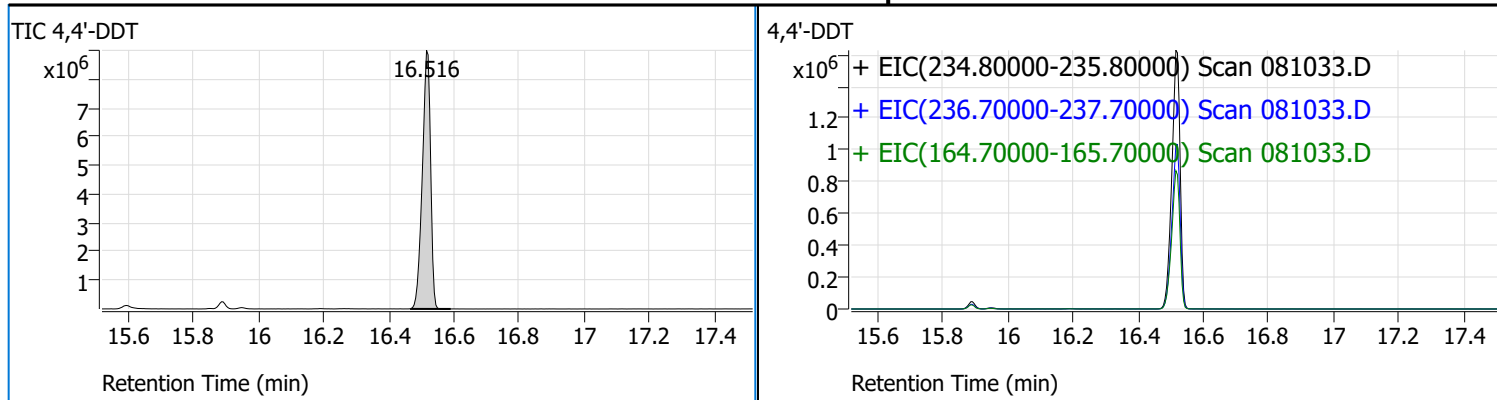
Tune Evaluation Report

Data Path: C:\GC-14\Data\2023\080923\081033.D
 Acq on: 8/10/2023 5:40:31 PM
 Operator: FA\GC14
 Sample: TUNE
 Inst Name: GC-14
 ALS Vial: 1
 Method: C:\GC-14\Methods\Quant
 Methods\TUNE\DFTPPwBreak&TailingGC218270E.m



Target Mass	Rel. To Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Pass/Fail
68	69	0	2	1.5	9024	Pass
70	69	0	2	0.5	2767	Pass
197	198	0	2	0.0	0	Pass
198	198	100	100	100.0	1501696	Pass
199	198	5	9	6.7	100752	Pass
365	442	1	100	5.3	85776	Pass
441	443	1E-10	150	80.5	248768	Pass
442	442	100	100	100.0	1619968	Pass
443	442	15	24	19.1	308992	Pass
69	69	100	100	100.0	597824	Pass

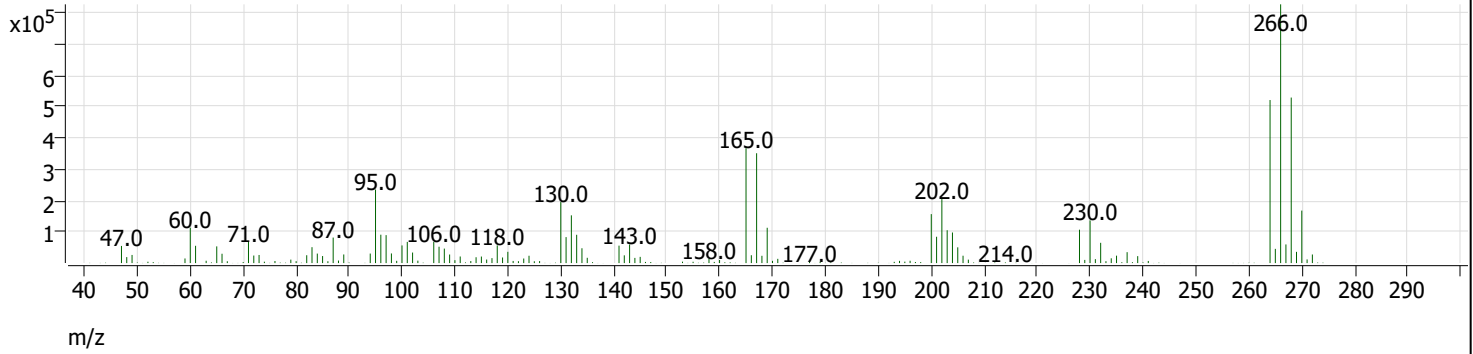
Tune Evaluation Report



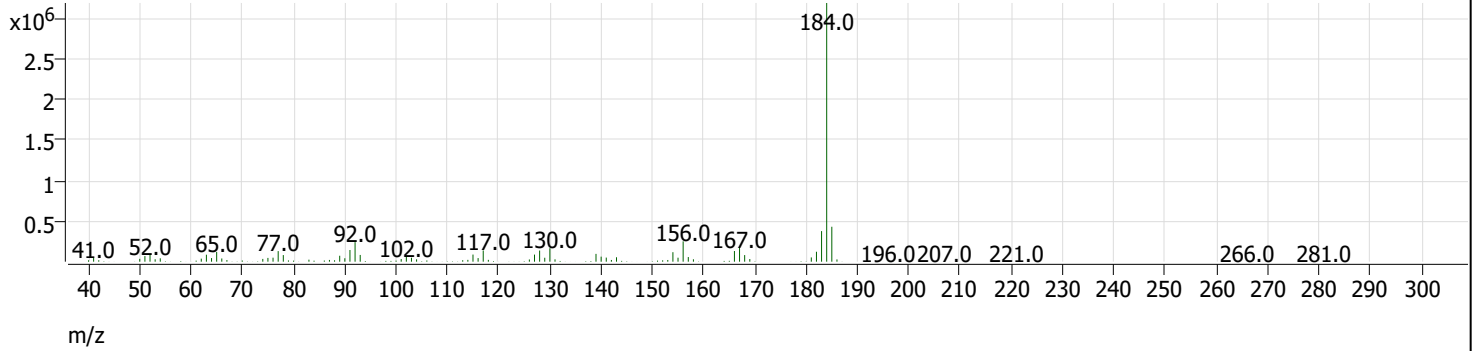
Compound Name	Expected RT	Observed RT	TIC Area	Breakdown %	Pass/Fail
4,4'-DDT	16.516	16.516	15789258	2.2	Pass
4,4'-DDD	16.100	15.887	360905		

Tune Evaluation Report

+ Scan (rt: 13.077 min) 081033.D Pentachlorophenol



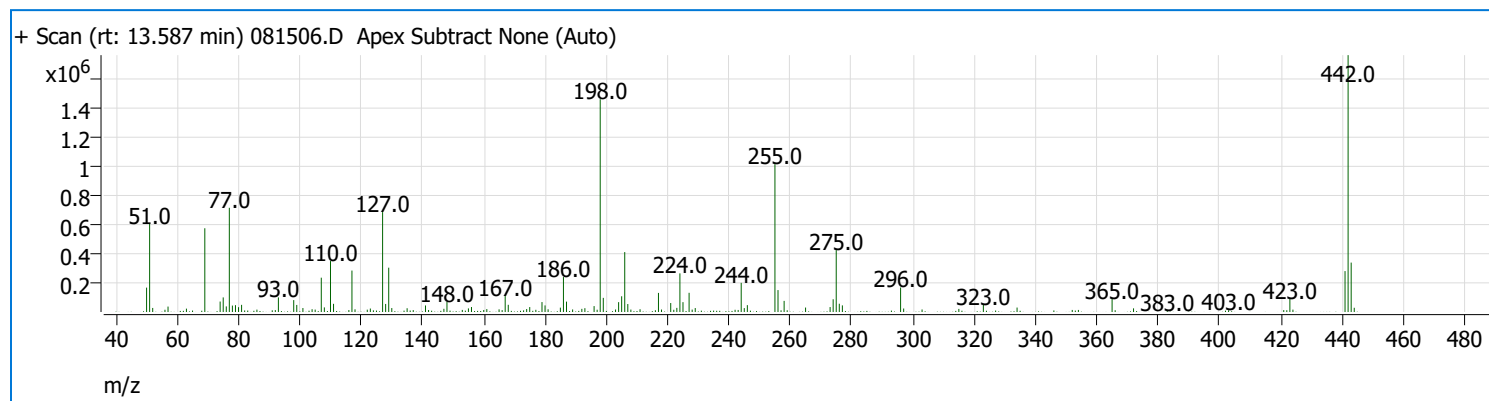
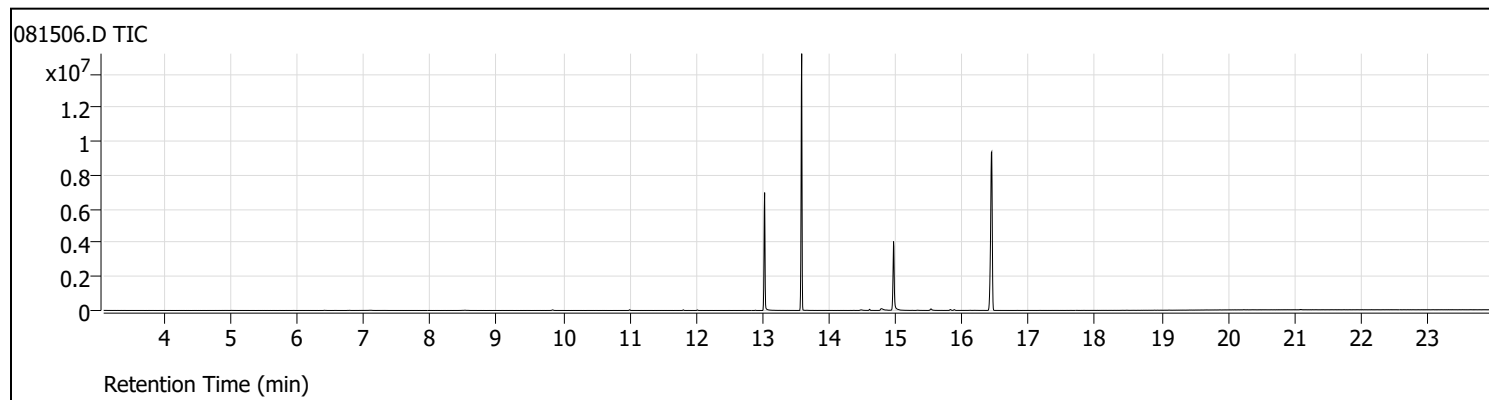
+ Scan (rt: 15.030 min) 081033.D Benzidine



Compound Name	Expected RT	Observed RT	Tailing Factor	PGF	Pass/Fail
Pentachlorophenol	13.092	13.077	0.7	8.3	Pass
Benzidine	15.049	15.030	0.7	6.0	Pass

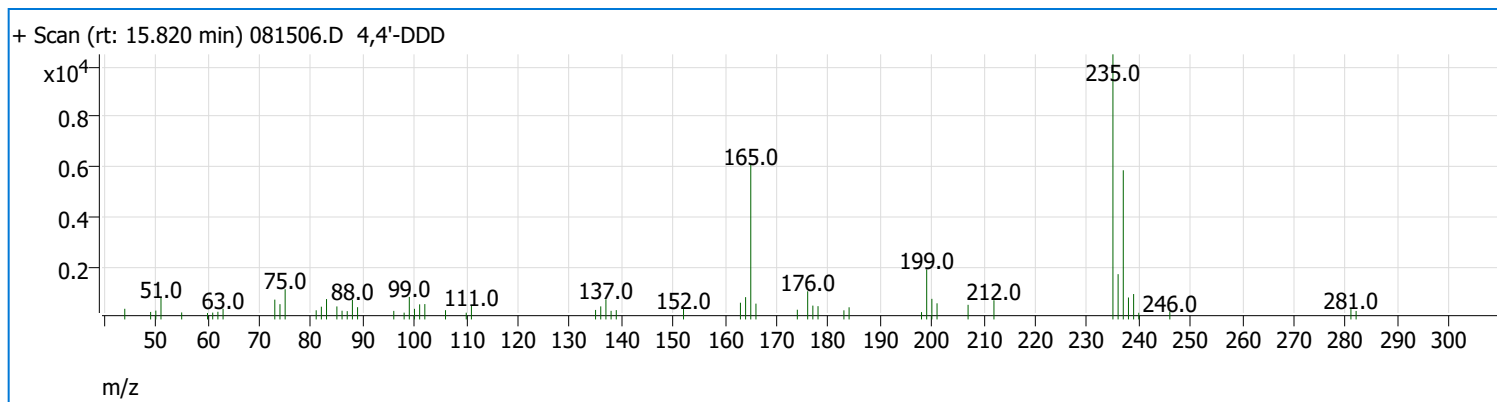
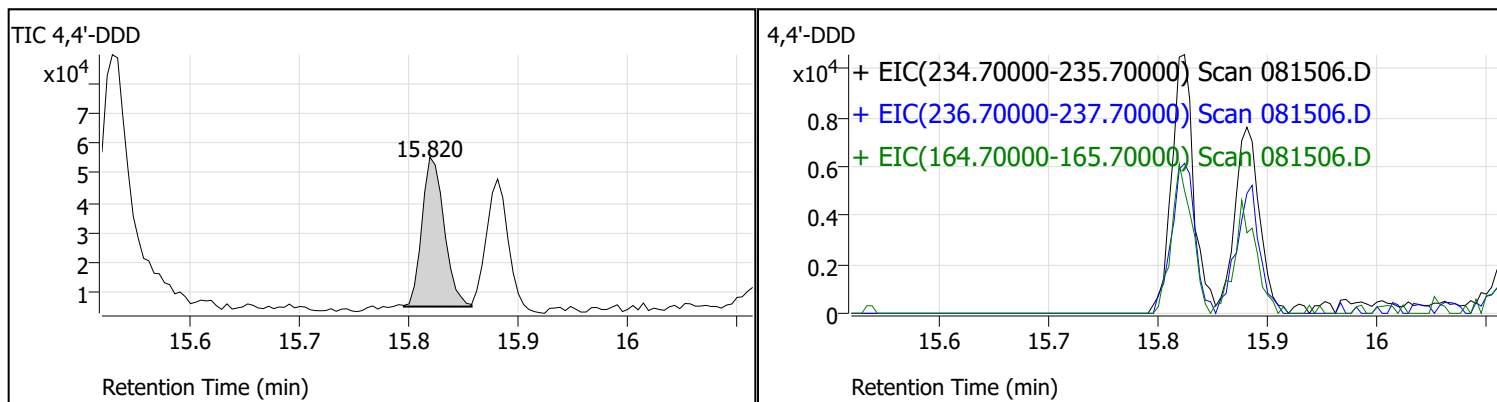
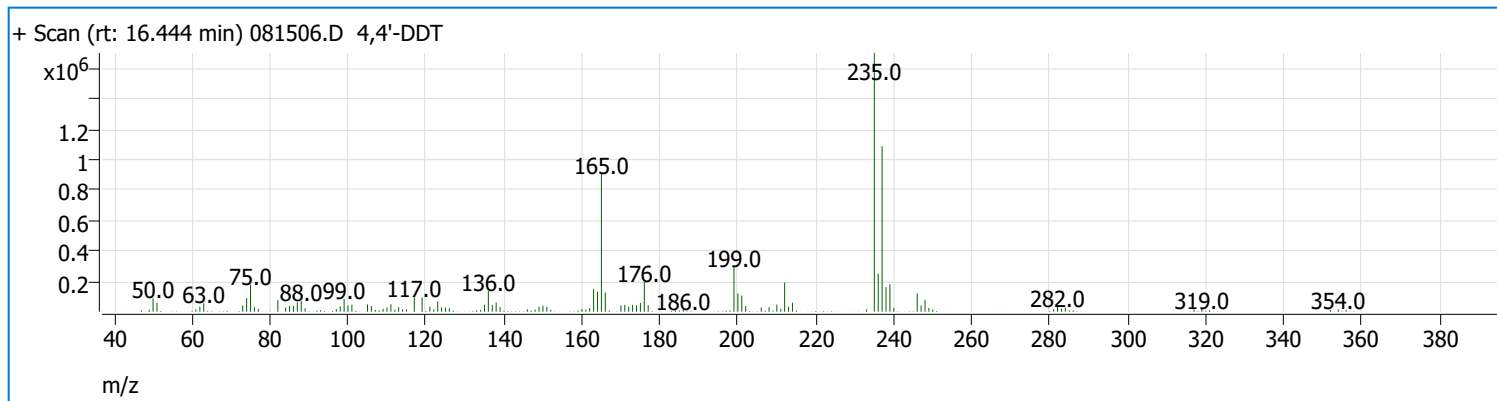
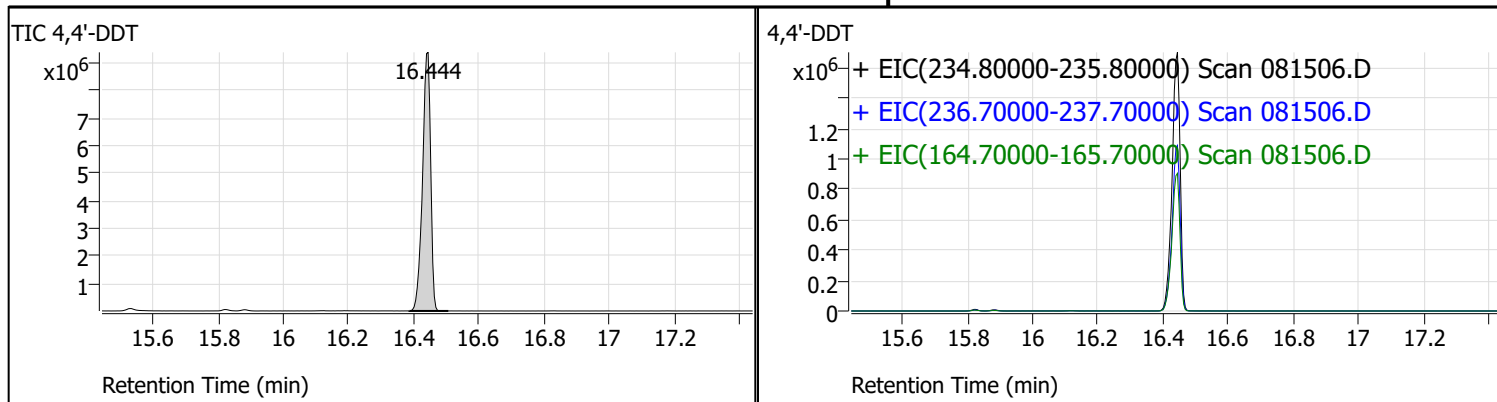
Tune Evaluation Report

Data Path: C:\GC-14\Data\2023\081523\081506.D
 Acq on: 8/15/2023 12:41:56 PM
 Operator: FA\GC14
 Sample: TUNE
 Inst Name: GC-14
 ALS Vial: 1
 Method: C:\GC-14\Methods\Quant
 Methods\TUNE\DFTPPwBreak&TailingGC218270E.m



Target Mass	Rel. To Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Pass/Fail
68	69	0	2	1.5	8718	Pass
70	69	0	2	0.5	3122	Pass
197	198	0	2	1.1	15551	Pass
198	198	100	100	100.0	1455104	Pass
199	198	5	9	6.6	96648	Pass
365	442	1	100	5.1	88936	Pass
441	443	1E-10	150	82.8	279744	Pass
442	442	100	100	100.0	1756160	Pass
443	442	15	24	19.2	337856	Pass
69	69	100	100	100.0	572672	Pass

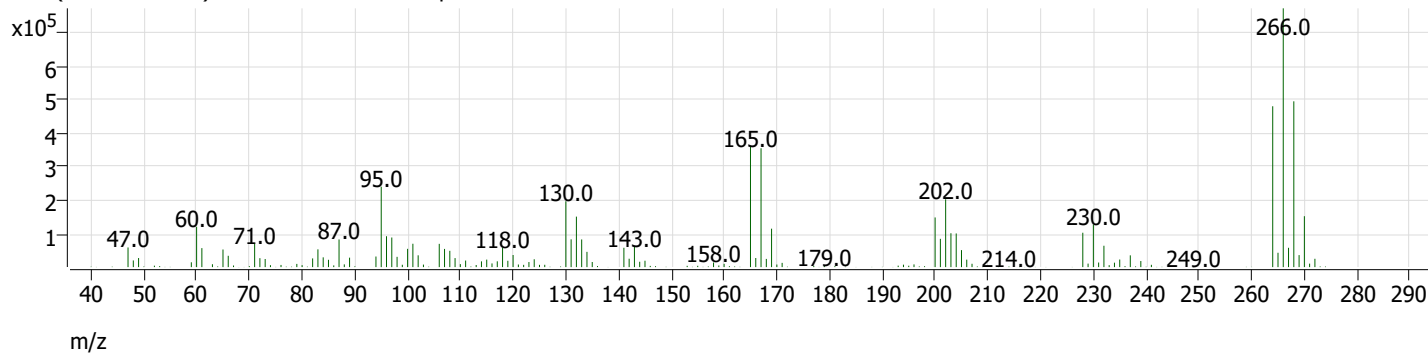
Tune Evaluation Report



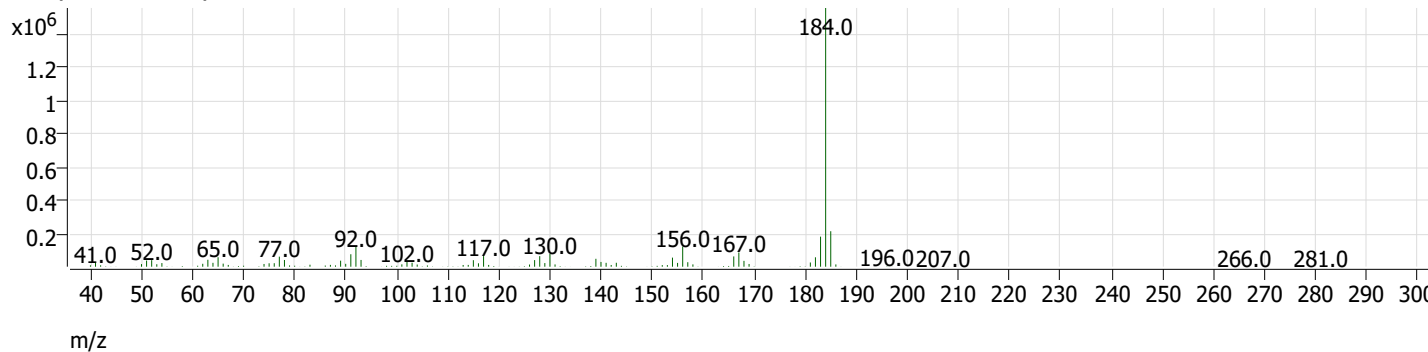
Compound Name	Expected RT	Observed RT	TIC Area	Breakdown %	Pass/Fail
4,4'-DDT	16.440	16.444	16232545	0.4	Pass
4,4'-DDD	15.820	15.820	71105		

Tune Evaluation Report

+ Scan (rt: 13.030 min) 081506.D Pentachlorophenol



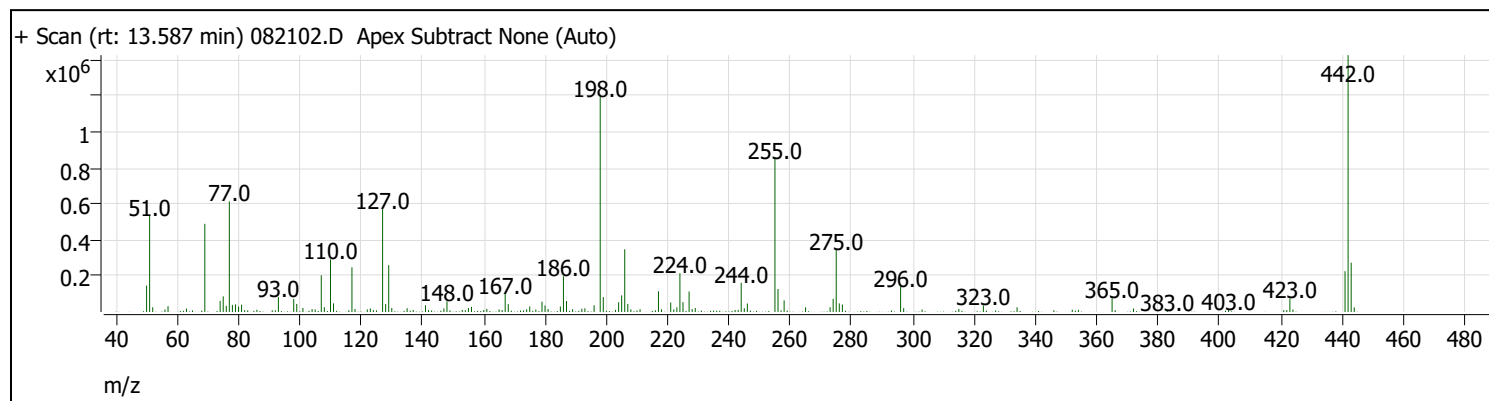
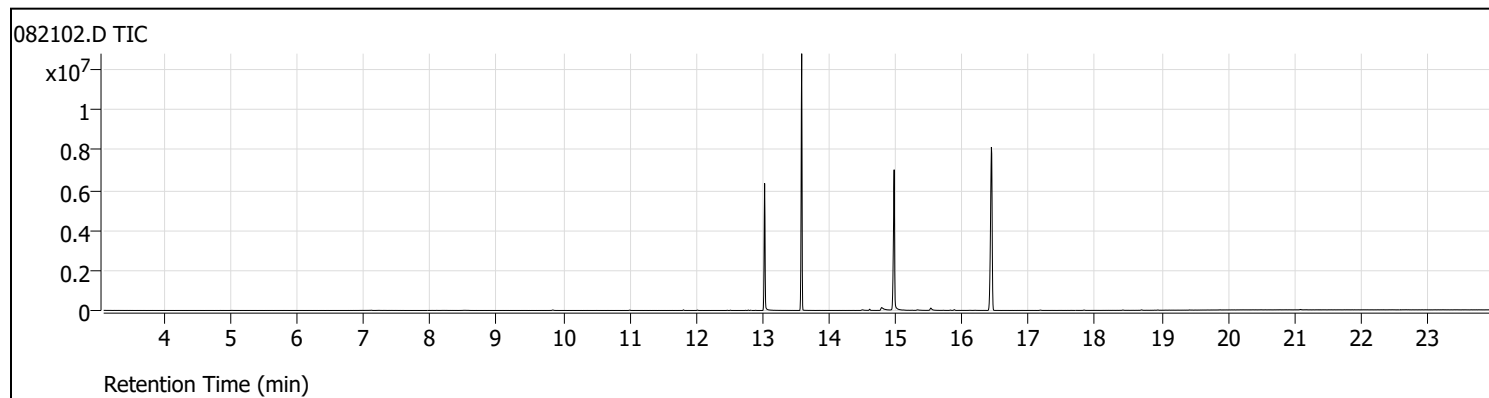
+ Scan (rt: 14.968 min) 081506.D Benzidine



Compound Name	Expected RT	Observed RT	Tailing Factor	PGF	Pass/Fail
Pentachlorophenol	13.030	13.030	0.7	4.5	Pass
Benzidine	14.900	14.968	1.2	3.6	Pass

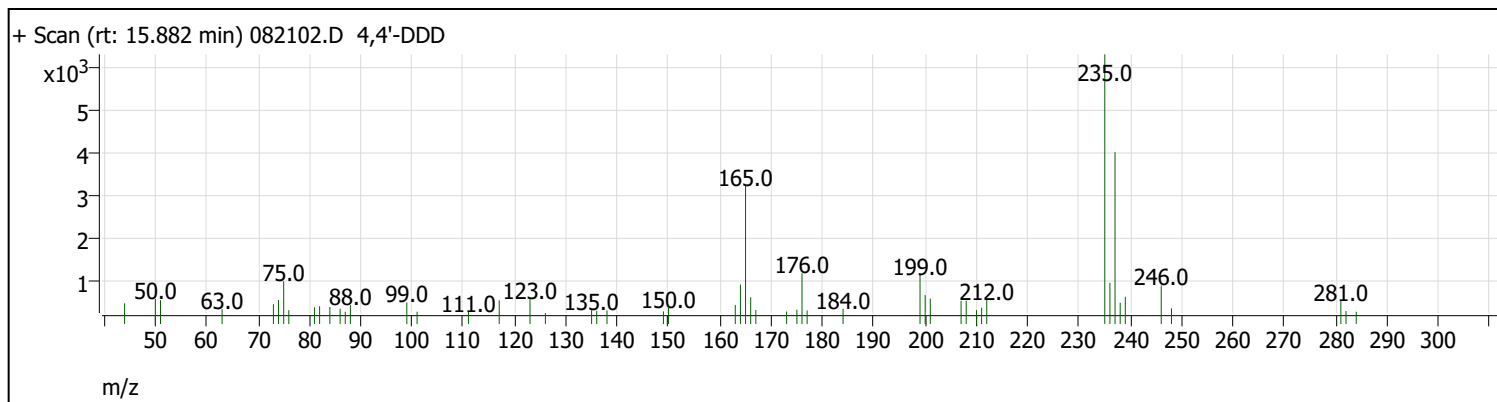
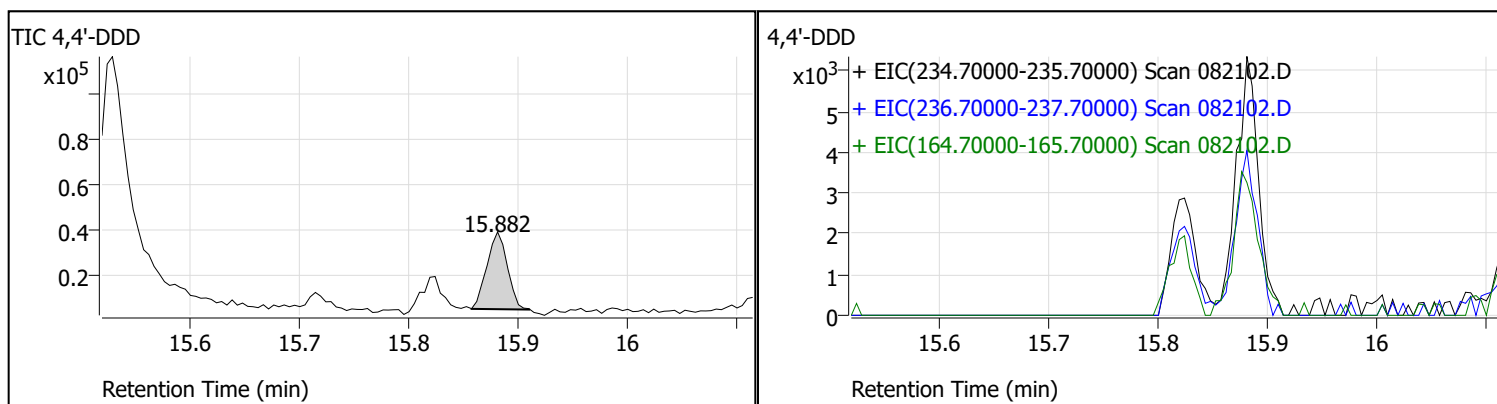
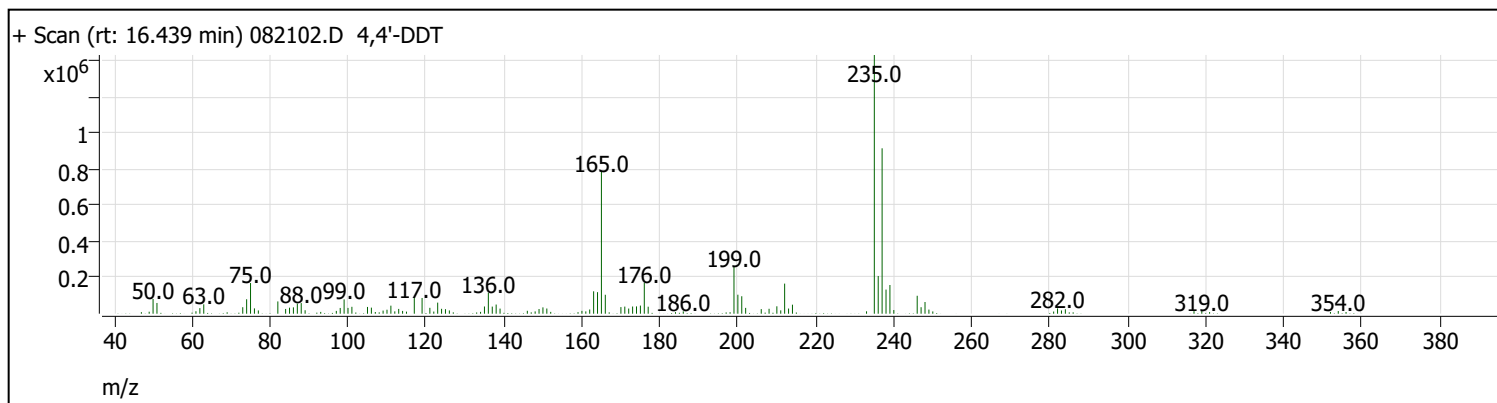
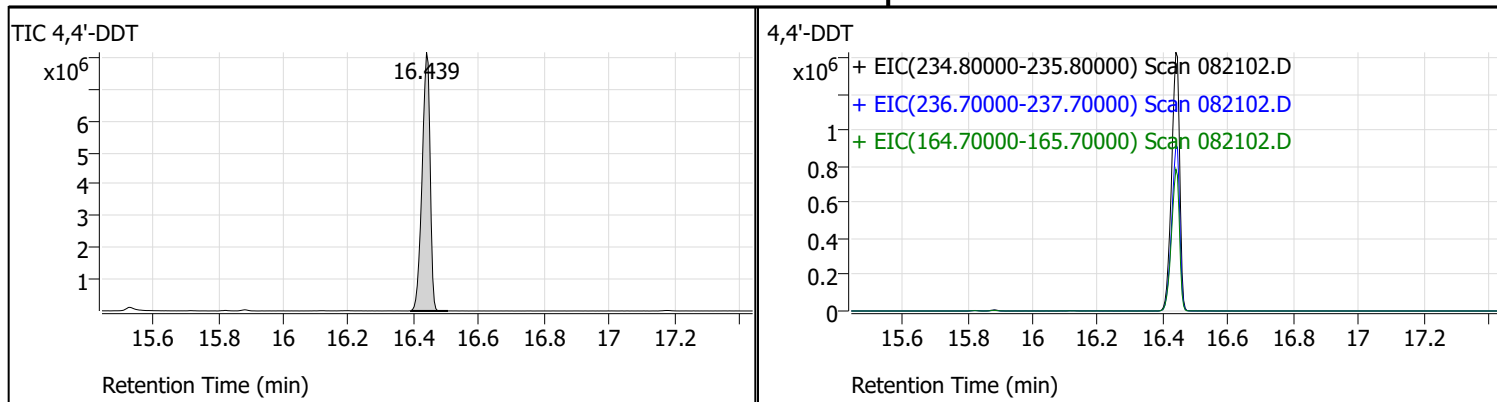
Tune Evaluation Report

Data Path: C:\GC-14\Data\2023\082123\082102.D
 Acq on: 8/21/2023 8:51:47 AM
 Operator: FA\GC14
 Sample: TUNE
 Inst Name: GC-14
 ALS Vial: 1
 Method: C:\GC-14\Methods\Quant
 Methods\TUNE\DFTPPwBreak&TailingGC218270E.m



Target Mass	Rel. To Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Pass/Fail
68	69	0	2	1.6	7898	Pass
70	69	0	2	0.5	2574	Pass
197	198	0	2	0.0	0	Pass
198	198	100	100	100.0	1197056	Pass
199	198	5	9	6.9	83080	Pass
365	442	1	100	5.4	77112	Pass
441	443	1E-10	150	82.7	226944	Pass
442	442	100	100	100.0	1427968	Pass
443	442	15	24	19.2	274496	Pass
69	69	100	100	100.0	490176	Pass

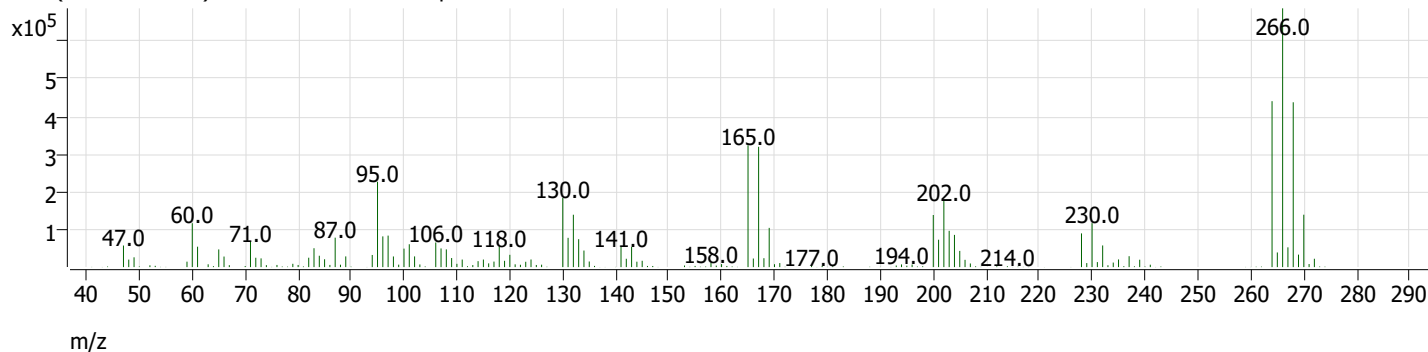
Tune Evaluation Report



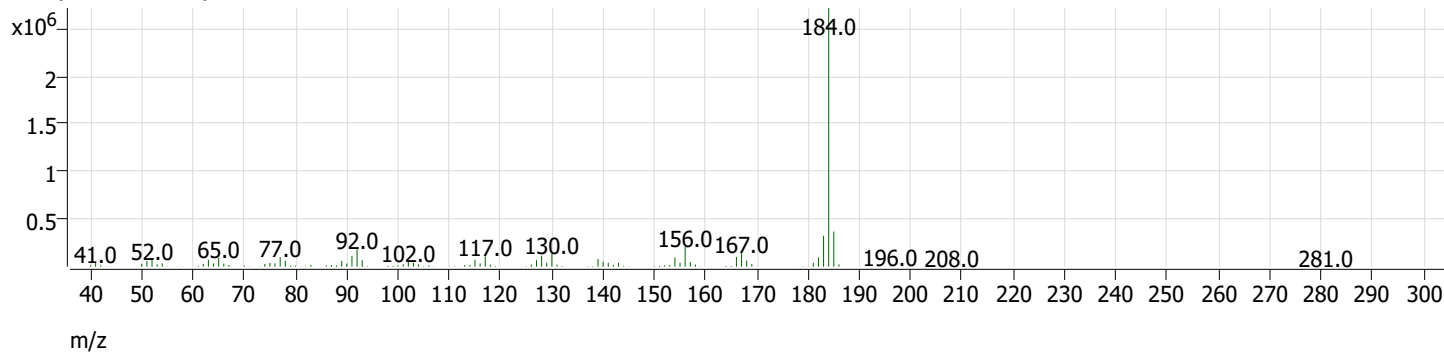
Compound Name	Expected RT	Observed RT	TIC Area	Breakdown %	Pass/Fail
4,4'-DDT	16.440	16.439	13861934	0.3	Pass
4,4'-DDD	15.820	15.882	44423		

Tune Evaluation Report

+ Scan (rt: 13.030 min) 082102.D Pentachlorophenol



+ Scan (rt: 14.977 min) 082102.D Benzidine



Compound Name	Expected RT	Observed RT	Tailing Factor	PGF	Pass/Fail
Pentachlorophenol	13.030	13.030	0.9	17.5	Pass
Benzidine	14.900	14.977	0.6	13.7	Pass



Internal Standards

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-14 230814A CCV Name: PAH-S MDPT
 Run No: 85903 CCV SeqNo: 1792824
 Lab File ID (Standard): 072617.D Date Analyzed: 7/26/2023
 Instrument ID: GC-14 Time Analyzed: 19:58
 GC Column: ID (mm): Length (M):

	IS1 (14DCBZ)		2 Acenaphthene-d		IS3 Chrysene-d12		S4 Naphthalene-d8	
	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	0	0.000	264799	11.429	481056	17.493	801473	9.210
UPPER LIMIT	0	0.500	529598	11.929	962112	17.993	1602946	9.710
LOWER LIMIT	0	-0.500	132400	10.929	240528	16.993	400737	8.710
SAMPLE NO.								
01 CCV-41191A	0	0	156592	11.43	267898	17.515	541849	9.21
02 QCS-41191A	0	0	158328	11.435	281212	17.515	501691	9.214

IS1 (14DCBZ) = 1,4-Dichlorobenzene-d4

IS3 Chrysene-d12 = Chrysene-d12

IS2 Acenaphthene-d10 = Acenaphthene-d10

IS4 Naphthalene-d8 = Naphthalene-d8

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-14 230814A CCV Name: PAH-S MDPT
 Run No: 85903 CCV SeqNo: 1792824
 Lab File ID (Standard): 072617.D Date Analyzed: 7/26/2023
 Instrument ID: GC-14 Time Analyzed: 19:58
 GC Column: ID (mm): Length (M):

	S5 Perylene-d12		S6 Phenanthrene-d10					
	AREA #	RT #	AREA #	RT #				
12 HOUR STD	608061	19.857	521687	13.297				
UPPER LIMIT	1216122	20.357	1043374	13.797				
LOWER LIMIT	304031	19.357	260844	12.797				
SAMPLE NO.								
01 CCV-41191A	334678	19.879	297873	13.304				
02 QCS-41191A	349280	19.883	305197	13.31				

IS5 Perylene-d12 = Perylene-d12

IS6 Phenanthrene-d10 = Phenanthrene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-14 230814A

CCV Name: CCV-41191A

Run No: 85903

CCV SeqNo: 1792816

Lab File ID (Standard): 081404.D

Date Analyzed: 8/14/2023

Instrument ID: GC-14

Time Analyzed: 10:06

GC Column: ID (mm):

Length (M):

	IS1 (14DCBZ)		2 Acenaphthene-d		IS3 Chrysene-d12		S4 Naphthalene-d8	
	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	0	0.000	156592	11.430	267898	17.515	541849	9.210
UPPER LIMIT	0	0.500	313184	11.930	535796	18.015	1083698	9.710
LOWER LIMIT	0	-0.500	78296	10.930	133949	17.015	270925	8.710
SAMPLE NO.								
01 MB-41191	0	0	105869	11.434	168977	17.515	411085	9.21
02 LCS-41191	0	0	122066	11.436	215970	17.508	380713	9.214
03 2308151-006A	0	0	102756	11.435	173949	17.508	369440	9.214
04 2308174-001A	0	0	106218	11.435	204787	17.508	368825	9.214
05 2308174-001AMS	0	0	134329	11.436	253476	17.508	408743	9.214
06 2308174-001AMSD	0	0	133519	11.435	255320	17.515	410601	9.214
07 2308168-001A	0	0	110195	11.434	200526	17.508	382657	9.214
08 2308168-002A	0	0	109414	11.435	197812	17.515	383566	9.214
09 2308168-003A	0	0	106776	11.434	189222	17.515	376168	9.214
10 2308168-004A	0	0	108184	11.434	191102	17.515	382063	9.214

IS1 (14DCBZ) = 1,4-Dichlorobenzene-d4

IS3 Chrysene-d12 = Chrysene-d12

IS2 Acenaphthene-d10 = Acenaphthene-d10

IS4 Naphthalene-d8 = Naphthalene-d8

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-14 230814A CCV Name: CCV-41191A
 Run No: 85903 CCV SeqNo: 1792816
 Lab File ID (Standard): 081404.D Date Analyzed: 8/14/2023
 Instrument ID: GC-14 Time Analyzed: 10:06
 GC Column: ID (mm): Length (M):

	S5 Perylene-d12		S6 Phenanthrene-d10					
	AREA #	RT #	AREA #	RT #				
12 HOUR STD	334678	19.879	297873	13.304				
UPPER LIMIT	669356	20.379	595746	13.804				
LOWER LIMIT	167339	19.379	148937	12.804				
SAMPLE NO.								
01 MB-41191	199382	19.883	198106	13.31				
02 LCS-41191	266241	19.875	229674	13.304				
03 2308151-006A	207039	19.875	201287	13.303				
04 2308174-001A	262801	19.875	209629	13.303				
05 2308174-001AMS	303929	19.879	256682	13.304				
06 2308174-001AMSD	299161	19.879	258064	13.304				
07 2308168-001A	242189	19.879	219144	13.304				
08 2308168-002A	232439	19.879	214341	13.31				
09 2308168-003A	225587	19.879	206774	13.31				
10 2308168-004A	225964	19.884	209785	13.31				

IS5 Perylene-d12 = Perylene-d12

IS6 Phenanthrene-d10 = Phenanthrene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-14 230814A

CCV Name: PAH-S-SIM MDPT

Run No: 85903

CCV SeqNo: 1794077

Lab File ID (Standard): 081514.D

Date Analyzed: 8/15/2023

Instrument ID: GC-14

Time Analyzed: 18:05

GC Column:

ID (mm):

Length (M):

	IS1 (14DCBZ)		IS2 Acenaphthene-d10		IS3 Chrysene-d12		IS4 Naphthalene-d8	
	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	0	0.000	125208	11.389	210852	17.438	362547	9.176
UPPER LIMIT	0	0.500	250416	11.889	421704	17.938	725094	9.676
LOWER LIMIT	0	-0.500	62604	10.889	105426	16.938	181274	8.676
SAMPLE NO.								
01 CCV-41191B	0	0	136213	11.389	233330	17.431	399330	9.172
02 QCS-41191B	0	0	150243	11.39	266689	17.439	418553	9.172

IS1 (14DCBZ) = 1,4-Dichlorobenzene-d4

IS3 Chrysene-d12 = Chrysene-d12

IS2 Acenaphthene-d10 = Acenaphthene-d10

IS4 Naphthalene-d8 = Naphthalene-d8

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-14 230814A CCV Name: PAH-S-SIM MDPT
 Run No: 85903 CCV SeqNo: 1794077
 Lab File ID (Standard): 081514.D Date Analyzed: 8/15/2023
 Instrument ID: GC-14 Time Analyzed: 18:05
 GC Column: ID (mm): Length (M):

	S5 Perylene-d12		S6 Phenanthrene-d10					
	AREA #	RT #	AREA #	RT #				
12 HOUR STD	260379	19.805	236148	13.262				
UPPER LIMIT	520758	20.305	472296	13.762				
LOWER LIMIT	130190	19.305	118074	12.762				
SAMPLE NO.								
01 CCV-41191B	290630	19.801	259601	13.255				
02 QCS-41191B	343396	19.81	290032	13.255				

IS5 Perylene-d12 = Perylene-d12

IS6 Phenanthrene-d10 = Phenanthrene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-14 230814A CCV Name: CCV-41191B
 Run No: 85903 CCV SeqNo: 1794072
 Lab File ID (Standard): 081539.D Date Analyzed: 8/16/2023
 Instrument ID: GC-14 Time Analyzed: 6:05
 GC Column: ID (mm): Length (M):

	IS1 (14DCBZ)	IS2 Acenaphthene-d10	IS3 Chrysene-d12	IS4 Naphthalene-d8
	AREA #	RT #	AREA #	RT #
12 HOUR STD	0	0.000	136213	11.389
UPPER LIMIT	0	0.500	272426	11.889
LOWER LIMIT	0	-0.500	68107	10.889
SAMPLE NO.				
01 2308195-001A	0	0	126012	11.389
02 2308195-002A	0	0	124418	11.389
03 2308198-001A	0	0	128339	11.389

IS1 (14DCBZ) = 1,4-Dichlorobenzene-d4

IS3 Chrysene-d12 = Chrysene-d12

IS2 Acenaphthene-d10 = Acenaphthene-d10

IS4 Naphthalene-d8 = Naphthalene-d8

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-14 230814A CCV Name: CCV-41191B
 Run No: 85903 CCV SeqNo: 1794072
 Lab File ID (Standard): 081539.D Date Analyzed: 8/16/2023
 Instrument ID: GC-14 Time Analyzed: 6:05
 GC Column: ID (mm): Length (M):

	S5 Perylene-d12		S6 Phenanthrene-d10					
	AREA #	RT #	AREA #	RT #				
12 HOUR STD	290630	19.801	259601	13.255				
UPPER LIMIT	581260	20.301	519202	13.755				
LOWER LIMIT	145315	19.301	129801	12.755				
SAMPLE NO.								
01	2308195-001A	279497	19.809	254787	13.255			
02	2308195-002A	272265	19.814	251196	13.255			
03	2308198-001A	305142	19.814	261290	13.255			

IS5 Perylene-d12 = Perylene-d12

IS6 Phenanthrene-d10 = Phenanthrene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-14 230814B CCV Name: PAH-S MDPT
 Run No: 85910 CCV SeqNo: 1793011
 Lab File ID (Standard): 072617.D Date Analyzed: 7/26/2023
 Instrument ID: GC-14 Time Analyzed: 19:58
 GC Column: ID (mm): Length (M):

	IS1 (14DCBZ)		2 Acenaphthene-d		IS3 Chrysene-d12		S4 Naphthalene-d8	
	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	0	0.000	264799	11.429	481056	17.493	801473	9.210
UPPER LIMIT	0	0.500	529598	11.929	962112	17.993	1602946	9.710
LOWER LIMIT	0	-0.500	132400	10.929	240528	16.993	400737	8.710
SAMPLE NO.								
01 CCV-41173A	0	0	192805	11.435	351889	17.508	604490	9.214
02 QCS-41173A	0	0	193830	11.429	347236	17.508	598638	9.21

IS1 (14DCBZ) = 1,4-Dichlorobenzene-d4

IS3 Chrysene-d12 = Chrysene-d12

IS2 Acenaphthene-d10 = Acenaphthene-d10

IS4 Naphthalene-d8 = Naphthalene-d8

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-14 230814B CCV Name: PAH-S MDPT
 Run No: 85910 CCV SeqNo: 1793011
 Lab File ID (Standard): 072617.D Date Analyzed: 7/26/2023
 Instrument ID: GC-14 Time Analyzed: 19:58
 GC Column: ID (mm): Length (M):

	S5 Perylene-d12		S6 Phenanthrene-d10					
	AREA #	RT #	AREA #	RT #				
12 HOUR STD	608061	19.857	521687	13.297				
UPPER LIMIT	1216122	20.357	1043374	13.797				
LOWER LIMIT	304031	19.357	260844	12.797				
SAMPLE NO.								
01 CCV-41173A	439451	19.87	377487	13.303				
02 QCS-41173A	436605	19.866	379455	13.303				

IS5 Perylene-d12 = Perylene-d12

IS6 Phenanthrene-d10 = Phenanthrene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-14 230814B

CCV Name: CCV-41173A

Run No: 85910

CCV SeqNo: 1793000

Lab File ID (Standard): 081034.D

Date Analyzed: 8/10/2023

Instrument ID: GC-14

Time Analyzed: 18:09

GC Column:

ID (mm):

Length (M):

	IS1 (14DCBZ)		2 Acenaphthene-d		IS3 Chrysene-d12		S4 Naphthalene-d	
	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	0	0.000	192805	11.435	351889	17.508	604490	9.214
UPPER LIMIT	0	0.500	385610	11.935	703778	18.008	1208980	9.714
LOWER LIMIT	0	-0.500	96403	10.935	175945	17.008	302245	8.714
SAMPLE NO.								
01 MB-41173	0	0	115472	11.435	205083	17.508	411541	9.214
02 LCS-41173	0	0	137700	11.434	242880	17.508	427585	9.214
03 2308151-008A	0	0	118698	11.435	210180	17.508	425093	9.214
04 2308151-009A	0	0	129959	11.435	288645	17.515	430855	9.214
05 2308151-010A	0	0	116492	11.436	210934	17.508	406835	9.214
06 2308151-011A	0	0	121435	11.435	214279	17.508	425110	9.214
07 2308151-012A	0	0	118600	11.429	211520	17.508	415526	9.214
08 2308151-012AMS	0	0	131196	11.429	236590	17.508	407208	9.21
09 2308151-012AMSD	0	0	133280	11.435	238466	17.508	417338	9.214

IS1 (14DCBZ) = 1,4-Dichlorobenzene-d4

IS3 Chrysene-d12 = Chrysene-d12

IS2 Acenaphthene-d10 = Acenaphthene-d10

IS4 Naphthalene-d8 = Naphthalene-d8

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-14 230814B CCV Name: CCV-41173A
 Run No: 85910 CCV SeqNo: 1793000
 Lab File ID (Standard): 081034.D Date Analyzed: 8/10/2023
 Instrument ID: GC-14 Time Analyzed: 18:09
 GC Column: ID (mm): Length (M):

	S5 Perylene-d12		S6 Phenanthrene-d10					
	AREA #	RT #	AREA #	RT #				
12 HOUR STD	439451	19.870	377487	13.303				
UPPER LIMIT	878902	20.370	754974	13.803				
LOWER LIMIT	219726	19.370	188744	12.803				
SAMPLE NO.								
01 MB-41173	248964	19.87	231015	13.303				
02 LCS-41173	307523	19.866	258548	13.304				
03 2308151-008A	253576	19.866	238199	13.303				
04 2308151-009A	334713	19.875	253130	13.304				
05 2308151-010A	258183	19.87	235058	13.304				
06 2308151-011A	262142	19.87	241425	13.303				
07 2308151-012A	256852	19.866	238077	13.303				
08 2308151-012AMS	297858	19.866	248245	13.304				
09 2308151-012AMSD	301294	19.866	252941	13.303				

IS5 Perylene-d12 = Perylene-d12

IS6 Phenanthrene-d10 = Phenanthrene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-14 230822A CCV Name: PAH-S-SIM MDPT
 Run No: 86059 CCV SeqNo: 1795771
 Lab File ID (Standard): 081514.D Date Analyzed: 8/15/2023
 Instrument ID: GC-14 Time Analyzed: 18:05
 GC Column: ID (mm): Length (M):

	IS1 (14DCBZ)		2 Acenaphthene-d		IS3 Chrysene-d12		S4 Naphthalene-d8	
	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	0	0.000	125208	11.389	210852	17.438	362547	9.176
UPPER LIMIT	0	0.500	250416	11.889	421704	17.938	725094	9.676
LOWER LIMIT	0	-0.500	62604	10.889	105426	16.938	181274	8.676
SAMPLE NO.								
01 CCV-41251A	0	0	125054	11.389	205817	17.446	399077	9.171
02 QCS-41251A	0	0	125635	11.395	226322	17.439	355019	9.176

IS1 (14DCBZ) = 1,4-Dichlorobenzene-d4

IS3 Chrysene-d12 = Chrysene-d12

IS2 Acenaphthene-d10 = Acenaphthene-d10

IS4 Naphthalene-d8 = Naphthalene-d8

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-14 230822A CCV Name: PAH-S-SIM MDPT
 Run No: 86059 CCV SeqNo: 1795771
 Lab File ID (Standard): 081514.D Date Analyzed: 8/15/2023
 Instrument ID: GC-14 Time Analyzed: 18:05
 GC Column: ID (mm): Length (M):

	S5 Perylene-d12		S6 Phenanthrene-d10					
	AREA #	RT #	AREA #	RT #				
12 HOUR STD	260379	19.805	236148	13.262				
UPPER LIMIT	520758	20.305	472296	13.762				
LOWER LIMIT	130190	19.305	118074	12.762				
SAMPLE NO.								
01 CCV-41251A	256650	19.818	235600	13.262				
02 QCS-41251A	282505	19.809	185251	13.262				

IS5 Perylene-d12 = Perylene-d12

IS6 Phenanthrene-d10 = Phenanthrene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-14 230822A

CCV Name: CCV-41251A

Run No: 86059

CCV SeqNo: 1795760

Lab File ID (Standard): 082105.D

Date Analyzed: 8/21/2023

Instrument ID: GC-14

Time Analyzed: 12:46

GC Column: ID (mm):

Length (M):

	IS1 (14DCBZ)		2 Acenaphthene-d		IS3 Chrysene-d12		S4 Naphthalene-d8	
	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	0	0.000	125054	11.389	205817	17.446	399077	9.171
UPPER LIMIT	0	0.500	250108	11.889	411634	17.946	798154	9.671
LOWER LIMIT	0	-0.500	62527	10.889	102909	16.946	199539	8.671
SAMPLE NO.								
01 MB-41251	0	0	110501	11.389	177036	17.439	333982	9.176
02 LCS-41251	0	0	132808	11.389	226633	17.439	354989	9.171
03 2308151-002A	0	0	109899	11.389	179539	17.439	340814	9.176
04 2308151-002AMS	0	0	125247	11.389	210648	17.439	351681	9.176
05 2308151-002AMSD	0	0	119479	11.389	199638	17.439	344574	9.176
06 2308151-003A	0	0	106989	11.39	171436	17.439	334695	9.176
07 2308151-005A	0	0	91567	11.39	180328	17.439	335935	9.176
08 2308229-001A	0	0	108937	11.389	154679	17.438	342220	9.176
09 2308256-001A	0	0	112900	11.39	293253	17.439	398355	9.176

IS1 (14DCBZ) = 1,4-Dichlorobenzene-d4

IS3 Chrysene-d12 = Chrysene-d12

IS2 Acenaphthene-d10 = Acenaphthene-d10

IS4 Naphthalene-d8 = Naphthalene-d8

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-14 230822A CCV Name: CCV-41251A
 Run No: 86059 CCV SeqNo: 1795760
 Lab File ID (Standard): 082105.D Date Analyzed: 8/21/2023
 Instrument ID: GC-14 Time Analyzed: 12:46
 GC Column: ID (mm): Length (M):

	S5 Perylene-d12		S6 Phenanthrene-d10					
	AREA #	RT #	AREA #	RT #				
12 HOUR STD	256650	19.818	235600	13.262				
UPPER LIMIT	513300	20.318	471200	13.762				
LOWER LIMIT	128325	19.318	117800	12.762				
SAMPLE NO.								
01 MB-41251	210596	19.814	212588	13.262				
02 LCS-41251	284185	19.81	248523	13.255				
03 2308151-002A	215325	19.81	213111	13.262				
04 2308151-002AMS	265435	19.814	237769	13.262				
05 2308151-002AMSD	231290	19.81	227784	13.262				
06 2308151-003A	213254	19.81	210920	13.262				
07 2308151-005A	196836	19.81	211555	13.262				
08 2308229-001A	198377	19.814	214621	13.262				
09 2308256-001A	328742	19.814	263661	13.262				

IS5 Perylene-d12 = Perylene-d12

IS6 Phenanthrene-d10 = Phenanthrene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

DATA SET for Review - Deliverable Requirements

Polychlorinated Biphenyls (PCB) by EPA Method 8082

Fremont Analytical Work Order No. 2308151

GeoEngineers

Project Name: S Jackson Street

Project Number: 24504-001-01

This data set contains the following:

- Analytical Sequence Summary
- Calibration Information

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) 071012.D No data found	8081_8082A_608.M		0.000	N/A
2) 071034.D No data found	8081_8082A_608.M		0.000	N/A
3) 071001.D CO	8081_8082A_608.M	150	1.000	10 Jul 2023 08:34 am
4) 071002.D 1660-CCV	8081_8082A_608.M	2	1.000	10 Jul 2023 08:44 am
5) 071003.D CO	8081_8082A_608.M	150	1.000	10 Jul 2023 09:11 am
6) 071004.D 1660-CCV	8081_8082A_608.M	2	1.000	10 Jul 2023 09:21 am
7) 071005.D CO	8081_8082A_608.M	150	1.000	10 Jul 2023 09:32 am
8) 071006.D CO	8081_8082A_608.M	150	1.000	10 Jul 2023 09:42 am
9) 071007.D CO	8081_8082A_608.M	150	1.000	10 Jul 2023 09:52 am
10) 071008.D CO	8081_8082A_608.M	150	1.000	10 Jul 2023 10:02 am
11) 071009.D 1660-CCV	8081_8082A_608.M	2	1.000	10 Jul 2023 10:11 am
12) 071010.D CO	8081_8082A_608.M	150	1.000	10 Jul 2023 10:22 am
13) 071011.D 1660-CCV	8081_8082A_608.M	2	1.000	10 Jul 2023 10:32 am
14) 071013.D CO	8081_8082A_608.M	150	1.000	10 Jul 2023 11:28 am
15) 071014.D 1660-CCV	8081_8082A_608.M	2	1.000	10 Jul 2023 11:38 am
16) 071015.D CO	8081_8082A_608.M	150	1.000	10 Jul 2023 11:49 am
17) 071016.D CO	8081_8082A_608.M	150	1.000	10 Jul 2023 11:59 am
18) 071017.D CO	8081_8082A_608.M	150	1.000	10 Jul 2023 12:08 pm
19) 071018.D CO	8081_8082A_608.M	150	1.000	10 Jul 2023 12:18 pm
20) 071019.D CO	8081_8082A_608.M	150	1.000	10 Jul 2023 12:33 pm
21) 071020.D CO	8081_8082A_608.M	150	1.000	10 Jul 2023 12:43 pm
22) 071021.D CO	8081_8082A_608.M	150	1.000	10 Jul 2023 12:53 pm
23) 071022.D CO	8081_8082A_608.M	150	1.000	10 Jul 2023 01:03 pm
24) 071023.D 1660 5 ppb	8081_8082A_608.M	131	1.000	10 Jul 2023 01:12 pm
25) 071024.D 1660 20 ppb	8081_8082A_608.M	132	1.000	10 Jul 2023 01:22 pm
26) 071025.D 1660 50 ppb	8081_8082A_608.M	133	1.000	10 Jul 2023 01:32 pm
27) 071026.D 1660 100 ppb	8081_8082A_608.M	134	1.000	10 Jul 2023 01:42 pm

28)	071027.D	8081_8082A_608.M					
1660	200 ppb		135	1.000	10 Jul 2023	01:52	pm

29)	071028.D	8081_8082A_608.M					
1660	500 ppb		136	1.000	10 Jul 2023	02:01	pm

30)	071029.D	8081_8082A_608.M					
1660	1000 ppb		137	1.000	10 Jul 2023	02:11	pm

31)	071030.D	8081_8082A_608.M					
1660	2000 ppb		138	1.000	10 Jul 2023	02:21	pm

32)	071031.D	8081_8082A_608.M					
CO			150	1.000	10 Jul 2023	02:31	pm

33)	071032.D	8081_8082A_608.M					
1660	ICV 1000 ppb		139	1.000	10 Jul 2023	02:41	pm

34)	071033.D	8081_8082A_608.M					
1660	ICB		140	1.000	10 Jul 2023	02:50	pm

Data Directory: D:\GC-16\Data\2023\081023\

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) 071034.D 1221	8081_8082A_608.M	141	1.000	10 Jul 2023 03:00 pm
2) 071035.D 1232	8081_8082A_608.M	142	1.000	10 Jul 2023 03:10 pm
3) 071036.D 1242	8081_8082A_608.M	143	1.000	10 Jul 2023 03:20 pm
4) 071037.D 1248	8081_8082A_608.M	144	1.000	10 Jul 2023 03:30 pm
5) 071038.D 1254	8081_8082A_608.M	145	1.000	10 Jul 2023 03:40 pm
6) 071039.D 1262	8081_8082A_608.M	146	1.000	10 Jul 2023 03:49 pm
7) 071040.D 1268	8081_8082A_608.M	147	1.000	10 Jul 2023 03:59 pm
8) 081001.D co	8081_8082A_608.M	6	1.000	10 Aug 2023 08:04 am
9) 081002.D 1660-CCV-check	8081_8082A_608.M	6	1.000	10 Aug 2023 08:14 am
10) 081003.D 1660-CCV-new	8081_8082A_608.M	6	1.000	10 Aug 2023 08:51 am
11) 081004.D MB-41139	8081_8082A_608.M	11	1.000	10 Aug 2023 09:06 am
12) 081005.D LCS-41139	8081_8082A_608.M	12	1.000	10 Aug 2023 09:16 am
13) 081006.D 2308085-071A	8081_8082A_608.M	13	1.000	10 Aug 2023 09:26 am
14) 081007.D 2308085-071AMS	8081_8082A_608.M	14	1.000	10 Aug 2023 09:36 am
15) 081008.D 2308085-071AMSD	8081_8082A_608.M	15	1.000	10 Aug 2023 09:45 am
16) 081009.D 2308085-072A	8081_8082A_608.M	16	1.000	10 Aug 2023 09:55 am
17) 081010.D 2308085-073A	8081_8082A_608.M	17	1.000	10 Aug 2023 10:05 am
18) 081011.D 2308085-074A	8081_8082A_608.M	18	1.000	10 Aug 2023 10:15 am
19) 081012.D 2308085-075A	8081_8082A_608.M	19	1.000	10 Aug 2023 10:24 am
20) 081013.D 2308085-076A	8081_8082A_608.M	20	1.000	10 Aug 2023 10:34 am
21) 081014.D 2308085-077A	8081_8082A_608.M	21	1.000	10 Aug 2023 10:44 am

22) 081015.D 2308085-078A	8081_8082A_608.M	22	1.000	10 Aug 2023	10:54 am
23) 081016.D 2308085-079A	8081_8082A_608.M	23	1.000	10 Aug 2023	11:04 am
24) 081017.D 2308085-080A	8081_8082A_608.M	24	1.000	10 Aug 2023	11:13 am
25) 081018.D 2308085-081A	8081_8082A_608.M	25	1.000	10 Aug 2023	11:23 am
26) 081019.D 2308085-082A	8081_8082A_608.M	26	1.000	10 Aug 2023	11:33 am
27) 081020.D 2308085-083A	8081_8082A_608.M	27	1.000	10 Aug 2023	11:43 am
28) 081021.D 2308085-084A	8081_8082A_608.M	28	1.000	10 Aug 2023	11:52 am
29) 081022.D 2308085-085A	8081_8082A_608.M	29	1.000	10 Aug 2023	12:02 pm
30) 081023.D 2308085-086A	8081_8082A_608.M	30	1.000	10 Aug 2023	12:12 pm
31) 081024.D 2308085-087A	8081_8082A_608.M	31	1.000	10 Aug 2023	12:22 pm
32) 081025.D 2308085-088A	8081_8082A_608.M	32	1.000	10 Aug 2023	12:32 pm
33) 081026.D 2308085-089A	8081_8082A_608.M	33	1.000	10 Aug 2023	12:41 pm
34) 081027.D 2308085-090A	8081_8082A_608.M	34	1.000	10 Aug 2023	12:51 pm
35) 081028.D co	8081_8082A_608.M	6	1.000	10 Aug 2023	01:01 pm
36) 081029.D 1660-CCV	8081_8082A_608.M	6	1.000	10 Aug 2023	01:11 pm
37) 081030.D MB-41158	8081_8082A_608.M	51	1.000	10 Aug 2023	02:29 pm
38) 081031.D LCS-41158	8081_8082A_608.M	52	1.000	10 Aug 2023	02:39 pm
39) 081032.D LCSD-41158	8081_8082A_608.M	53	1.000	10 Aug 2023	02:49 pm
40) 081033.D LCS-LL-41158	8081_8082A_608.M	54	1.000	10 Aug 2023	02:58 pm
41) 081034.D 2308063-001D	8081_8082A_608.M	55	1.000	10 Aug 2023	03:08 pm
42) 081035.D 2308064-001D	8081_8082A_608.M	56	1.000	10 Aug 2023	03:18 pm
43) 081036.D co	8081_8082A_608.M	6	1.000	10 Aug 2023	03:28 pm
44) 081037.D 1660-CCV	8081_8082A_608.M	6	1.000	10 Aug 2023	03:38 pm
45) 081038.D	8081_8082A_608.M				

MB-41176		61	1.000	10 Aug 2023	05:32	pm
46) 081039.D LCS-41176	8081_8082A_608.M	62	1.000	10 Aug 2023	05:41	pm
47) 081040.D 2308055-015C	8081_8082A_608.M	63	1.000	10 Aug 2023	05:51	pm
48) 081041.D 2308085-091A	8081_8082A_608.M	64	1.000	10 Aug 2023	06:01	pm
49) 081042.D 2308112-001A	8081_8082A_608.M	65	1.000	10 Aug 2023	06:11	pm
50) 081043.D 2308112-002A	8081_8082A_608.M	66	1.000	10 Aug 2023	06:21	pm
51) 081044.D 2308112-003A	8081_8082A_608.M	67	1.000	10 Aug 2023	06:30	pm
52) 081045.D 2308112-004A	8081_8082A_608.M	68	1.000	10 Aug 2023	06:40	pm
53) 081046.D 2308112-005A	8081_8082A_608.M	69	1.000	10 Aug 2023	06:50	pm
54) 081047.D 2308112-006A	8081_8082A_608.M	70	1.000	10 Aug 2023	07:00	pm
55) 081048.D 2308112-007A	8081_8082A_608.M	71	1.000	10 Aug 2023	07:10	pm
56) 081049.D 2308112-008A	8081_8082A_608.M	72	1.000	10 Aug 2023	07:19	pm
57) 081050.D 2308112-009A	8081_8082A_608.M	73	1.000	10 Aug 2023	07:29	pm
58) 081051.D 2308112-010A	8081_8082A_608.M	74	1.000	10 Aug 2023	07:39	pm
59) 081052.D 2308112-011A	8081_8082A_608.M	75	1.000	10 Aug 2023	07:49	pm
60) 081053.D 2308112-012A	8081_8082A_608.M	76	1.000	10 Aug 2023	07:59	pm
61) 081054.D 2308112-013A	8081_8082A_608.M	77	1.000	10 Aug 2023	08:09	pm
62) 081055.D 2308151-008A	8081_8082A_608.M	78	1.000	10 Aug 2023	08:18	pm
63) 081056.D 2308151-009A	8081_8082A_608.M	79	1.000	10 Aug 2023	08:28	pm
64) 081057.D 2308151-009AMS	8081_8082A_608.M	80	1.000	10 Aug 2023	08:38	pm
65) 081058.D 2308151-009AMSD	8081_8082A_608.M	81	1.000	10 Aug 2023	08:48	pm
66) 081059.D 2308151-010A	8081_8082A_608.M	82	1.000	10 Aug 2023	08:57	pm
67) 081060.D 2308151-011A	8081_8082A_608.M	83	1.000	10 Aug 2023	09:07	pm
68) 081061.D 2308151-012A	8081_8082A_608.M	84	1.000	10 Aug 2023	09:17	pm

69) 081062.D 8081_8082A_608.M 6 1.000 10 Aug 2023 09:27 pm
co

70) 081063.D 8081_8082A_608.M 6 1.000 10 Aug 2023 09:37 pm
1660-CCV

Data Directory: D:\GC-25\Data\2023\230814\

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) 081401.D co	PCB_GC25_PEST_190228.M	6	1.000	14 Aug 2023 08:42 am
2) 081402.D 1660-CCV	PCB_GC25_PEST_190228.M	6	1.000	14 Aug 2023 08:51 am
3) 081403.D MB-41197	PCB_GC25_PEST_190228.M	11	1.000	14 Aug 2023 01:16 pm
4) 081404.D LCS-41197	PCB_GC25_PEST_190228.M	12	1.000	14 Aug 2023 01:26 pm
5) 081405.D 2308151-006A	PCB_GC25_PEST_190228.M	13	1.000	14 Aug 2023 01:36 pm
6) 081406.D 2308151-006AMS	PCB_GC25_PEST_190228.M	14	1.000	14 Aug 2023 01:46 pm
7) 081407.D 2308151-006AMSD	PCB_GC25_PEST_190228.M	15	1.000	14 Aug 2023 01:55 pm
8) 081408.D 2308174-001A	PCB_GC25_PEST_190228.M	16	1.000	14 Aug 2023 02:05 pm
9) 081409.D 2308179-001A	PCB_GC25_PEST_190228.M	17	1.000	14 Aug 2023 02:15 pm
10) 081410.D 2308184-001A	PCB_GC25_PEST_190228.M	18	1.000	14 Aug 2023 02:24 pm
11) 081411.D 2308184-002A	PCB_GC25_PEST_190228.M	19	1.000	14 Aug 2023 02:34 pm
12) 081412.D 2308184-003A	PCB_GC25_PEST_190228.M	20	1.000	14 Aug 2023 02:44 pm
13) 081413.D 2308184-004A	PCB_GC25_PEST_190228.M	21	1.000	14 Aug 2023 02:54 pm
14) 081414.D 2308184-005A	PCB_GC25_PEST_190228.M	22	1.000	14 Aug 2023 03:03 pm
15) 081415.D 2308184-006A	PCB_GC25_PEST_190228.M	23	1.000	14 Aug 2023 03:13 pm
16) 081416.D 2308185-001A	PCB_GC25_PEST_190228.M	24	1.000	14 Aug 2023 03:23 pm
17) 081417.D 2308185-002A	PCB_GC25_PEST_190228.M	25	1.000	14 Aug 2023 03:32 pm
18) 081418.D 2308185-003A	PCB_GC25_PEST_190228.M	26	1.000	14 Aug 2023 03:42 pm
19) 081419.D 2308185-004A	PCB_GC25_PEST_190228.M	27	1.000	14 Aug 2023 03:52 pm
20) 081420.D 2308185-005A	PCB_GC25_PEST_190228.M	28	1.000	14 Aug 2023 04:02 pm
21) 081421.D 2308185-006A	PCB_GC25_PEST_190228.M	29	1.000	14 Aug 2023 04:11 pm

22) 081422.D	PCB_GC25_PEST_190228.M	30	1.000	14 Aug 2023	04:21 pm
2308185-007A					
23) 081423.D	PCB_GC25_PEST_190228.M	31	1.000	14 Aug 2023	04:31 pm
2308185-008A					
24) 081424.D	PCB_GC25_PEST_190228.M	32	1.000	14 Aug 2023	04:40 pm
2308185-009A					
25) 081425.D	PCB_GC25_PEST_190228.M	150	1.000	14 Aug 2023	04:50 pm
co					
26) 081426.D	PCB_GC25_PEST_190228.M	6	1.000	14 Aug 2023	05:00 pm
1660-CCV					
27) 081501.D	PCB_GC25_PEST_190228.M	6	1.000	15 Aug 2023	09:43 am
co					
28) 081502.D	PCB_GC25_PEST_190228.M	150	1.000	15 Aug 2023	09:52 am
lcs spike check					
29) 081503.D	PCB_GC25_PEST_190228.M	6	1.000	15 Aug 2023	12:26 pm
1660-CCV-					
30) 081504.D	PCB_GC25_PEST_190228.M	13	1.000	15 Aug 2023	12:36 pm
2308151-006A RR					
31) 081505.D	PCB_GC25_PEST_190228.M	33	1.000	15 Aug 2023	12:45 pm
2308198-001A					
32) 081506.D	PCB_GC25_PEST_190228.M	6	1.000	15 Aug 2023	12:55 pm
co					
33) 081507.D	PCB_GC25_PEST_190228.M	6	1.000	15 Aug 2023	01:05 pm
1660-CCV-					



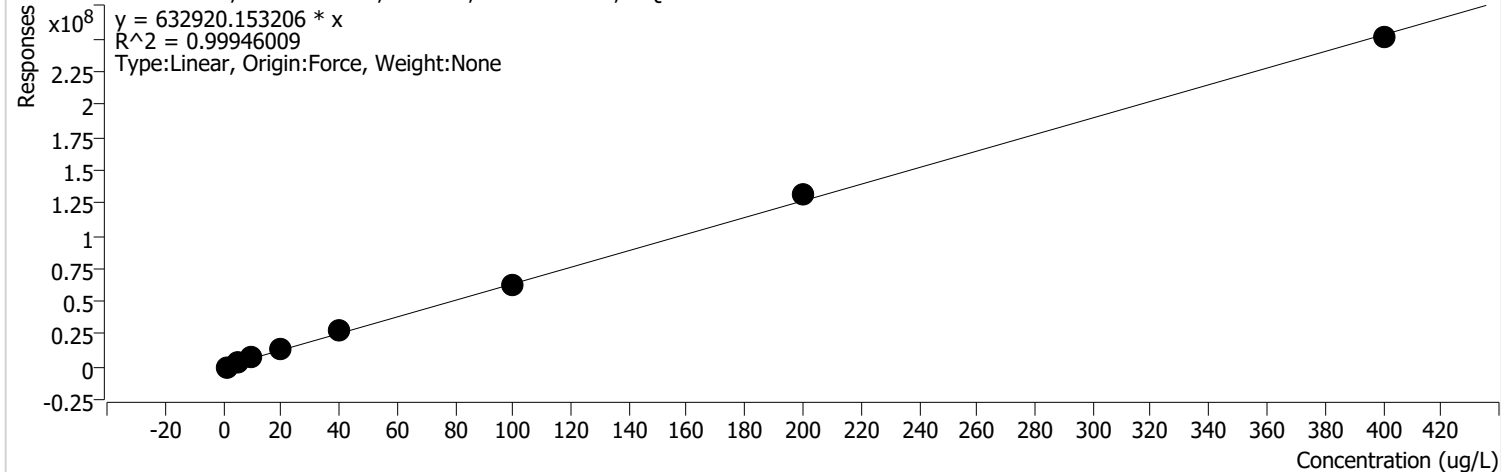
Calibration

Calibration Report

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Analysis Time	8/11/2023 12:09 PM	Reporter Name	FA\gc1625
Report Time	8/11/2023 12:11:04 PM	Batch State	Processed
Last Calib Update	8/11/2023 12:07 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

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Surr 1 TCMX - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



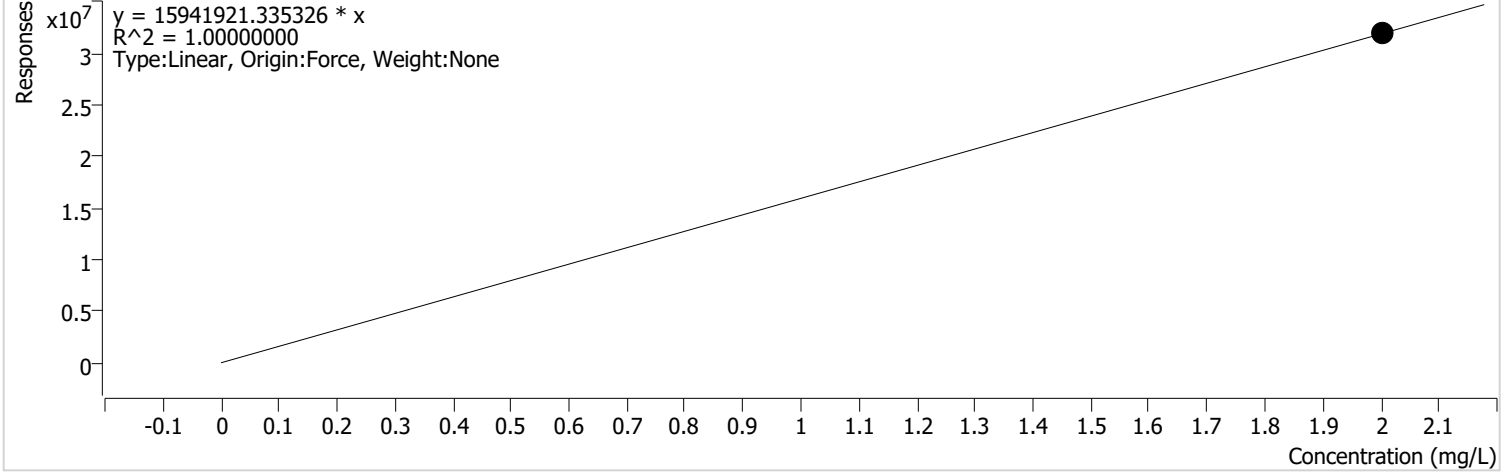
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D:\GC-16\Data\2023\071023\071024.D	Calibration	2	x	3115395	5.0000	623078.9900	
D:\GC-16\Data\2023\071023\071025.D	Calibration	3	x	7733283	10.0000	773328.2782	
D:\GC-16\Data\2023\071023\071026.D	Calibration	4	x	13594860	20.0000	679742.9826	
D:\GC-16\Data\2023\071023\071027.D	Calibration	5	x	27394256	40.0000	684856.4087	
D:\GC-16\Data\2023\071023\071028.D	Calibration	6	x	63130234	100.0000	631302.3428	
D:\GC-16\Data\2023\071023\071029.D	Calibration	7	x	130631266	200.0000	653156.3296	
D:\GC-16\Data\2023\071023\071030.D	Calibration	8	x	250898105	400.0000	627245.2623	

Calibration Report

Batch Path	D:\GC-16\Data\2023\071023\QuantResults\1242 ICAL.batch.bin	Analyst Name	FA\gc1625
Analysis Time	8/11/2023 12:09 PM	Reporter Name	FA\gc1625
Report Time	8/11/2023 12:11:05 PM	Batch State	Processed
Last Calib Update	8/11/2023 12:07 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

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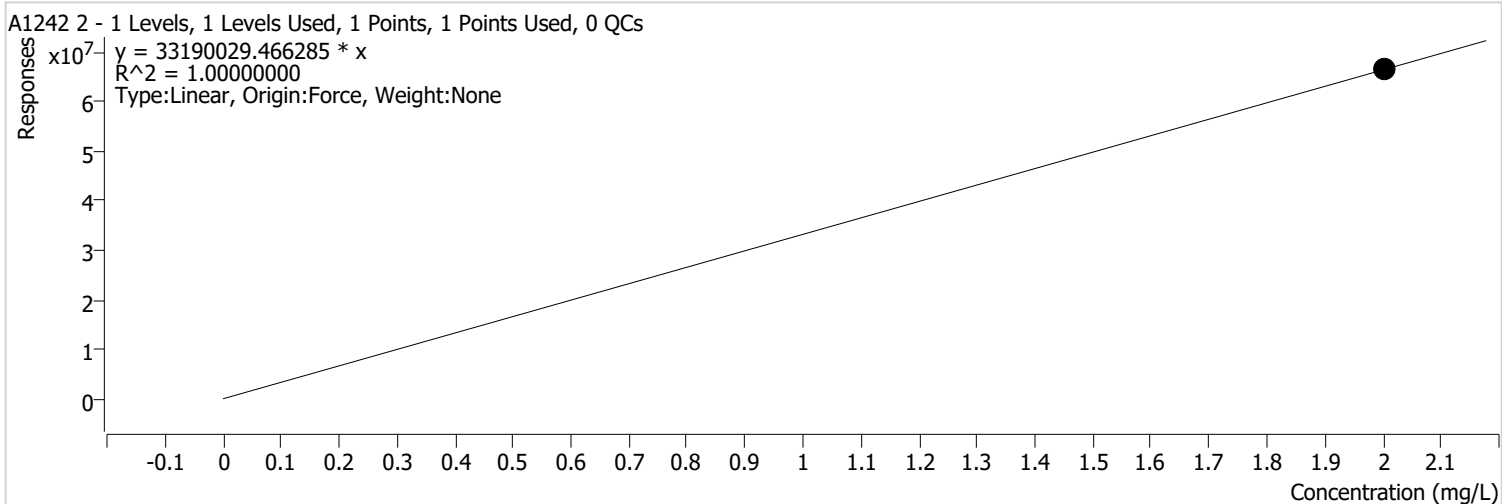


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Calibration Report

Batch Path	D:\GC-16\Data\2023\071023\QuantResults\1242 ICAL.batch.bin	Analyst Name	FA\gc1625
Analysis Time	8/11/2023 12:09 PM	Reporter Name	FA\gc1625
Report Time	8/11/2023 12:11:05 PM	Batch State	Processed
Last Calib Update	8/11/2023 12:07 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

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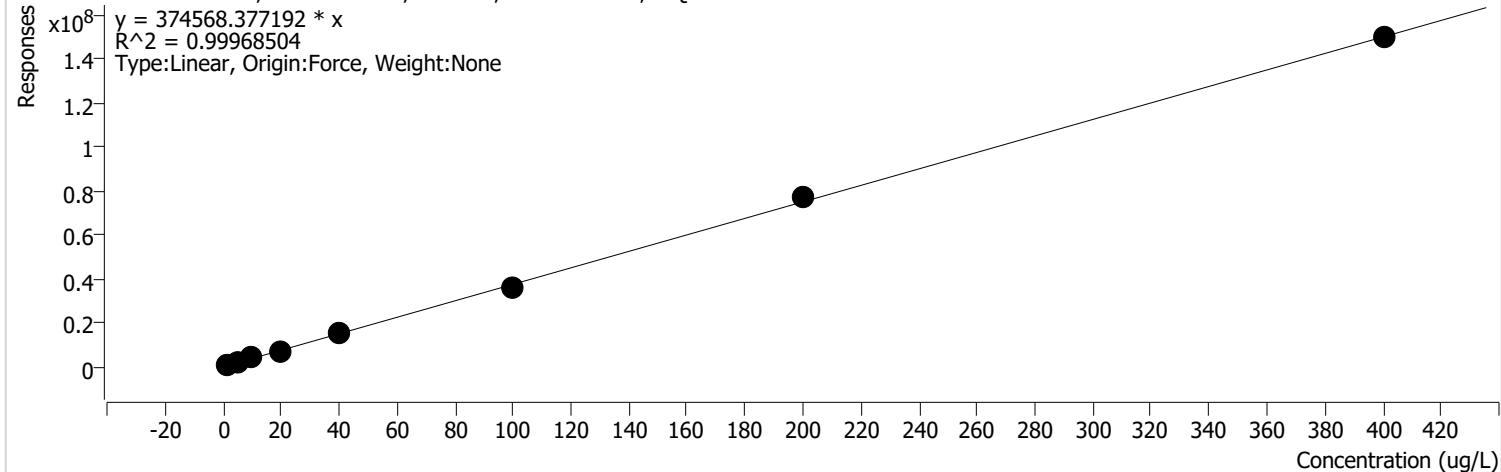
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-16\Data\2023\071023\071036.D	Calibration	9	x	66380059	2.0000	33190029.4663	

Calibration Report

Batch Path	D:\GC-16\Data\2023\071023\QuantResults\1242 ICAL.batch.bin	Analyst Name	FA\gc1625
Analysis Time	8/11/2023 12:09 PM	Reporter Name	FA\gc1625
Report Time	8/11/2023 12:11:05 PM	Batch State	Processed
Last Calib Update	8/11/2023 12:07 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

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Surr 1 TCMX 2 - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

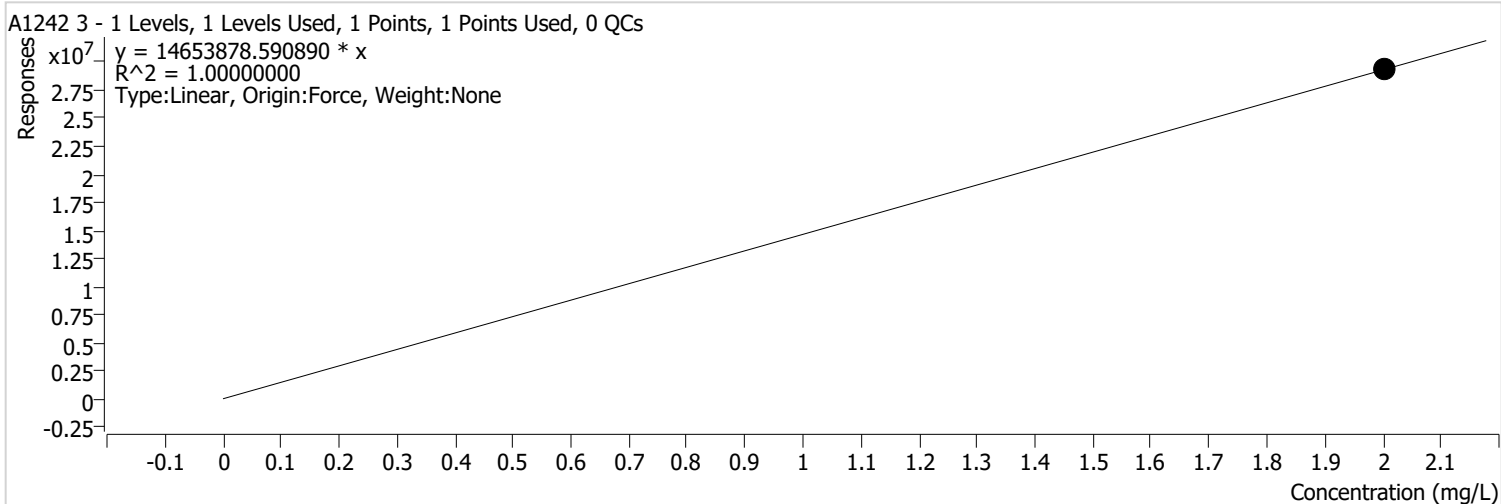


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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D:\GC-16\Data\2023\071023\071025.D	Calibration	3	x	3869858	10.0000	386985.7 541	
D:\GC-16\Data\2023\071023\071026.D	Calibration	4	x	7052088	20.0000	352604.4 200	
D:\GC-16\Data\2023\071023\071027.D	Calibration	5	x	14841227	40.0000	371030.6 651	
D:\GC-16\Data\2023\071023\071028.D	Calibration	6	x	35862062	100.0000	358620.6 194	
D:\GC-16\Data\2023\071023\071029.D	Calibration	7	x	76634954	200.0000	383174.7 723	
D:\GC-16\Data\2023\071023\071030.D	Calibration	8	x	149402871	400.0000	373507.1 769	

Calibration Report

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Analysis Time	8/11/2023 12:09 PM	Reporter Name	FA\gc1625
Report Time	8/11/2023 12:11:05 PM	Batch State	Processed
Last Calib Update	8/11/2023 12:07 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

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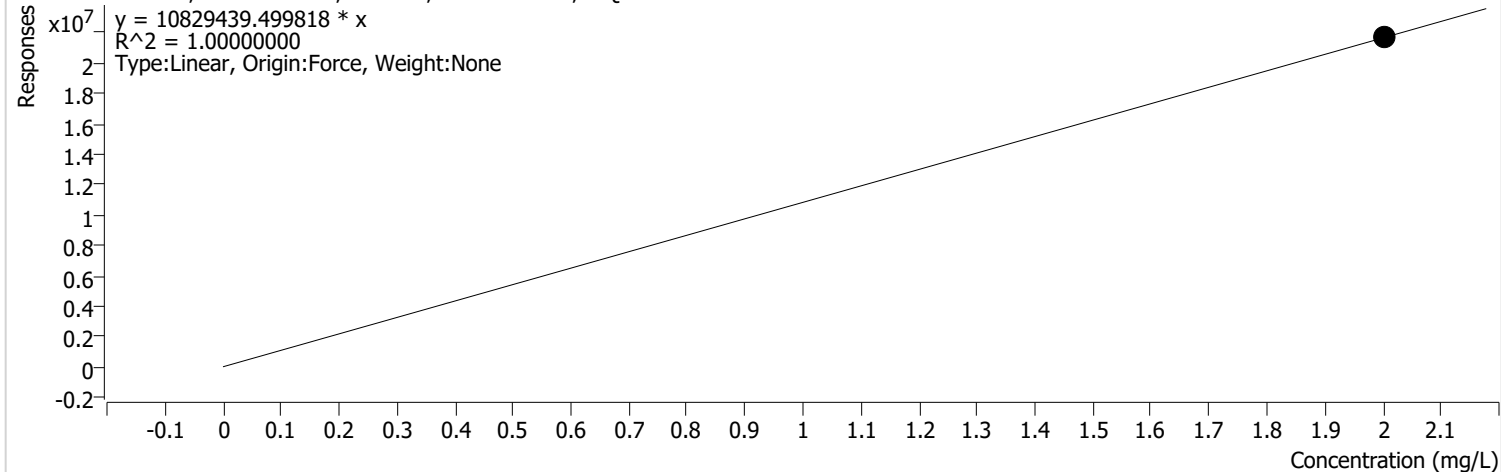
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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Calibration Report

Batch Path	D:\GC-16\Data\2023\071023\QuantResults\1242 ICAL.batch.bin	Analyst Name	FA\gc1625
Analysis Time	8/11/2023 12:09 PM	Reporter Name	FA\gc1625
Report Time	8/11/2023 12:11:05 PM	Batch State	Processed
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Quant Batch Version	10.0		

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A1242 4 - 1 Levels, 1 Levels Used, 1 Points, 1 Points Used, 0 QCs

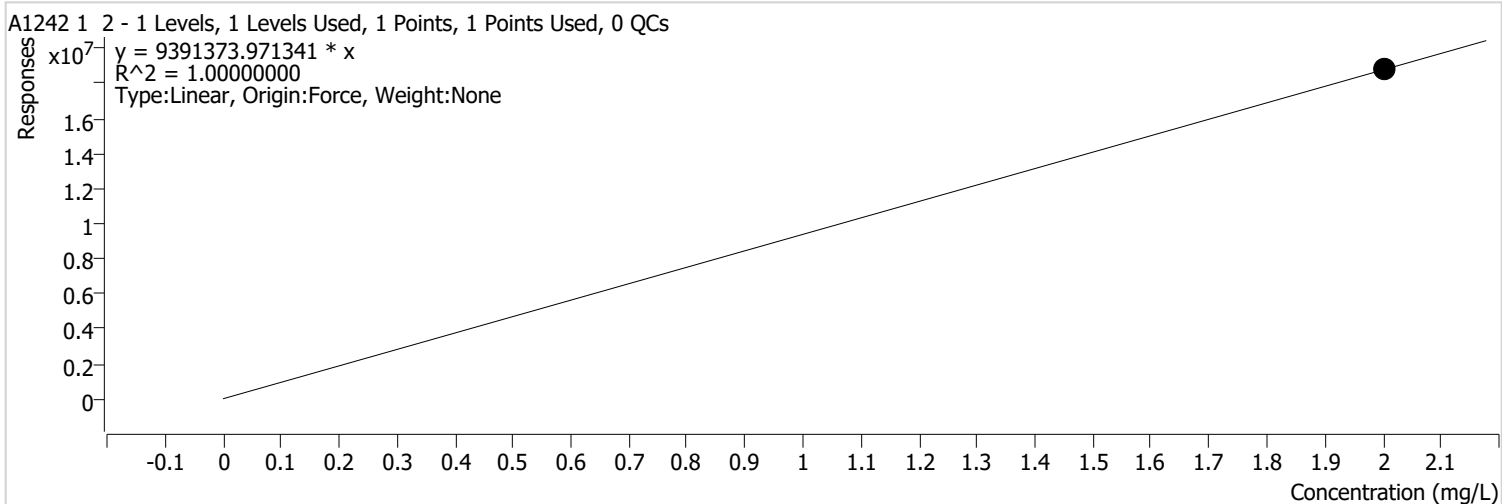


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-16\Data\2023\071023\071036.D	Calibration	9	x	21658879	2.0000	10829439.4998	

Calibration Report

Batch Path	D:\GC-16\Data\2023\071023\QuantResults\1242 ICAL.batch.bin	Analyst Name	FA\gc1625
Analysis Time	8/11/2023 12:09 PM	Reporter Name	FA\gc1625
Report Time	8/11/2023 12:11:05 PM	Batch State	Processed
Last Calib Update	8/11/2023 12:07 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

A1242 1 2 %RSE =

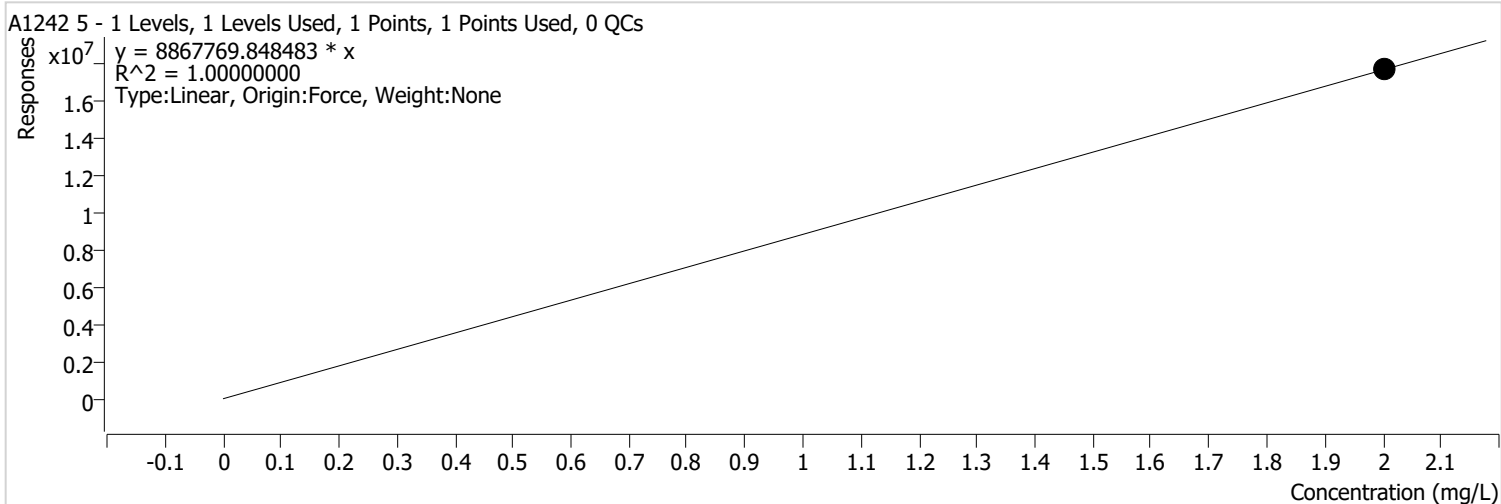


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-16\Data\2023\071023\071036.D	Calibration	9	x	18782748	2.0000	9391373.9713	

Calibration Report

Batch Path	D:\GC-16\Data\2023\071023\QuantResults\1242 ICAL.batch.bin	Analyst Name	FA\gc1625
Analysis Time	8/11/2023 12:09 PM	Reporter Name	FA\gc1625
Report Time	8/11/2023 12:11:05 PM	Batch State	Processed
Last Calib Update	8/11/2023 12:07 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

A1242 5 %RSE =

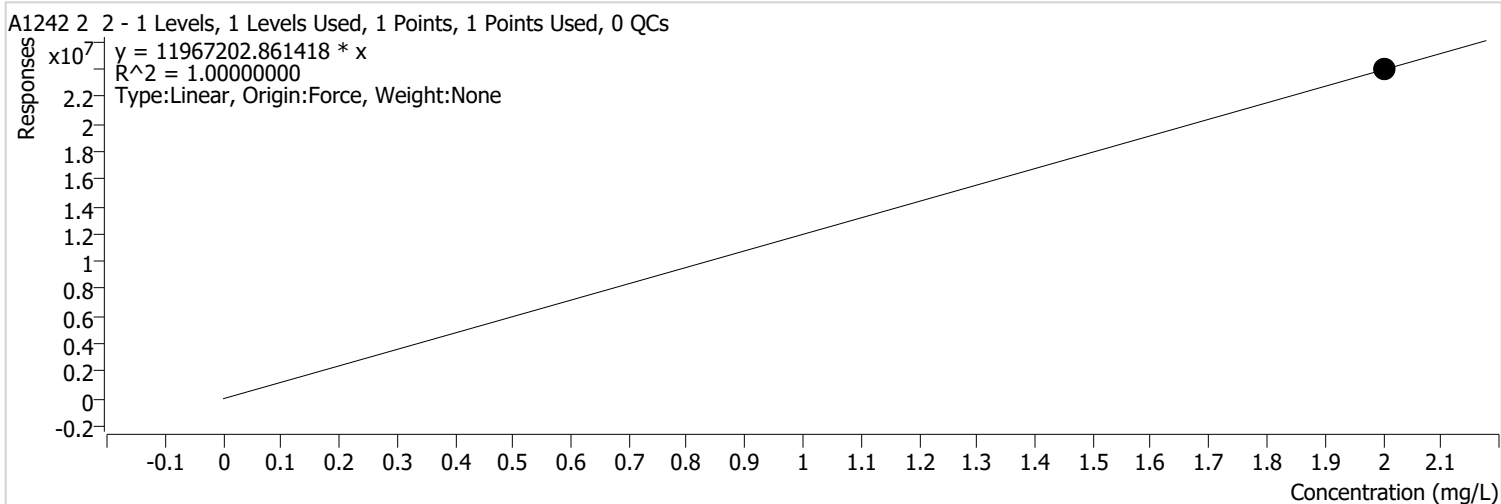


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-16\Data\2023\071023\071036.D	Calibration	9	x	17735540	2.0000	8867769.8485	

Calibration Report

Batch Path	D:\GC-16\Data\2023\071023\QuantResults\1242 ICAL.batch.bin	Analyst Name	FA\gc1625
Analysis Time	8/11/2023 12:09 PM	Reporter Name	FA\gc1625
Report Time	8/11/2023 12:11:05 PM	Batch State	Processed
Last Calib Update	8/11/2023 12:07 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

A1242 2 2 %RSE =

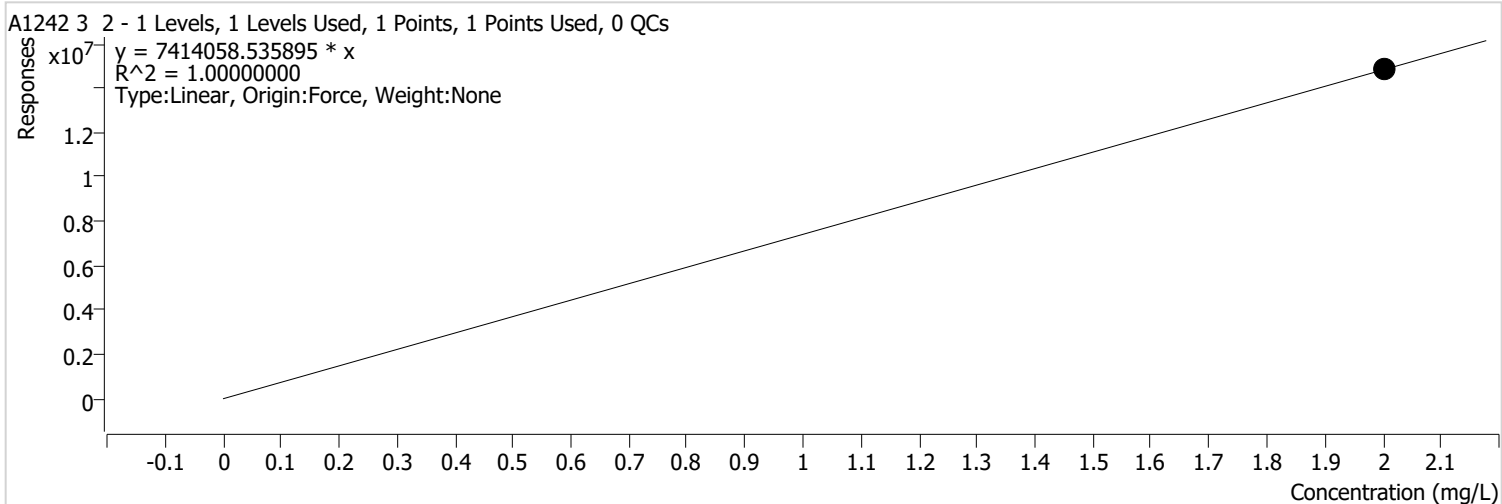


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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Calibration Report

Batch Path	D:\GC-16\Data\2023\071023\QuantResults\1242 ICAL.batch.bin	Analyst Name	FA\gc1625
Analysis Time	8/11/2023 12:09 PM	Reporter Name	FA\gc1625
Report Time	8/11/2023 12:11:05 PM	Batch State	Processed
Last Calib Update	8/11/2023 12:07 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

A1242 3 2 %RSE =



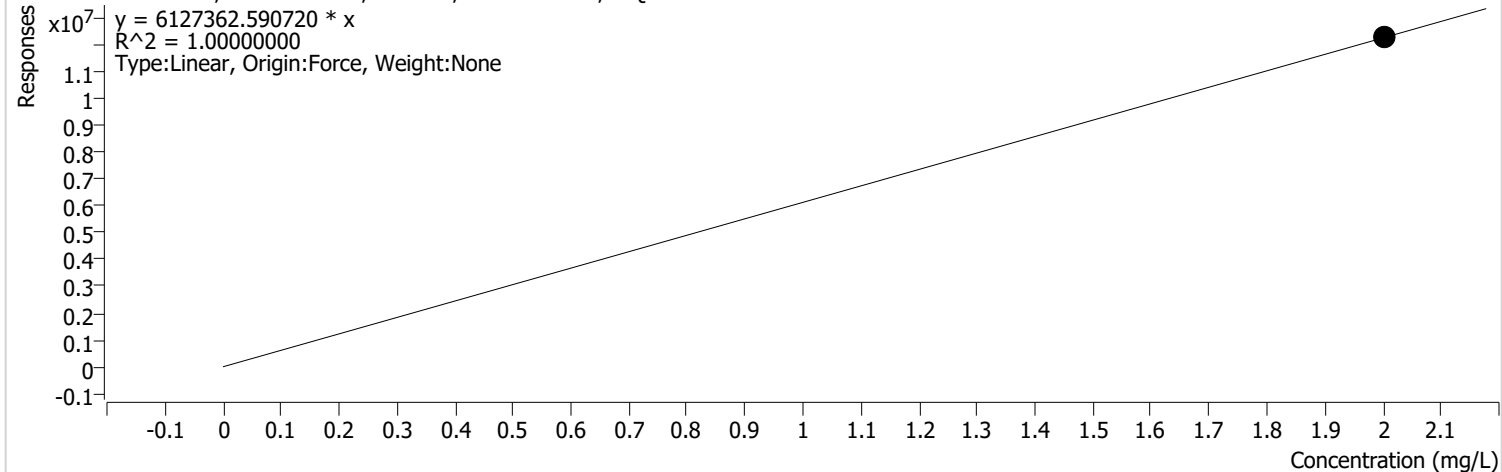
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-16\Data\2023\071023\071036.D	Calibration	9	x	14828117	2.0000	7414058.5359	

Calibration Report

Batch Path	D:\GC-16\Data\2023\071023\QuantResults\1242 ICAL.batch.bin	Analyst Name	FA\gc1625
Analysis Time	8/11/2023 12:09 PM	Reporter Name	FA\gc1625
Report Time	8/11/2023 12:11:05 PM	Batch State	Processed
Last Calib Update	8/11/2023 12:07 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

A1242 4 2 %RSE =

A1242 4 2 - 1 Levels, 1 Levels Used, 1 Points, 1 Points Used, 0 QCs

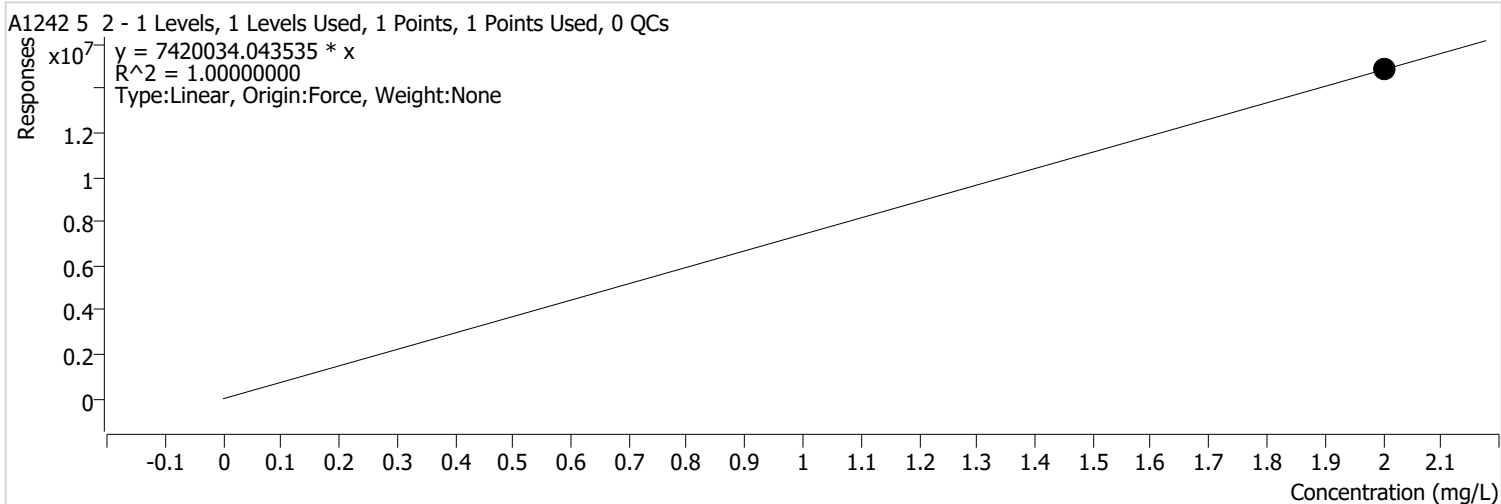


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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Calibration Report

Batch Path	D:\GC-16\Data\2023\071023\QuantResults\1242 ICAL.batch.bin	Analyst Name	FA\gc1625
Analysis Time	8/11/2023 12:09 PM	Reporter Name	FA\gc1625
Report Time	8/11/2023 12:11:05 PM	Batch State	Processed
Last Calib Update	8/11/2023 12:07 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

A1242 5 2 %RSE =



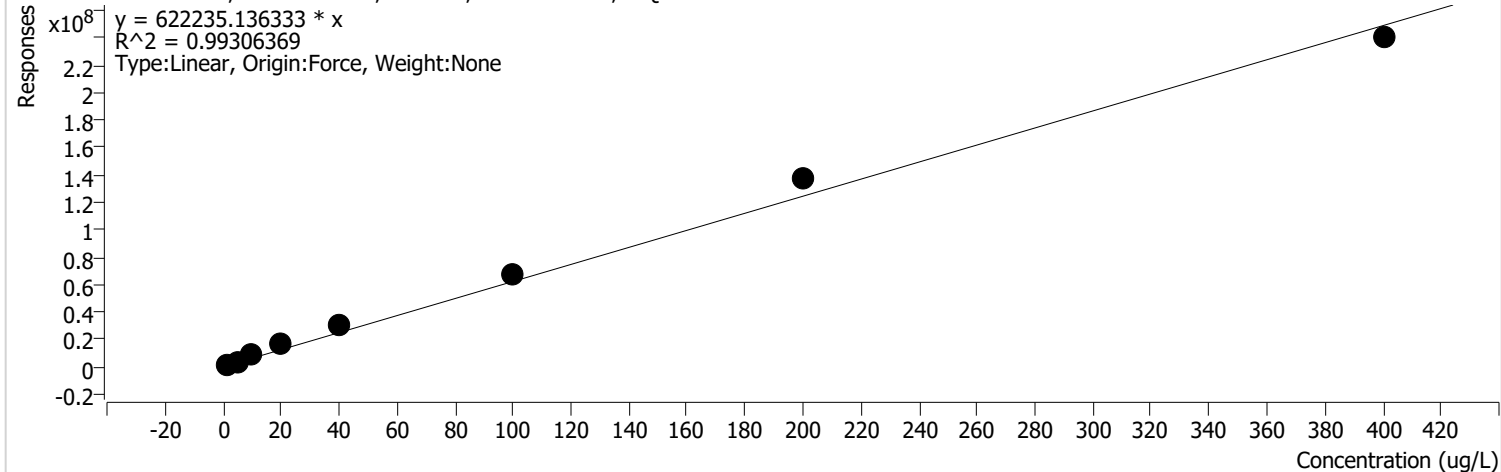
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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Calibration Report

Batch Path	D:\GC-16\Data\2023\071023\QuantResults\1242 ICAL.batch.bin	Analyst Name	FA\gc1625
Analysis Time	8/11/2023 12:09 PM	Reporter Name	FA\gc1625
Report Time	8/11/2023 12:11:05 PM	Batch State	Processed
Last Calib Update	8/11/2023 12:07 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

Surr 2 DCBP %RSE =

Surr 2 DCBP - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

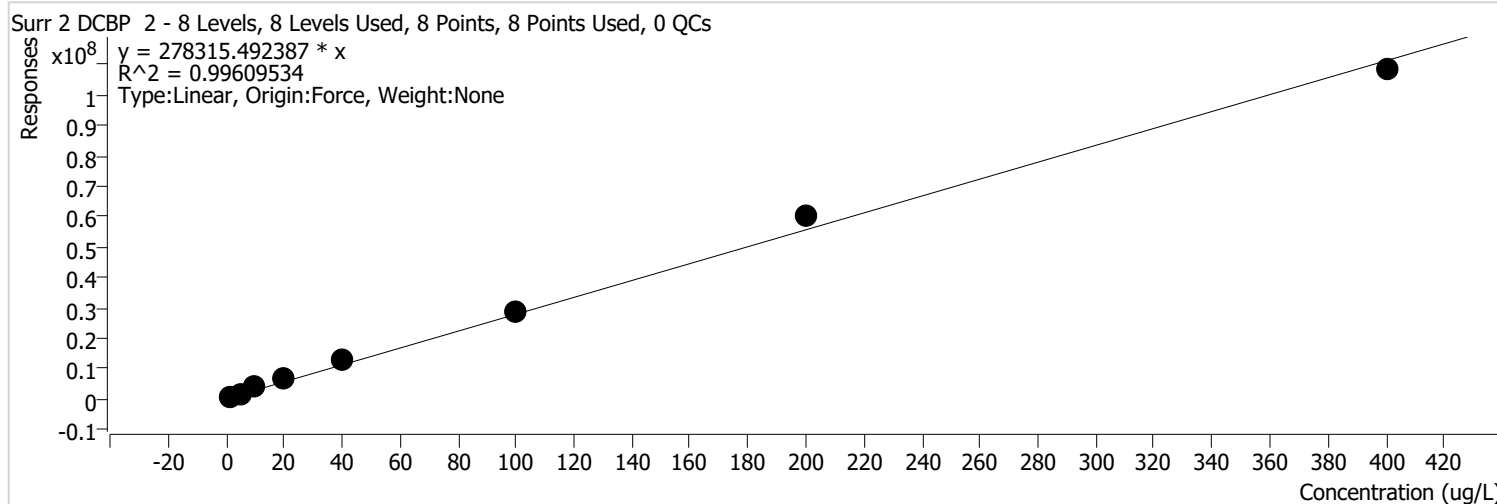


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-16\Data\2023\071023\071023.D	Calibration	1	x	1226815	1.2500	981451.6 514	
D:\GC-16\Data\2023\071023\071024.D	Calibration	2	x	3376982	5.0000	675396.4 454	
D:\GC-16\Data\2023\071023\071025.D	Calibration	3	x	9204076	10.0000	920407.6 197	
D:\GC-16\Data\2023\071023\071026.D	Calibration	4	x	16514972	20.0000	825748.6 213	
D:\GC-16\Data\2023\071023\071027.D	Calibration	5	x	30456778	40.0000	761419.4 577	
D:\GC-16\Data\2023\071023\071028.D	Calibration	6	x	67429949	100.0000	674299.4 907	
D:\GC-16\Data\2023\071023\071029.D	Calibration	7	x	138079687	200.0000	690398.4 328	
D:\GC-16\Data\2023\071023\071030.D	Calibration	8	x	239936596	400.0000	599841.4 909	

Calibration Report

Batch Path	D:\GC-16\Data\2023\071023\QuantResults\1242 ICAL.batch.bin	Analyst Name	FA\gc1625
Analysis Time	8/11/2023 12:09 PM	Reporter Name	FA\gc1625
Report Time	8/11/2023 12:11:05 PM	Batch State	Processed
Last Calib Update	8/11/2023 12:07 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

Surr 2 DCBP 2 %RSE =



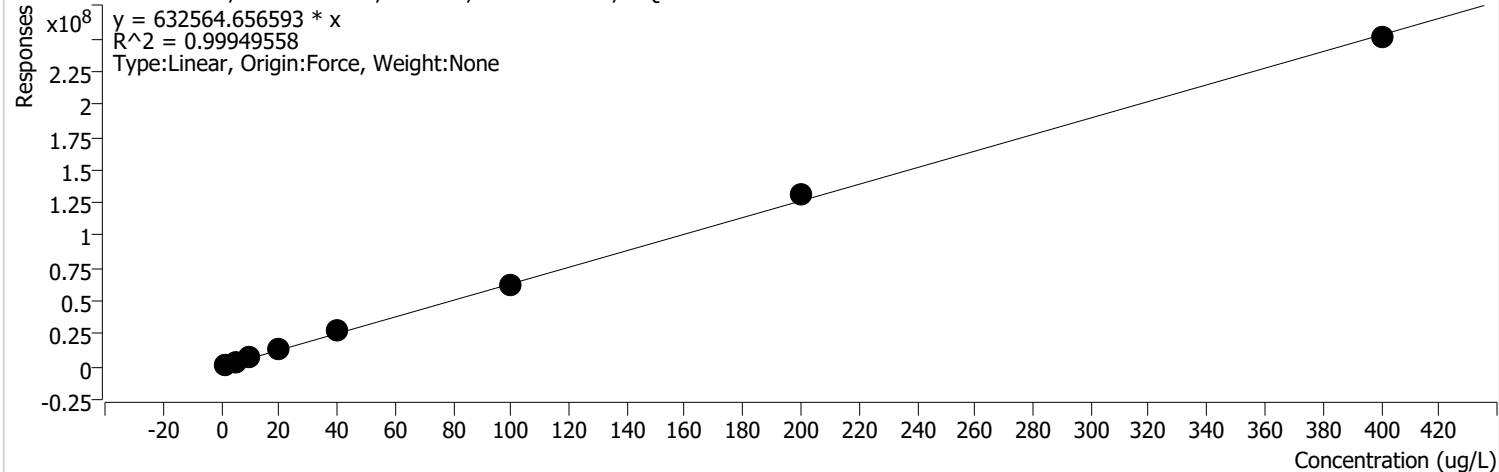
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-16\Data\2023\071023\071023.D	Calibration	1	x	458155	1.2500	366523.9742	
D:\GC-16\Data\2023\071023\071024.D	Calibration	2	x	1310548	5.0000	262109.5952	
D:\GC-16\Data\2023\071023\071025.D	Calibration	3	x	3712241	10.0000	371224.0747	
D:\GC-16\Data\2023\071023\071026.D	Calibration	4	x	6786367	20.0000	339318.3622	
D:\GC-16\Data\2023\071023\071027.D	Calibration	5	x	12791820	40.0000	319795.4905	
D:\GC-16\Data\2023\071023\071028.D	Calibration	6	x	28813951	100.0000	288139.5074	
D:\GC-16\Data\2023\071023\071029.D	Calibration	7	x	60664074	200.0000	303320.3724	
D:\GC-16\Data\2023\071023\071030.D	Calibration	8	x	108330627	400.0000	270826.5672	

Calibration Report

Batch Path	D:\GC-16\Data\2023\071023\QuantResults\1248 ICAL.batch.bin	Analyst Name	FA\gc1625
Analysis Time	8/14/2023 10:35 AM	Reporter Name	FA\gc1625
Report Time	8/14/2023 10:38:52 AM	Batch State	Processed
Last Calib Update	8/14/2023 10:34 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Surr 1 TCMX %RSE =

Surr 1 TCMX - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

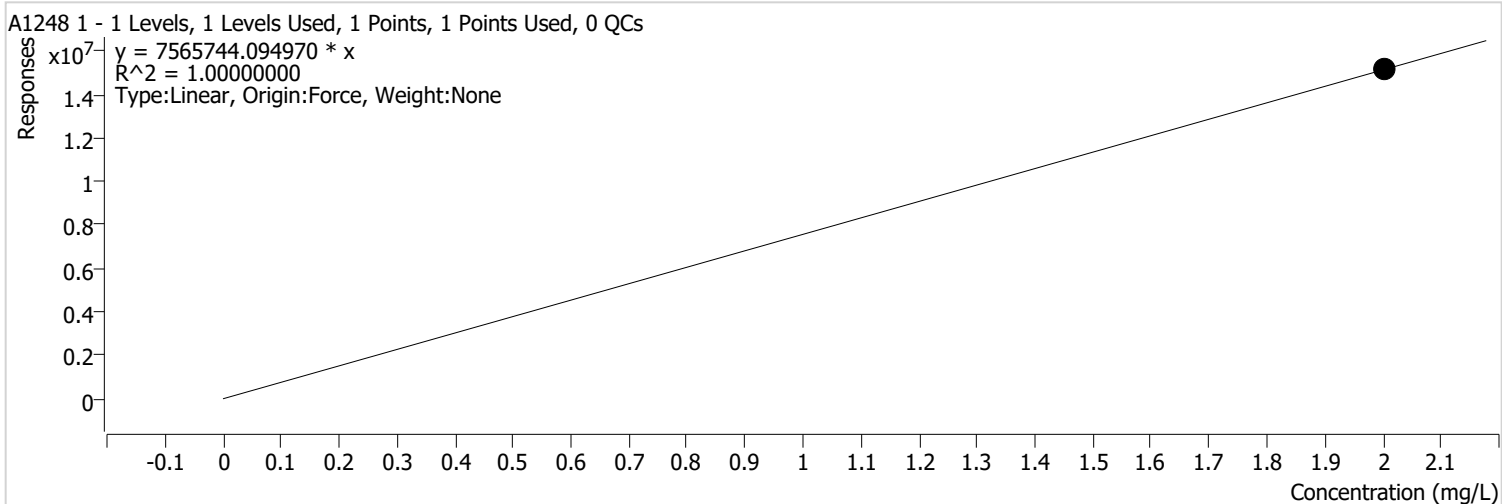


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-16\Data\2023\071023\071023.D	Calibration	1	x	944125	1.2500	755300.3 800	
D:\GC-16\Data\2023\071023\071024.D	Calibration	2	x	3041072	5.0000	608214.4 798	
D:\GC-16\Data\2023\071023\071025.D	Calibration	3	x	7662322	10.0000	766232.2 171	
D:\GC-16\Data\2023\071023\071026.D	Calibration	4	x	13460800	20.0000	673040.0 176	
D:\GC-16\Data\2023\071023\071027.D	Calibration	5	x	27223968	40.0000	680599.1 935	
D:\GC-16\Data\2023\071023\071028.D	Calibration	6	x	62960923	100.0000	629609.2 301	
D:\GC-16\Data\2023\071023\071029.D	Calibration	7	x	130534042	200.0000	652670.2 112	
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Calibration Report

Batch Path	D:\GC-16\Data\2023\071023\QuantResults\1248 ICAL.batch.bin	Analyst Name	FA\gc1625
Analysis Time	8/14/2023 10:35 AM	Reporter Name	FA\gc1625
Report Time	8/14/2023 10:38:53 AM	Batch State	Processed
Last Calib Update	8/14/2023 10:34 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

A1248 1 %RSE =



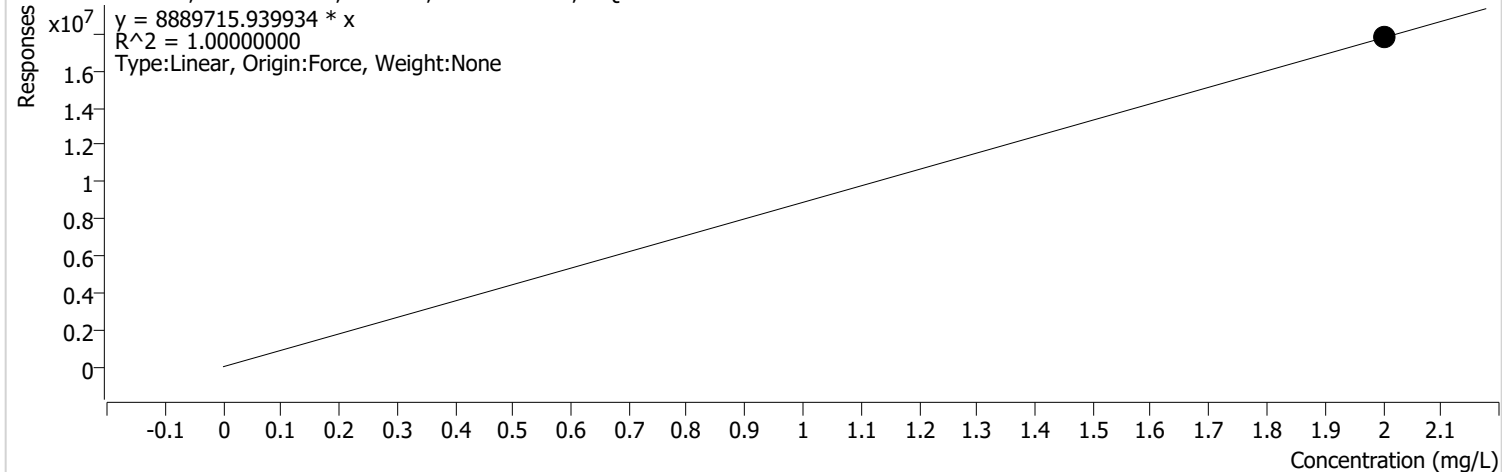
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-16\Data\2023\071023\071037.D	Calibration	9	x	15131488	2.0000	7565744.0950	

Calibration Report

Batch Path	D:\GC-16\Data\2023\071023\QuantResults\1248 ICAL.batch.bin	Analyst Name	FA\gc1625
Analysis Time	8/14/2023 10:35 AM	Reporter Name	FA\gc1625
Report Time	8/14/2023 10:38:53 AM	Batch State	Processed
Last Calib Update	8/14/2023 10:34 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

A1248 2 %RSE =

A1248 2 - 1 Levels, 1 Levels Used, 1 Points, 1 Points Used, 0 QCs



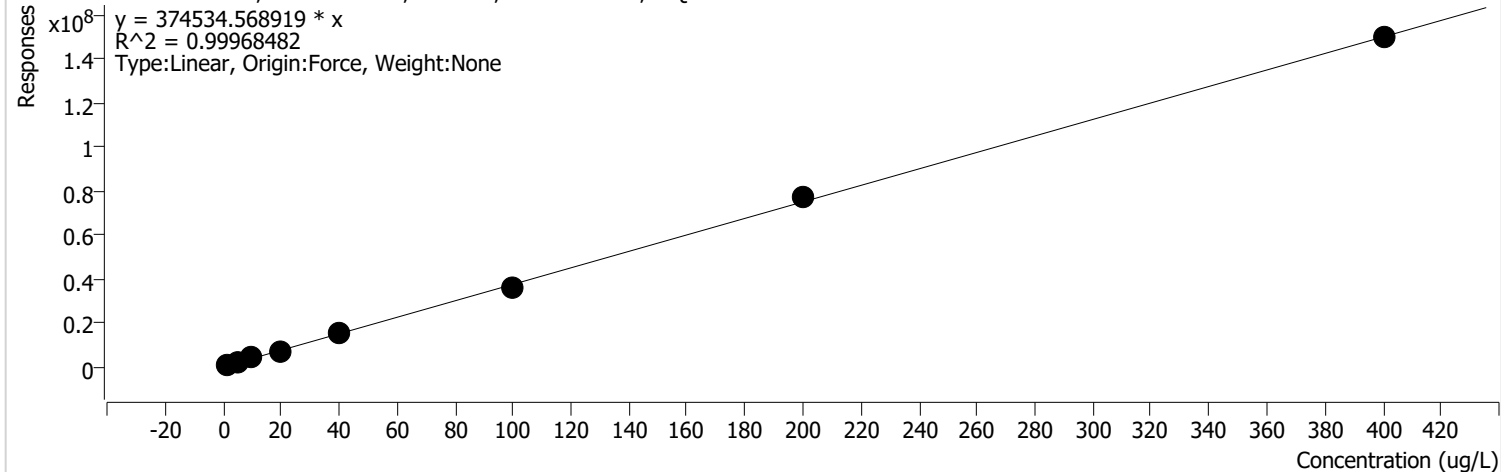
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-16\Data\2023\071023\071037.D	Calibration	9	x	17779432	2.0000	8889715.9399	

Calibration Report

Batch Path	D:\GC-16\Data\2023\071023\QuantResults\1248 ICAL.batch.bin	Analyst Name	FA\gc1625
Analysis Time	8/14/2023 10:35 AM	Reporter Name	FA\gc1625
Report Time	8/14/2023 10:38:53 AM	Batch State	Processed
Last Calib Update	8/14/2023 10:34 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Surr 1 TCMX 2 %RSE =

Surr 1 TCMX 2 - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



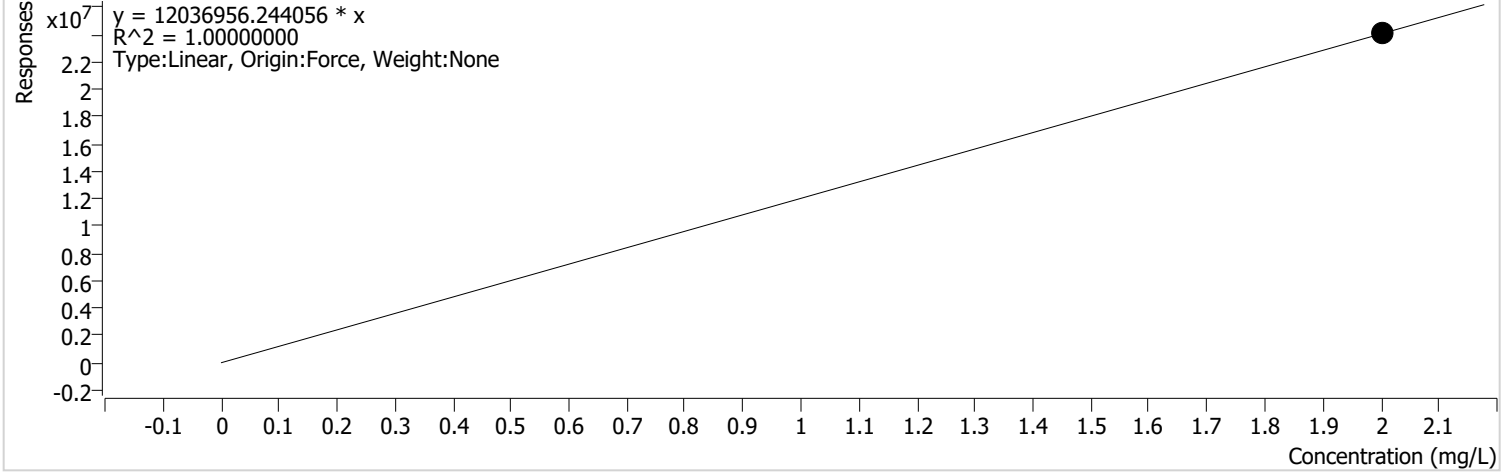
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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D:\GC-16\Data\2023\071023\071024.D	Calibration	2	x	1486877	5.0000	297375.4 762	
D:\GC-16\Data\2023\071023\071025.D	Calibration	3	x	3863485	10.0000	386348.5 164	
D:\GC-16\Data\2023\071023\071026.D	Calibration	4	x	7037646	20.0000	351882.2 894	
D:\GC-16\Data\2023\071023\071027.D	Calibration	5	x	14829787	40.0000	370744.6 806	
D:\GC-16\Data\2023\071023\071028.D	Calibration	6	x	35857142	100.0000	358571.4 152	
D:\GC-16\Data\2023\071023\071029.D	Calibration	7	x	76624238	200.0000	383121.1 919	
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Calibration Report

Batch Path	D:\GC-16\Data\2023\071023\QuantResults\1248 ICAL.batch.bin	Analyst Name	FA\gc1625
Analysis Time	8/14/2023 10:35 AM	Reporter Name	FA\gc1625
Report Time	8/14/2023 10:38:53 AM	Batch State	Processed
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Quant Batch Version	10.0		

A1248 3 %RSE =

A1248 3 - 1 Levels, 1 Levels Used, 1 Points, 1 Points Used, 0 QCs



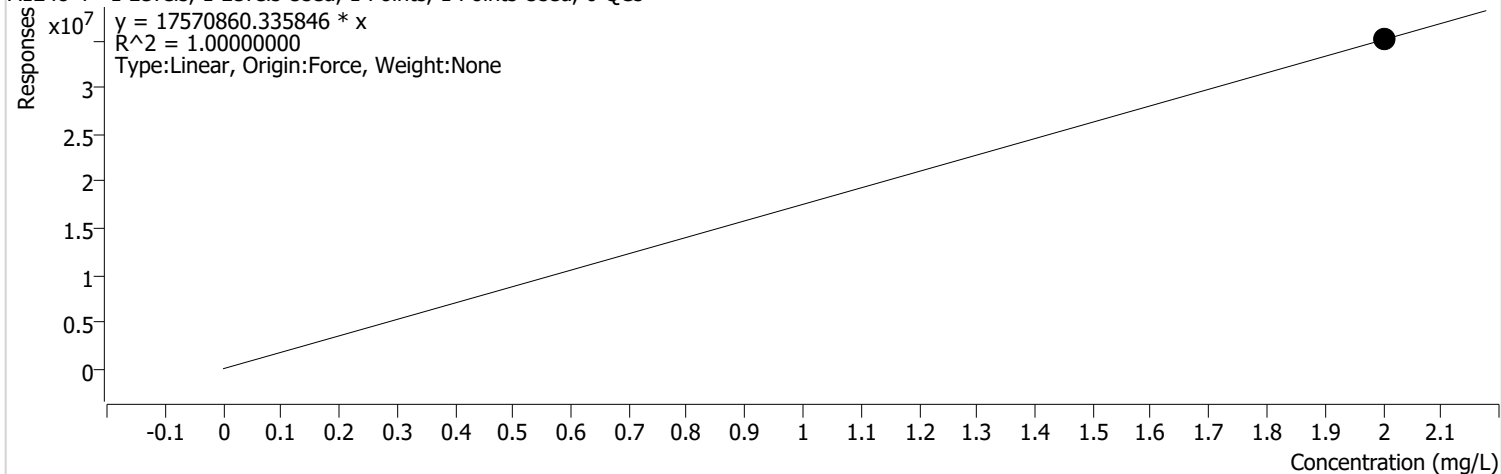
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Calibration Report

Batch Path	D:\GC-16\Data\2023\071023\QuantResults\1248 ICAL.batch.bin	Analyst Name	FA\gc1625
Analysis Time	8/14/2023 10:35 AM	Reporter Name	FA\gc1625
Report Time	8/14/2023 10:38:53 AM	Batch State	Processed
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A1248 4 %RSE =

A1248 4 - 1 Levels, 1 Levels Used, 1 Points, 1 Points Used, 0 QCs

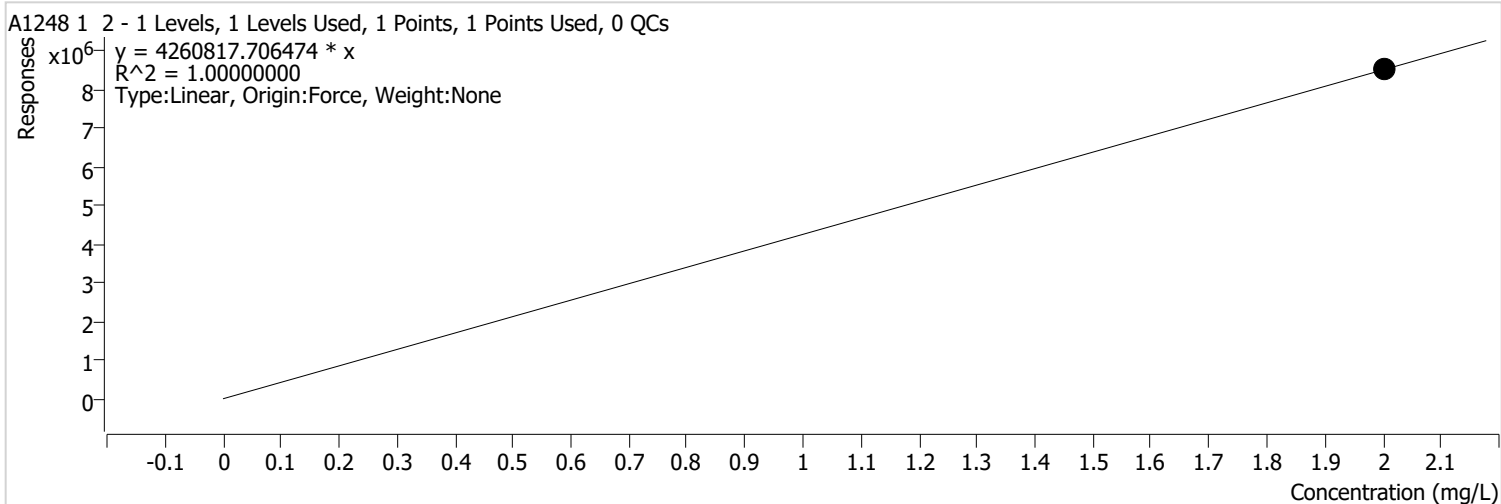


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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Calibration Report

Batch Path	D:\GC-16\Data\2023\071023\QuantResults\1248 ICAL.batch.bin	Analyst Name	FA\gc1625
Analysis Time	8/14/2023 10:35 AM	Reporter Name	FA\gc1625
Report Time	8/14/2023 10:38:53 AM	Batch State	Processed
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A1248 1 2 %RSE =

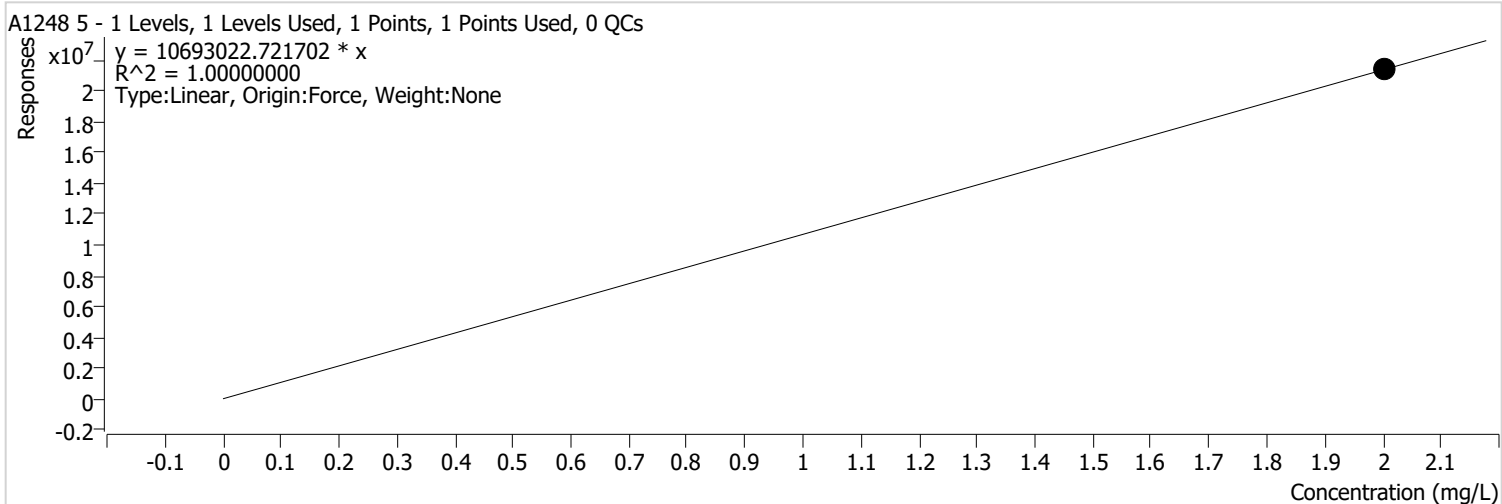


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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Calibration Report

Batch Path	D:\GC-16\Data\2023\071023\QuantResults\1248 ICAL.batch.bin	Analyst Name	FA\gc1625
Analysis Time	8/14/2023 10:35 AM	Reporter Name	FA\gc1625
Report Time	8/14/2023 10:38:53 AM	Batch State	Processed
Last Calib Update	8/14/2023 10:34 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

A1248 5 %RSE =



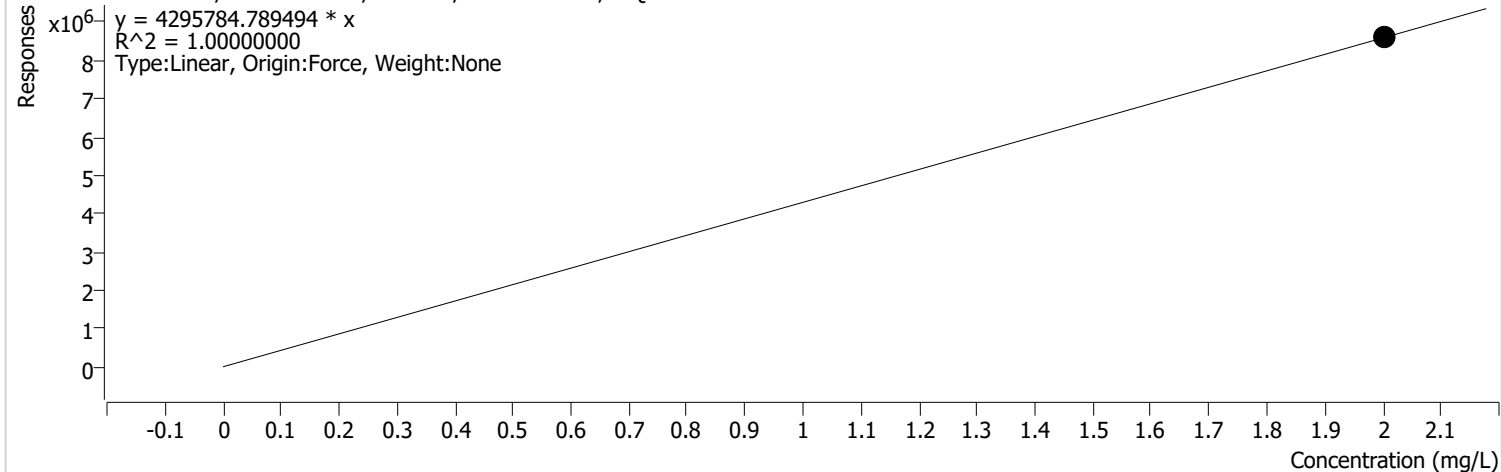
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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Calibration Report

Batch Path	D:\GC-16\Data\2023\071023\QuantResults\1248 ICAL.batch.bin	Analyst Name	FA\gc1625
Analysis Time	8/14/2023 10:35 AM	Reporter Name	FA\gc1625
Report Time	8/14/2023 10:38:53 AM	Batch State	Processed
Last Calib Update	8/14/2023 10:34 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

A1248 2 2 %RSE =

A1248 2 2 - 1 Levels, 1 Levels Used, 1 Points, 1 Points Used, 0 QCs



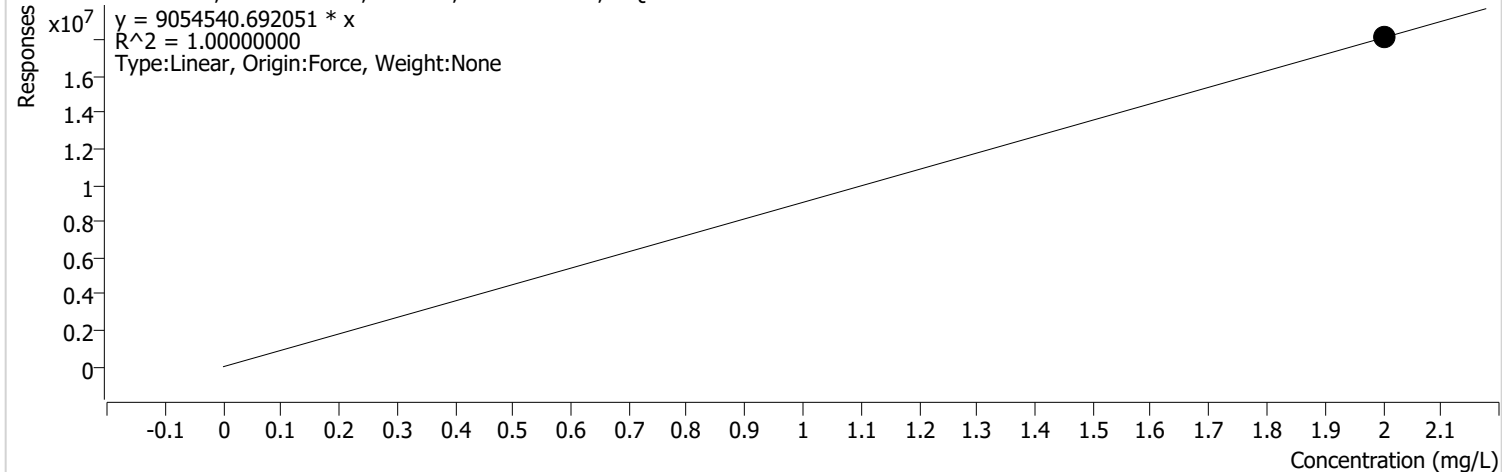
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-16\Data\2023\071023\071037.D	Calibration	9	x	8591570	2.0000	4295784.7895	

Calibration Report

Batch Path	D:\GC-16\Data\2023\071023\QuantResults\1248 ICAL.batch.bin	Analyst Name	FA\gc1625
Analysis Time	8/14/2023 10:35 AM	Reporter Name	FA\gc1625
Report Time	8/14/2023 10:38:53 AM	Batch State	Processed
Last Calib Update	8/14/2023 10:34 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

A1248 3 2 %RSE =

A1248 3 2 - 1 Levels, 1 Levels Used, 1 Points, 1 Points Used, 0 QCs

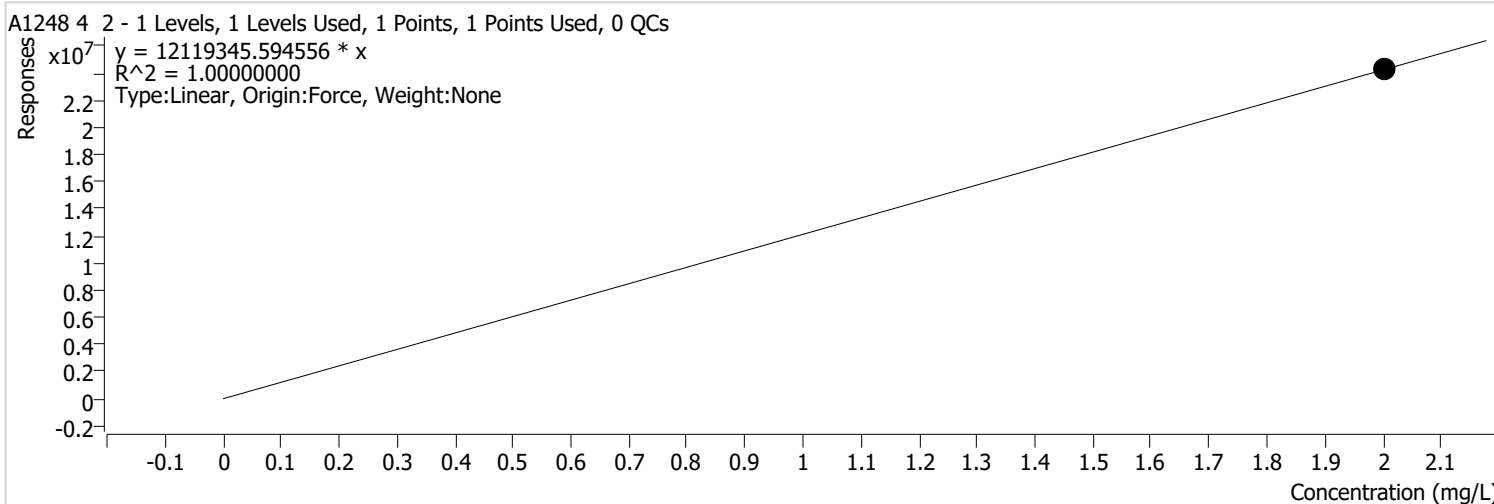


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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Calibration Report

Batch Path	D:\GC-16\Data\2023\071023\QuantResults\1248 ICAL.batch.bin	Analyst Name	FA\gc1625
Analysis Time	8/14/2023 10:35 AM	Reporter Name	FA\gc1625
Report Time	8/14/2023 10:38:53 AM	Batch State	Processed
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Quant Batch Version	10.0		

A1248 4 2 %RSE =

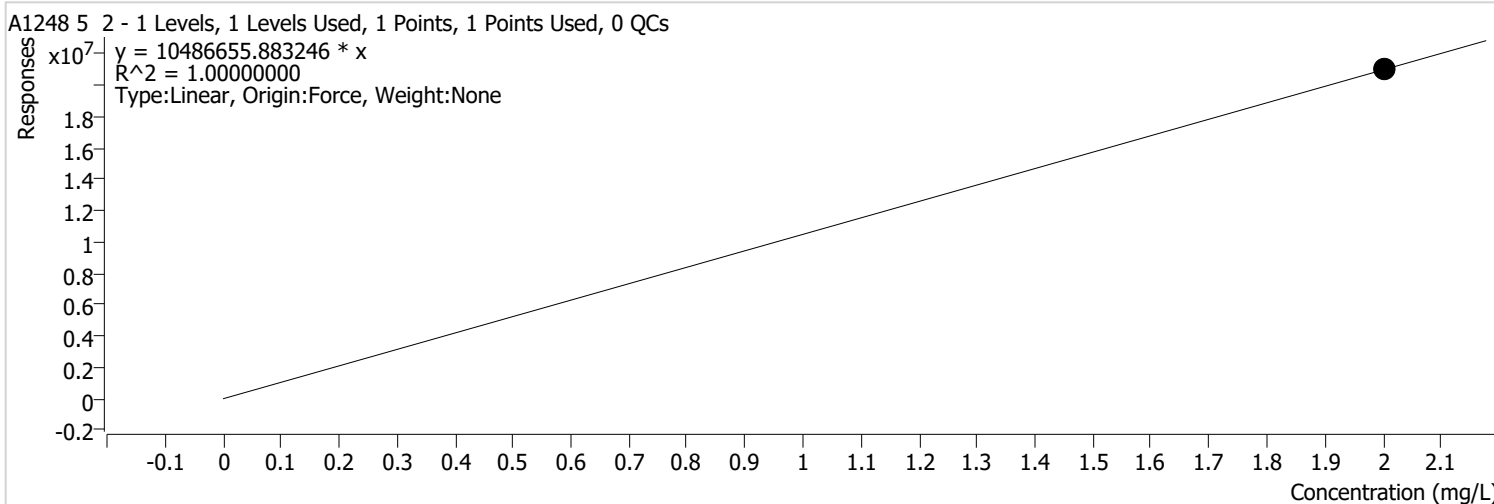


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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Calibration Report

Batch Path	D:\GC-16\Data\2023\071023\QuantResults\1248 ICAL.batch.bin	Analyst Name	FA\gc1625
Analysis Time	8/14/2023 10:35 AM	Reporter Name	FA\gc1625
Report Time	8/14/2023 10:38:53 AM	Batch State	Processed
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Quant Batch Version	10.0		

A1248 5 2 %RSE =



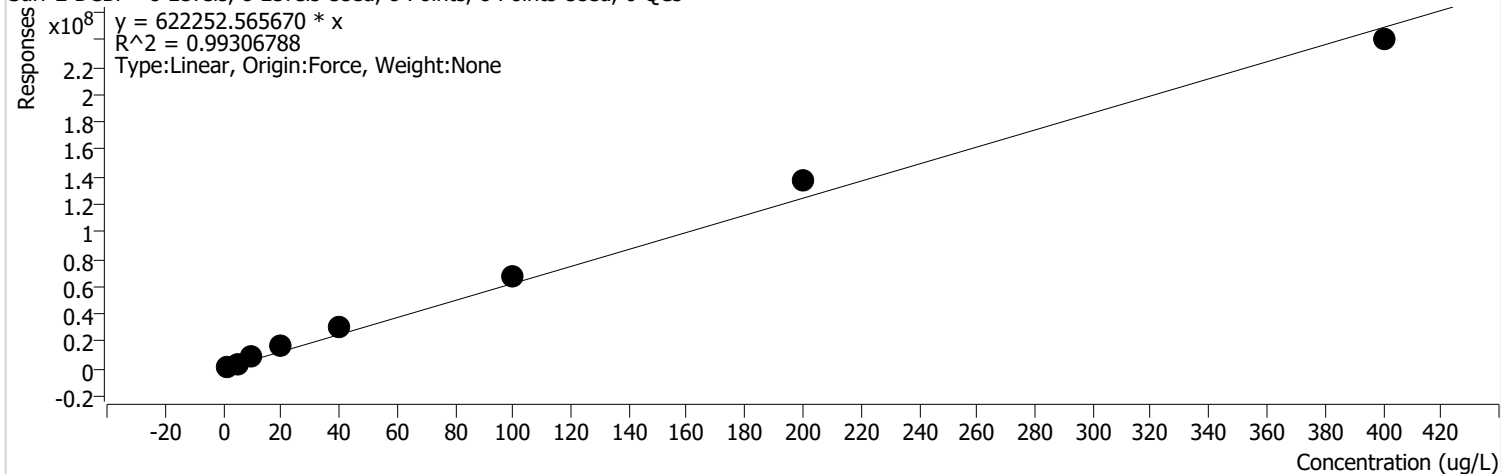
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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Calibration Report

Batch Path	D:\GC-16\Data\2023\071023\QuantResults\1248 ICAL.batch.bin	Analyst Name	FA\gc1625
Analysis Time	8/14/2023 10:35 AM	Reporter Name	FA\gc1625
Report Time	8/14/2023 10:38:53 AM	Batch State	Processed
Last Calib Update	8/14/2023 10:34 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Surr 2 DCBP %RSE =

Surr 2 DCBP - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

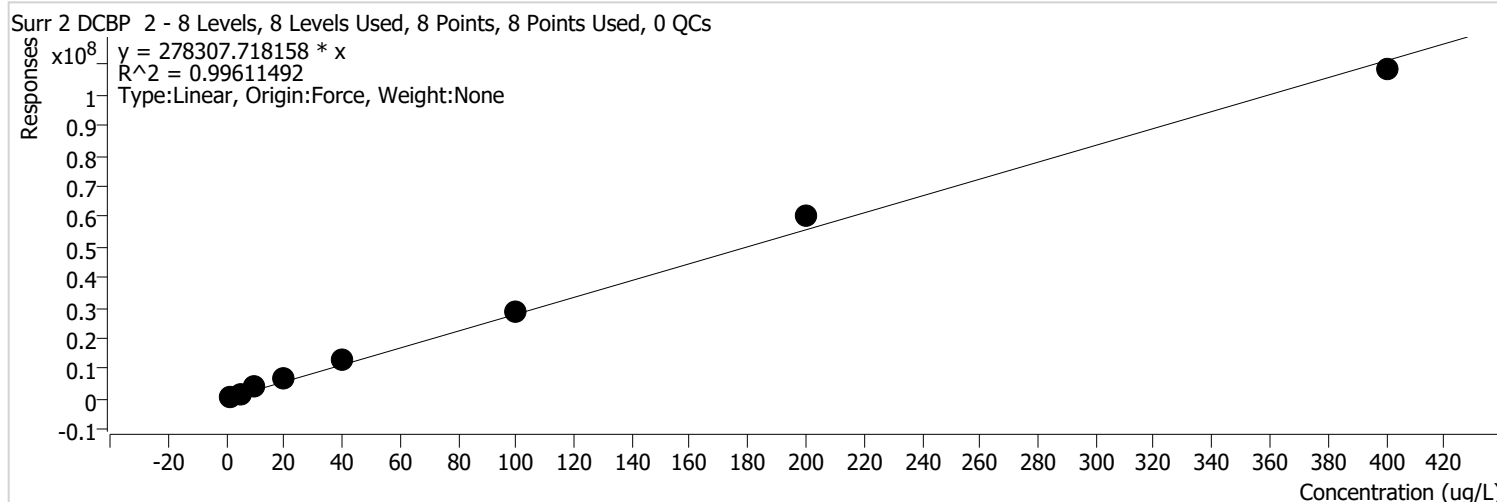


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-16\Data\2023\071023\071023.D	Calibration	1	x	1226815	1.2500	981451.6 514	
D:\GC-16\Data\2023\071023\071024.D	Calibration	2	x	3378688	5.0000	675737.6 109	
D:\GC-16\Data\2023\071023\071025.D	Calibration	3	x	9203834	10.0000	920383.4 478	
D:\GC-16\Data\2023\071023\071026.D	Calibration	4	x	16506919	20.0000	825345.9 631	
D:\GC-16\Data\2023\071023\071027.D	Calibration	5	x	30454592	40.0000	761364.8 032	
D:\GC-16\Data\2023\071023\071028.D	Calibration	6	x	67435411	100.0000	674354.1 094	
D:\GC-16\Data\2023\071023\071029.D	Calibration	7	x	138079687	200.0000	690398.4 328	
D:\GC-16\Data\2023\071023\071030.D	Calibration	8	x	239945080	400.0000	599862.6 999	

Calibration Report

Batch Path	D:\GC-16\Data\2023\071023\QuantResults\1248 ICAL.batch.bin	Analyst Name	FA\gc1625
Analysis Time	8/14/2023 10:35 AM	Reporter Name	FA\gc1625
Report Time	8/14/2023 10:38:53 AM	Batch State	Processed
Last Calib Update	8/14/2023 10:34 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Surr 2 DCBP 2 %RSE =



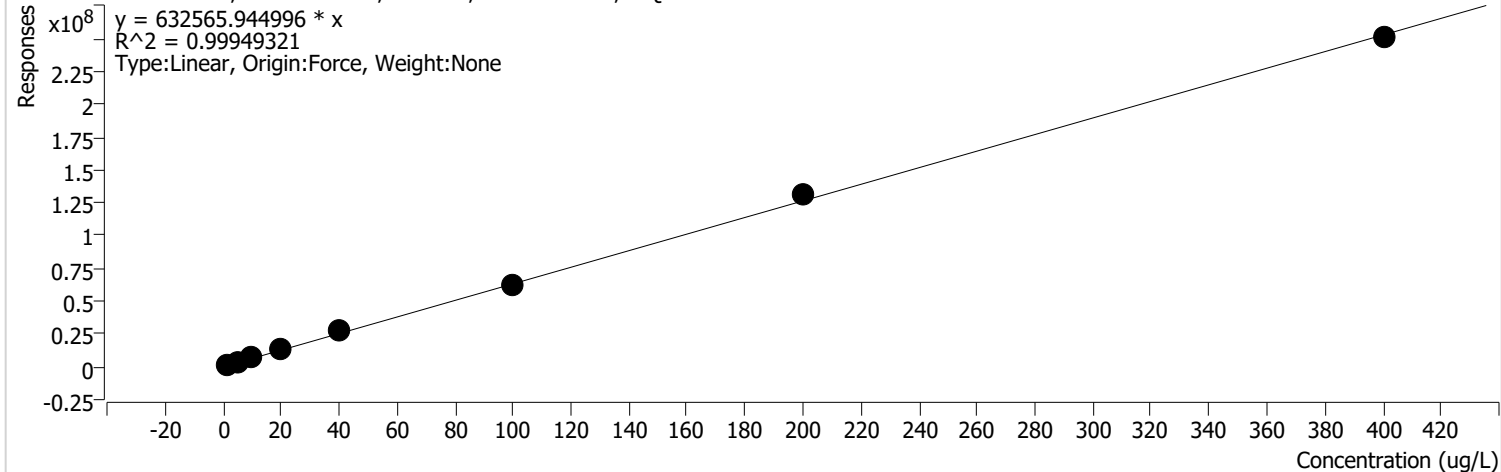
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-16\Data\2023\071023\071023.D	Calibration	1	x	449659	1.2500	359726.9 279	
D:\GC-16\Data\2023\071023\071024.D	Calibration	2	x	1306167	5.0000	261233.4 275	
D:\GC-16\Data\2023\071023\071025.D	Calibration	3	x	3709338	10.0000	370933.8 465	
D:\GC-16\Data\2023\071023\071026.D	Calibration	4	x	6742014	20.0000	337100.7 131	
D:\GC-16\Data\2023\071023\071027.D	Calibration	5	x	12763212	40.0000	319080.3 027	
D:\GC-16\Data\2023\071023\071028.D	Calibration	6	x	28814605	100.0000	288146.0 521	
D:\GC-16\Data\2023\071023\071029.D	Calibration	7	x	60665966	200.0000	303329.8 309	
D:\GC-16\Data\2023\071023\071030.D	Calibration	8	x	108330627	400.0000	270826.5 672	

Calibration Report

Batch Path	D:\GC-16\Data\2023\071023\QuantResults\1254 ical.batch.bin	Analyst Name	FA\gc1625
Analysis Time	8/9/2023 2:08 PM	Reporter Name	FA\gc1625
Report Time	8/9/2023 2:10:00 PM	Batch State	Processed
Last Calib Update	8/9/2023 1:36 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

Surr 1 TCMX %RSE =

Surr 1 TCMX - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



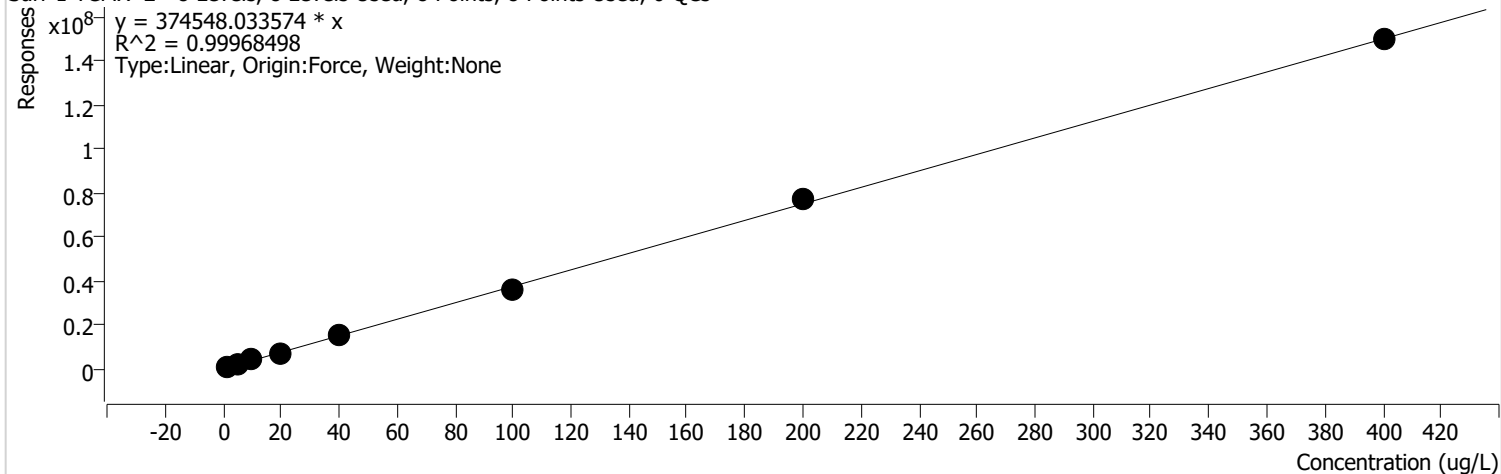
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-16\Data\2023\071023\071023.D	Calibration	1	x	1162769	1.2500	930215.3526	
D:\GC-16\Data\2023\071023\071024.D	Calibration	2	x	3041072	5.0000	608214.4798	
D:\GC-16\Data\2023\071023\071025.D	Calibration	3	x	7662322	10.0000	766232.2171	
D:\GC-16\Data\2023\071023\071026.D	Calibration	4	x	13460800	20.0000	673040.0176	
D:\GC-16\Data\2023\071023\071027.D	Calibration	5	x	27223968	40.0000	680599.1935	
D:\GC-16\Data\2023\071023\071028.D	Calibration	6	x	62960923	100.0000	629609.2301	
D:\GC-16\Data\2023\071023\071029.D	Calibration	7	x	130534042	200.0000	652670.2112	
D:\GC-16\Data\2023\071023\071030.D	Calibration	8	x	250824205	400.0000	627060.5122	

Calibration Report

Batch Path	D:\GC-16\Data\2023\071023\QuantResults\1254 ical.batch.bin	Analyst Name	FA\gc1625
Analysis Time	8/9/2023 2:08 PM	Reporter Name	FA\gc1625
Report Time	8/9/2023 2:10:01 PM	Batch State	Processed
Last Calib Update	8/9/2023 1:36 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

Surr 1 TCMX 2 %RSE =

Surr 1 TCMX 2 - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

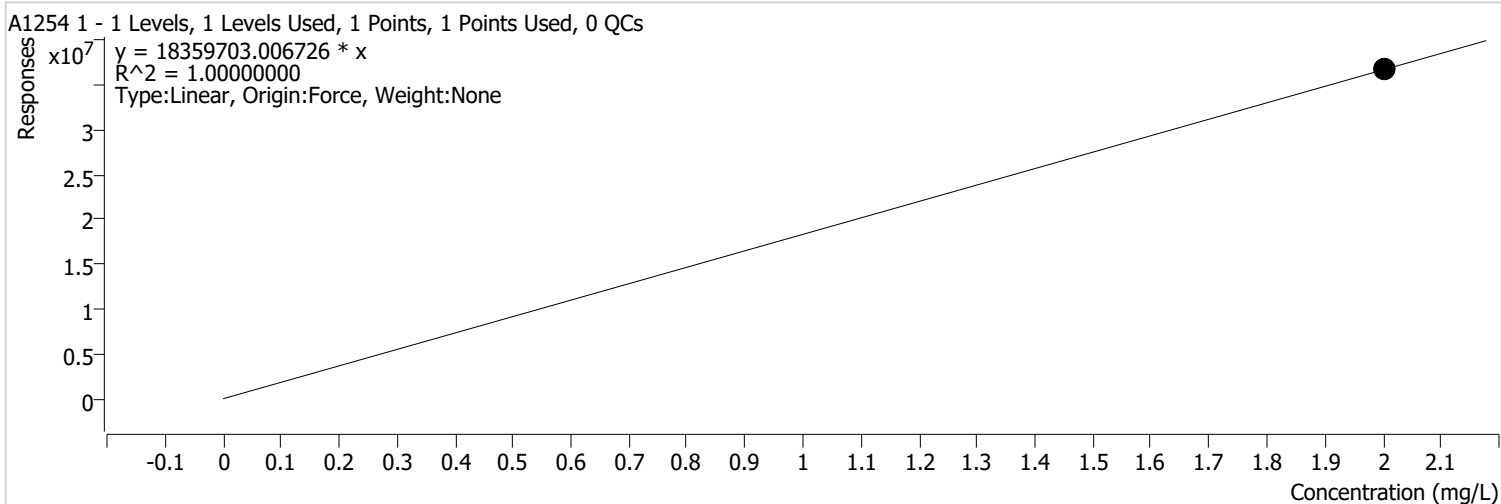


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-16\Data\2023\071023\071023.D	Calibration	1	x	570619	1.2500	456495.1993	
D:\GC-16\Data\2023\071023\071024.D	Calibration	2	x	1490225	5.0000	298044.9939	
D:\GC-16\Data\2023\071023\071025.D	Calibration	3	x	3869858	10.0000	386985.7541	
D:\GC-16\Data\2023\071023\071026.D	Calibration	4	x	7052088	20.0000	352604.4200	
D:\GC-16\Data\2023\071023\071027.D	Calibration	5	x	14841227	40.0000	371030.6651	
D:\GC-16\Data\2023\071023\071028.D	Calibration	6	x	35859136	100.0000	358591.3645	
D:\GC-16\Data\2023\071023\071029.D	Calibration	7	x	76630302	200.0000	383151.5104	
D:\GC-16\Data\2023\071023\071030.D	Calibration	8	x	149395147	400.0000	373487.8687	

Calibration Report

Batch Path	D:\GC-16\Data\2023\071023\QuantResults\1254 ical.batch.bin	Analyst Name	FA\gc1625
Analysis Time	8/9/2023 2:08 PM	Reporter Name	FA\gc1625
Report Time	8/9/2023 2:10:01 PM	Batch State	Processed
Last Calib Update	8/9/2023 1:36 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

A1254 1 %RSE =

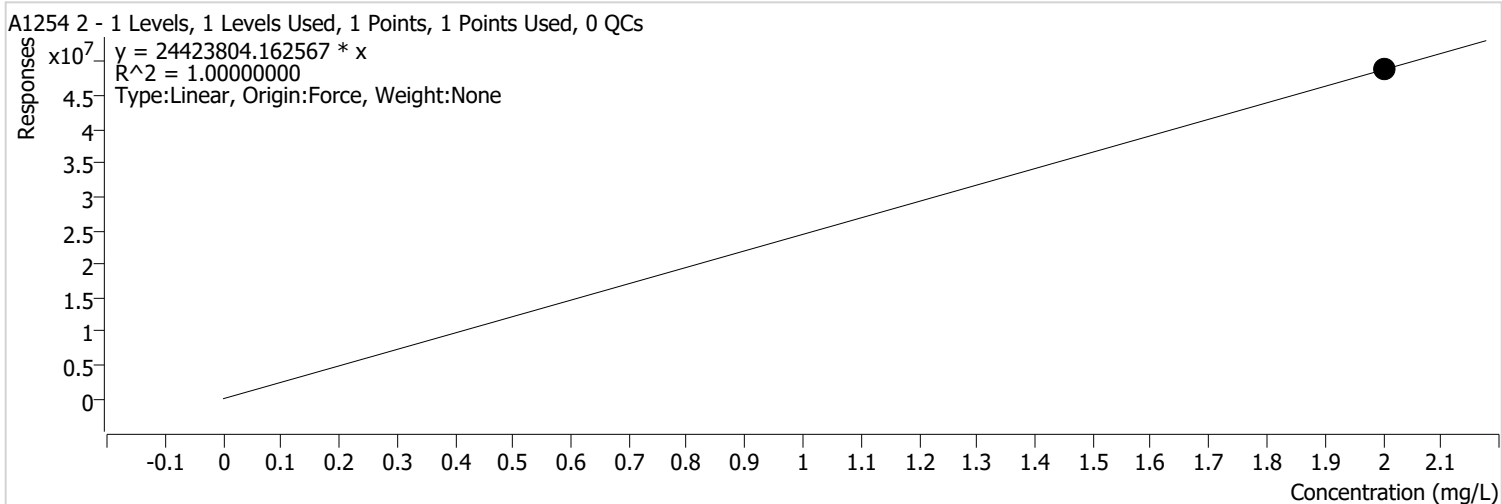


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-16\Data\2023\071023\071038.D	Calibration	9	x	36719406	2.0000	18359703.0067	

Calibration Report

Batch Path	D:\GC-16\Data\2023\071023\QuantResults\1254 ical.batch.bin	Analyst Name	FA\gc1625
Analysis Time	8/9/2023 2:08 PM	Reporter Name	FA\gc1625
Report Time	8/9/2023 2:10:01 PM	Batch State	Processed
Last Calib Update	8/9/2023 1:36 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

A1254 2 %RSE =



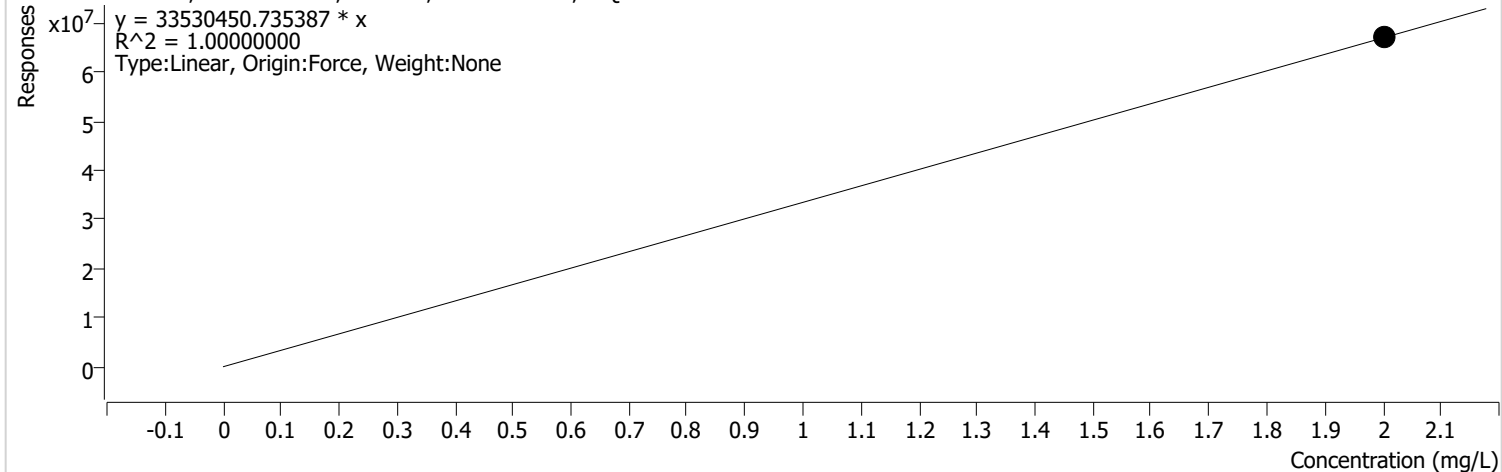
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-16\Data\2023\071023\071038.D	Calibration	9	x	48847608	2.0000	24423804.1626	

Calibration Report

Batch Path	D:\GC-16\Data\2023\071023\QuantResults\1254 ical.batch.bin	Analyst Name	FA\gc1625
Analysis Time	8/9/2023 2:08 PM	Reporter Name	FA\gc1625
Report Time	8/9/2023 2:10:01 PM	Batch State	Processed
Last Calib Update	8/9/2023 1:36 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

A1254 3 %RSE =

A1254 3 - 1 Levels, 1 Levels Used, 1 Points, 1 Points Used, 0 QCs



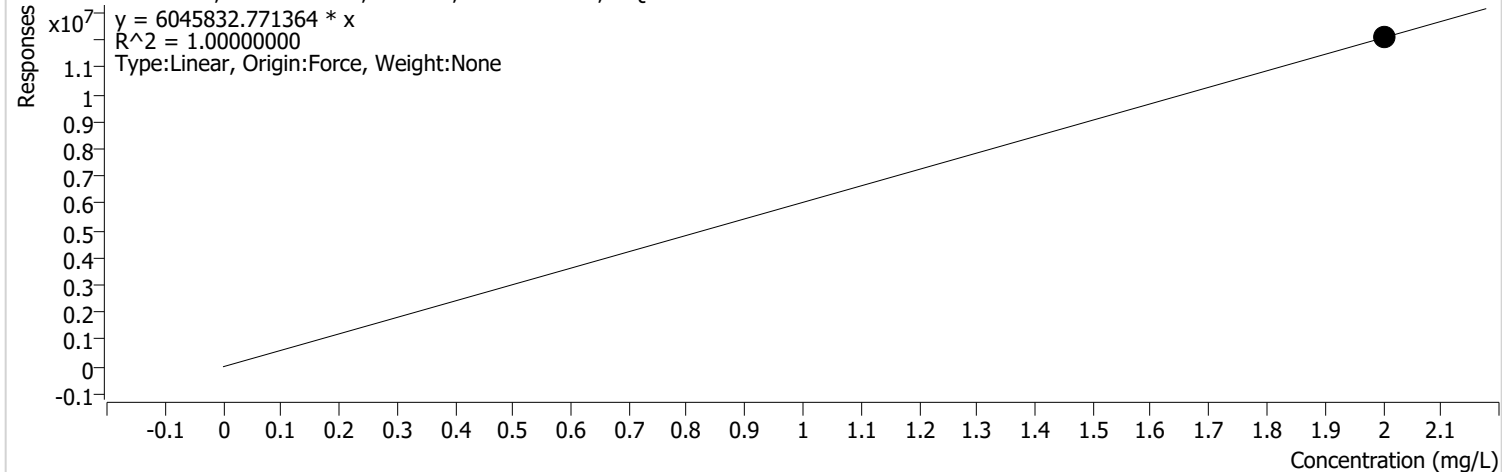
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-16\Data\2023\071023\071038.D	Calibration	9	x	67060901	2.0000	33530450.7354	

Calibration Report

Batch Path	D:\GC-16\Data\2023\071023\QuantResults\1254 ical.batch.bin	Analyst Name	FA\gc1625
Analysis Time	8/9/2023 2:08 PM	Reporter Name	FA\gc1625
Report Time	8/9/2023 2:10:01 PM	Batch State	Processed
Last Calib Update	8/9/2023 1:36 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

A1254 1 2 %RSE =

A1254 1 2 - 1 Levels, 1 Levels Used, 1 Points, 1 Points Used, 0 QCs



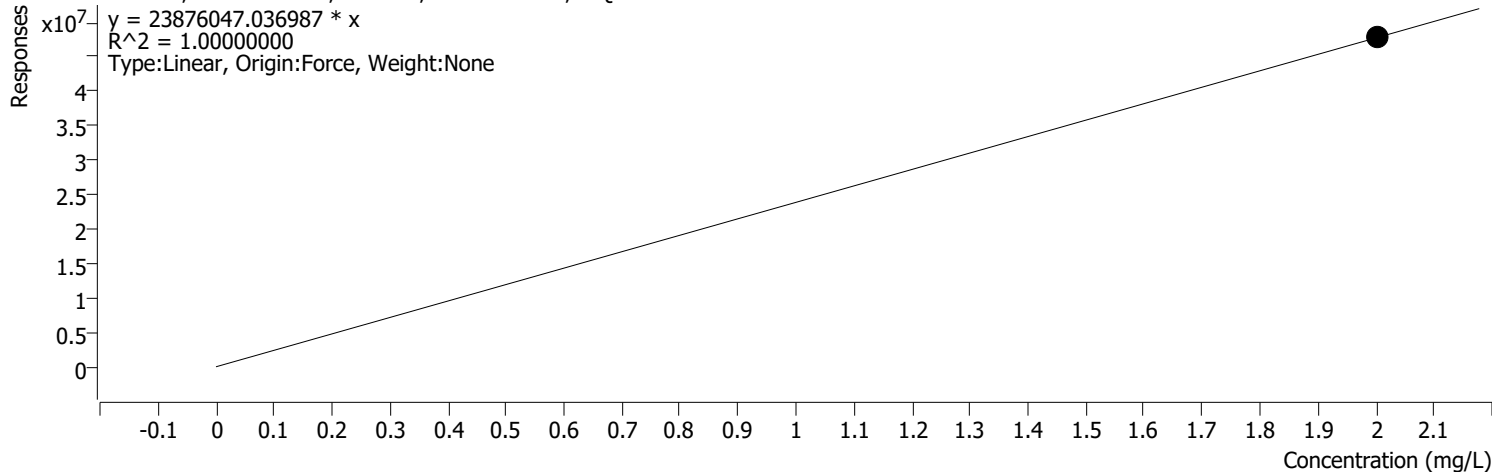
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-16\Data\2023\071023\071038.D	Calibration	9	x	12091666	2.0000	6045832.7714	

Calibration Report

Batch Path	D:\GC-16\Data\2023\071023\QuantResults\1254 ical.batch.bin	Analyst Name	FA\gc1625
Analysis Time	8/9/2023 2:08 PM	Reporter Name	FA\gc1625
Report Time	8/9/2023 2:10:01 PM	Batch State	Processed
Last Calib Update	8/9/2023 1:36 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

A1254 4 %RSE =

A1254 4 - 1 Levels, 1 Levels Used, 1 Points, 1 Points Used, 0 QCs



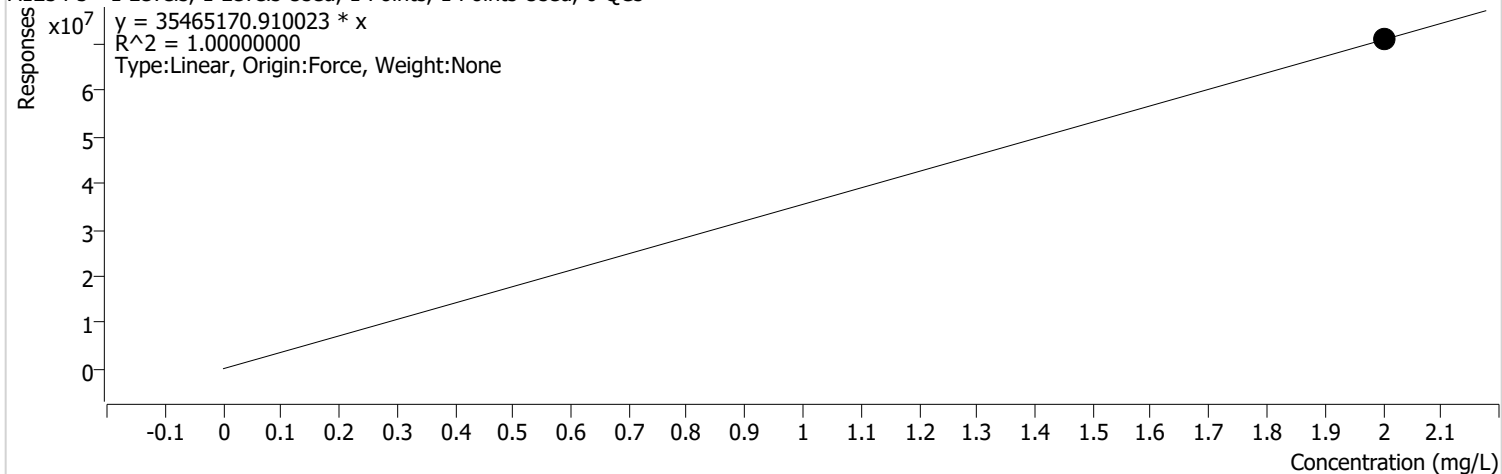
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-16\Data\2023\071023\071038.D	Calibration	9	x	47752094	2.0000	23876047.0370	

Calibration Report

Batch Path	D:\GC-16\Data\2023\071023\QuantResults\1254 ical.batch.bin	Analyst Name	FA\gc1625
Analysis Time	8/9/2023 2:08 PM	Reporter Name	FA\gc1625
Report Time	8/9/2023 2:10:01 PM	Batch State	Processed
Last Calib Update	8/9/2023 1:36 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

A1254 5 %RSE =

A1254 5 - 1 Levels, 1 Levels Used, 1 Points, 1 Points Used, 0 QCs



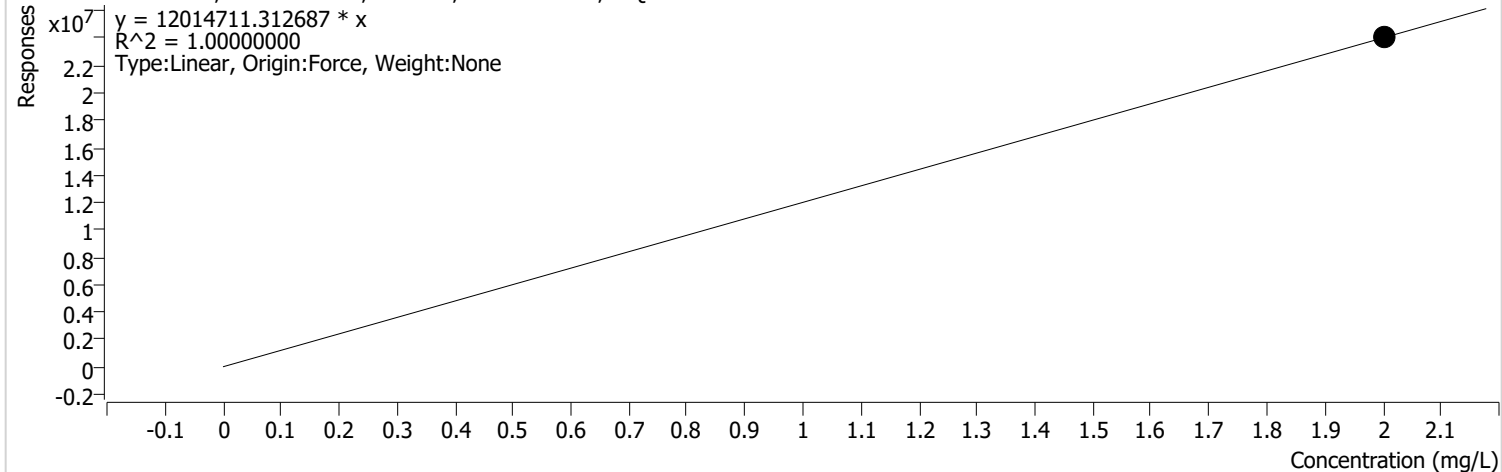
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-16\Data\2023\071023\071038.D	Calibration	9	x	70930342	2.0000	35465170.9100	

Calibration Report

Batch Path	D:\GC-16\Data\2023\071023\QuantResults\1254 ical.batch.bin	Analyst Name	FA\gc1625
Analysis Time	8/9/2023 2:08 PM	Reporter Name	FA\gc1625
Report Time	8/9/2023 2:10:01 PM	Batch State	Processed
Last Calib Update	8/9/2023 1:36 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

A1254 2 2 %RSE =

A1254 2 2 - 1 Levels, 1 Levels Used, 1 Points, 1 Points Used, 0 QCs

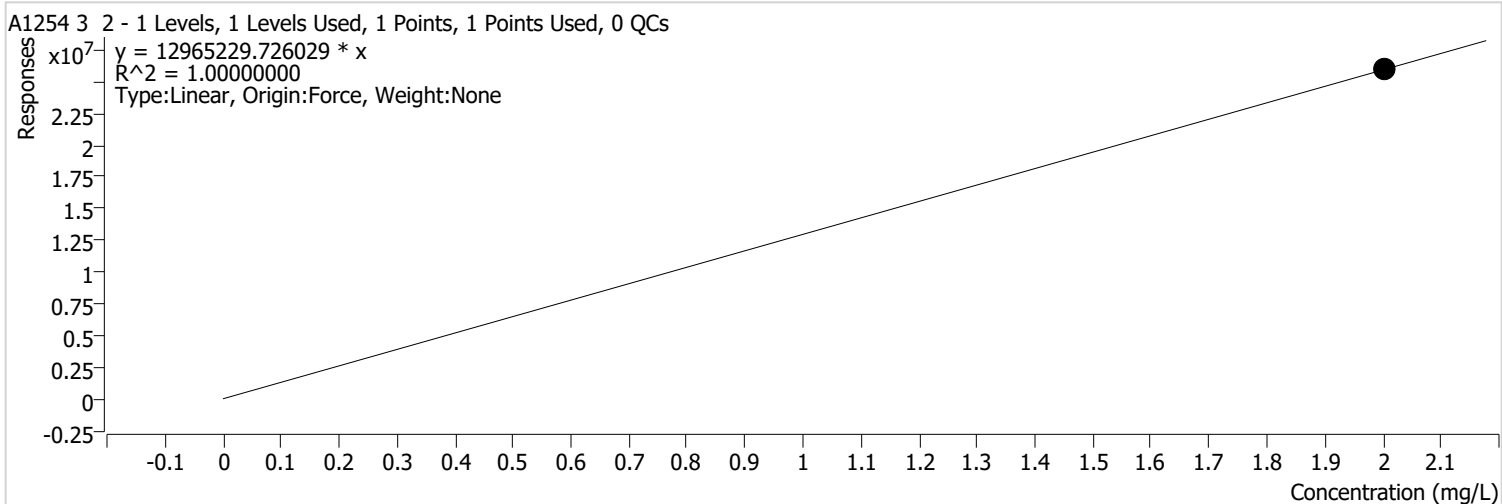


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-16\Data\2023\071023\071038.D	Calibration	9	x	24029423	2.0000	12014711.3127	

Calibration Report

Batch Path	D:\GC-16\Data\2023\071023\QuantResults\1254 ical.batch.bin	Analyst Name	FA\gc1625
Analysis Time	8/9/2023 2:08 PM	Reporter Name	FA\gc1625
Report Time	8/9/2023 2:10:01 PM	Batch State	Processed
Last Calib Update	8/9/2023 1:36 PM	Quant Report Version	10.0

A1254 3 2 %RSE =

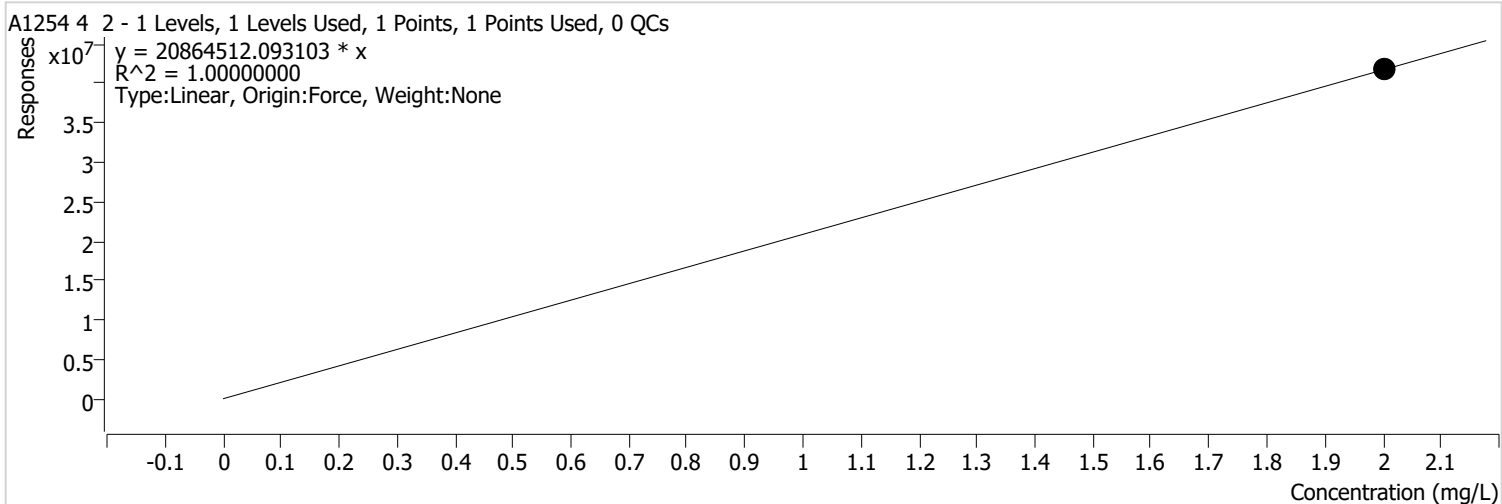


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-16\Data\2023\071023\071038.D	Calibration	9	x	25930459	2.0000	12965229 .7260	

Calibration Report

Batch Path	D:\GC-16\Data\2023\071023\QuantResults\1254 ical.batch.bin	Analyst Name	FA\gc1625
Analysis Time	8/9/2023 2:08 PM	Reporter Name	FA\gc1625
Report Time	8/9/2023 2:10:01 PM	Batch State	Processed
Last Calib Update	8/9/2023 1:36 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

A1254 4 2 %RSE =



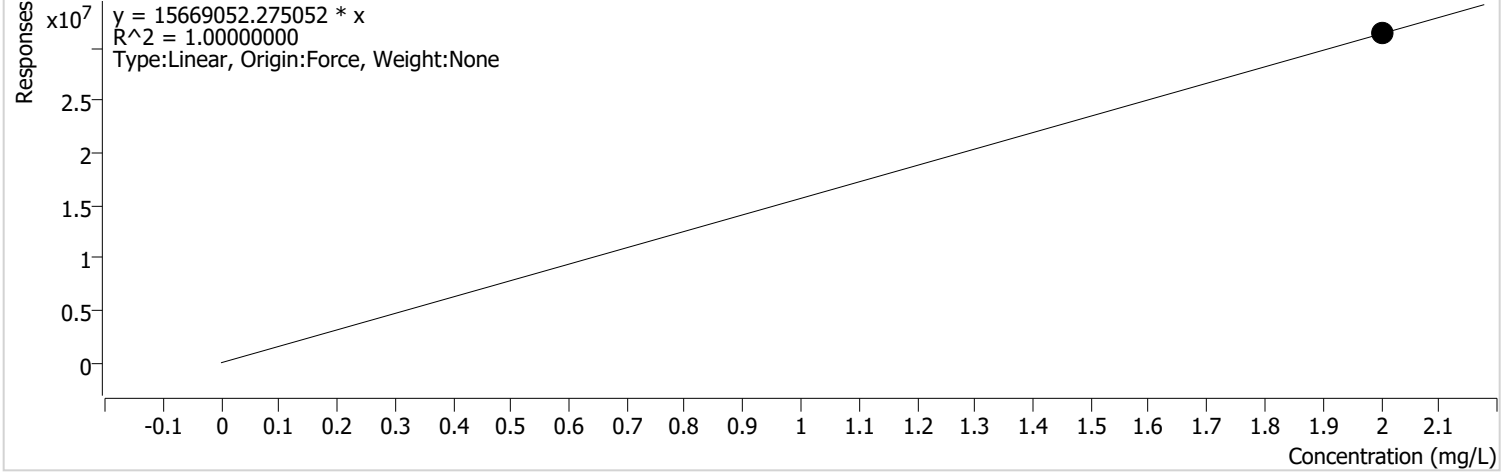
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-16\Data\2023\071023\071038.D	Calibration	9	x	41729024	2.0000	20864512.0931	

Calibration Report

Batch Path	D:\GC-16\Data\2023\071023\QuantResults\1254 ical.batch.bin	Analyst Name	FA\gc1625
Analysis Time	8/9/2023 2:08 PM	Reporter Name	FA\gc1625
Report Time	8/9/2023 2:10:01 PM	Batch State	Processed
Last Calib Update	8/9/2023 1:36 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

A1254 5 2 %RSE =

A1254 5 2 - 1 Levels, 1 Levels Used, 1 Points, 1 Points Used, 0 QCs



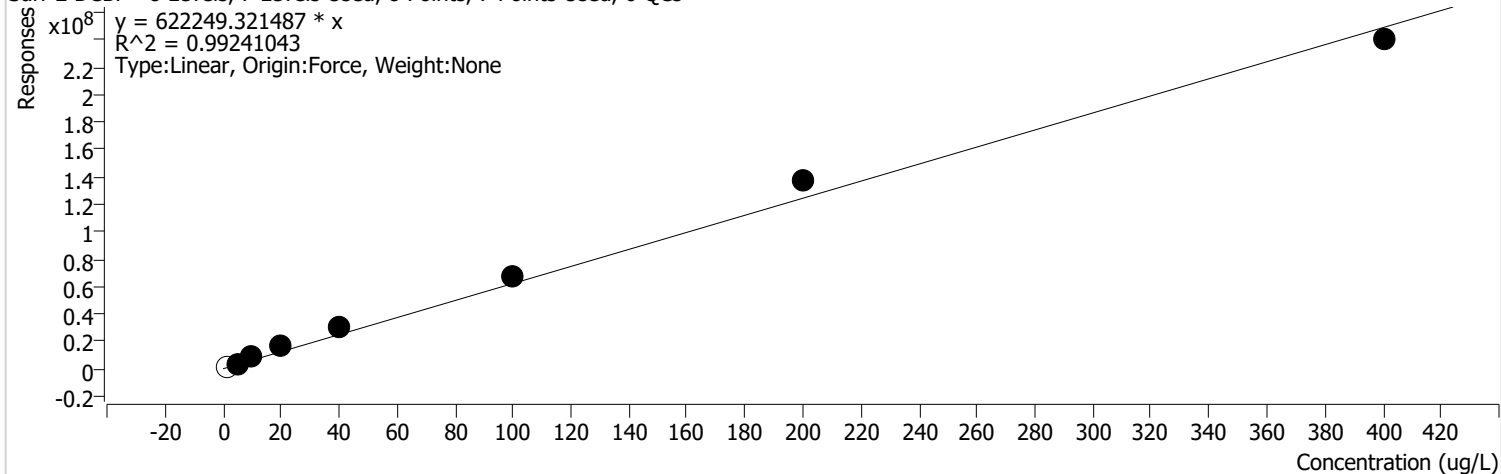
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-16\Data\2023\071023\071038.D	Calibration	9	x	31338105	2.0000	15669052.2751	

Calibration Report

Batch Path	D:\GC-16\Data\2023\071023\QuantResults\1254 ical.batch.bin	Analyst Name	FA\gc1625
Analysis Time	8/9/2023 2:08 PM	Reporter Name	FA\gc1625
Report Time	8/9/2023 2:10:01 PM	Batch State	Processed
Last Calib Update	8/9/2023 1:36 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

Surr 2 DCBP %RSE =

Surr 2 DCBP - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 0 QCs



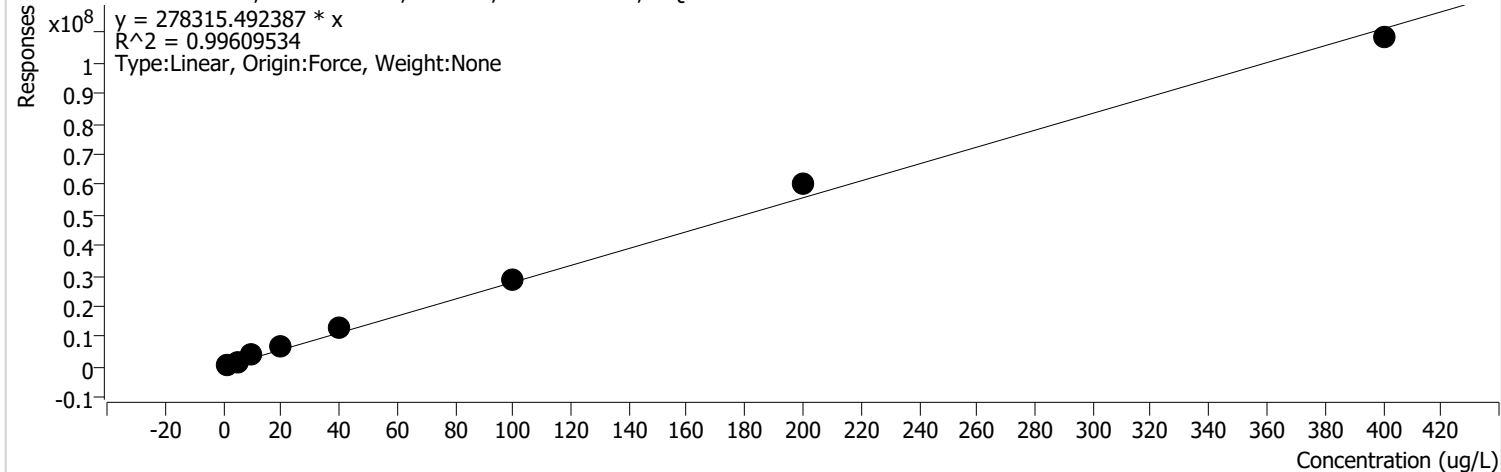
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-16\Data\2023\071023\071023.D	Calibration	1		1226815	1.2500	981451.6 514	
D:\GC-16\Data\2023\071023\071024.D	Calibration	2	x	3378688	5.0000	675737.6 109	
D:\GC-16\Data\2023\071023\071025.D	Calibration	3	x	9203834	10.0000	920383.4 478	
D:\GC-16\Data\2023\071023\071026.D	Calibration	4	x	16504847	20.0000	825242.3 472	
D:\GC-16\Data\2023\071023\071027.D	Calibration	5	x	30454592	40.0000	761364.8 032	
D:\GC-16\Data\2023\071023\071028.D	Calibration	6	x	67434556	100.0000	674345.5 616	
D:\GC-16\Data\2023\071023\071029.D	Calibration	7	x	138079687	200.0000	690398.4 328	
D:\GC-16\Data\2023\071023\071030.D	Calibration	8	x	239945080	400.0000	599862.6 999	

Calibration Report

Batch Path	D:\GC-16\Data\2023\071023\QuantResults\1254 ical.batch.bin	Analyst Name	FA\gc1625
Analysis Time	8/9/2023 2:08 PM	Reporter Name	FA\gc1625
Report Time	8/9/2023 2:10:01 PM	Batch State	Processed
Last Calib Update	8/9/2023 1:36 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

Surr 2 DCBP 2 %RSE =

Surr 2 DCBP 2 - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-16\Data\2023\071023\071023.D	Calibration	1	x	458155	1.2500	366523.9742	
D:\GC-16\Data\2023\071023\071024.D	Calibration	2	x	1310548	5.0000	262109.5952	
D:\GC-16\Data\2023\071023\071025.D	Calibration	3	x	3712241	10.0000	371224.0747	
D:\GC-16\Data\2023\071023\071026.D	Calibration	4	x	6786367	20.0000	339318.3622	
D:\GC-16\Data\2023\071023\071027.D	Calibration	5	x	12791820	40.0000	319795.4905	
D:\GC-16\Data\2023\071023\071028.D	Calibration	6	x	28813951	100.0000	288139.5074	
D:\GC-16\Data\2023\071023\071029.D	Calibration	7	x	60664074	200.0000	303320.3724	
D:\GC-16\Data\2023\071023\071030.D	Calibration	8	x	108330627	400.0000	270826.5672	

PCB Calibration

Date: 7/10/23 Cal Std (1016/1260): 26945 Concentration: 100 ug/mL
 Analyst: SRH ICV Std (SS): 26943 Concentration: 100 ug/mL
 Aroclors: 1221: 20519 ²³⁰¹⁶ _{SRH 7/10/23} 1232: 23017 1242: 24376 1248: 23021
 1254: 24708 1262: 23022 1268: 20520 Conc: 1000 ug/mL
 Hexane: 7547 SURROGATE: 28393 Concentration: 20 ug/mL

Calibration Point (ppb)	Surr Cal Pt (ppb)	Hexane (uL)	STD ID	STD Amt (uL)	Surr Amt (uL)	Final Vol. (mL)	Comments
2000	400	960	Cal Std	20	20	1	
1000	200	980	Cal Std	10	10	1	
500	100	990	Cal Std	5	5	1	
200	40	900	2000*	100	--	1	*Points 200, 100, and 50 will be made with prepared Point 2000
100	20	950	2000*	50	--	1	
50	10	975	2000*	25	--	1	
20	(5)	900	200**	100	--	1	**Points 20 and 5 will be made with prepared Point 200
5	(1.25)	975	200**	25	--	1	
ICB	200	990	--	--	10	1	
ICV (1000 ppb)	200	980	ICV	10	10	1	

Note: Points 20 and 5 will contain surrogate as they are prepared from a mixed std, but will not be included in the surr curve.

Single Point Aroclors

Calibration Point	Surr Conc (ppb)	Hexane (uL)	STD ID	STD Amt (uL)	Surr Amt (uL)	Final Vol (mL)	Comments
2000	200	988	Each Aroclor	2	10	1	

Signature and Date:  7/10/23

Signature: ADK

700 Building Calibration Template - PCB v1.2

DATA SET for Review - Deliverable Requirements

Total Metals by EPA Method 6020B

Fremont Analytical Work Order No. 2308151

GeoEngineers

Project Name: S Jackson Street

Project Number: 24504-001-01

This data set contains the following:

- Analytical Sequence Summary
- Calibration Information
- Tune Information
- Internal Standards Report

Batch Log

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\081023JR.b

Batch Log

#	Acq. Date-Time	Sample Type	Sample Name	Vial#	File Name	Acquisition Result	Error Message	Dilution Result	Comment	Operator	Replicates	Level
1	8/10/2023 10:15:10	CalBlk	CAL BLANK	1	001CALB.d	Pass		1		ICPMS		1
2	8/10/2023 10:17:46	CalBlk	CAL BLANK	1	002CALB.d	Pass		1		ICPMS		1
3	8/10/2023 10:20:35	CalBlk	CAL BLANK	1	003CALB.d	Pass		1		ICPMS		1
4	8/10/2023 10:23:21	CalStd	STANDARD 1	5	004CAL.S.d	Pass		1		ICPMS		2
5	8/10/2023 10:26:11	CalStd	STANDARD 2	5	005CAL.S.d	Pass		1		ICPMS		3
6	8/10/2023 10:29:00	CalStd	STANDARD 3	5	006CAL.S.d	Pass		1		ICPMS		4
7	8/10/2023 10:31:49	CalStd	STANDARD 4	5	007CAL.S.d	Pass		1		ICPMS		5
8	8/10/2023 10:34:37	CalStd	STANDARD 5	5	008CAL.S.d	Pass		1		ICPMS		6

#	ISTD Conc	Auto Dilution (ISIS 2)	Total Dil.	Final Weight or Volume	Sample Weight or Volume	prepFAST Dilution	Sublist	Total Acq Time	Max. Daily Dose	%J	User Def. 1	User Def. 2	User Def. 3
1													
2			100	1	1	100							
3													
4			200	1	1	200							
5			100	1	1	100							
6			20	1	1	20							
7			4	1	1	4							
8			1	1	1	1							

#	QC Failed Criteria	QC Failed Elements
1		
2		
3		
4		
5		
6		
7		
8		

Batch Log

#	Acq. Date-Time	Sample Type	Sample Name	Vial#	File Name	Acquisition Result	Error Message	Dilution Result	Comment	Operator	Replicates	Level
9	8/10/2023 10:37:10	CalStd	STANDARD 6	101	009CAL.S.d	Pass		1		ICPMS		7
10	8/10/2023 10:39:29	CalStd	STANDARD 7	102	010CAL.S.d	Pass		1		ICPMS		8
11	8/10/2023 10:41:40	Sample	Wash	6	011SMPL.d	Pass		1		ICPMS		
12	8/10/2023 10:44:14	ICB	ICB	1	012_ICB.d	Pass		1		ICPMS		
13	8/10/2023 10:46:48	ICV	ICV	111	013_ICV.d	Fail	QC check failed.	1		ICPMS		
14	8/10/2023 10:49:08	Sample	ICSA	112	014SMPL.d	Fail	QC check failed.	1		ICPMS		
15	8/10/2023 10:48:53	Sample	LDR	110		Skip				ICPMS		
16	8/10/2023 10:51:33	Sample	Wash	6	015SMPL.d	Pass		1		ICPMS		

#	ISTD Conc	Auto Dilution (ISIS 2)	Total Dil.	Final Weight or Volume	Sample Weight or Volume	prepFAST Dilution	Sublist	Total Acq Time	Max. Daily Dose	%J	User Def. 1	User Def. 2	User Def. 3
9													
10													
11													
12													
13													
14													
15													
16													

#	QC Failed Criteria	QC Failed Elements
9		
10		
11		
12		
13	Main Error1 Criteria1	#2:Hg
14	Main Error1 Criteria1	#2:Fe,Ca,Na
15		
16		

Batch Log

#	Acq. Date-Time	Sample Type	Sample Name	Vial#	File Name	Acquisition Result	Error Message	Dilution Result	Comment	Operator	Replicates	Level
17	8/10/2023 10:53:53	<Pause>				Pass				ICPMS		
18	8/10/2023 11:19:03	Sample	2308052-003A	149	016SMPL.d	Pass		1		ICPMS		
19	8/10/2023 11:21:40	Sample	Wash	6	017SMPL.d	Pass		1		ICPMS		
20	8/10/2023 11:24:14	Sample	LCS-41150	150	018SMPL.d	Pass		1		ICPMS		
21	8/10/2023 11:26:39	Sample	2308095-003A	151	019SMPL.d	Pass		1		ICPMS		
22	8/10/2023 11:29:09	Sample	2308095-005A	152	020SMPL.d	Pass		1		ICPMS		
23	8/10/2023 11:31:37	Sample	2308095-007A	153	021SMPL.d	Pass		1		ICPMS		
24	8/10/2023 11:34:02	Sample	2308095-008A	154	022SMPL.d	Pass		1		ICPMS		
25	8/10/2023 11:36:27	CCV	CCV	5	023_CCV.d	Fail	QC check failed.	1		ICPMS		

#	ISTD Conc	Auto Dilution (ISIS 2)	Total Dil.	Final Weight or Volume	Sample Weight or Volume	prepFAST Dilution	Sublist	Total Acq Time	Max. Daily Dose	%J	User Def. 1	User Def. 2	User Def. 3
17													
18			5	1	1	5							
19													
20													
21			5	1	1	5							
22			5	1	1	5							
23			10	1	1	10							
24			5	1	1	5							
25													

#	QC Failed Criteria	QC Failed Elements
17		
18		
19		
20		
21		
22		
23		
24		
25	Main Error1 Criteria1	#2:Co

Batch Log

#	Acq. Date-Time	Sample Type	Sample Name	Vial#	File Name	Acquisition Result	Error Message	Dilution Result	Comment	Operator	Replicates	Level
26	8/10/2023 11:38:50	CCB	CCB	1	024_CCB.d	Pass		1		ICPMS		
27	8/10/2023 11:41:25	Sample	2308095-009A	155	025SMPL.d	Pass		1		ICPMS		
28	8/10/2023 11:43:53	CCV	CCV	5	026_CCV.d	Fail	QC check failed.	1		ICPMS		
29	8/10/2023 11:46:17	CCB	CCB	1	027_CCB.d	Pass		1		ICPMS		
30	8/10/2023 11:48:53	Sample	Wash	6	028SMPL.d	Pass		1		ICPMS		
31	8/10/2023 11:51:28	Sample	MB-41163	201	029SMPL.d	Pass		1		ICPMS		
32	8/10/2023 11:54:02	Sample	LCS-41163	202	030SMPL.d	Pass		1		ICPMS		
33	8/10/2023 11:56:25	Sample	2308056-001B	203	031SMPL.d	Fail	QC check failed.	1		ICPMS		

#	ISTD Conc	Auto Dilution (ISIS 2)	Total Dil.	Final Weight or Volume	Sample Weight or Volume	prepFAST Dilution	Sublist	Total Acq Time	Max. Daily Dose	%J	User Def. 1	User Def. 2	User Def. 3
26													
27			5	1	1	5							
28													
29													
30													
31													
32													
33													

#	QC Failed Criteria	QC Failed Elements
26		
27		
28	Main Error1 Criteria1	#2:Cu,Sr
29		
30		
31		
32		
33	Main Error1 Criteria1	#2:Ca,Mg

Batch Log

#	Acq. Date-Time	Sample Type	Sample Name	Vial#	File Name	Acquisition Result	Error Message	Dilution Result	Comment	Operator	Replicates	Level
34	8/10/2023 11:58:52	Sample	2308056-001BDUP	204	032SMPL.d	Fail	QC check failed.	1		ICPMS		
35	8/10/2023 12:01:19	Sample	2308056-001BMS	205	033SMPL.d	Fail	QC check failed.	1		ICPMS		
36	8/10/2023 12:03:37	Sample	2308056-001BMSD	206	034SMPL.d	Fail	QC check failed.	1		ICPMS		
37	8/10/2023 12:05:54	Sample	MB-41156 FB	207	035SMPL.d	Pass		1		ICPMS		
38	8/10/2023 12:08:29	CCV	CCV	5	036_CC.V.d	Pass		1		ICPMS		
39	8/10/2023 12:10:53	CCB	CCB	1	037_CCB.d	Pass		1		ICPMS		
40	8/10/2023 12:13:13	<Pause>				Pass				ICPMS		
41	8/10/2023 15:04:08	Sample	Wash	6	038SMPL.d	Pass		1		ICPMS		

#	ISTD Conc	Auto Dilution (ISIS 2)	Total Dil.	Final Weight or Volume	Sample Weight or Volume	prepFAST Dilution	Sublist	Total Acq Time	Max. Daily Dose	%J	User Def. 1	User Def. 2	User Def. 3
34													
35													
36													
37													
38													
39													
40													
41													

#	QC Failed Criteria	QC Failed Elements
34	Main Error1 Criteria1	#2:Ca,Mg
35	Main Error1 Criteria1	#2:Ca,Mg
36	Main Error1 Criteria1	#2:Ca,Mg
37		
38		
39		
40		
41		

Batch Log

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\081423JRa.b

Batch Log

#	Acq. Date-Time	Sample Type	Sample Name	Vial#	File Name	Acquisition Result	Error Message	Dilution Result	Comment	Operator	Replicates	Level
1	8/14/2023 12:01:50	<Auto tune>				Error	Semi Auto tune failed because sensitivity is too low.			ICPMS		
2	8/14/2023 12:14:25	<Auto tune>				Error	Semi Auto tune failed because sensitivity is too low.			ICPMS		
3	8/14/2023 12:18:46	<Auto tune>				Error	Semi Auto tune failed because sensitivity is too low.			ICPMS		
4	8/14/2023 12:34:19	CalBlk	CAL BLANK	1	001CALB.d	Pass		1		ICPMS		1
5	8/14/2023 12:36:54	CalBlk	CAL BLANK	1	002CALB.d	Pass		1		ICPMS		1
6	8/14/2023 12:39:43	CalBlk	CAL BLANK	1	003CALB.d	Pass		1		ICPMS		1
7	8/14/2023 12:42:30	CalStd	STANDARD 1	5	004CALB.d	Pass		1		ICPMS		2

#	ISTD Conc	Auto Dilution (ISIS 2)	Total Dil.	Final Weight or Volume	Sample Weight or Volume	prepFAST Dilution	Sublist	Total Acq Time	Max. Daily Dose	%J	User Def. 1	User Def. 2	User Def. 3
1													
2													
3													
4													
5			100	1	1	100							
6													
7			200	1	1	200							

#	QC Failed Criteria	QC Failed Elements
1		
2		
3		
4		
5		
6		
7		

Batch Log

#	Acq. Date-Time	Sample Type	Sample Name	Vial#	File Name	Acquisition Result	Error Message	Dilution Result	Comment	Operator	Replicates	Level
8	8/14/2023 12:45:21	CalStd	STANDARD 2	5	005CAL.S.d	Pass		1		ICPMS		3
9	8/14/2023 12:48:09	CalStd	STANDARD 3	5	006CAL.S.d	Pass		1		ICPMS		4
10	8/14/2023 12:50:59	CalStd	STANDARD 4	5	007CAL.S.d	Pass		1		ICPMS		5
11	8/14/2023 12:53:47	CalStd	STANDARD 5	5	008CAL.S.d	Pass		1		ICPMS		6
12	8/14/2023 12:56:19	CalStd	STANDARD 6	101	009CAL.S.d	Pass		1		ICPMS		7
13	8/14/2023 12:58:36	CalStd	STANDARD 7	102	010CAL.S.d	Pass		1		ICPMS		8
14	8/14/2023 13:00:47	Sample	Wash	6	011SMPL.d	Pass		1		ICPMS		
15	8/14/2023 13:03:22	ICB	ICB	1	012_ICB.d	Pass		1		ICPMS		
16	8/14/2023 13:05:57	ICV	ICV	111	013_ICV.d	Fail	QC check failed.	1		ICPMS		

#	ISTD Conc	Auto Dilution (ISIS 2)	Total Dil.	Final Weight or Volume	Sample Weight or Volume	prepFAST Dilution	Sublist	Total Acq Time	Max. Daily Dose	%J	User Def. 1	User Def. 2	User Def. 3
8			100	1	1	100							
9			20	1	1	20							
10			4	1	1	4							
11			1	1	1	1							
12													
13													
14													
15													
16													

#	QC Failed Criteria	QC Failed Elements
8		
9		
10		
11		
12		
13		
14		
15		
16	Main Error1 Criteria1	#2:Hg

Batch Log

#	Acq. Date-Time	Sample Type	Sample Name	Vial#	File Name	Acquisition Result	Error Message	Dilution Result	Comment	Operator	Replicates	Level
17	8/14/2023 13:08:16	Sample	ICSA	112	014SMPL.d	Fail	QC check failed.	1		ICPMS		
18	8/14/2023 13:08:01	Sample	LDR	110		Skip				ICPMS		
19	8/14/2023 13:10:41	Sample	Wash	6	015SMPL.d	Pass		1		ICPMS		
20	8/14/2023 13:13:01	<Pause>				Pass				ICPMS		
21	8/14/2023 13:34:34	ICV	ICV	111	016_ICV.d	Fail	QC check failed.	1		ICPMS		
22	8/14/2023 13:36:40	<Pause>				Pass				ICPMS		
23	8/14/2023 13:41:10	ICV	ICV	111	017_ICV.d	Fail	QC check failed.	1		ICPMS		
24	8/14/2023 13:43:15	<Pause>				Pass				ICPMS		

#	ISTD Conc	Auto Dilution (ISIS 2)	Total Dil.	Final Weight or Volume	Sample Weight or Volume	prepFAST Dilution	Sublist	Total Acq Time	Max. Daily Dose	%J	User Def. 1	User Def. 2	User Def. 3
17													
18													
19													
20													
21													
22													
23													
24													

#	QC Failed Criteria	QC Failed Elements
17	Main Error1 Criteria1	#2:Fe,Ca,Na
18		
19		
20		
21	Main Error1 Criteria1	#1:Be,B #2 :Sn,Ca,Na,K,V ,Mn,Ni,Zn,Sr,Mo,Ag,Ba,Tl, [Pb], [Pb],Pb,Al,Sb
22		

Batch Log

#	QC Failed Criteria	QC Failed Elements
23	Main Error1 Criteria1	#2:U
24		

Batch Log

#	Acq. Date-Time	Sample Type	Sample Name	Vial#	File Name	Acquisition Result	Error Message	Dilution Result	Comment	Operator	Replicates	Level
25	8/14/2023 13:44:21	Sample	ICSA	112	018SMPL.d	Fail	QC check failed.	1		ICPMS		
26	8/14/2023 13:46:46	Sample	Wash	6	019SMPL.d	Pass		1		ICPMS		
27	8/14/2023 13:49:21	Sample	LCS-41172	149	020SMPL.d	Pass		1		ICPMS		
28	8/14/2023 13:51:46	CCV	CCV	5	021_CCV.d	Fail	QC check failed.	1		ICPMS		
29	8/14/2023 13:53:51	<Pause>				Pass				ICPMS		
30	8/14/2023 13:56:26	ICV	ICV	111	022_ICV.d	Pass		1		ICPMS		
31	8/14/2023 13:58:32	<Pause>				Pass				ICPMS		
32	8/14/2023 13:58:49	Sample	ICSA	112	023SMPL.d	Fail	QC check failed.	1		ICPMS		

#	ISTD Conc	Auto Dilution (ISIS 2)	Total Dil.	Final Weight or Volume	Sample Weight or Volume	prepFAST Dilution	Sublist	Total Acq Time	Max. Daily Dose	%J	User Def. 1	User Def. 2	User Def. 3
25													
26													
27													
28													
29													
30													
31													
32													

#	QC Failed Criteria	QC Failed Elements
25	Main Error1 Criteria1	#2:Fe,Ca,Na
26		
27		
28	Main Error1 Criteria1	#2:Cu
29		
30		
31		
32	Main Error1 Criteria1	#2:Fe,Ca,Na

Batch Log

#	Acq. Date-Time	Sample Type	Sample Name	Vial#	File Name	Acquisition Result	Error Message	Dilution Result	Comment	Operator	Replicates	Level
33	8/14/2023 14:01:13	Sample	Wash	6	024SMPL.d	Pass		1		ICPMS		
34	8/14/2023 14:03:49	Sample	LCS-41172	149	025SMPL.d	Pass		1		ICPMS		
35	8/14/2023 14:06:20	CCV	CCV	5	026_CC.V.d	Fail	QC check failed.	1		ICPMS		
36	8/14/2023 14:08:25	<Pause>				Pass				ICPMS		
37	8/14/2023 14:08:42	Sample	LCS-41172	149	027SMPL.d	Pass		1		ICPMS		
38	8/14/2023 14:11:08	CCV	CCV	5	028_CC.V.d	Fail	QC check failed.	1		ICPMS		
39	8/14/2023 14:13:29	CCB	CCB	1	029_CCB.d	Pass		1		ICPMS		
40	8/14/2023 14:16:06	Sample	Wash	6	030SMPL.d	Pass		1		ICPMS		

#	ISTD Conc	Auto Dilution (ISIS 2)	Total Dil.	Final Weight or Volume	Sample Weight or Volume	prepFAST Dilution	Sublist	Total Acq Time	Max. Daily Dose	%J	User Def. 1	User Def. 2	User Def. 3
33													
34													
35													
36													
37													
38													
39													
40													

#	QC Failed Criteria	QC Failed Elements
33		
34		
35	Main Error1 Criteria1	#2:Co
36		
37		
38	Main Error1 Criteria1	#2:Cu
39		
40		

Batch Log

#	Acq. Date-Time	Sample Type	Sample Name	Vial#	File Name	Acquisition Result	Error Message	Dilution Result	Comment	Operator	Replicates	Level
41	8/14/2023 14:18:41	Sample	MB-41192	201	031SMPL.d	Pass		1		ICPMS		
42	8/14/2023 14:21:16	Sample	LCS-41192	202	032SMPL.d	Pass		1		ICPMS		
43	8/14/2023 14:23:51	Sample	2308151-006A	203	033SMPL.d	Fail	QC check failed.	1		ICPMS		
44	8/14/2023 14:26:12	Sample	2308151-006ADIL	204	034SMPL.d	Pass		1		ICPMS		
45	8/14/2023 14:28:41	Sample	2308151-006AMS	205	035SMPL.d	Fail	QC check failed.	1		ICPMS		
46	8/14/2023 14:31:00	Sample	2308151-006AMSD	206	036SMPL.d	Fail	QC check failed.	1		ICPMS		
47	8/14/2023 14:33:20	Sample	2308151-006APDS	207	037SMPL.d	Fail	QC check failed.	1		ICPMS		
48	8/14/2023 14:35:32	Sample	2308164-001A	208	038SMPL.d	Fail	QC check failed.	1		ICPMS		

#	ISTD Conc	Auto Dilution (ISIS 2)	Total Dil.	Final Weight or Volume	Sample Weight or Volume	prepFAST Dilution	Sublist	Total Acq Time	Max. Daily Dose	%J	User Def. 1	User Def. 2	User Def. 3
41													
42													
43													
44													
45													
46													
47													
48													

#	QC Failed Criteria	QC Failed Elements
41		
42		
43	ISTD Criteria1	#1:Sc #2:Sc
44		
45	ISTD Criteria1	#1:Sc
46	ISTD Criteria1	#1:Sc #2:Sc
47	Main Error1 Criteria1	#2:Fe,Mg,Al,Ti
48	Main Error1 Criteria1	#2:Ca,Na,Sr

Batch Log

#	Acq. Date-Time	Sample Type	Sample Name	Vial#	File Name	Acquisition Result	Error Message	Dilution Result	Comment	Operator	Replicates	Level
49	8/14/2023 14:37:52	Sample	2308164-002A	209	039SMPL.d	Fail	QC check failed.	1		ICPMS		
50	8/14/2023 14:40:17	CCV	CCV	5	040_CCV.d	Fail	QC check failed.	1		ICPMS		
51	8/14/2023 14:42:37	CCB	CCB	1	041_CCB.d	Pass		1		ICPMS		
52	8/14/2023 14:45:11	Sample	2308164-003A	210	042SMPL.d	Fail	QC check failed.	1		ICPMS		
53	8/14/2023 14:47:36	Sample	2308165-001A	211	043SMPL.d	Fail	QC check failed.	1		ICPMS		
54	8/14/2023 14:50:00	Sample	2308177-002A	212	044SMPL.d	Fail	QC check failed.	1		ICPMS		
55	8/14/2023 14:52:14	CCV	CCV	5	045_CCV.d	Fail	QC check failed.	1		ICPMS		
56	8/14/2023 14:54:21	<Pause>				Pass				ICPMS		

#	ISTD Conc	Auto Dilution (ISIS 2)	Total Dil.	Final Weight or Volume	Sample Weight or Volume	prepFAST Dilution	Sublist	Total Acq Time	Max. Daily Dose	%J	User Def. 1	User Def. 2	User Def. 3
49													
50													
51													
52													
53													
54													
55													
56													

#	QC Failed Criteria	QC Failed Elements
49	Main Error1 Criteria1	#2:Ca,Na,Sr
50	Main Error1 Criteria1	#2:Na,V,Co
51		
52	Main Error1 Criteria1	#2:Ca,Na,Sr
53	ISTD Criteria1	#2:Ge
54	Main Error1 Criteria1	#2:Fe,Ca,Mg,Mn,Cu,Al
55	Main Error1 Criteria1	#2:Mg,Zn

Batch Log

#	QC Failed Criteria	QC Failed Elements
56		

#	Acq. Date-Time	Sample Type	Sample Name	Vial#	File Name	Acquisition Result	Error Message	Dilution Result	Comment	Operator	Replicates	Level
57	8/14/2023 14:57:20	CCB	CCB	1	046_CCB.d	Pass		1		ICPMS		
58	8/14/2023 14:59:55	Sample	Wash	6	047SMPL.d	Pass		1		ICPMS		
59	8/14/2023 15:02:29	Sample	2308165-001A x10k	160	048SMPL.d	Pass		1		ICPMS		
60	8/14/2023 15:05:06	Sample	2308177-002A x10	212	049SMPL.d	Fail	QC check failed.	1		ICPMS		
61	8/14/2023 15:07:35	CCV	CCV	5	050_CCV.d	Fail	QC check failed.	1		ICPMS		
62	8/14/2023 15:09:57	CCB	CCB	1	051_CCB.d	Pass		1		ICPMS		
63	8/14/2023 15:12:32	Sample	Wash	6	052SMPL.d	Pass		1		ICPMS		
64	8/14/2023 15:15:08	Sample	MB-41193	213	053SMPL.d	Pass		1		ICPMS		

#	ISTD Conc	Auto Dilution (ISIS 2)	Total Dil.	Final Weight or Volume	Sample Weight or Volume	prepFAST Dilution	Sublist	Total Acq Time	Max. Daily Dose	%J	User Def. 1	User Def. 2	User Def. 3
57													
58													
59			100	1	1	100							
60			10	1	1	10							
61													
62													
63													
64													

#	QC Failed Criteria	QC Failed Elements
57		
58		
59		
60	Main Error1 Criteria1	#2:Ca
61	Main Error1 Criteria1	#2:Mg,Cr
62		
63		
64		

Batch Log

#	Acq. Date-Time	Sample Type	Sample Name	Vial#	File Name	Acquisition Result	Error Message	Dilution Result	Comment	Operator	Replicates	Level
65	8/14/2023 15:17:43	Sample	LCS-41193	214	054SMPL.d	Pass		1		ICPMS		
66	8/14/2023 15:20:04	Sample	2308180-001C	215	055SMPL.d	Fail	QC check failed.	1		ICPMS		
67	8/14/2023 15:22:26	Sample	2308180-001CDUP	216	056SMPL.d	Fail	QC check failed.	1		ICPMS		
68	8/14/2023 15:24:48	Sample	2308180-001CMS	217	057SMPL.d	Fail	QC check failed.	1		ICPMS		
69	8/14/2023 15:27:04	Sample	2308177-001B	218	058SMPL.d	Fail		1		ICPMS		
70	8/14/2023 15:29:23	Sample	2308164-001A	208	059SMPL.d	Fail		1		ICPMS		
71	8/14/2023 15:31:51	CCV	CCV	5	060_CC.V.d	Fail	QC check failed.	1		ICPMS		
72	8/14/2023 15:34:12	CCB	CCB	1	061_CCB.d	Pass		1		ICPMS		

#	ISTD Conc	Auto Dilution (ISIS 2)	Total Dil.	Final Weight or Volume	Sample Weight or Volume	prepFAST Dilution	Sublist	Total Acq Time	Max. Daily Dose	%J	User Def. 1	User Def. 2	User Def. 3
65													
66													
67													
68													
69													
70			5	1	1	5							
71													
72													

#	QC Failed Criteria	QC Failed Elements
65		
66	Main Error1 Criteria1	#2:Ca,Na,Mg
67	Main Error1 Criteria1	#2:Ca,Na,Mg
68	Main Error1 Criteria1	#2:Ca,Na,Mg
69		
70		
71	Main Error1 Criteria1	#2:Mg
72		

Batch Log

#	Acq. Date-Time	Sample Type	Sample Name	Vial#	File Name	Acquisition Result	Error Message	Dilution Result	Comment	Operator	Replicates	Level
73	8/14/2023 15:36:47	Sample	2308181-001C	219	062SMPL.d	Fail	QC check failed.	1		ICPMS		
74	8/14/2023 15:39:12	Sample	2308181-002C	220	063SMPL.d	Fail	QC check failed.	1		ICPMS		
75	8/14/2023 15:41:36	Sample	2308153-001A	221	064SMPL.d	Fail	QC check failed.	1		ICPMS		
76	8/14/2023 15:44:05	Sample	2308161-001C	222	065SMPL.d	Fail	QC check failed.	1		ICPMS		
77	8/14/2023 15:46:30	Sample	2308161-002C	223	066SMPL.d	Fail	QC check failed.	1		ICPMS		
78	8/14/2023 15:48:56	Sample	2308161-003C	224	067SMPL.d	Fail	QC check failed.	1		ICPMS		
79	8/14/2023 15:51:21	Sample	2308161-004C	225	068SMPL.d	Fail	QC check failed.	1		ICPMS		

#	ISTD Conc	Auto Dilution (ISIS 2)	Total Dil.	Final Weight or Volume	Sample Weight or Volume	prepFAST Dilution	Sublist	Total Acq Time	Max. Daily Dose	%J	User Def. 1	User Def. 2	User Def. 3
73													
74													
75													
76													
77													
78													
79													

#	QC Failed Criteria	QC Failed Elements
73	Main Error1 Criteria1	#2 :Ca,Na,Mg,Mn
74	Main Error1 Criteria1	#2 :Ca,Na,Mg,Mn
75	Main Error1 Criteria1	#2:Ca
76	Main Error1 Criteria1	#2:Ca,Na,Mg
77	Main Error1 Criteria1	#2:Ca,Na,Mg
78	Main Error1 Criteria1	#2:Ca,Na,Mg
79	Main Error1 Criteria1	#2:Ca,Na,Mg

Batch Log

#	Acq. Date-Time	Sample Type	Sample Name	Vial#	File Name	Acquisition Result	Error Message	Dilution Result	Comment	Operator	Replicates	Level
80	8/14/2023 15:53:44	Sample	2308161-005C	226	069SMPL.d	Fail	QC check failed.	1		ICPMS		
81	8/14/2023 15:56:09	Sample	2308163-001A	227	070SMPL.d	Fail	QC check failed.	1		ICPMS		
82	8/14/2023 15:58:35	Sample	2308163-001AMS	228	071SMPL.d	Fail	QC check failed.	1		ICPMS		
83	8/14/2023 16:00:50	CCV	CCV	5	072_CCV.d	Fail	QC check failed.	1		ICPMS		
84	8/14/2023 16:03:11	CCB	CCB	1	073_CCB.d	Pass		1		ICPMS		
85	8/14/2023 16:05:45	Sample	2308169-001A	229	074SMPL.d	Fail	QC check failed.	1		ICPMS		
86	8/14/2023 16:07:56	Sample	2308169-002A	230	075SMPL.d	Pass		1		ICPMS		
87	8/14/2023 16:10:22	Sample	2308173-001A	231	076SMPL.d	Pass		1		ICPMS		

#	ISTD Conc	Auto Dilution (ISIS 2)	Total Dil.	Final Weight or Volume	Sample Weight or Volume	prepFAST Dilution	Sublist	Total Acq Time	Max. Daily Dose	%J	User Def. 1	User Def. 2	User Def. 3
80													
81													
82													
83													
84													
85													
86													
87													

#	QC Failed Criteria	QC Failed Elements
80	Main Error1 Criteria1	#2:Ca,Na,Mg
81	Main Error1 Criteria1	#1:B #2:Ca,Na,K
82	Main Error1 Criteria1	#1:B #2:Ca,Na,K
83	Main Error1 Criteria1	#2:Na
84		
85	Main Error1 Criteria1	#2 :Fe,Ca,Mg,Mn, Cu,Zn,Ba

Batch Log

#	QC Failed Criteria	QC Failed Elements
86		
87		

Batch Log

#	Acq. Date-Time	Sample Type	Sample Name	Vial#	File Name	Acquisition Result	Error Message	Dilution Result	Comment	Operator	Replicates	Level
88	8/14/2023 16:12:54	Sample	2308173-002A	232	077SMPL.d	Pass		1		ICPMS		
89	8/14/2023 16:15:26	Sample	2308169-001A	229	078SMPL.d	Pass		1		ICPMS		
90	8/14/2023 16:18:00	Sample	2308169-002A	230	079SMPL.d	Pass		1		ICPMS		
91	8/14/2023 16:20:27	CCV	CCV	5	080_CCV.d	Fail	QC check failed.	1		ICPMS		
92	8/14/2023 16:22:49	CCB	CCB	1	081_CCB.d	Pass		1		ICPMS		
93	8/14/2023 16:25:08	<Pause>				Pass				ICPMS		
94	8/14/2023 16:52:52	Sample	Wash	6	082SMPL.d	Pass		1		ICPMS		
95	8/14/2023 16:55:26	Sample	2308018-005A	0249	083SMPL.d	Fail	QC check failed.	1		ICPMS		

#	ISTD Conc	Auto Dilution (ISIS 2)	Total Dil.	Final Weight or Volume	Sample Weight or Volume	prepFAST Dilution	Sublist	Total Acq Time	Max. Daily Dose	%J	User Def. 1	User Def. 2	User Def. 3
88													
89			100	1	1	100							
90													
91													
92													
93													
94													
95													

#	QC Failed Criteria	QC Failed Elements
88		
89		
90		
91	Main Error1 Criteria1	#2:Na
92		
93		
94		
95	Main Error1 Criteria1	#2:Na,Mn

Batch Log

#	Acq. Date-Time	Sample Type	Sample Name	Vial#	File Name	Acquisition Result	Error Message	Dilution Result	Comment	Operator	Replicates	Level
96	8/14/2023 16:57:55	Sample	Wash	6	084SMPL.d	Pass		1		ICPMS		
97	8/14/2023 17:00:30	Sample	H2O Blk	0250	085SMPL.d	Pass		1		ICPMS		
98	8/14/2023 17:03:05	Sample	HNO3 Blk	251	086SMPL.d	Pass		1		ICPMS		
99	8/14/2023 17:05:41	Sample	HCl Blk	252	087SMPL.d	Pass		1		ICPMS		
100	8/14/2023 17:08:16	Sample	2% Blk	253	088SMPL.d	Pass		1		ICPMS		
101	8/14/2023 17:10:51	Sample	Wash	6	089SMPL.d	Pass		1		ICPMS		

#	ISTD Conc	Auto Dilution (ISIS 2)	Total Dil.	Final Weight or Volume	Sample Weight or Volume	prepFAST Dilution	Sublist	Total Acq Time	Max. Daily Dose	%J	User Def. 1	User Def. 2	User Def. 3
96													
97													
98													
99													
100													
101													

#	QC Failed Criteria	QC Failed Elements
96		
97		
98		
99		
100		
101		

Batch Log

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\082323JR.b

Batch Log

#	Acq. Date-Time	Sample Type	Sample Name	Vial#	File Name	Acquisition Result	Error Message	Dilution Result	Comment	Operator	Replicates	Level
1	8/23/2023 10:29:14	CalBlk	CAL BLANK	1	001CALB.d	Pass		1		ICPMS		1
2	8/23/2023 10:31:50	CalBlk	CAL BLANK	1	002CALB.d	Pass		1		ICPMS		1
3	8/23/2023 10:34:42	CalBlk	CAL BLANK	1	003CALB.d	Pass		1		ICPMS		1
4	8/23/2023 10:37:27	CalStd	STANDARD 1	5	004CAL.S.d	Pass		1		ICPMS		2
5	8/23/2023 10:40:18	CalStd	STANDARD 2	5	005CAL.S.d	Pass		1		ICPMS		3
6	8/23/2023 10:43:08	CalStd	STANDARD 3	5	006CAL.S.d	Pass		1		ICPMS		4
7	8/23/2023 10:45:58	CalStd	STANDARD 4	5	007CAL.S.d	Pass		1		ICPMS		5
8	8/23/2023 10:48:46	CalStd	STANDARD 5	5	008CAL.S.d	Pass		1		ICPMS		6

#	ISTD Conc	Auto Dilution (ISIS 2)	Total Dil.	Final Weight or Volume	Sample Weight or Volume	prepFAST Dilution	Sublist	Total Acq Time	Max. Daily Dose	%J	User Def. 1	User Def. 2	User Def. 3
1													
2			100	1	1	100							
3													
4			200	1	1	200							
5			100	1	1	100							
6			20	1	1	20							
7			4	1	1	4							
8			1	1	1	1							

#	QC Failed Criteria	QC Failed Elements
1		
2		
3		
4		
5		
6		
7		
8		

Batch Log

#	Acq. Date-Time	Sample Type	Sample Name	Vial#	File Name	Acquisition Result	Error Message	Dilution Result	Comment	Operator	Replicates	Level
9	8/23/2023 10:51:27	CalStd	STANDARD 6	101	009CAL.S.d	Pass		1		ICPMS		7
10	8/23/2023 10:53:52	CalStd	STANDARD 7	102	010CAL.S.d	Pass		1		ICPMS		8
11	8/23/2023 10:56:06	Sample	Wash	6	011SMPL.d	Pass		1		ICPMS		
12	8/23/2023 10:58:42	ICB	ICB	1	012_ICB.d	Pass		1		ICPMS		
13	8/23/2023 11:01:18	ICV	ICV	111	013_ICV.d	Fail	QC check failed.	1		ICPMS		
14	8/23/2023 11:03:47	Sample	ICSA	112	014SMPL.d	Fail	QC check failed.	1		ICPMS		
15	8/23/2023 11:06:00	<Pause>				Pass				ICPMS		
16	8/23/2023 11:08:48	ICV	ICV	111	015_ICV.d	Fail	QC check failed.	1		ICPMS		

#	ISTD Conc	Auto Dilution (ISIS 2)	Total Dil.	Final Weight or Volume	Sample Weight or Volume	prepFAST Dilution	Sublist	Total Acq Time	Max. Daily Dose	%J	User Def. 1	User Def. 2	User Def. 3
9													
10													
11													
12													
13													
14													
15													
16													

#	QC Failed Criteria	QC Failed Elements
9		
10		
11		
12		
13	Main Error1 Criteria1	#2:Ca,Hg
14	Main Error1 Criteria1	#2:Fe,Ca,Na
15		
16	Main Error1 Criteria1	#2:Na,Hg

Batch Log

#	Acq. Date-Time	Sample Type	Sample Name	Vial#	File Name	Acquisition Result	Error Message	Dilution Result	Comment	Operator	Replicates	Level
17	8/23/2023 11:11:03	<Pause>				Pass				ICPMS		
18	8/23/2023 11:11:54	Sample	ICSA	112	016SMPL.d	Fail	QC check failed.	1		ICPMS		
19	8/23/2023 11:14:24	Sample	LDR	110	017SMPL.d	Fail	QC check failed.	1		ICPMS		
20	8/23/2023 11:16:22	Sample	Wash	6	018SMPL.d	Pass		1		ICPMS		
21	8/23/2023 11:18:42	<Pause>				Pass				ICPMS		
22	8/23/2023 13:09:21	Sample	Wash	6	019SMPL.d	Pass		1		ICPMS		
23	8/23/2023 13:11:57	Sample	MB-41271	201	020SMPL.d	Pass		1		ICPMS		
24	8/23/2023 13:14:32	Sample	LCS-41271	202	021SMPL.d	Pass		1		ICPMS		

#	ISTD Conc	Auto Dilution (ISIS 2)	Total Dil.	Final Weight or Volume	Sample Weight or Volume	prepFAST Dilution	Sublist	Total Acq Time	Max. Daily Dose	%J	User Def. 1	User Def. 2	User Def. 3
17													
18													
19													
20													
21													
22													
23													
24													

#	QC Failed Criteria	QC Failed Elements
17		
18	Main Error1 Criteria1	#2:Fe,Ca,Na
19	Main Error1 Criteria1	#1:Be #2 :Fe,As,Ca,Na, Mg,K,V,Cr,Mn, Ni,Mo,Cd,Ba,T I,[Pb], [Pb],Pb,U,Sb
20		
21		
22		
23		

Batch Log

#	QC Failed Criteria	QC Failed Elements
24		

Batch Log

#	Acq. Date-Time	Sample Type	Sample Name	Vial#	File Name	Acquisition Result	Error Message	Dilution Result	Comment	Operator	Replicates	Level
25	8/23/2023 13:17:04	Sample	2308276-002A	203	022SMPL.d	Fail	QC check failed.	1		ICPMS		
26	8/23/2023 13:19:34	Sample	2308276-002ADIL	204	023SMPL.d	Fail	QC check failed.	1		ICPMS		
27	8/23/2023 13:22:06	CCV	CCV	5	024_CCV.d	Fail	QC check failed.	1		ICPMS		
28	8/23/2023 13:24:35	CCB	CCB	1	025_CCB.d	Pass		1		ICPMS		
29	8/23/2023 13:27:11	Sample	2308276-002AMS	205	026SMPL.d	Fail	QC check failed.	1		ICPMS		
30	8/23/2023 13:29:34	Sample	2308276-002AMSD	206	027SMPL.d	Fail	QC check failed.	1		ICPMS		
31	8/23/2023 13:31:42	<Pause>				Pass				ICPMS		
32	8/23/2023 13:32:56	Sample	2308276-002APDS	207	028SMPL.d	Fail	QC check failed.	1		ICPMS		

#	ISTD Conc	Auto Dilution (ISIS 2)	Total Dil.	Final Weight or Volume	Sample Weight or Volume	prepFAST Dilution	Sublist	Total Acq Time	Max. Daily Dose	%J	User Def. 1	User Def. 2	User Def. 3
25													
26													
27													
28													
29													
30													
31													
32													

#	QC Failed Criteria	QC Failed Elements
25	Main Error1 Criteria1	#2:Ca,P
26	Main Error1 Criteria1	#2:Ca
27	Main Error1 Criteria1	#2:Fe,Cu
28		
29	Main Error1 Criteria1	#2:Ca,P
30	Main Error1 Criteria1	#2:Ca,P
31		
32	Main Error1 Criteria1	#2:Ca,P

Batch Log

#	Acq. Date-Time	Sample Type	Sample Name	Vial#	File Name	Acquisition Result	Error Message	Dilution Result	Comment	Operator	Replicates	Level
33	8/23/2023 13:35:18	Sample	2308276-001A	208	029SMPL.d	Fail	QC check failed.	1		ICPMS		
34	8/23/2023 13:37:48	Sample	2308276-003A	209	030SMPL.d	Fail	QC check failed.	1		ICPMS		
35	8/23/2023 13:40:20	Sample	2308276-004A	210	031SMPL.d	Fail	QC check failed.	1		ICPMS		
36	8/23/2023 13:42:54	Sample	2308276-005A	211	032SMPL.d	Fail	QC check failed.	1		ICPMS		
37	8/23/2023 13:45:22	Sample	2308276-006A	212	033SMPL.d	Fail	QC check failed.	1		ICPMS		
38	8/23/2023 13:47:52	Sample	2308151-002A	213	034SMPL.d	Fail	QC check failed.	1		ICPMS		
39	8/23/2023 13:50:22	Sample	2308151-003A	214	035SMPL.d	Fail	QC check failed.	1		ICPMS		

#	ISTD Conc	Auto Dilution (ISIS 2)	Total Dil.	Final Weight or Volume	Sample Weight or Volume	prepFAST Dilution	Sublist	Total Acq Time	Max. Daily Dose	%J	User Def. 1	User Def. 2	User Def. 3
33													
34													
35													
36													
37													
38													
39													

#	QC Failed Criteria	QC Failed Elements
33	Main Error1 Criteria1	#2:Ca
34	Main Error1 Criteria1	#2:Ca
35	Main Error1 Criteria1	#2:Ca
36	Main Error1 Criteria1	#2:Ca
37	Main Error1 Criteria1	#2:Ca,P
38	Main Error1 Criteria1	#2:Fe,Al,Ti
39	Main Error1 Criteria1	#2:Fe,Al,Ti

#	Acq. Date-Time	Sample Type	Sample Name	Vial#	File Name	Acquisition Result	Error Message	Dilution Result	Comment	Operator	Replicates	Level
40	8/23/2023 13:52:52	CCV	CCV	5	036_CCV.d	Fail	QC check failed.	1		ICPMS		

Batch Log

#	Acq. Date-Time	Sample Type	Sample Name	Vial#	File Name	Acquisition Result	Error Message	Dilution Result	Comment	Operator	Replicates	Level
41	8/23/2023 13:55:22	CCB	CCB	1	037_CCB.d	Pass		1		ICPMS		
42	8/23/2023 13:57:58	Sample	2308151-005A	215	038SMPL.d	Fail	QC check failed.	1		ICPMS		
43	8/23/2023 14:00:28	Sample	2308256-001A	216	039SMPL.d	Fail	QC check failed.	1		ICPMS		
44	8/23/2023 14:02:55	Sample	2308269-003A	217	040SMPL.d	Fail	QC check failed.	1		ICPMS		
45	8/23/2023 14:05:24	Sample	2308273-001A	218	041SMPL.d	Fail	QC check failed.	1		ICPMS		
46	8/23/2023 14:07:49	Sample	2308273-002A	219	042SMPL.d	Fail	QC check failed.	1		ICPMS		
47	8/23/2023 14:10:15	Sample	2308273-003A	220	043SMPL.d	Fail	QC check failed.	1		ICPMS		

#	ISTD Conc	Auto Dilution (ISIS 2)	Total Dil.	Final Weight or Volume	Sample Weight or Volume	prepFAST Dilution	Sublist	Total Acq Time	Max. Daily Dose	%J	User Def. 1	User Def. 2	User Def. 3
40													
41													
42													
43													
44													
45													
46													
47													

#	QC Failed Criteria	QC Failed Elements
40	Main Error1 Criteria1	#2:Co,Cu
41		
42	Main Error1 Criteria1	#2:Fe,Al,Ti
43	Main Error1 Criteria1	#2:Fe,Al,Ti
44	Main Error1 Criteria1	#2:Fe,Mg,Zn,Al,Ti
45	Main Error1 Criteria1	#2:Ca,Sr
46	Main Error1 Criteria1	#2:Ca,Sr
47	Main Error1 Criteria1	#2:Ca,Sr

Batch Log

#	Acq. Date-Time	Sample Type	Sample Name	Vial#	File Name	Acquisition Result	Error Message	Dilution Result	Comment	Operator	Replicates	Level
48	8/23/2023 14:12:41	Sample	2308278-001A	221	044SMPL.d	Fail	QC check failed.	1		ICPMS		
49	8/23/2023 14:15:10	Sample	2308278-002A	222	045SMPL.d	Fail	QC check failed.	1		ICPMS		
50	8/23/2023 14:17:34	Sample	2308278-003A	223	046SMPL.d	Fail	QC check failed.	1		ICPMS		
51	8/23/2023 14:20:04	Sample	2308278-004A	224	047SMPL.d	Fail	QC check failed.	1		ICPMS		
52	8/23/2023 14:22:34	CCV	CCV	5	048_CC.V.d	Pass		1		ICPMS		
53	8/23/2023 14:25:04	CCB	CCB	1	049_CCB.d	Pass		1		ICPMS		
54	8/23/2023 14:27:40	Sample	2308278-005A	225	050SMPL.d	Fail	QC check failed.	1		ICPMS		
55	8/23/2023 14:30:03	Sample	2308300-001A	226	051SMPL.d	Fail	QC check failed.	1		ICPMS		

#	ISTD Conc	Auto Dilution (ISIS 2)	Total Dil.	Final Weight or Volume	Sample Weight or Volume	prepFAST Dilution	Sublist	Total Acq Time	Max. Daily Dose	%J	User Def. 1	User Def. 2	User Def. 3
48													
49													
50													
51													
52													
53													
54													
55													

#	QC Failed Criteria	QC Failed Elements
48	Main Error1 Criteria1	#2:Fe,Mn,Al,Ti
49	Main Error1 Criteria1	#2:Fe,Mn,Al,Ti
50	Main Error1 Criteria1	#2:Fe,Al,Ti
51	Main Error1 Criteria1	#2:Fe,Al,Ti
52		
53		
54	Main Error1 Criteria1	#2:Fe,Ca,Al,Ti
55	Main Error1 Criteria1	#2:Fe,Al

Batch Log

#	Acq. Date-Time	Sample Type	Sample Name	Vial#	File Name	Acquisition Result	Error Message	Dilution Result	Comment	Operator	Replicates	Level
56	8/23/2023 14:32:32	CCV	CCV	5	052_CCV.d	Fail	QC check failed.	1		ICPMS		
57	8/23/2023 14:35:00	CCB	CCB	1	053_CCB.d	Pass		1		ICPMS		
58	8/23/2023 14:37:19	<Pause>				Pass				ICPMS		
59	8/23/2023 14:40:49	<Pause>				Pass				ICPMS		
60	8/23/2023 14:51:34	Sample	MB-41286	301	054SMPL.d	Fail	QC check failed.	1		ICPMS		
61	8/23/2023 14:54:08	Sample	LCS-41286	302	055SMPL.d	Fail	QC check failed.	1		ICPMS		
62	8/23/2023 14:56:37	Sample	2308216-011A	303	056SMPL.d	Fail	QC check failed.	1		ICPMS		
63	8/23/2023 14:59:12	Sample	2308216-011ADUP	304	057SMPL.d	Fail	QC check failed.	1		ICPMS		

#	ISTD Conc	Auto Dilution (ISIS 2)	Total Dil.	Final Weight or Volume	Sample Weight or Volume	prepFAST Dilution	Sublist	Total Acq Time	Max. Daily Dose	%J	User Def. 1	User Def. 2	User Def. 3
56													
57													
58													
59													
60													
61													
62													
63													

#	QC Failed Criteria	QC Failed Elements
56	Main Error1 Criteria1	#2:Na
57		
58		
59		
60	Main Error1 Criteria1	#2:Na
61	Main Error1 Criteria1	#2:Na
62	Main Error1 Criteria1	#2:Na
63	Main Error1 Criteria1	#2:Na

Batch Log

#	Acq. Date-Time	Sample Type	Sample Name	Vial#	File Name	Acquisition Result	Error Message	Dilution Result	Comment	Operator	Replicates	Level
64	8/23/2023 15:01:46	Sample	2308216-011ADIL	305	058SMPL.d	Pass		1		ICPMS		
65	8/23/2023 15:04:20	Sample	2308216-011AMS	306	059SMPL.d	Fail	QC check failed.	1		ICPMS		
66	8/23/2023 15:06:51	Sample	2308216-011AMSD	307	060SMPL.d	Fail	QC check failed.	1		ICPMS		
67	8/23/2023 15:09:21	Sample	2308216-011APDS	308	061SMPL.d	Fail	QC check failed.	1		ICPMS		
68	8/23/2023 15:11:51	Sample	2308216-012A	309	062SMPL.d	Fail	QC check failed.	1		ICPMS		
69	8/23/2023 15:14:25	Sample	2308216-013A	310	063SMPL.d	Fail	QC check failed.	1		ICPMS		
70	8/23/2023 15:17:00	CCV	CCV	5	064_CC.V.d	Pass		1		ICPMS		
71	8/23/2023 15:19:28	CCB	CCB	1	065_CCB.d	Pass		1		ICPMS		

#	ISTD Conc	Auto Dilution (ISIS 2)	Total Dil.	Final Weight or Volume	Sample Weight or Volume	prepFAST Dilution	Sublist	Total Acq Time	Max. Daily Dose	%J	User Def. 1	User Def. 2	User Def. 3
64													
65													
66													
67													
68													
69													
70													
71													

#	QC Failed Criteria	QC Failed Elements
64		
65	Main Error1 Criteria1	#2:Na
66	Main Error1 Criteria1	#2:Na
67	Main Error1 Criteria1	#2:Na
68	Main Error1 Criteria1	#2:Na
69	Main Error1 Criteria1	#2:Na
70		
71		

Batch Log

#	Acq. Date-Time	Sample Type	Sample Name	Vial#	File Name	Acquisition Result	Error Message	Dilution Result	Comment	Operator	Replicates	Level
72	8/23/2023 15:22:04	Sample	2308253-001A	311	066SMPL.d	Fail		1		ICPMS		
73	8/23/2023 15:24:37	Sample	MB-41271 RR	401	067SMPL.d	Pass		1		ICPMS		
74	8/23/2023 15:27:12	Sample	LCS-41271 RR	402	068SMPL.d	Pass		1		ICPMS		
75	8/23/2023 15:29:42	Sample	2308253-002A	312	069SMPL.d	Fail	QC check failed.	1		ICPMS		
76	8/23/2023 15:32:13	Sample	2308253-003A	313	070SMPL.d	Fail	QC check failed.	1		ICPMS		
77	8/23/2023 15:34:50	Sample	2308253-004A	314	071SMPL.d	Fail	QC check failed.	1		ICPMS		
78	8/23/2023 15:37:20	Sample	2308253-005A	315	072SMPL.d	Fail	QC check failed.	1		ICPMS		
79	8/23/2023 15:39:51	Sample	2308253-006A	316	073SMPL.d	Fail	QC check failed.	1		ICPMS		

#	ISTD Conc	Auto Dilution (ISIS 2)	Total Dil.	Final Weight or Volume	Sample Weight or Volume	prepFAST Dilution	Sublist	Total Acq Time	Max. Daily Dose	%J	User Def. 1	User Def. 2	User Def. 3
72													
73													
74													
75													
76													
77													
78													
79													

#	QC Failed Criteria	QC Failed Elements
72		
73		
74		
75	Main Error1 Criteria1	#2:Na
76	Main Error1 Criteria1	#2:Na
77	Main Error1 Criteria1	#2:Na
78	Main Error1 Criteria1	#2:Na
79	ISTD Criteria1	#2:In,Bi

Batch Log

#	Acq. Date-Time	Sample Type	Sample Name	Vial#	File Name	Acquisition Result	Error Message	Dilution Result	Comment	Operator	Replicates	Level
80	8/23/2023 15:42:22	Sample	2308253-007A	317	074SMPL.d	Fail	QC check failed.	1		ICPMS		
81	8/23/2023 15:44:49	Sample	2308259-001A	318	075SMPL.d	Fail	QC check failed.	1		ICPMS		
82	8/23/2023 15:47:21	CCV	CCV	5	076_CCV.d	Fail	QC check failed.	1		ICPMS		
83	8/23/2023 15:49:50	CCB	CCB	1	077_CCB.d	Pass		1		ICPMS		
84	8/23/2023 15:52:25	Sample	2308259-002A	319	078SMPL.d	Fail	QC check failed.	1		ICPMS		
85	8/23/2023 15:54:42	<Pause>				Pass				ICPMS		
86	8/23/2023 15:55:15	Sample	2308259-003A	320	079SMPL.d	Fail		1		ICPMS		
87	8/23/2023 15:57:47	Sample	2308275-001G	321	080SMPL.d	Fail	QC check failed.	1		ICPMS		

#	ISTD Conc	Auto Dilution (ISIS 2)	Total Dil.	Final Weight or Volume	Sample Weight or Volume	prepFAST Dilution	Sublist	Total Acq Time	Max. Daily Dose	%J	User Def. 1	User Def. 2	User Def. 3
80													
81													
82													
83													
84													
85													
86													
87													

#	QC Failed Criteria	QC Failed Elements
80	Main Error1 Criteria1	#2:Na,[Pb],[Pb],Pb
81	Main Error1 Criteria1	#2:Na,Cr
82	Main Error1 Criteria1	#2:Na
83		
84	Main Error1 Criteria1	#2:Na,Cr
85		
86		
87	Main Error1 Criteria1	#2:Na

Batch Log

#	Acq. Date-Time	Sample Type	Sample Name	Vial#	File Name	Acquisition Result	Error Message	Dilution Result	Comment	Operator	Replicates	Level
88	8/23/2023 16:00:21	Sample	2308275-002G	322	081SMPL.d	Fail	QC check failed.	1		ICPMS		
89	8/23/2023 16:02:55	Sample	MB-41286 FB2	323	082SMPL.d	Pass		1		ICPMS		
90	8/23/2023 16:05:30	CCV	CCV	5	083_CCV.d	Fail	QC check failed.	1		ICPMS		
91	8/23/2023 16:07:58	CCB	CCB	1	084_CCB.d	Pass		1		ICPMS		
92	8/23/2023 16:10:34	Sample	Wash	6	085SMPL.d	Pass		1		ICPMS		
93	8/23/2023 16:13:10	Sample	MB-41280	227	086SMPL.d	Pass		1		ICPMS		
94	8/23/2023 16:15:46	Sample	LCS-41280	228	087SMPL.d	Pass		1		ICPMS		
95	8/23/2023 16:18:15	Sample	2308287-001A	229	088SMPL.d	Fail	QC check failed.	1		ICPMS		

#	ISTD Conc	Auto Dilution (ISIS 2)	Total Dil.	Final Weight or Volume	Sample Weight or Volume	prepFAST Dilution	Sublist	Total Acq Time	Max. Daily Dose	%J	User Def. 1	User Def. 2	User Def. 3
88													
89													
90													
91													
92													
93													
94													
95													

#	QC Failed Criteria	QC Failed Elements
88	Main Error1 Criteria1	#2:Na
89		
90	Main Error1 Criteria1	#2:Fe,Na
91		
92		
93		
94		
95	Main Error1 Criteria1	#1:B #2:Na

Batch Log

#	Acq. Date-Time	Sample Type	Sample Name	Vial#	File Name	Acquisition Result	Error Message	Dilution Result	Comment	Operator	Replicates	Level
96	8/23/2023 16:20:44	Sample	2308287-001ADUP	230	089SMPL.d	Fail	QC check failed.	1		ICPMS		
97	8/23/2023 16:23:12	Sample	2308287-001AMS	231	090SMPL.d	Fail	QC check failed.	1		ICPMS		
98	8/23/2023 16:25:34	Sample	2308236-001A	232	091SMPL.d	Fail	QC check failed.	1		ICPMS		
99	8/23/2023 16:27:43	<Pause>				Pass				ICPMS		
100	8/23/2023 16:28:24	Sample	2308236-002A	233	092SMPL.d	Fail	QC check failed.	1		ICPMS		
101	8/23/2023 16:30:48	Sample	2308237-001A	234	093SMPL.d	Fail	QC check failed.	1		ICPMS		
102	8/23/2023 16:33:16	Sample	2308237-002A	235	094SMPL.d	Fail	QC check failed.	1		ICPMS		
103	8/23/2023 16:35:46	CCV	CCV	5	095_CCV.d	Fail	QC check failed.	1		ICPMS		

#	ISTD Conc	Auto Dilution (ISIS 2)	Total Dil.	Final Weight or Volume	Sample Weight or Volume	prepFAST Dilution	Sublist	Total Acq Time	Max. Daily Dose	%J	User Def. 1	User Def. 2	User Def. 3
96													
97													
98													
99													
100													
101													
102													
103													

#	QC Failed Criteria	QC Failed Elements
96	Main Error1 Criteria1	#1:B #2:Na
97	Main Error1 Criteria1	#1:B #2:Na
98	Main Error1 Criteria1	#1:B #2 :Ca,Na,Mg,K,Zn,Sr
99		

Batch Log

#	QC Failed Criteria	QC Failed Elements
100	Main Error1 Criteria1	#1:B #2: :Ca,Mg,K,Zn,S r
101	ISTD Criteria1	#1:Sc #2:Bi
102	ISTD Criteria1	#1:Sc #2:Bi
103	ISTD Criteria1	#1:Li,Sc #2:Sc,Ge

#	Acq. Date-Time	Sample Type	Sample Name	Vial#	File Name	Acquisition Result	Error Message	Dilution Result	Comment	Operator	Replicates	Level
104	8/23/2023 16:38:09	CCB	CCB	1	096_CCB.d	Fail	QC check failed.	1		ICPMS		
105	8/23/2023 16:40:43	Sample	2308242-001A	236	097SMPL.d	Fail	QC check failed.	1		ICPMS		
106	8/23/2023 16:43:11	Sample	2308257-001D	237	098SMPL.d	Fail	QC check failed.	1		ICPMS		
107	8/23/2023 16:45:42	Sample	2308258-001D	238	099SMPL.d	Fail	QC check failed.	1		ICPMS		
108	8/23/2023 16:48:13	Sample	2308272-001A	239	100SMPL.d	Fail	QC check failed.	1		ICPMS		
109	8/23/2023 16:50:39	Sample	2308272-002A	240	101SMPL.d	Fail	QC check failed.	1		ICPMS		
110	8/23/2023 16:53:03	Sample	2308279-001A	241	102SMPL.d	Fail	QC check failed.	1		ICPMS		
111	8/23/2023 16:55:27	Sample	2308280-001A	242	103SMPL.d	Fail	QC check failed.	1		ICPMS		
112	8/23/2023 16:57:58	Sample	2308285-001C	243	104SMPL.d	Fail	QC check failed.	1		ICPMS		

#	ISTD Conc	Auto Dilution (ISIS 2)	Total Dil.	Final Weight or Volume	Sample Weight or Volume	prepFAST Dilution	Sublist	Total Acq Time	Max. Daily Dose	%J	User Def. 1	User Def. 2	User Def. 3
104													
105													
106													
107													
108													
109													
110													
111													

Batch Log

#	ISTD Conc	Auto Dilution (ISIS 2)	Total Dil.	Final Weight or Volume	Sample Weight or Volume	prepFAST Dilution	Sublist	Total Acq Time	Max. Daily Dose	%J	User Def. 1	User Def. 2	User Def. 3
112													

#	QC Failed Criteria	QC Failed Elements
104	ISTD Criteria1	#1:Li,Sc #2:Sc,Ge
105	ISTD Criteria1	#1:Li,Sc #2:Sc
106	ISTD Criteria1	#1:Li,Sc
107	ISTD Criteria1	#1:Li,Sc
108	ISTD Criteria1	#1:Li,Sc
109	ISTD Criteria1	#1:Li
110	Main Error1 Criteria1	#2 :Na,Ni,Cu,Zn, Cd
111	ISTD Criteria1	#1:Li
112	ISTD Criteria1	#1:Li

#	Acq. Date-Time	Sample Type	Sample Name	Vial#	File Name	Acquisition Result	Error Message	Dilution Result	Comment	Operator	Replicates	Level
113	8/23/2023 17:00:26	Sample	2308285-001CMS	244	105SMPL.d	Fail	QC check failed.	1		ICPMS		
114	8/23/2023 17:02:46	Sample	2308288-001D	245	106SMPL.d	Fail	QC check failed.	1		ICPMS		
115	8/23/2023 17:05:17	CCV	CCV	5	107_CCV.d	Fail	QC check failed.	1		ICPMS		
116	8/23/2023 17:07:44	CCB	CCB	1	108_CCB.d	Fail	QC check failed.	1		ICPMS		
117	8/23/2023 17:10:19	Sample	2308291-001A	246	109SMPL.d	Fail	QC check failed.	1		ICPMS		
118	8/23/2023 17:12:48	Sample	2308292-001A	247	110SMPL.d	Fail	QC check failed.	1		ICPMS		
119	8/23/2023 17:15:17	Sample	2308296-001A	248	111SMPL.d	Fail	QC check failed.	1		ICPMS		
120	8/23/2023 17:17:37	Sample	2308259-001A 5X	405	112SMPL.d	Pass		1		ICPMS		

Batch Log

#	ISTD Conc	Auto Dilution (ISIS 2)	Total Dil.	Final Weight or Volume	Sample Weight or Volume	prepFAST Dilution	Sublist	Total Acq Time	Max. Daily Dose	%J	User Def. 1	User Def. 2	User Def. 3
113													
114													
115													
116													
117													
118													
119													
120													

#	QC Failed Criteria	QC Failed Elements
113	ISTD Criteria1	#1:Li
114	ISTD Criteria1	#1:Li
115	ISTD Criteria1	#1:Li
116	ISTD Criteria1	#1:Li
117	Main Error1 Criteria1	#1:B #2:Na
118	Main Error1 Criteria1	#1:B #2:Ca,Na,K
119	Main Error1 Criteria1	#2 :Fe,Cr,Mn,Ni,Zn,Al
120		

Batch Log

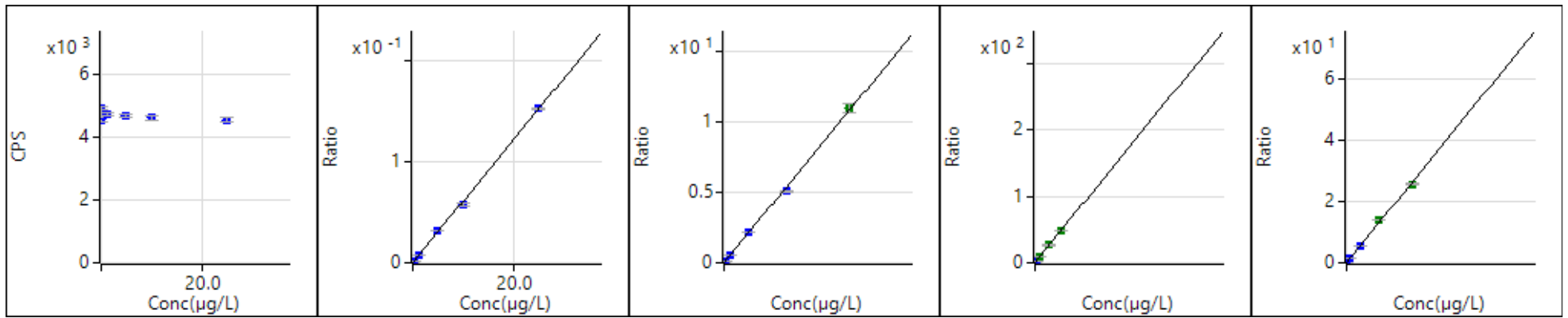
#	Acq. Date-Time	Sample Type	Sample Name	Vial#	File Name	Acquisition Result	Error Message	Dilution Result	Comment	Operator	Replicates	Level
121	8/23/2023 17:20:10	Sample	2308259-002A 5X	406	113SMPL.d	Pass		1		ICPMS		
122	8/23/2023 17:22:43	Sample	2308259-003A 5X	407	114SMPL.d	Pass		1		ICPMS		
123	8/23/2023 17:25:16	CCV	CCV	5	115_CCV.d	Fail	QC check failed.	1		ICPMS		
124	8/23/2023 17:27:45	CCB	CCB	1	116_CCB.d	Pass		1		ICPMS		
125	8/23/2023 17:30:21	Sample	2308018-006A	403	117SMPL.d	Pass		1		ICPMS		
126	8/23/2023 17:32:56	Sample	2308018-008A	404	118SMPL.d	Fail	QC check failed.	1		ICPMS		
127	8/23/2023 17:35:29	Sample	Wash	1	119SMPL.d	Pass		1		ICPMS		

#	ISTD Conc	Auto Dilution (ISIS 2)	Total Dil.	Final Weight or Volume	Sample Weight or Volume	prepFAST Dilution	Sublist	Total Acq Time	Max. Daily Dose	%J	User Def. 1	User Def. 2	User Def. 3
121													
122													
123													
124													
125													
126													
127													

#	QC Failed Criteria	QC Failed Elements
121		
122		
123	Main Error1 Criteria1	#2 :Na,Mg,Cd,Al
124		
125		
126	Main Error1 Criteria1	#2:Na,Mn
127		



Calibration



7 Li [No Gas]

ISTD: ---

Excluded

R

9 Be [No Gas]

ISTD: 6 Li

$y = 6.082E-3 x + 6.411E-5$

R 0.9996

DL 0.01081

BEC 0.01054

11 B [No Gas]

ISTD: 6 Li

$y = 4.316E-3 x + 5.918E-3$

R 0.9994

DL 0.1694

BEC 1.371

23 Na [He]

ISTD: 45 Sc

$y = 9.852E-3 x + 2.299E-1$

R 0.9991

DL 1.052

BEC 23.34

24 Mg [He]

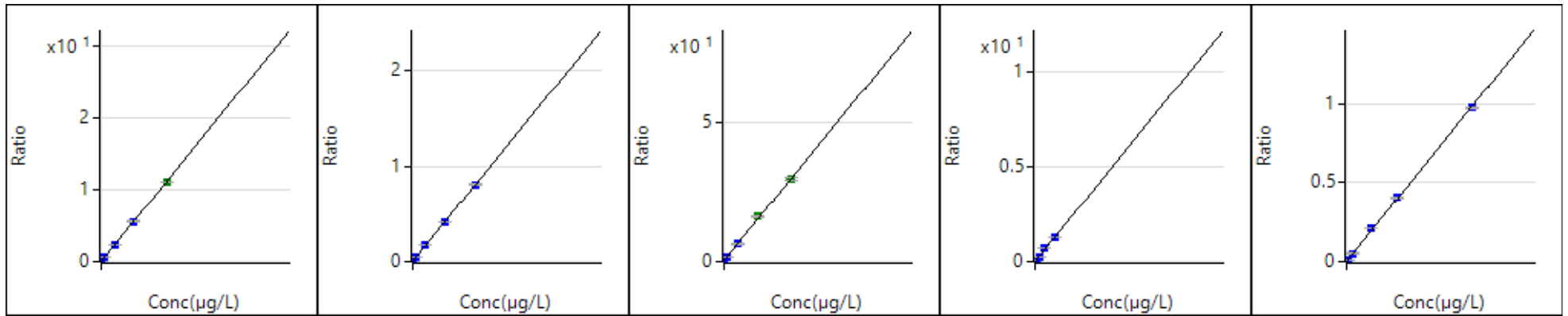
ISTD: 45 Sc

$y = 5.253E-3 x + 4.626E-3$

R 0.9993

DL 0.1288

BEC 0.8807



27 Al [He]

ISTD: 45 Sc

$y = 2.221E-3 x + 1.447E-2$

R 1.0000

DL 4.01

BEC 6.516

31 P [He]

ISTD: 45 Sc

$y = 1.626E-4 x + 2.571E-3$

R 0.9999

DL 1.27

BEC 15.82

39 K [He]

ISTD: 45 Sc

$y = 5.944E-3 x + 3.929E-1$

R 0.9990

DL 1.266

BEC 66.1

44 Ca [He]

ISTD: 45 Sc

$y = 2.574E-4 x + 2.142E-3$

R 0.9990

DL 0.5533

BEC 8.32

47 Ti [He]

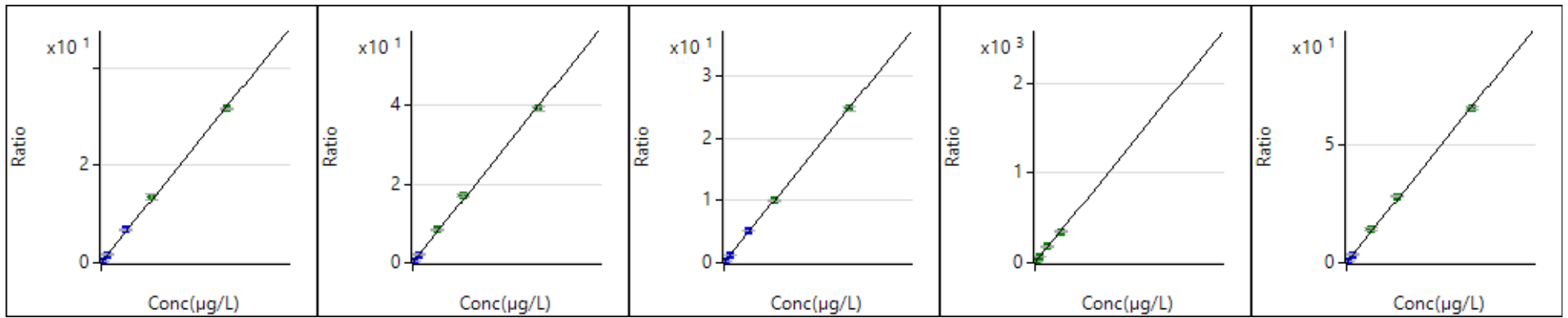
ISTD: 45 Sc

$y = 1.968E-3 x + 4.220E-5$

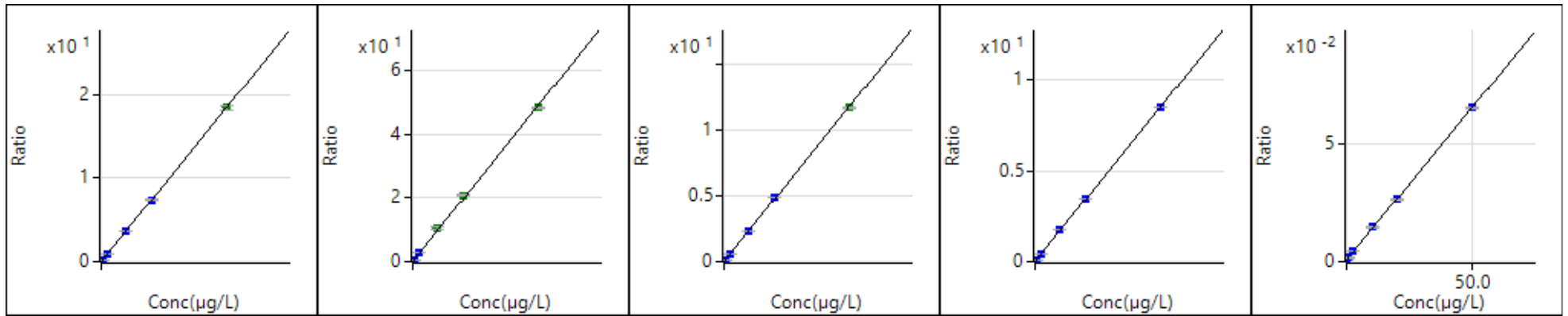
R 0.9998

DL 0.0373

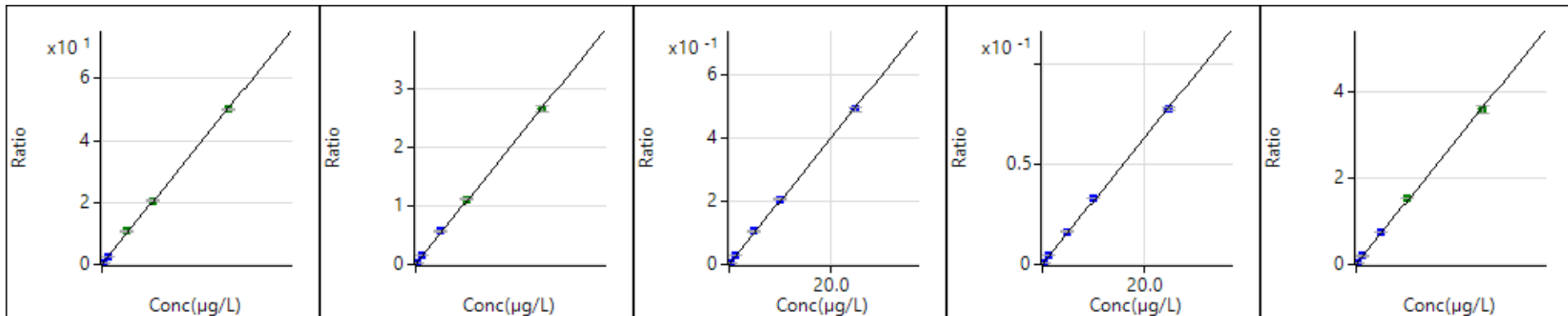
BEC 0.02144



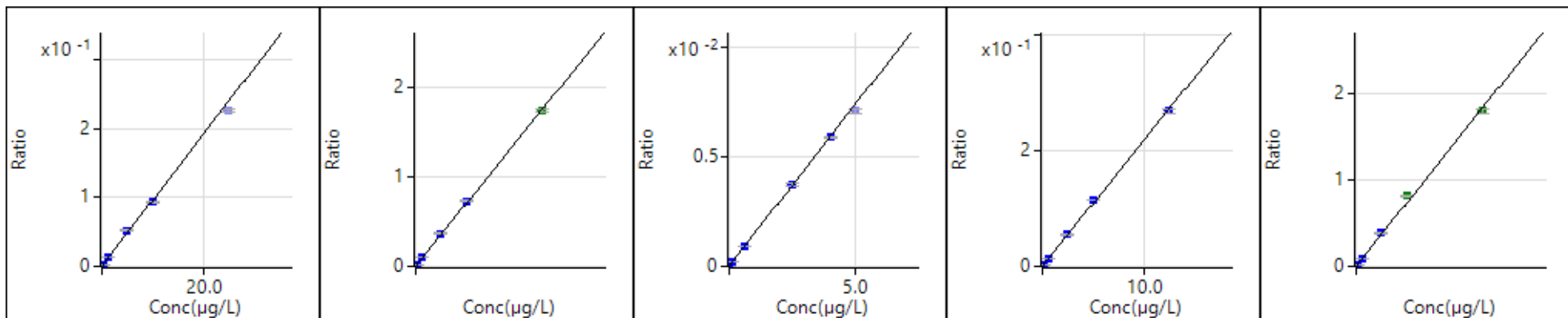
51 V [He] ISTD: 45 Sc $y = 6.393E-2 x + 2.047E-2$ R 0.9996 DL 0.0323 BEC 0.3202	52 Cr [He] ISTD: 45 Sc $y = 7.955E-2 x + 4.382E-3$ R 0.9993 DL 0.003523 BEC 0.05509	55 Mn [He] ISTD: 45 Sc $y = 4.964E-2 x + 3.365E-3$ R 1.0000 DL 0.0154 BEC 0.06779	56 Fe [He] ISTD: 45 Sc $y = 7.007E-2 x + 4.257E-1$ R 0.9998 DL 0.2617 BEC 6.075	59 Co [He] ISTD: 45 Sc $y = 1.322E-1 x + 2.019E-3$ R 0.9995 DL 0.004442 BEC 0.01527
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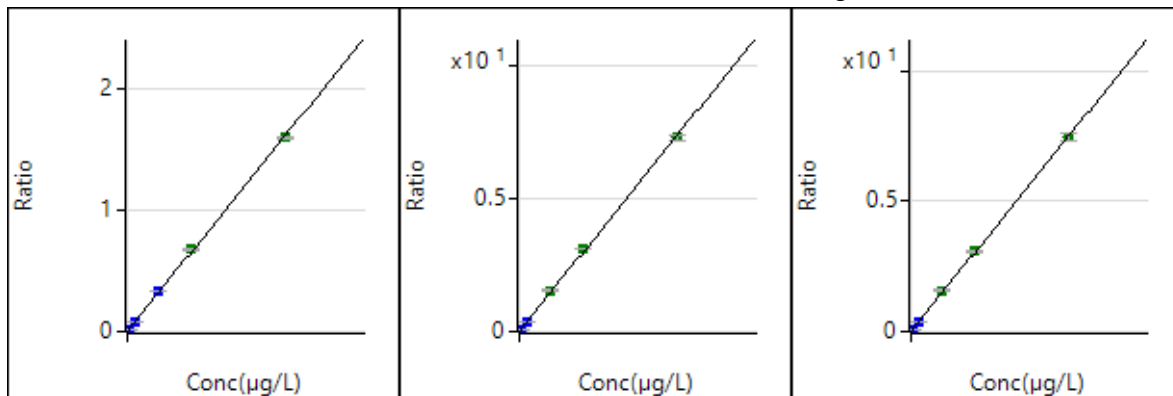
60 Ni [He] ISTD: 45 Sc $y = 3.682E-2 x + 1.689E-3$ R 1.0000 DL 0.00217 BEC 0.04587	63 Cu [He] ISTD: 45 Sc $y = 9.822E-2 x + 1.920E-2$ R 0.9995 DL 0.01765 BEC 0.1954	66 Zn [He] ISTD: 72 Ge $y = 2.355E-2 x + 9.082E-3$ R 0.9999 DL 0.09369 BEC 0.3857	75 As [He] ISTD: 72 Ge $y = 1.703E-2 x + 8.388E-4$ R 1.0000 DL 0.01816 BEC 0.04926	78 Se [He] ISTD: 72 Ge $y = 1.282E-3 x + 9.651E-4$ R 0.9999 DL 0.1183 BEC 0.7531
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88 Sr [He]	95 Mo [He]	107 Ag [He]	111 Cd [He]	118 Sn [He]
ISTD: 72 Ge	ISTD: 115 In	ISTD: 115 In	ISTD: 115 In	ISTD: 115 In
$y = 1.007E-1 x + 2.227E-3$	$y = 5.324E-3 x + 4.054E-5$	$y = 1.978E-2 x + 9.581E-5$	$y = 3.138E-3 x + 4.057E-6$	$y = 7.262E-3 x + 3.650E-4$
R 0.9999	R 0.9998	R 0.9997	R 0.9997	R 0.9997
DL 0.005626	DL 0.0007596	DL 0.0006809	DL 0.000434	DL 0.005953
BEC 0.02211	BEC 0.007615	BEC 0.004844	BEC 0.001293	BEC 0.05026



121 Sb [He]	137 Ba [He]	201 Hg [He]	205 Tl [He]	206 Pb [He]
ISTD: 115 In	ISTD: 115 In	ISTD: 209 Bi	ISTD: 209 Bi	ISTD: 209 Bi
$y = 9.558E-3 x + 6.288E-5$	$y = 3.507E-3 x + 2.707E-4$	$y = 1.474E-3 x + 9.210E-6$	$y = 2.164E-2 x + 7.869E-6$	$y = 7.324E-3 x + 1.779E-4$
R 0.9986	R 0.9998	R 1.0000	R 0.9996	R 0.9987
DL 0.0009083	DL 0.01169	DL 0.002174	DL 0.0002676	DL 0.004353
BEC 0.006579	BEC 0.07719	BEC 0.006249	BEC 0.0003637	BEC 0.02428



207 [Pb] [He]

ISTD: 209 Bi

$$y = 6.427E-3 x + 1.578E-4$$

R 0.9997

DL 0.008189

BEC 0.02455

208 Pb [He]

ISTD: 209 Bi

$$y = 2.941E-2 x + 7.396E-4$$

R 0.9996

DL 0.003803

BEC 0.02515

238 U [He]

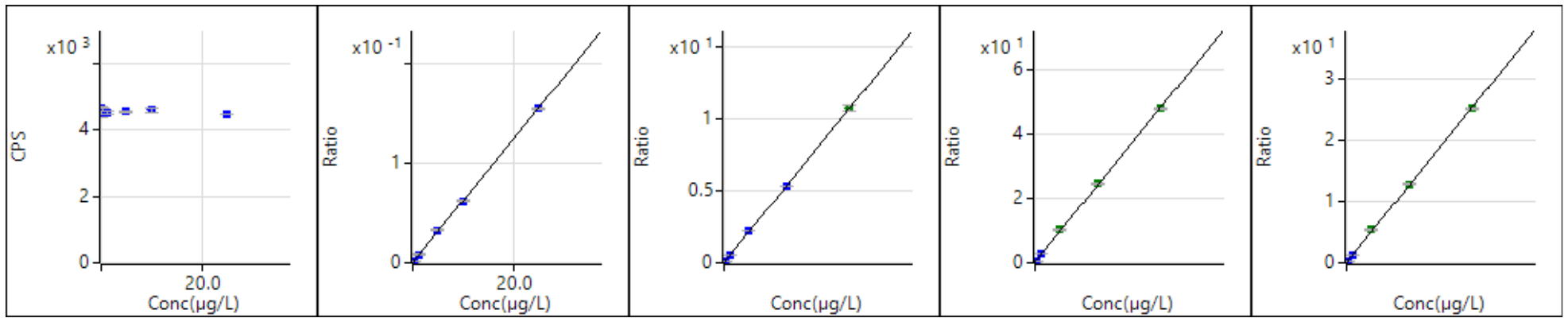
ISTD: 209 Bi

$$y = 1.495E-2 x + 7.550E-6$$

R 0.9999

DL 0.0001504

BEC 0.0005049



7 Li [No Gas]

ISTD: ---

Excluded

R

9 Be [No Gas]

ISTD: 6 Li

$y = 6.182E-3 x + 8.041E-5$

R 0.9999

DL 0.03361

BEC 0.01301

11 B [No Gas]

ISTD: 6 Li

$y = 4.266E-3 x + 6.615E-3$

R 1.0000

DL 0.1028

BEC 1.551

23 Na [He]

ISTD: 45 Sc

$y = 9.606E-3 x + 2.035E-1$

R 0.9999

DL 0.6841

BEC 21.19

24 Mg [He]

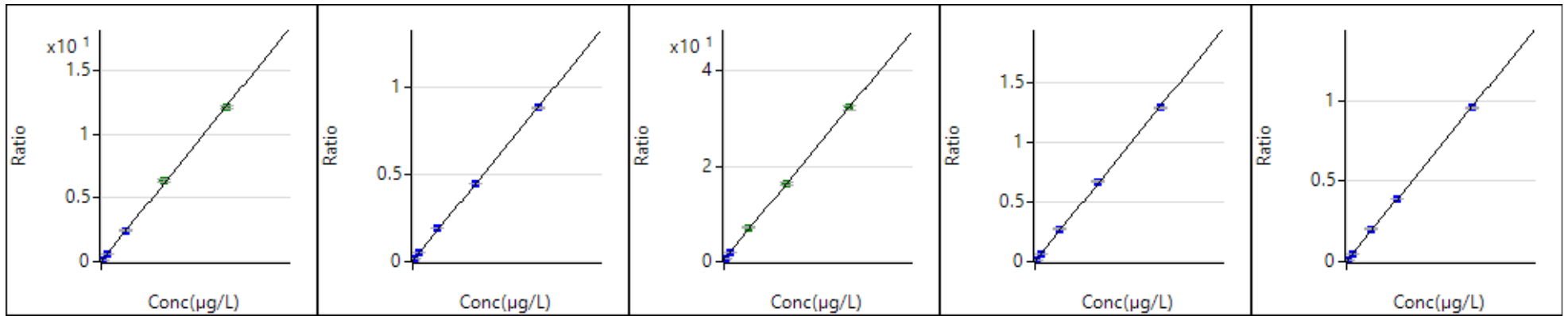
ISTD: 45 Sc

$y = 5.066E-3 x + 3.254E-3$

R 0.9999

DL 0.1063

BEC 0.6424



27 Al [He]

ISTD: 45 Sc

$y = 2.438E-3 x + 1.496E-2$

R 0.9997

DL 0.8552

BEC 6.136

31 P [He]

ISTD: 45 Sc

$y = 1.765E-4 x + 4.126E-3$

R 0.9999

DL 5.486

BEC 23.38

39 K [He]

ISTD: 45 Sc

$y = 6.362E-3 x + 4.464E-1$

R 0.9999

DL 0.604

BEC 70.17

44 Ca [He]

ISTD: 45 Sc

$y = 2.605E-4 x + 1.942E-3$

R 0.9998

DL 0.9687

BEC 7.453

47 Ti [He]

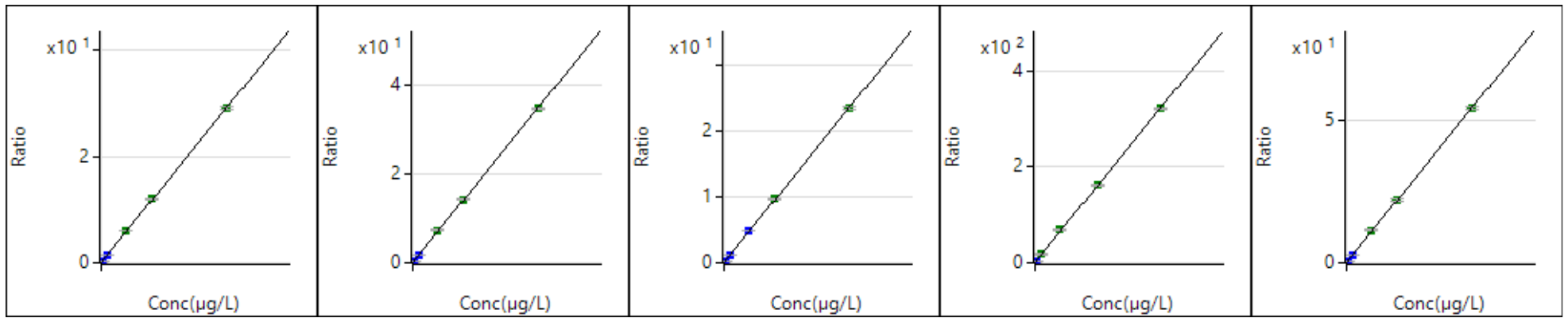
ISTD: 45 Sc

$y = 1.924E-3 x + 6.249E-5$

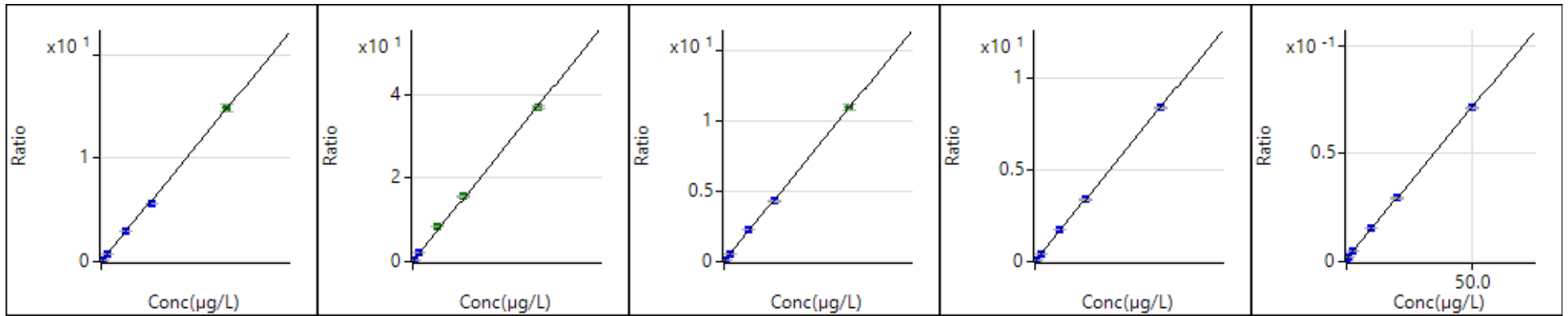
R 0.9999

DL 0.06981

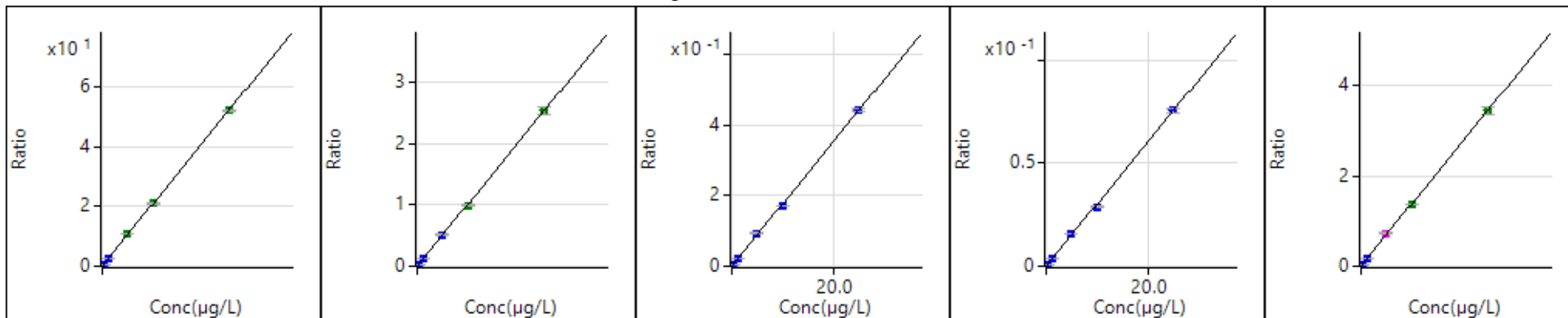
BEC 0.03248



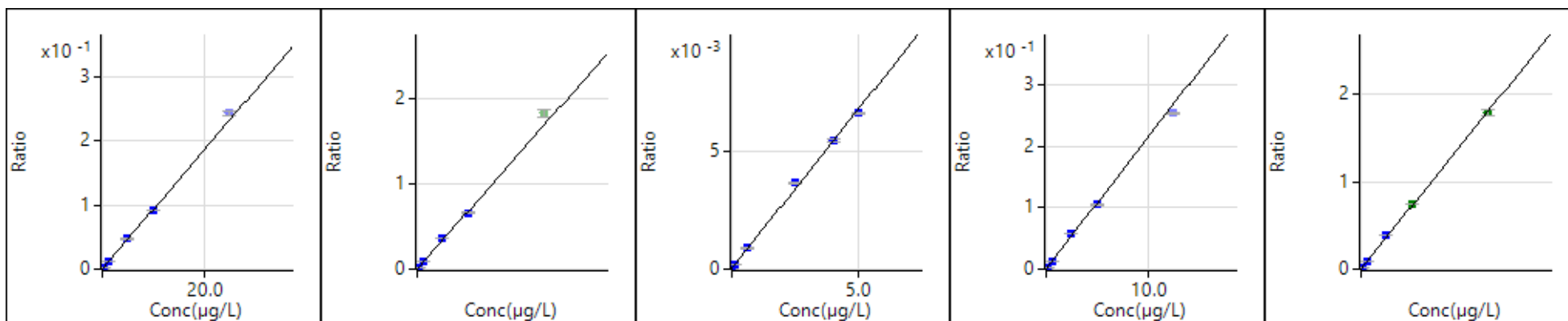
51 V [He] ISTD: 45 Sc $y = 5.830E-2 x + 1.741E-2$ R 0.9999 DL 0.02186 BEC 0.2987	52 Cr [He] ISTD: 45 Sc $y = 6.969E-2 x + 3.977E-3$ R 0.9999 DL 0.007472 BEC 0.05707	55 Mn [He] ISTD: 45 Sc $y = 4.709E-2 x + 2.413E-3$ R 0.9999 DL 0.01427 BEC 0.05123	56 Fe [He] ISTD: 45 Sc $y = 6.432E-2 x + 4.038E-1$ R 0.9999 DL 0.08501 BEC 6.277	59 Co [He] ISTD: 45 Sc $y = 1.089E-1 x + 1.218E-3$ R 0.9999 DL 0.004901 BEC 0.01119
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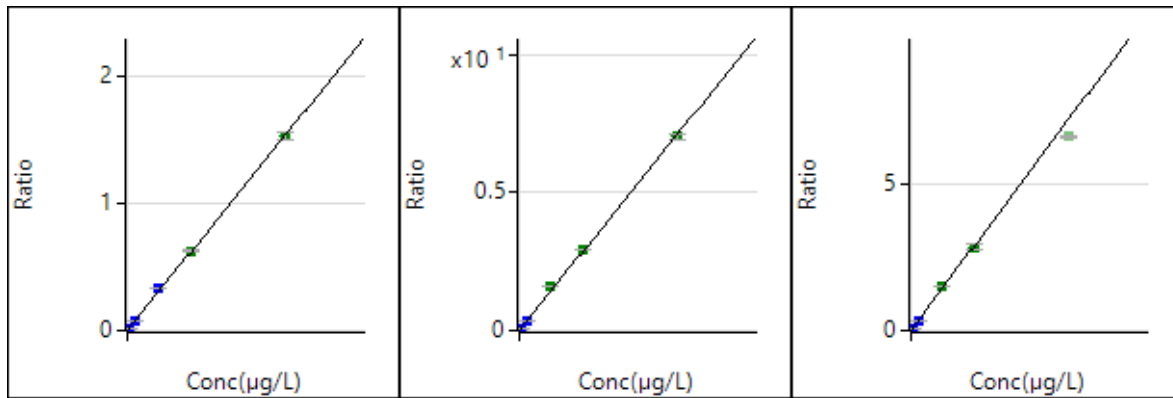
60 Ni [He] ISTD: 45 Sc $y = 2.952E-2 x + 1.089E-3$ R 0.9998 DL 0.006007 BEC 0.03688	63 Cu [He] ISTD: 45 Sc $y = 7.475E-2 x + 1.420E-2$ R 0.9995 DL 0.02575 BEC 0.1899	66 Zn [He] ISTD: 72 Ge $y = 2.188E-2 x + 7.701E-3$ R 1.0000 DL 0.07365 BEC 0.352	75 As [He] ISTD: 72 Ge $y = 1.679E-2 x + 1.037E-3$ R 1.0000 DL 0.01843 BEC 0.06177	78 Se [He] ISTD: 72 Ge $y = 1.403E-3 x + 1.182E-3$ R 0.9999 DL 0.04775 BEC 0.8428
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88 Sr [He] ISTD: 72 Ge $y = 1.048E-1 x + 1.885E-3$ R 1.0000 DL 0.00688 BEC 0.01799	95 Mo [He] ISTD: 115 In $y = 5.075E-3 x + 7.255E-5$ R 0.9999 DL 0.009521 BEC 0.0143	107 Ag [He] ISTD: 115 In $y = 1.757E-2 x + 7.036E-5$ R 0.9998 DL 0.0007223 BEC 0.004005	111 Cd [He] ISTD: 115 In $y = 3.009E-3 x + 3.771E-6$ R 0.9998 DL 0.001129 BEC 0.001253	118 Sn [He] ISTD: 115 In $y = 6.902E-3 x + 4.329E-4$ R 0.9999 DL 0.01975 BEC 0.06272
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121 Sb [He] ISTD: 115 In $y = 9.269E-3 x + 7.383E-5$ R 0.9999 DL 0.001679 BEC 0.007965	137 Ba [He] ISTD: 115 In $y = 3.365E-3 x + 3.184E-4$ R 0.9991 DL 0.06564 BEC 0.09461	201 Hg [He] ISTD: 209 Bi $y = 1.343E-3 x + 2.093E-5$ R 0.9991 DL 0.001008 BEC 0.01558	205 Tl [He] ISTD: 209 Bi $y = 2.140E-2 x + 1.098E-5$ R 0.9992 DL 0.0006034 BEC 0.0005134	206 Pb [He] ISTD: 209 Bi $y = 7.206E-3 x + 2.058E-4$ R 0.9997 DL 0.005843 BEC 0.02856
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207 [Pb] [He]

ISTD: 209 Bi

$$y = 6.130E-3 x + 1.821E-4$$

R 0.9998

DL 0.001898

BEC 0.02971

208 Pb [He]

ISTD: 209 Bi

$$y = 2.834E-2 x + 7.992E-4$$

R 0.9996

DL 0.001219

BEC 0.0282

238 U [He]

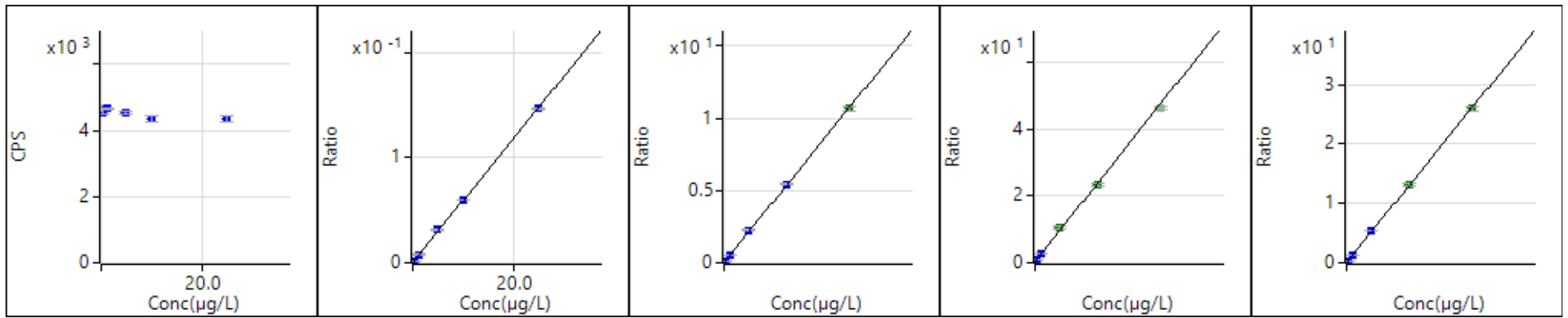
ISTD: 209 Bi

$$y = 1.440E-2 x + 1.273E-5$$

R 0.9995

DL 0.001059

BEC 0.0008843



7 Li [No Gas]

ISTD: ---

Excluded

R

9 Be [No Gas]

ISTD: 6 Li

$y = 5.898E-3 x + 9.220E-5$

R 0.9999

DL 0.03009

BEC 0.01563

11 B [No Gas]

ISTD: 6 Li

$y = 4.286E-3 x + 2.331E-3$

R 0.9999

DL 0.09416

BEC 0.5438

23 Na [He]

ISTD: 45 Sc

$y = 9.458E-3 x + 2.259E-1$

R 0.9989

DL 1.055

BEC 23.89

24 Mg [He]

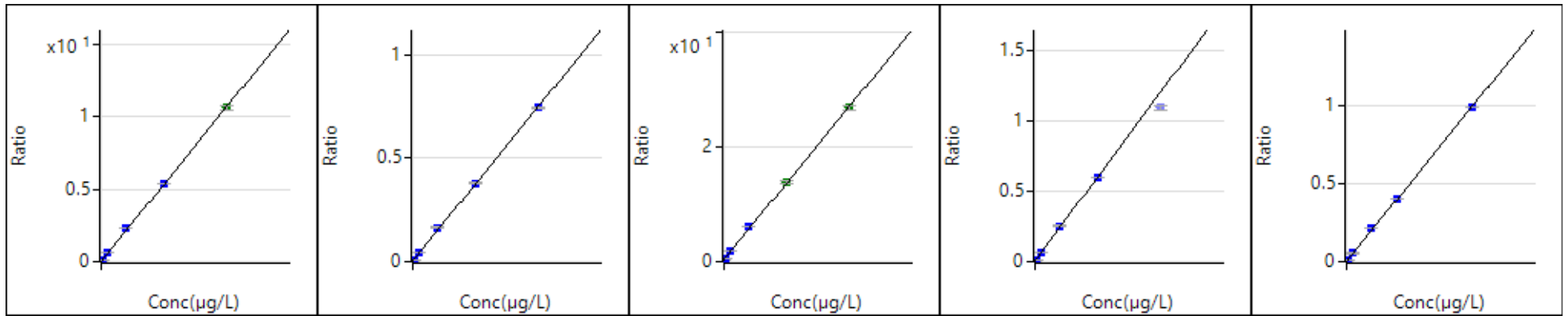
ISTD: 45 Sc

$y = 5.215E-3 x + 5.060E-3$

R 0.9999

DL 0.2824

BEC 0.9703



27 Al [He]

ISTD: 45 Sc

$y = 2.134E-3 x + 1.136E-2$

R 0.9999

DL 1.535

BEC 5.322

31 P [He]

ISTD: 45 Sc

$y = 1.492E-4 x + 1.924E-3$

R 0.9998

DL 4.29

BEC 12.9

39 K [He]

ISTD: 45 Sc

$y = 5.332E-3 x + 3.642E-1$

R 0.9999

DL 2.391

BEC 68.29

44 Ca [He]

ISTD: 45 Sc

$y = 2.395E-4 x + 3.928E-3$

R 0.9997

DL 4.908

BEC 16.4

47 Ti [He]

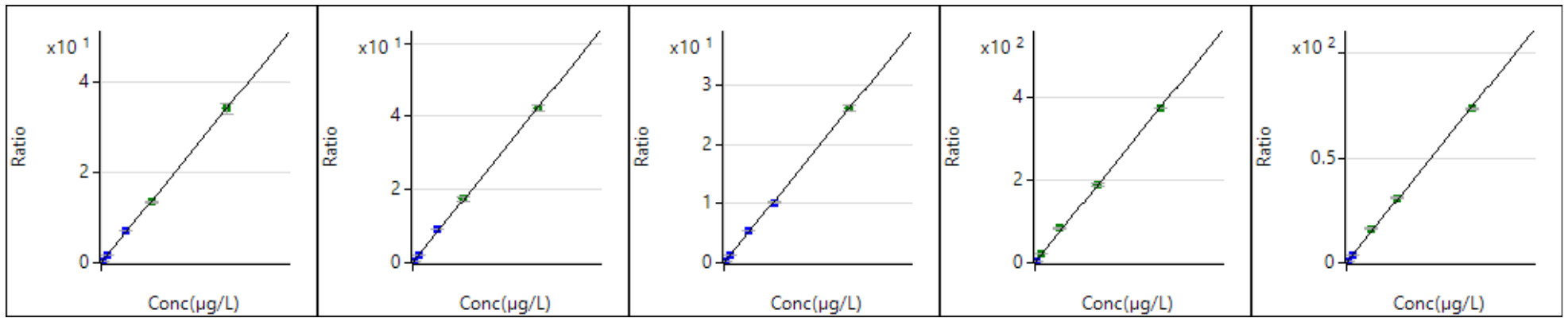
ISTD: 45 Sc

$y = 1.981E-3 x + 9.547E-5$

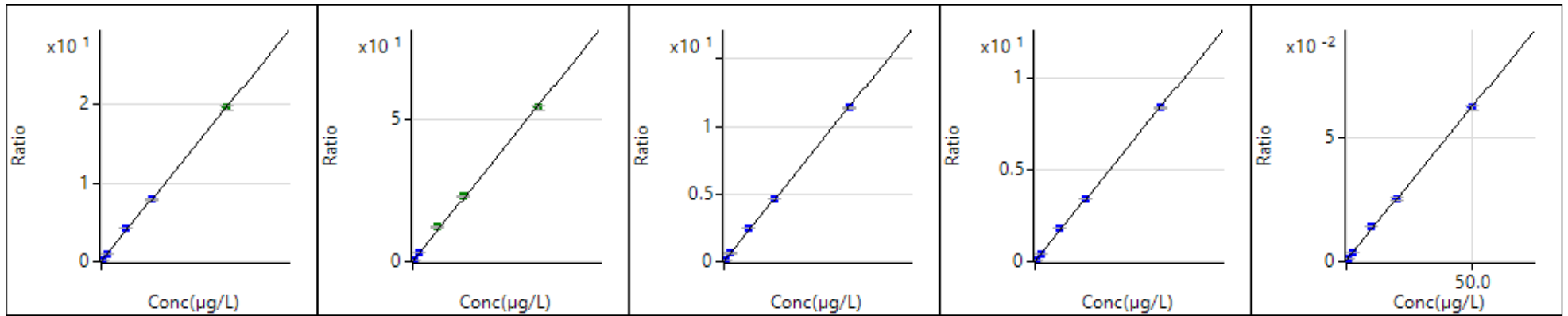
R 0.9998

DL 0.07244

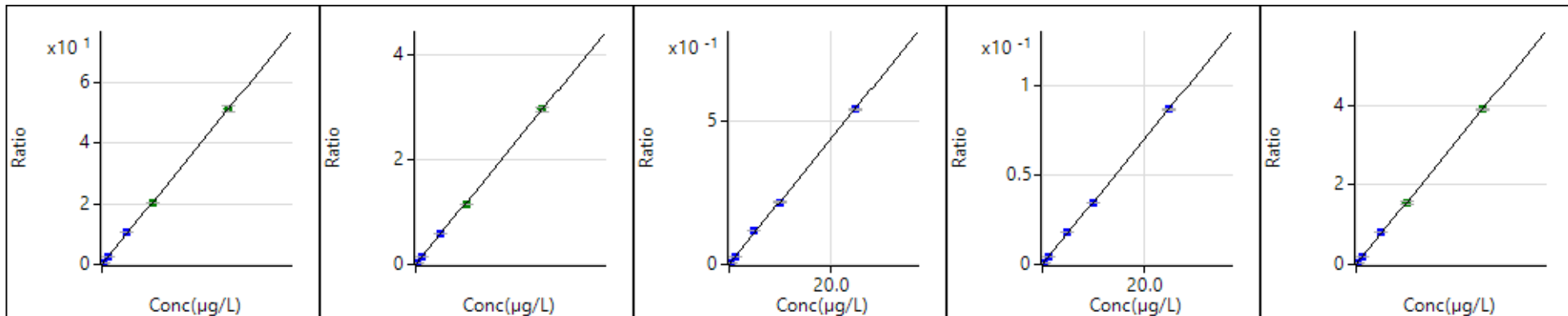
BEC 0.04819



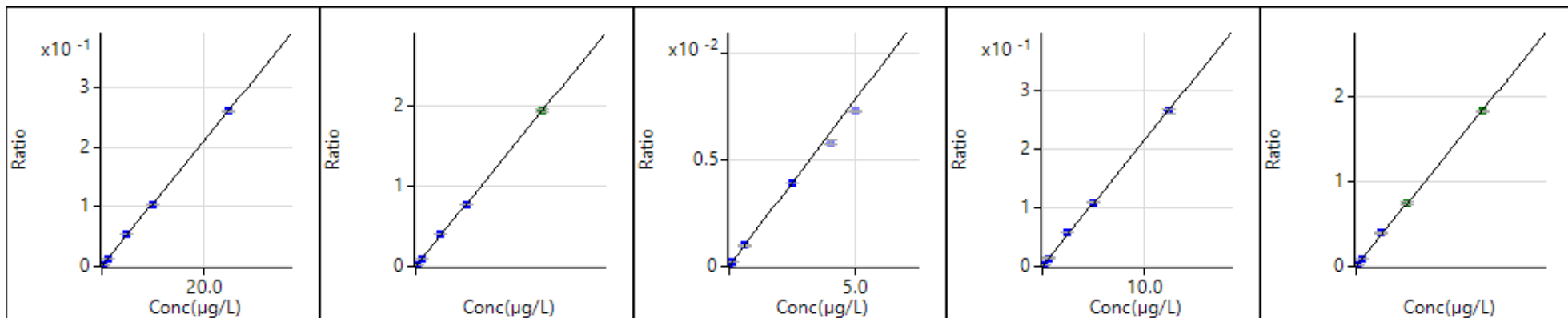
51 V [He] ISTD: 45 Sc $y = 6.819E-2 x + 1.711E-2$ R 0.9999 DL 0.03298 BEC 0.251	52 Cr [He] ISTD: 45 Sc $y = 8.478E-2 x + 4.789E-3$ R 0.9998 DL 0.01291 BEC 0.05648	55 Mn [He] ISTD: 45 Sc $y = 5.198E-2 x + 2.574E-3$ R 0.9999 DL 0.005396 BEC 0.04952	56 Fe [He] ISTD: 45 Sc $y = 7.514E-2 x + 3.528E-1$ R 0.9997 DL 0.227 BEC 4.695	59 Co [He] ISTD: 45 Sc $y = 1.487E-1 x + 1.716E-3$ R 0.9996 DL 0.005849 BEC 0.01154
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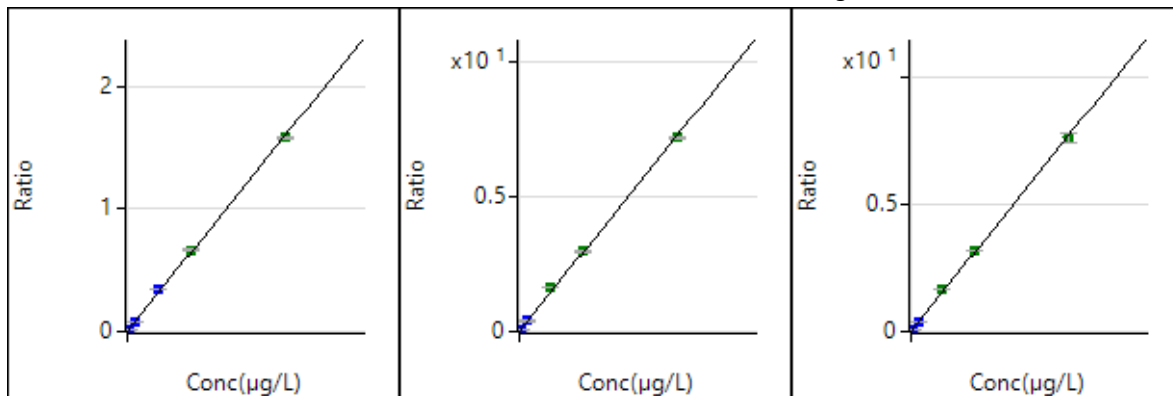
60 Ni [He] ISTD: 45 Sc $y = 3.941E-2 x + 2.946E-3$ R 0.9999 DL 0.02703 BEC 0.07473	63 Cu [He] ISTD: 45 Sc $y = 1.093E-1 x + 1.871E-2$ R 0.9995 DL 0.008849 BEC 0.1712	66 Zn [He] ISTD: 72 Ge $y = 2.283E-2 x + 1.548E-2$ R 0.9999 DL 0.09654 BEC 0.678	75 As [He] ISTD: 72 Ge $y = 1.681E-2 x + 7.750E-4$ R 0.9999 DL 0.01251 BEC 0.0461	78 Se [He] ISTD: 72 Ge $y = 1.230E-3 x + 6.316E-4$ R 0.9998 DL 0.2598 BEC 0.5135
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88 Sr [He] ISTD: 72 Ge $y = 1.024E-1 x + 2.437E-3$ R 1.0000 DL 0.008047 BEC 0.0238	95 Mo [He] ISTD: 115 In $y = 5.914E-3 x + 3.089E-5$ R 0.9999 DL 0.00332 BEC 0.005224	107 Ag [He] ISTD: 115 In $y = 2.171E-2 x + 9.339E-5$ R 0.9999 DL 0.002203 BEC 0.004302	111 Cd [He] ISTD: 115 In $y = 3.465E-3 x + 6.368E-6$ R 0.9999 DL 0.003289 BEC 0.001838	118 Sn [He] ISTD: 115 In $y = 7.788E-3 x + 5.366E-4$ R 1.0000 DL 0.01332 BEC 0.06889
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121 Sb [He] ISTD: 115 In $y = 1.046E-2 x + 8.866E-5$ R 0.9999 DL 0.002797 BEC 0.00848	137 Ba [He] ISTD: 115 In $y = 3.854E-3 x + 4.257E-4$ R 0.9999 DL 0.02074 BEC 0.1104	201 Hg [He] ISTD: 209 Bi $y = 1.561E-3 x + 1.056E-5$ R 1.0000 DL 0.002795 BEC 0.006766	205 Tl [He] ISTD: 209 Bi $y = 2.141E-2 x + 9.093E-6$ R 0.9998 DL 0.0003457 BEC 0.0004247	206 Pb [He] ISTD: 209 Bi $y = 7.352E-3 x + 1.705E-4$ R 0.9999 DL 0.003381 BEC 0.02319
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207 [Pb] [He]

ISTD: 209 Bi

$$y = 6.403E-3 x + 1.668E-4$$

R 0.9997

DL 0.002675

BEC 0.02604

208 Pb [He]

ISTD: 209 Bi

$$y = 2.911E-2 x + 7.323E-4$$

R 0.9996

DL 0.004224

BEC 0.02516

238 U [He]

ISTD: 209 Bi

$$y = 1.543E-2 x + 1.452E-5$$

R 0.9997

DL 0.0004133

BEC 0.0009411

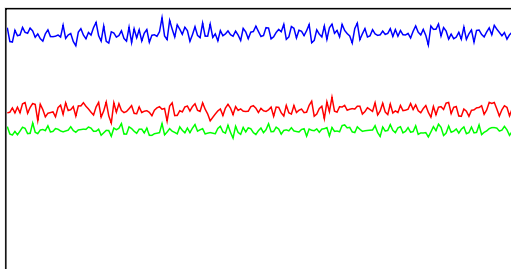


Tunes

Performance Report

Operator Name ICPMS
Acq. Date-Time 8/11/2023 09:10:11
Instrument Name G8422A SG22151236
Sample Introduction PeriPump
Nebulizer Type MicroMist
Ion Lens Model x-Lens
Tune Parameters Standard Tune

Sensitivity



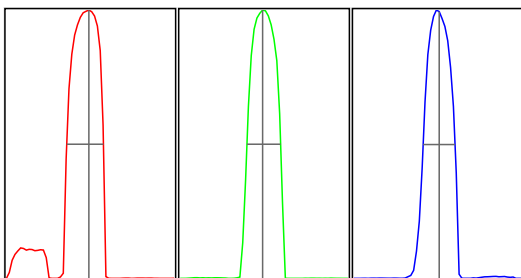
Mass	Range	Count	RSD%	Background
7	5000	3100	2.712	1.100
89	20000	10818	2.089	0.700
205	10000	9115	2.138	2.900

Sampling Period [sec] 0.311
 Integration Time [sec] 0.1

Oxide/Doubly Charged Ratio

Oxide 156 / 140 1.111 %
 Doubly Charged 70 / 140 0.800 %

Resolution/Axis



Mass	Peak Height	Axis	W-50%	W-10%
7	3098.46	7.00	0.65	0.73
89	10857.28	89.00	0.59	0.75
205	9067.21	205.05	0.56	0.74

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.74

Tune Parameters

Plasma Parameters

RF Power	1550 W	Option Gas	---	Makeup Gas	0.00 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Auxiliary Gas	0.90 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C	Plasma Gas	15.0 L/min
Nebulizer Gas	1.07 L/min				

Lens Parameters

Extract 1	0.0 V	Omega Lens	9.0 V	Deflect	12.2 V
Extract 2	-170.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-80 V	Cell Exit	-50 V		

Performance Report

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	0.0 mL/min	OctP RF	200 V		

QP Parameters

QP Bias	-3.0 V
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Hardware Settings

Torch

Torch H	0.1 mm	Torch H (Hot)	---	Torch H (Cool)	---
Torch V	0.6 mm	Torch V (Hot)	---	Torch V (Cool)	---

Plasma Correction

Nebulizer Gas Offset	0.02 L/min	Makeup Gas (Hot)	---	Makeup Gas (Cool)	---
		Sample Depth (Hot)	---		

Resolution/Axis

Mass Gain	123	Axis Gain	0.9995
Mass Offset	125	Axis Offset	0.01

EM

Discriminator	3.1 mV	Analog HV	2150 V	Pulse HV	1235 V
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Performance Report

Meter

Name	Value	Unit
Nebulizer Gas	1.07	L/min
MU./Dil. Gas	0.00	L/min
Plasma Gas	14.96	L/min
Aux Gas	0.90	L/min
Ar Gas Tank Press	5.78E+2	kPa
+5V (Press Gage)	5.0	V
Ar AMFC Temp	31.0	°C
Nebulizer Gas(DP)	6.22E+0	kPa
MU./Dil. Gas(DP)	-1.85E-1	kPa
Aux Gas(DP)	1.06E+1	kPa
Plasma Gas(DP)	1.16E+1	kPa
Nebulizer Gas(BP)	2.57E+2	kPa
MU./Dil. Gas(BP)	-3.09E-1	kPa
Aux Gas(BP)	5.93E+1	kPa
Plasma Gas(BP)	4.30E+1	kPa
S/C Temp (H)	21.1	°C
S/C Temp (L)	2.0	°C
Peltier Voltage	3.7	V
IF/BK Press	2.44E+2	Pa
Analyzer Press	4.98E-5	Pa
IG HV	178	V
IG Emission	4.98	µA
TMP Revolution	100.0	%
TMP Rev (Raw)	100.7	%
TMP Current	2.86	A
PWR AMP Drain I	0.3	A
PWR AMP Bias	4.06	V
OctP RF (Avg)	202.9	V
OctP RF Set	4.0	V
OctP FET Bias Set	3.92	V
OctP RF(+)	177.8	V
OctP RF(-)	226.4	V
OctP Bias	-7.9	V
Cell Temp.	65.0	°C
Cell Heater Volt.	4.1	V
+U Voltage	173.9	V

Name	Value	Unit
-U Voltage	-181.3	V
V Voltage	780.4	V
QPRF Fader	0.5	V
Pickup Temp	55.0	°C
PWR Amp Temp	0.1	V
+600V	622.5	V
-120V	-133.4	V
-720V	-741.6	V
Prefilter Bias	-5.00	V
Pickup Heater I	0.09	A
QP PS +48V	47.6	V
QP PS +48V I	0.00	A
Analog HV	-2168	V
Pulse HV	1245	V
EM Gate	-26.4	V
Pulse Gate	236.1	V
EM Entrance	0.1	V
EM HV Gain	-776.7	V
Inner Pole	-300.1	V
Outer Pole	19.9	V
Analog -5V	-5.1	V
Analog +15V	14.5	V
Analog -15V	-14.4	V
Analog +5V	5.2	V
Shunt C Pos	1.5	V
Drain Volt.(max)	60.2	V
RF PS +48V	47.0	V
Forward Power	1550	W
Reflected Power	1	W
Plasma Freq.	27.08	MHz
Drain I 1	11.64	A
Drain I 2	10.62	A
Drain I 3	10.92	A
Drain I 4	11.52	A
Temp Sensor	2.7	V
Driver I	6.06	A

Name	Value	Unit
Igniter	0.0	V
Driver Voltage Set	6.9	V
Unbalance Current	0.36	A
PWM Threshold Set	0.2	V
Driver Voltage	5.5	V
PWM Threshold	0.2	V
Phase Detector	2.0	mV
H2 Gas	0.00	mL/min
He Gas	0.11	mL/min
H2 Gas Press	1.70E+2	kPa
He Gas Press	0.00E+0	kPa
ORS AMFC Temp	31.2	°C
Atmospheric Press	1.01E+2	kPa
Extract 1	0.0	V
Extract 2	-170.0	V
Omega Bias	-80.0	V
Omega Lens	9.0	V
Cell Entrance	-30.0	V
Cell Exit	-50.0	V
Deflect	12.3	V
Plate Bias	-35.1	V
HV+530V	531	V
HV+240V	238	V
HV-360V	-360	V
Inlet Temp	27.6	°C
Internal Temp	35.7	°C
+24V	23.7	V
Water Temp	23.1	°C
Water RF/WC/IF	1.44	L/min
ISIS 3 Pump Speed	0.0	%
Valve Position		
Tune/ISTD Valve		

Performance Report History

Sensitivity

Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
8/11/2023 09:10:11	3100	10818	9115
8/10/2023 09:51:40	3182	11284	9030
8/9/2023 09:53:04	3447	11730	9236
8/8/2023 09:51:14	3413	11684	8693
8/7/2023 10:08:18	3581	12638	9159
8/4/2023 09:09:07	3390	12195	8541
8/4/2023 08:31:24	3746	12441	9586
8/3/2023 09:42:16	2946	10912	9810
8/2/2023 11:05:14	2364	8830	8876
8/2/2023 10:28:09	1722	4847	4950
8/2/2023 10:20:44	1323	3986	4235
8/2/2023 10:16:57	1468	4492	4538
8/2/2023 10:12:26	795	2492	2354
8/1/2023 09:44:17	2203	9736	8354
7/31/2023 09:31:10	2725	10837	8929
7/28/2023 09:28:15	2574	11992	10910
7/27/2023 09:17:24	2638	11942	10885
7/26/2023 10:24:37	2628	12086	10721
7/25/2023 09:08:43	2645	13109	12010
7/24/2023 09:25:55	2866	13213	12584
7/21/2023 09:38:18	3045	12777	11213
7/20/2023 09:50:16	3015	13608	11979
7/19/2023 09:51:11	2972	13534	11794
7/18/2023 10:02:58	2480	9926	8625
7/17/2023 11:07:27	3529	15060	11733
7/17/2023 09:51:07	3312	15288	13391
7/14/2023 13:20:39	2401	9970	8567
7/14/2023 13:13:20	858	3455	3011
7/14/2023 13:04:01	35	15	30
7/14/2023 12:49:03	1150	4213	3169
7/14/2023 09:43:22	3304	13648	12348
7/13/2023 17:06:49	3012	11414	10194
7/13/2023 16:18:09	2955	11378	10283
7/13/2023 13:12:33	2347	9669	10238
7/12/2023 10:11:37	3266	14662	11672
7/11/2023 10:12:22	3435	14541	11159
7/11/2023 10:02:13	1682	4632	2699
7/10/2023 10:27:11	3998	13300	6429
7/7/2023 10:03:10	3562	15900	10842
7/7/2023 09:53:18	3887	15915	9865
7/6/2023 09:39:20	3915	15094	8706

Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
7/5/2023 09:21:22	3530	13882	7836
7/3/2023 09:52:13	3101	14414	11001
7/3/2023 09:30:59	2325	8553	5822
6/30/2023 09:54:22	3674	15262	10933
6/29/2023 09:42:14	3257	14111	11174
6/28/2023 09:24:23	3603	14430	11195
6/27/2023 09:21:37	3474	14301	11162
6/26/2023 13:04:07	2984	13198	10818
6/23/2023 09:35:05	4548	13496	8799
6/22/2023 09:46:11	3987	12820	9360
6/21/2023 09:51:51	4030	13146	9814
6/20/2023 09:45:37	4312	13311	10018
6/19/2023 09:55:02	4181	12573	9901
6/16/2023 09:23:49	4267	13074	9801
6/15/2023 09:47:30	4629	12970	9475
6/14/2023 09:16:14	3934	12479	10197
6/13/2023 09:49:15	4567	13183	10070
6/12/2023 11:34:15	4144	12001	9698
6/12/2023 09:54:55	3392	10831	10127
6/9/2023 12:39:33	3926	15367	11134
6/9/2023 09:23:31	3672	15849	11841
6/8/2023 10:16:31	4083	16245	11759
6/7/2023 09:48:23	3788	15983	11493
6/6/2023 09:46:41	4195	16624	10957
6/5/2023 09:22:56	3853	16849	11906
6/2/2023 09:34:45	3243	12651	7710
6/1/2023 09:48:17	4008	16726	11170
5/31/2023 09:40:40	3604	17615	11865
5/30/2023 09:32:39	4046	17790	11322
5/26/2023 12:43:13	3927	16239	12218
5/26/2023 12:35:21	761	3406	2008
5/26/2023 12:24:37	184	549	395
5/26/2023 12:20:08	554	1783	1426
5/26/2023 12:15:41	745	2452	1922
5/26/2023 09:21:24	4039	16585	12317
5/25/2023 09:20:09	4040	16615	11868
5/24/2023 12:08:16	4075	16656	11488
5/24/2023 09:30:58	4357	17430	11641
5/23/2023 10:10:03	4128	14901	12444
5/22/2023 10:18:03	3703	16482	11595
5/19/2023 09:10:18	3614	16447	11473

Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
5/18/2023 10:26:22	3977	16258	11430
5/17/2023 09:16:47	3878	16266	12092
5/16/2023 09:59:27	4248	16604	11458
5/15/2023 10:01:28	3608	15995	12083
5/12/2023 09:47:09	3710	14725	12670
5/11/2023 09:16:07	3615	16694	11489
5/10/2023 09:42:50	3643	16651	11072
5/9/2023 09:27:44	3049	13792	9652
5/8/2023 09:26:50	4462	18082	11483
5/5/2023 09:05:22	4399	16357	12967
5/4/2023 10:18:52	5492	15573	10604
5/4/2023 09:42:19	3329	10245	9107
5/3/2023 09:25:16	3021	11228	9134
5/2/2023 14:32:57	3253	10925	8420
5/2/2023 11:11:55	3007	10527	8496
5/2/2023 10:06:56	2763	10198	8556
5/2/2023 09:20:27	1757	4748	3682
5/1/2023 08:58:25	3835	14776	11277
4/28/2023 15:08:06	3400	12379	10252
4/28/2023 11:06:46	3035	12513	11008
4/28/2023 09:28:29	2667	9198	8023
4/27/2023 09:00:22	4967	15984	10961
4/26/2023 08:49:33	3812	15401	12317
4/25/2023 10:22:10	3613	13723	11649
4/24/2023 08:55:03	3223	11437	9245
4/21/2023 12:21:05	2309	8904	8075
4/21/2023 11:08:42	3585	13031	10380
4/21/2023 08:53:22	3675	12662	9407
4/20/2023 09:37:29	3414	12407	9925
4/19/2023 17:09:43	3618	12571	9512
4/19/2023 15:46:38	3448	13274	10340
4/19/2023 14:35:32	3462	12482	9880
4/19/2023 13:54:58	3220	11909	9076
4/19/2023 09:45:34	3711	13588	10208
4/18/2023 09:17:03	4001	15807	11823
4/17/2023 10:23:48	2878	11093	9732
4/17/2023 10:00:25	2905	10987	9354
4/14/2023 08:59:17	3797	14951	12432
4/13/2023 09:01:53	4318	14773	11319
4/12/2023 08:48:04	4928	16846	11839
4/11/2023 14:04:25	4530	15489	11208

Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
4/11/2023 11:58:48	5326	16891	11025
4/11/2023 09:06:40	3954	15395	11003
4/10/2023 10:37:44	2194	8633	7826
4/10/2023 10:22:12	1899	8212	8001
4/10/2023 09:55:11	1701	5404	5012
4/10/2023 09:40:08	1137	2728	2210
4/7/2023 09:12:03	2772	10636	8482
4/6/2023 09:29:25	3180	12523	9525
4/5/2023 12:01:25	3397	12261	8977
4/4/2023 09:25:41	3746	15001	10717
4/4/2023 09:16:16	3774	15323	10930
4/3/2023 10:44:46	3816	16733	12434
3/31/2023 13:01:29	3689	14276	11079
3/31/2023 09:26:11	4028	14610	11523
3/30/2023 09:11:37	5025	18708	14607
3/30/2023 09:01:02	5089	19072	14859
3/29/2023 09:27:41	5221	18650	13966
3/28/2023 09:13:20	4760	16933	13578
3/27/2023 09:16:40	5767	20845	15106
3/24/2023 09:19:12	5395	19720	14041
3/23/2023 10:30:11	6291	21448	13416
3/22/2023 09:09:24	2696	9011	6944
3/21/2023 11:29:57	5734	16669	12164
3/20/2023 15:01:09	6363	19486	13888
3/20/2023 14:56:00	5009	16683	9718
3/20/2023 14:34:11	2834	10712	5829
3/20/2023 11:10:11	7530	22977	15012
3/17/2023 09:15:52	5750	18440	11963
3/16/2023 10:04:21	4980	19675	11461
3/15/2023 08:50:05	4999	21116	13825
3/14/2023 09:23:23	4061	12104	9854
3/13/2023 09:02:28	3215	10694	7776
3/10/2023 09:50:25	5164	18928	14123
3/9/2023 10:05:54	4252	14786	10051
3/8/2023 13:14:50	3752	11270	7378
3/7/2023 10:34:30	4374	16704	11777
3/6/2023 10:45:07	3273	13385	9184
3/3/2023 08:01:46	4929	20899	12798
3/2/2023 09:47:36	5032	21800	13030
3/1/2023 08:51:22	5345	21950	12808
2/28/2023 09:34:23	6338	22463	12670

Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
2/27/2023 14:30:30	4812	15793	10582
2/27/2023 11:22:50	2660	6341	5374
2/27/2023 10:51:56	2687	6395	5542
2/27/2023 10:44:59	2767	6642	5568
2/24/2023 16:23:45	4656	17757	14021
2/24/2023 16:07:57	259	10	1
2/23/2023 08:54:28	5450	21137	15863
2/22/2023 08:37:14	6587	23092	14287
2/21/2023 10:21:12	5717	19848	15529
2/20/2023 08:52:02	5102	19535	16027
2/17/2023 08:36:41	5650	19696	13966
2/16/2023 08:44:34	5427	18692	15094
2/15/2023 12:26:22	5476	16249	14697
2/14/2023 13:04:03	5114	18973	14711
2/13/2023 11:40:00	5622	21074	13839
2/10/2023 10:01:05	5342	19862	13915
2/9/2023 11:28:46	5286	16698	13470
2/8/2023 08:23:24	2500	8272	6431
2/7/2023 11:36:23	5011	17251	13767
2/6/2023 12:36:01	4650	16849	13463
2/3/2023 08:20:53	4694	16500	12971
2/2/2023 07:55:34	4126	16618	13815
2/1/2023 07:42:39	4262	15843	13824
1/31/2023 09:19:32	3770	13798	12047
1/30/2023 10:17:02	4337	16436	13025
1/27/2023 08:15:42	4501	16617	13319
1/26/2023 08:18:20	4191	17132	13749
1/25/2023 09:02:42	4450	15538	12000
1/24/2023 08:45:18	4336	16580	13340
1/23/2023 07:54:12	2590	9369	7241
1/20/2023 07:43:21	4826	18818	14697
1/19/2023 08:47:40	5243	18006	12448
1/18/2023 08:40:18	4557	17530	14362
1/17/2023 09:51:42	4181	15622	13807
1/13/2023 08:18:49	4548	18577	14569
1/12/2023 08:58:54	4387	18033	14854
1/11/2023 08:26:54	4545	18169	14422
1/10/2023 09:03:33	4726	18711	15508
1/9/2023 08:33:43	5629	19269	14475
1/6/2023 09:09:20	5213	18911	14085
1/5/2023 08:59:03	5159	19900	15721

Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
1/4/2023 09:22:57	5368	19455	14720
1/3/2023 07:54:14	4612	19533	15792
12/30/2022 12:03:44	61	23	2
12/30/2022 11:44:52	74	26	2
12/30/2022 08:53:04	103	30	8
12/30/2022 08:43:33	4844	19749	15375
12/29/2022 09:51:14	5727	20311	14775
12/28/2022 10:56:59	5379	19562	14038
12/27/2022 11:51:09	2917	13215	10039
12/22/2022 13:03:41	5910	20405	14964
12/20/2022 10:03:57	6068	20428	15363
12/15/2022 08:54:42	5797	20392	15125
12/14/2022 07:30:17	4875	19420	15909
12/13/2022 08:19:58	6040	20311	15825
12/12/2022 09:25:41	5282	17431	13118
12/9/2022 07:32:14	5734	18212	14695
12/7/2022 09:04:52	5322	21110	16195
12/6/2022 09:40:47	5815	21208	16339
12/5/2022 09:33:56	6313	20948	15766
12/2/2022 08:43:06	5550	21444	17003
12/1/2022 08:14:13	6173	21650	16355
11/30/2022 09:05:47	5892	20987	16063
11/29/2022 09:56:17	4094	14596	10603
11/22/2022 08:57:48	4099	12381	7804
11/21/2022 09:24:58	4059	13597	9996
11/18/2022 08:02:10	5896	21100	16764
11/17/2022 14:32:03	5110	18966	16326
11/14/2022 13:14:56	5191	16854	13936
11/11/2022 08:35:49	5504	20364	14691
11/10/2022 10:24:53	4996	20056	14474
11/9/2022 12:14:57	4371	19332	15801
11/7/2022 10:37:58	5685	18033	11927
11/7/2022 08:51:17	146	29	32
11/4/2022 09:20:34	7168	18645	12118
11/3/2022 10:28:57	3530	13884	7706
11/2/2022 08:32:00	4974	16880	8970
11/1/2022 11:19:50	3994	15305	8677
11/1/2022 11:02:36	4266	16862	10879
10/31/2022 09:19:47	5485	18924	11532
10/28/2022 09:14:48	6686	19237	10543
10/27/2022 10:50:18	6536	19264	10753

Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
10/26/2022 11:02:54	7130	20921	11654
10/19/2022 12:45:34	6920	20484	11015
10/18/2022 09:12:59	7274	20876	11667
10/13/2022 11:08:12	6974	19838	11390
10/12/2022 09:54:30	5786	18972	9741
10/11/2022 09:12:35	5552	19520	11580
10/6/2022 10:34:09	5625	19891	13032
9/30/2022 08:08:09	5495	19202	12599
9/29/2022 08:44:14	5232	19124	12103
9/28/2022 09:42:45	4963	19363	12220
9/27/2022 08:29:24	5178	18784	11329
9/26/2022 10:25:12	5330	19090	12061
9/23/2022 07:41:43	5103	18871	12031
9/22/2022 11:03:47	4952	18979	11589
9/21/2022 10:21:37	4886	19212	13138
9/20/2022 12:23:56	5002	19051	13455
9/15/2022 11:07:18	5302	18910	11562
9/14/2022 09:29:39	5075	20632	13468
9/13/2022 14:42:43	5153	20537	14155
9/13/2022 08:12:52	5034	20027	12445
9/12/2022 08:42:30	5784	20793	13929
9/9/2022 09:45:48	6147	20766	13709
9/8/2022 12:04:46	4051	14292	8447
9/8/2022 11:48:01	41	6	2
9/8/2022 11:27:44	4889	20574	14952
9/2/2022 07:38:00	6624	23227	14887
9/1/2022 08:15:43	5991	21208	13985
8/31/2022 07:49:17	5373	21196	15352
8/30/2022 09:25:59	5235	20223	15276
8/30/2022 09:00:54	13	1	2
8/25/2022 08:44:13	5528	21089	15029
8/24/2022 08:11:08	5585	20407	15666
8/22/2022 11:28:23	5644	19080	14194
8/22/2022 08:02:13	5908	24300	19093
8/19/2022 08:45:48	5153	20283	15070
8/18/2022 08:00:38	5492	20290	13446
8/17/2022 07:50:25	6314	21249	13568
8/16/2022 08:11:19	6612	21262	13203
8/15/2022 07:58:53	5887	22676	15751
8/12/2022 07:30:34	6745	21079	11749
8/11/2022 12:53:44	6477	19179	10232

Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
8/11/2022 08:29:41	6957	21714	11530
8/10/2022 08:08:22	6409	22095	13386
8/9/2022 08:36:25	17	5	13
8/9/2022 07:53:48	6922	23611	15152
8/1/2022 09:30:01	5884	22782	15120
8/1/2022 08:12:58	6185	22941	21185
7/29/2022 07:24:42	6291	22723	20278
7/28/2022 07:59:19	6521	24058	19698
7/27/2022 08:17:37	6920	24215	18319
7/26/2022 07:53:10	6343	24801	18781
7/25/2022 09:48:29	5345	21220	12528
6/30/2022 11:28:41	5342	21861	14116
6/3/2022 08:15:26	7965	26259	18626
6/1/2022 09:09:25	7540	22818	17488
5/31/2022 12:07:21	7463	21617	16999
5/31/2022 11:56:36	6060	17631	14046
5/26/2022 09:53:19	6021	17710	14820
5/25/2022 11:34:00	6269	17834	14297
5/25/2022 10:52:32	6525	17820	14265

Background

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
8/11/2023 09:10:11	1.100	0.700	2.900
8/10/2023 09:51:40	0.950	0.250	2.750
8/9/2023 09:53:04	0.900	0.850	2.900
8/8/2023 09:51:14	1.200	0.300	3.450
8/7/2023 10:08:18	0.800	0.450	2.450
8/4/2023 09:09:07	1.050	0.350	3.800
8/4/2023 08:31:24	0.850	0.400	4.150
8/3/2023 09:42:16	0.700	0.350	3.250
8/2/2023 11:05:14	0.500	0.150	2.600
8/2/2023 10:28:09	0.900	0.200	1.450
8/2/2023 10:20:44	1.100	0.050	2.000
8/2/2023 10:16:57	1.000	0.150	1.700
8/2/2023 10:12:26	0.500	0.200	1.550
8/1/2023 09:44:17	0.600	0.400	1.600

Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
7/31/2023 09:31:10	0.650	0.250	1.850
7/28/2023 09:28:15	0.450	0.400	2.050
7/27/2023 09:17:24	0.400	0.200	1.900
7/26/2023 10:24:37	1.000	0.400	2.400
7/25/2023 09:08:43	0.250	0.500	1.350
7/24/2023 09:25:55	0.550	0.150	1.700
7/21/2023 09:38:18	0.450	0.400	1.850
7/20/2023 09:50:16	0.550	0.250	2.250
7/19/2023 09:51:11	0.700	0.300	1.350
7/18/2023 10:02:58	0.800	0.350	1.500
7/17/2023 11:07:27	0.950	0.200	1.800
7/17/2023 09:51:07	0.650	0.300	2.300
7/14/2023 13:20:39	0.950	0.550	2.500
7/14/2023 13:13:20	0.950	0.200	1.900
7/14/2023 13:04:01	0.450	0.300	0.950
7/14/2023 12:49:03	1.000	0.400	2.600
7/14/2023 09:43:22	0.950	0.350	1.400
7/13/2023 17:06:49	0.900	0.450	1.350
7/13/2023 16:18:09	0.800	0.250	1.700
7/13/2023 13:12:33	0.500	0.050	1.350
7/12/2023 10:11:37	0.850	0.350	1.900
7/11/2023 10:12:22	0.900	0.350	2.450
7/11/2023 10:02:13	1.000	0.300	3.100
7/10/2023 10:27:11	0.950	0.250	2.300
7/7/2023 10:03:10	1.100	0.300	2.800
7/7/2023 09:53:18	1.200	0.550	2.750
7/6/2023 09:39:20	0.850	0.400	3.100
7/5/2023 09:21:22	1.300	0.550	2.800
7/3/2023 09:52:13	1.100	0.150	1.700
7/3/2023 09:30:59	1.100	0.300	1.900
6/30/2023 09:54:22	1.150	0.250	2.450
6/29/2023 09:42:14	0.850	0.350	1.800
6/28/2023 09:24:23	1.350	0.300	2.500
6/27/2023 09:21:37	0.750	0.350	2.100
6/26/2023 13:04:07	0.700	0.350	1.750
6/23/2023 09:35:05	2.000	0.750	4.350
6/22/2023 09:46:11	1.750	0.550	4.300
6/21/2023 09:51:51	1.550	0.550	3.450
6/20/2023 09:45:37	1.700	0.900	4.050
6/19/2023 09:55:02	1.450	0.350	3.650
6/16/2023 09:23:49	1.250	0.650	3.500

Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
6/15/2023 09:47:30	1.300	0.500	4.100
6/14/2023 09:16:14	1.900	0.300	2.850
6/13/2023 09:49:15	1.600	0.250	3.300
6/12/2023 11:34:15	1.350	0.350	3.050
6/12/2023 09:54:55	1.300	0.300	2.050
6/9/2023 12:39:33	1.150	0.450	3.100
6/9/2023 09:23:31	1.700	0.350	2.500
6/8/2023 10:16:31	0.900	0.350	2.450
6/7/2023 09:48:23	1.250	0.300	2.350
6/6/2023 09:46:41	1.150	0.550	2.950
6/5/2023 09:22:56	1.450	0.250	2.050
6/2/2023 09:34:45	1.000	0.250	2.900
6/1/2023 09:48:17	1.050	0.300	2.150
5/31/2023 09:40:40	0.900	0.150	2.800
5/30/2023 09:32:39	1.350	0.350	2.200
5/26/2023 12:43:13	1.600	0.250	1.900
5/26/2023 12:35:21	1.050	0.400	2.200
5/26/2023 12:24:37	1.300	0.150	1.850
5/26/2023 12:20:08	1.050	0.300	2.200
5/26/2023 12:15:41	0.700	0.200	1.700
5/26/2023 09:21:24	1.050	0.350	2.750
5/25/2023 09:20:09	1.450	0.500	3.000
5/24/2023 12:08:16	1.250	0.400	2.500
5/24/2023 09:30:58	1.250	0.700	2.600
5/23/2023 10:10:03	0.850	0.150	1.800
5/22/2023 10:18:03	1.300	0.100	2.500
5/19/2023 09:10:18	1.550	0.150	2.800
5/18/2023 10:26:22	1.250	0.350	3.000
5/17/2023 09:16:47	1.300	0.100	1.900
5/16/2023 09:59:27	1.800	0.050	2.900
5/15/2023 10:01:28	1.350	0.200	2.350
5/12/2023 09:47:09	0.750	0.150	1.650
5/11/2023 09:16:07	1.250	0.200	2.450
5/10/2023 09:42:50	1.050	0.300	1.850
5/9/2023 09:27:44	1.150	0.450	2.500
5/8/2023 09:26:50	2.000	0.250	2.900
5/5/2023 09:05:22	0.900	0.450	1.850
5/4/2023 10:18:52	1.550	0.600	2.450
5/4/2023 09:42:19	0.800	0.350	1.550
5/3/2023 09:25:16	1.400	0.250	2.800
5/2/2023 14:32:57	1.850	0.350	3.750

Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
5/2/2023 11:11:55	1.400	0.350	3.300
5/2/2023 10:06:56	1.200	0.550	2.950
5/2/2023 09:20:27	1.800	0.600	3.600
5/1/2023 08:58:25	1.350	0.350	3.650
4/28/2023 15:08:06	1.050	0.550	3.650
4/28/2023 11:06:46	1.650	0.150	2.350
4/28/2023 09:28:29	1.000	0.300	2.600
4/27/2023 09:00:22	1.450	0.600	4.200
4/26/2023 08:49:33	1.500	0.400	3.850
4/25/2023 10:22:10	1.400	0.300	2.800
4/24/2023 08:55:03	1.500	0.100	2.750
4/21/2023 12:21:05	1.100	0.400	2.250
4/21/2023 11:08:42	2.000	0.450	2.300
4/21/2023 08:53:22	1.200	0.250	3.600
4/20/2023 09:37:29	1.500	0.500	2.950
4/19/2023 17:09:43	1.750	0.700	3.450
4/19/2023 15:46:38	1.600	0.600	3.600
4/19/2023 14:35:32	1.350	0.600	3.100
4/19/2023 13:54:58	1.450	0.500	2.850
4/19/2023 09:45:34	1.250	0.350	4.350
4/18/2023 09:17:03	1.750	0.400	3.900
4/17/2023 10:23:48	0.800	0.300	2.450
4/17/2023 10:00:25	1.500	0.250	2.650
4/14/2023 08:59:17	0.950	0.450	3.250
4/13/2023 09:01:53	1.400	0.500	2.850
4/12/2023 08:48:04	1.350	0.450	4.300
4/11/2023 14:04:25	1.750	0.700	3.800
4/11/2023 11:58:48	1.350	0.550	4.900
4/11/2023 09:06:40	1.500	0.500	3.750
4/10/2023 10:37:44	0.550	0.350	1.300
4/10/2023 10:22:12	1.050	0.200	1.950
4/10/2023 09:55:11	1.100	0.350	2.700
4/10/2023 09:40:08	1.350	0.250	3.000
4/7/2023 09:12:03	1.350	0.300	2.850
4/6/2023 09:29:25	1.600	0.350	3.450
4/5/2023 12:01:25	1.650	0.450	3.900
4/4/2023 09:25:41	1.050	0.500	3.300
4/4/2023 09:16:16	2.000	0.500	3.850
4/3/2023 10:44:46	0.950	0.700	4.000
3/31/2023 13:01:29	1.600	0.150	2.600
3/31/2023 09:26:11	1.150	0.450	2.800

Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
3/30/2023 09:11:37	1.450	0.550	2.750
3/30/2023 09:01:02	1.500	0.250	3.350
3/29/2023 09:27:41	1.600	0.350	3.600
3/28/2023 09:13:20	1.150	0.250	2.650
3/27/2023 09:16:40	1.250	0.600	3.200
3/24/2023 09:19:12	1.550	0.700	3.750
3/23/2023 10:30:11	2.050	0.250	3.650
3/22/2023 09:09:24	2.200	0.300	1.850
3/21/2023 11:29:57	1.700	0.450	2.750
3/20/2023 15:01:09	2.350	0.600	4.250
3/20/2023 14:56:00	2.950	0.600	4.950
3/20/2023 14:34:11	3.650	1.050	6.050
3/20/2023 11:10:11	2.050	0.700	5.350
3/17/2023 09:15:52	2.250	0.650	3.950
3/16/2023 10:04:21	2.250	0.750	4.300
3/15/2023 08:50:05	1.550	0.500	3.400
3/14/2023 09:23:23	1.000	0.300	2.750
3/13/2023 09:02:28	1.800	0.700	3.500
3/10/2023 09:50:25	1.450	0.450	4.250
3/9/2023 10:05:54	2.200	0.350	4.150
3/8/2023 13:14:50	2.350	0.450	4.200
3/7/2023 10:34:30	2.300	0.600	2.900
3/6/2023 10:45:07	3.100	0.350	3.250
3/3/2023 08:01:46	2.200	0.650	4.350
3/2/2023 09:47:36	2.500	0.450	4.100
3/1/2023 08:51:22	1.800	0.350	3.800
2/28/2023 09:34:23	1.750	0.800	3.650
2/27/2023 14:30:30	1.550	0.600	3.100
2/27/2023 11:22:50	0.800	0.200	1.500
2/27/2023 10:51:56	0.950	0.250	2.200
2/27/2023 10:44:59	1.000	0.100	1.750
2/24/2023 16:23:45	0.600	0.650	2.400
2/24/2023 16:07:57	0.900	0.350	2.300
2/23/2023 08:54:28	0.650	0.150	2.700
2/22/2023 08:37:14	1.200	0.350	4.250
2/21/2023 10:21:12	1.050	0.100	2.800
2/20/2023 08:52:02	0.900	0.200	2.050
2/17/2023 08:36:41	0.900	0.150	2.150
2/16/2023 08:44:34	0.950	0.200	2.100
2/15/2023 12:26:22	0.550	0.200	1.150
2/14/2023 13:04:03	1.150	0.250	1.250

Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
2/13/2023 11:40:00	1.600	0.200	2.000
2/10/2023 10:01:05	1.350	0.550	2.150
2/9/2023 11:28:46	1.150	0.200	2.100
2/8/2023 08:23:24	1.300	0.400	1.800
2/7/2023 11:36:23	1.550	0.300	2.250
2/6/2023 12:36:01	1.350	0.150	1.900
2/3/2023 08:20:53	1.050	0.300	2.050
2/2/2023 07:55:34	0.850	0.100	1.950
2/1/2023 07:42:39	0.800	0.250	1.550
1/31/2023 09:19:32	0.850	0.250	1.350
1/30/2023 10:17:02	0.800	0.150	2.050
1/27/2023 08:15:42	1.300	0.250	2.400
1/26/2023 08:18:20	1.100	0.250	2.600
1/25/2023 09:02:42	0.650	0.200	2.100
1/24/2023 08:45:18	1.150	0.200	1.950
1/23/2023 07:54:12	1.000	0.000	1.650
1/20/2023 07:43:21	0.950	0.150	1.550
1/19/2023 08:47:40	1.850	0.400	2.200
1/18/2023 08:40:18	1.000	0.250	2.250
1/17/2023 09:51:42	0.550	0.150	1.550
1/13/2023 08:18:49	0.700	0.350	2.000
1/12/2023 08:58:54	0.950	0.150	1.550
1/11/2023 08:26:54	0.950	0.150	1.800
1/10/2023 09:03:33	0.600	0.250	2.050
1/9/2023 08:33:43	0.650	0.250	2.000
1/6/2023 09:09:20	1.000	0.250	2.250
1/5/2023 08:59:03	0.700	0.100	2.000
1/4/2023 09:22:57	0.850	0.200	2.250
1/3/2023 07:54:14	0.750	0.200	1.900
12/30/2022 12:03:44	0.800	0.200	1.400
12/30/2022 11:44:52	0.500	0.100	1.700
12/30/2022 08:53:04	0.600	0.100	1.850
12/30/2022 08:43:33	0.650	0.400	2.700
12/29/2022 09:51:14	1.300	0.350	2.050
12/28/2022 10:56:59	0.900	0.350	2.000
12/27/2022 11:51:09	1.350	0.150	1.800
12/22/2022 13:03:41	1.100	0.250	2.300
12/20/2022 10:03:57	1.050	0.300	2.650
12/15/2022 08:54:42	1.100	0.100	1.850
12/14/2022 07:30:17	0.650	0.150	1.900
12/13/2022 08:19:58	0.850	0.250	2.000

Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
12/12/2022 09:25:41	1.250	0.350	2.250
12/9/2022 07:32:14	1.000	0.300	1.650
12/7/2022 09:04:52	1.000	0.150	1.900
12/6/2022 09:40:47	1.100	0.550	2.250
12/5/2022 09:33:56	1.300	0.200	1.800
12/2/2022 08:43:06	1.250	0.100	1.650
12/1/2022 08:14:13	1.000	0.050	1.400
11/30/2022 09:05:47	1.150	0.250	2.650
11/29/2022 09:56:17	0.900	0.000	1.850
11/22/2022 08:57:48	1.400	0.150	2.850
11/21/2022 09:24:58	0.900	0.150	2.200
11/18/2022 08:02:10	1.350	0.100	2.300
11/17/2022 14:32:03	0.850	0.200	1.550
11/14/2022 13:14:56	1.000	0.100	1.800
11/11/2022 08:35:49	1.350	0.150	1.950
11/10/2022 10:24:53	1.000	0.150	1.950
11/9/2022 12:14:57	0.900	0.250	1.450
11/7/2022 10:37:58	1.300	0.300	2.500
11/7/2022 08:51:17	0.750	0.150	2.700
11/4/2022 09:20:34	1.150	0.250	1.950
11/3/2022 10:28:57	1.400	0.100	1.950
11/2/2022 08:32:00	0.850	0.100	2.250
11/1/2022 11:19:50	1.500	0.500	1.900
11/1/2022 11:02:36	0.850	0.450	1.850
10/31/2022 09:19:47	0.650	0.350	1.650
10/28/2022 09:14:48	0.800	0.050	2.350
10/27/2022 10:50:18	1.100	0.350	2.350
10/26/2022 11:02:54	1.000	0.100	2.600
10/19/2022 12:45:34	1.200	0.150	2.250
10/18/2022 09:12:59	0.800	0.300	2.300
10/13/2022 11:08:12	1.300	0.350	2.150
10/12/2022 09:54:30	1.200	0.300	2.000
10/11/2022 09:12:35	1.250	0.400	2.250
10/6/2022 10:34:09	1.100	0.100	1.950
9/30/2022 08:08:09	1.200	0.400	2.350
9/29/2022 08:44:14	0.800	0.000	2.200
9/28/2022 09:42:45	1.800	0.150	1.950
9/27/2022 08:29:24	1.350	0.250	1.750
9/26/2022 10:25:12	1.400	0.200	1.800
9/23/2022 07:41:43	0.750	0.350	1.900
9/22/2022 11:03:47	1.550	0.350	2.550

Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
9/21/2022 10:21:37	0.800	0.200	1.100
9/20/2022 12:23:56	0.750	0.200	1.550
9/15/2022 11:07:18	0.800	0.400	2.600
9/14/2022 09:29:39	1.050	0.150	2.900
9/13/2022 14:42:43	1.100	0.300	1.550
9/13/2022 08:12:52	1.550	0.450	2.300
9/12/2022 08:42:30	1.500	0.200	1.950
9/9/2022 09:45:48	1.300	0.300	2.050
9/8/2022 12:04:46	2.050	0.200	2.100
9/8/2022 11:48:01	1.000	0.050	1.900
9/8/2022 11:27:44	1.500	0.150	2.100
9/2/2022 07:38:00	1.350	0.050	2.250
9/1/2022 08:15:43	1.350	0.050	1.850
8/31/2022 07:49:17	0.800	0.200	1.700
8/30/2022 09:25:59	1.500	0.150	1.350
8/30/2022 09:00:54	0.900	0.000	0.750
8/25/2022 08:44:13	1.300	0.400	2.000
8/24/2022 08:11:08	0.850	0.100	1.500
8/22/2022 11:28:23	0.700	0.100	1.550
8/22/2022 08:02:13	1.350	0.300	1.050
8/19/2022 08:45:48	1.000	0.150	1.700
8/18/2022 08:00:38	1.650	0.450	2.500
8/17/2022 07:50:25	1.750	0.150	2.650
8/16/2022 08:11:19	1.350	0.300	2.400
8/15/2022 07:58:53	1.100	0.250	1.500
8/12/2022 07:30:34	1.750	0.150	3.000
8/11/2022 12:53:44	1.400	0.450	3.400
8/11/2022 08:29:41	1.850	0.250	2.850
8/10/2022 08:08:22	1.050	0.200	2.000
8/9/2022 08:36:25	1.000	0.200	2.000
8/9/2022 07:53:48	1.050	0.100	1.700
8/1/2022 09:30:01	1.050	0.300	1.750
8/1/2022 08:12:58	1.350	0.250	1.800
7/29/2022 07:24:42	1.300	0.250	2.450
7/28/2022 07:59:19	1.850	0.300	1.950
7/27/2022 08:17:37	1.600	0.250	2.600
7/26/2022 07:53:10	1.150	0.200	1.850
7/25/2022 09:48:29	1.800	0.450	1.850
6/30/2022 11:28:41	1.500	0.150	2.100
6/3/2022 08:15:26	1.550	0.150	1.550
6/1/2022 09:09:25	1.250	0.150	1.050

Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
5/31/2022 12:07:21	1.500	0.200	1.200
5/31/2022 11:56:36	1.250	0.150	1.100
5/26/2022 09:53:19	1.000	0.150	1.400
5/25/2022 11:34:00	1.450	0.050	1.350
5/25/2022 10:52:32	0.950	0.200	1.100

Tune Parameters

Created Date	Extract 1	Extract 2	Omega Bias
8/11/2023 09:10:11	0.0 V	-170.0 V	-80 V
8/10/2023 09:51:40	0.0 V	-165.0 V	-80 V
8/9/2023 09:53:04	0.0 V	-160.0 V	-80 V
8/8/2023 09:51:14	0.0 V	-150.0 V	-80 V
8/7/2023 10:08:18	0.0 V	-140.0 V	-70 V
8/4/2023 09:09:07	0.0 V	-145.0 V	-70 V
8/4/2023 08:31:24	0.0 V	-170.0 V	-80 V
8/3/2023 09:42:16	0.0 V	-195.0 V	-90 V
8/2/2023 11:05:14	0.0 V	-200.0 V	-110 V
8/2/2023 10:28:09	0.0 V	-150.0 V	-80 V
8/2/2023 10:20:44	0.0 V	-185.0 V	-90 V
8/2/2023 10:16:57	0.0 V	-185.0 V	-90 V
8/2/2023 10:12:26	0.0 V	-185.0 V	-90 V
8/1/2023 09:44:17	0.0 V	-200.0 V	-120 V
7/31/2023 09:31:10	0.0 V	-150.0 V	-80 V
7/28/2023 09:28:15	0.0 V	-185.0 V	-90 V
7/27/2023 09:17:24	0.0 V	-185.0 V	-100 V
7/26/2023 10:24:37	0.0 V	-200.0 V	-100 V
7/25/2023 09:08:43	0.0 V	-200.0 V	-120 V
7/24/2023 09:25:55	0.0 V	-175.0 V	-90 V
7/21/2023 09:38:18	0.0 V	-170.0 V	-90 V
7/20/2023 09:50:16	0.0 V	-170.0 V	-90 V
7/19/2023 09:51:11	0.0 V	-165.0 V	-90 V
7/18/2023 10:02:58	0.0 V	-165.0 V	-80 V
7/17/2023 11:07:27	0.0 V	-195.0 V	-100 V
7/17/2023 09:51:07	0.0 V	-200.0 V	-100 V
7/14/2023 13:20:39	0.0 V	-200.0 V	-110 V
7/14/2023 13:13:20	0.0 V	-200.0 V	-110 V
7/14/2023 13:04:01	0.0 V	-200.0 V	-120 V

Performance Report

Created Date	Extract 1	Extract 2	Omega Bias
7/14/2023 12:49:03	0.0 V	-200.0 V	-120 V
7/14/2023 09:43:22	0.0 V	-195.0 V	-110 V
7/13/2023 17:06:49	0.0 V	-200.0 V	-100 V
7/13/2023 16:18:09	0.0 V	-200.0 V	-100 V
7/13/2023 13:12:33	0.0 V	-195.0 V	-110 V
7/12/2023 10:11:37	0.0 V	-190.0 V	-80 V
7/11/2023 10:12:22	0.0 V	-200.0 V	-80 V
7/11/2023 10:02:13	0.0 V	-185.0 V	-100 V
7/10/2023 10:27:11	0.0 V	-140.0 V	-70 V
7/7/2023 10:03:10	0.0 V	-170.0 V	-70 V
7/7/2023 09:53:18	0.0 V	-165.0 V	-70 V
7/6/2023 09:39:20	0.0 V	-145.0 V	-70 V
7/5/2023 09:21:22	0.0 V	-140.0 V	-70 V
7/3/2023 09:52:13	0.0 V	-170.0 V	-70 V
7/3/2023 09:30:59	0.0 V	-175.0 V	-70 V
6/30/2023 09:54:22	0.0 V	-200.0 V	-90 V
6/29/2023 09:42:14	0.0 V	-200.0 V	-90 V
6/28/2023 09:24:23	0.0 V	-200.0 V	-90 V
6/27/2023 09:21:37	0.0 V	-195.0 V	-90 V
6/26/2023 13:04:07	0.0 V	-180.0 V	-80 V
6/23/2023 09:35:05	0.0 V	-200.0 V	-80 V
6/22/2023 09:46:11	0.0 V	-195.0 V	-80 V
6/21/2023 09:51:51	0.0 V	-200.0 V	-80 V
6/20/2023 09:45:37	0.0 V	-195.0 V	-80 V
6/19/2023 09:55:02	0.0 V	-190.0 V	-80 V
6/16/2023 09:23:49	0.0 V	-200.0 V	-90 V
6/15/2023 09:47:30	0.0 V	-200.0 V	-90 V
6/14/2023 09:16:14	0.0 V	-200.0 V	-80 V
6/13/2023 09:49:15	0.0 V	-200.0 V	-80 V
6/12/2023 11:34:15	0.0 V	-195.0 V	-80 V
6/12/2023 09:54:55	0.0 V	-185.0 V	-80 V
6/9/2023 12:39:33	0.0 V	-200.0 V	-90 V
6/9/2023 09:23:31	0.0 V	-200.0 V	-80 V
6/8/2023 10:16:31	0.0 V	-200.0 V	-90 V
6/7/2023 09:48:23	0.0 V	-200.0 V	-90 V
6/6/2023 09:46:41	0.0 V	-200.0 V	-90 V
6/5/2023 09:22:56	0.0 V	-200.0 V	-90 V
6/2/2023 09:34:45	0.0 V	-200.0 V	-100 V
6/1/2023 09:48:17	0.0 V	-180.0 V	-80 V
5/31/2023 09:40:40	0.0 V	-180.0 V	-70 V
5/30/2023 09:32:39	0.0 V	-160.0 V	-70 V

Performance Report

Created Date	Extract 1	Extract 2	Omega Bias
5/26/2023 12:43:13	0.0 V	-195.0 V	-80 V
5/26/2023 12:35:21	0.0 V	-200.0 V	-80 V
5/26/2023 12:24:37	0.0 V	-200.0 V	-90 V
5/26/2023 12:20:08	0.0 V	-200.0 V	-90 V
5/26/2023 12:15:41	0.0 V	-200.0 V	-90 V
5/26/2023 09:21:24	0.0 V	-200.0 V	-90 V
5/25/2023 09:20:09	0.0 V	-200.0 V	-90 V
5/24/2023 12:08:16	0.0 V	-200.0 V	-90 V
5/24/2023 09:30:58	0.0 V	-200.0 V	-90 V
5/23/2023 10:10:03	0.0 V	-195.0 V	-90 V
5/22/2023 10:18:03	0.0 V	-200.0 V	-90 V
5/19/2023 09:10:18	0.0 V	-200.0 V	-90 V
5/18/2023 10:26:22	0.0 V	-200.0 V	-90 V
5/17/2023 09:16:47	0.0 V	-200.0 V	-90 V
5/16/2023 09:59:27	0.0 V	-200.0 V	-90 V
5/15/2023 10:01:28	0.0 V	-200.0 V	-80 V
5/12/2023 09:47:09	0.0 V	-190.0 V	-80 V
5/11/2023 09:16:07	0.0 V	-195.0 V	-80 V
5/10/2023 09:42:50	0.0 V	-175.0 V	-80 V
5/9/2023 09:27:44	0.0 V	-175.0 V	-70 V
5/8/2023 09:26:50	0.0 V	-200.0 V	-90 V
5/5/2023 09:05:22	0.0 V	-200.0 V	-100 V
5/4/2023 10:18:52	0.0 V	-200.0 V	-110 V
5/4/2023 09:42:19	0.0 V	-175.0 V	-80 V
5/3/2023 09:25:16	0.0 V	-175.0 V	-80 V
5/2/2023 14:32:57	0.0 V	-170.0 V	-80 V
5/2/2023 11:11:55	0.0 V	-175.0 V	-80 V
5/2/2023 10:06:56	0.0 V	-175.0 V	-80 V
5/2/2023 09:20:27	0.0 V	-180.0 V	-80 V
5/1/2023 08:58:25	0.0 V	-190.0 V	-80 V
4/28/2023 15:08:06	0.0 V	-185.0 V	-80 V
4/28/2023 11:06:46	0.0 V	-195.0 V	-80 V
4/28/2023 09:28:29	0.0 V	-175.0 V	-90 V
4/27/2023 09:00:22	0.0 V	-195.0 V	-90 V
4/26/2023 08:49:33	0.0 V	-195.0 V	-80 V
4/25/2023 10:22:10	0.0 V	-190.0 V	-80 V
4/24/2023 08:55:03	0.0 V	-170.0 V	-80 V
4/21/2023 12:21:05	0.0 V	-165.0 V	-80 V
4/21/2023 11:08:42	0.0 V	-175.0 V	-80 V
4/21/2023 08:53:22	0.0 V	-165.0 V	-80 V
4/20/2023 09:37:29	0.0 V	-175.0 V	-80 V

Performance Report

Created Date	Extract 1	Extract 2	Omega Bias
4/19/2023 17:09:43	0.0 V	-185.0 V	-80 V
4/19/2023 15:46:38	0.0 V	-185.0 V	-80 V
4/19/2023 14:35:32	0.0 V	-180.0 V	-80 V
4/19/2023 13:54:58	0.0 V	-185.0 V	-80 V
4/19/2023 09:45:34	0.0 V	-180.0 V	-80 V
4/18/2023 09:17:03	0.0 V	-190.0 V	-80 V
4/17/2023 10:23:48	0.0 V	-170.0 V	-70 V
4/17/2023 10:00:25	0.0 V	-190.0 V	-80 V
4/14/2023 08:59:17	0.0 V	-200.0 V	-90 V
4/13/2023 09:01:53	0.0 V	-190.0 V	-90 V
4/12/2023 08:48:04	0.0 V	-200.0 V	-90 V
4/11/2023 14:04:25	0.0 V	-185.0 V	-80 V
4/11/2023 11:58:48	0.0 V	-185.0 V	-80 V
4/11/2023 09:06:40	0.0 V	-200.0 V	-80 V
4/10/2023 10:37:44	0.0 V	-155.0 V	-70 V
4/10/2023 10:22:12	0.0 V	-175.0 V	-80 V
4/10/2023 09:55:11	0.0 V	-175.0 V	-80 V
4/10/2023 09:40:08	0.0 V	-170.0 V	-80 V
4/7/2023 09:12:03	0.0 V	-170.0 V	-80 V
4/6/2023 09:29:25	0.0 V	-175.0 V	-80 V
4/5/2023 12:01:25	0.0 V	-170.0 V	-80 V
4/4/2023 09:25:41	0.0 V	-175.0 V	-80 V
4/4/2023 09:16:16	0.0 V	-175.0 V	-80 V
4/3/2023 10:44:46	0.0 V	-190.0 V	-80 V
3/31/2023 13:01:29	0.0 V	-185.0 V	-80 V
3/31/2023 09:26:11	0.0 V	-175.0 V	-80 V
3/30/2023 09:11:37	0.0 V	-195.0 V	-80 V
3/30/2023 09:01:02	0.0 V	-195.0 V	-80 V
3/29/2023 09:27:41	0.0 V	-195.0 V	-80 V
3/28/2023 09:13:20	0.0 V	-175.0 V	-80 V
3/27/2023 09:16:40	0.0 V	-185.0 V	-80 V
3/24/2023 09:19:12	0.0 V	-190.0 V	-80 V
3/23/2023 10:30:11	0.0 V	-190.0 V	-80 V
3/22/2023 09:09:24	0.0 V	-185.0 V	-70 V
3/21/2023 11:29:57	0.0 V	-175.0 V	-80 V
3/20/2023 15:01:09	0.0 V	-195.0 V	-80 V
3/20/2023 14:56:00	0.0 V	-195.0 V	-80 V
3/20/2023 14:34:11	0.0 V	-200.0 V	-80 V
3/20/2023 11:10:11	0.0 V	-200.0 V	-90 V
3/17/2023 09:15:52	0.0 V	-200.0 V	-90 V
3/16/2023 10:04:21	0.0 V	-200.0 V	-80 V

Performance Report

Created Date	Extract 1	Extract 2	Omega Bias
3/15/2023 08:50:05	0.0 V	-195.0 V	-70 V
3/14/2023 09:23:23	0.0 V	-185.0 V	-70 V
3/13/2023 09:02:28	0.0 V	-195.0 V	-70 V
3/10/2023 09:50:25	0.0 V	-195.0 V	-80 V
3/9/2023 10:05:54	0.0 V	-200.0 V	-80 V
3/8/2023 13:14:50	0.0 V	-200.0 V	-80 V
3/7/2023 10:34:30	0.0 V	-200.0 V	-80 V
3/6/2023 10:45:07	0.0 V	-200.0 V	-80 V
3/3/2023 08:01:46	0.0 V	-200.0 V	-80 V
3/2/2023 09:47:36	0.0 V	-200.0 V	-80 V
3/1/2023 08:51:22	0.0 V	-200.0 V	-80 V
2/28/2023 09:34:23	0.0 V	-195.0 V	-80 V
2/27/2023 14:30:30	0.0 V	-200.0 V	-80 V
2/27/2023 11:22:50	0.0 V	-170.0 V	-80 V
2/27/2023 10:51:56	0.0 V	-170.0 V	-80 V
2/27/2023 10:44:59	0.0 V	-170.0 V	-80 V
2/24/2023 16:23:45	0.0 V	-185.0 V	-80 V
2/24/2023 16:07:57	0.0 V	-185.0 V	-80 V
2/23/2023 08:54:28	0.0 V	-185.0 V	-80 V
2/22/2023 08:37:14	0.0 V	-200.0 V	-80 V
2/21/2023 10:21:12	0.0 V	-195.0 V	-80 V
2/20/2023 08:52:02	0.0 V	-195.0 V	-80 V
2/17/2023 08:36:41	0.0 V	-200.0 V	-90 V
2/16/2023 08:44:34	0.0 V	-200.0 V	-90 V
2/15/2023 12:26:22	0.0 V	-180.0 V	-90 V
2/14/2023 13:04:03	0.0 V	-190.0 V	-80 V
2/13/2023 11:40:00	0.0 V	-200.0 V	-80 V
2/10/2023 10:01:05	0.0 V	-195.0 V	-80 V
2/9/2023 11:28:46	0.0 V	-200.0 V	-80 V
2/8/2023 08:23:24	0.0 V	-200.0 V	-90 V
2/7/2023 11:36:23	0.0 V	-200.0 V	-90 V
2/6/2023 12:36:01	0.0 V	-200.0 V	-100 V
2/3/2023 08:20:53	0.0 V	-200.0 V	-90 V
2/2/2023 07:55:34	0.0 V	-200.0 V	-90 V
2/1/2023 07:42:39	0.0 V	-195.0 V	-90 V
1/31/2023 09:19:32	0.0 V	-175.0 V	-90 V
1/30/2023 10:17:02	0.0 V	-200.0 V	-90 V
1/27/2023 08:15:42	0.0 V	-195.0 V	-90 V
1/26/2023 08:18:20	0.0 V	-200.0 V	-80 V
1/25/2023 09:02:42	0.0 V	-195.0 V	-90 V
1/24/2023 08:45:18	0.0 V	-200.0 V	-80 V

Performance Report

Created Date	Extract 1	Extract 2	Omega Bias
1/23/2023 07:54:12	0.0 V	-200.0 V	-80 V
1/20/2023 07:43:21	0.0 V	-195.0 V	-90 V
1/19/2023 08:47:40	0.0 V	-200.0 V	-90 V
1/18/2023 08:40:18	0.0 V	-200.0 V	-80 V
1/17/2023 09:51:42	0.0 V	-170.0 V	-80 V
1/13/2023 08:18:49	0.0 V	-200.0 V	-80 V
1/12/2023 08:58:54	0.0 V	-195.0 V	-80 V
1/11/2023 08:26:54	0.0 V	-200.0 V	-80 V
1/10/2023 09:03:33	0.0 V	-195.0 V	-80 V
1/9/2023 08:33:43	0.0 V	-195.0 V	-90 V
1/6/2023 09:09:20	0.0 V	-200.0 V	-80 V
1/5/2023 08:59:03	0.0 V	-200.0 V	-80 V
1/4/2023 09:22:57	0.0 V	-200.0 V	-90 V
1/3/2023 07:54:14	0.0 V	-190.0 V	-80 V
12/30/2022 12:03:44	0.0 V	-195.0 V	-80 V
12/30/2022 11:44:52	0.0 V	-195.0 V	-80 V
12/30/2022 08:53:04	0.0 V	-195.0 V	-80 V
12/30/2022 08:43:33	0.0 V	-195.0 V	-80 V
12/29/2022 09:51:14	0.0 V	-200.0 V	-80 V
12/28/2022 10:56:59	0.0 V	-200.0 V	-90 V
12/27/2022 11:51:09	0.0 V	-195.0 V	-80 V
12/22/2022 13:03:41	0.0 V	-200.0 V	-90 V
12/20/2022 10:03:57	0.0 V	-200.0 V	-90 V
12/15/2022 08:54:42	0.0 V	-200.0 V	-90 V
12/14/2022 07:30:17	0.0 V	-200.0 V	-80 V
12/13/2022 08:19:58	0.0 V	-200.0 V	-90 V
12/12/2022 09:25:41	0.0 V	-200.0 V	-90 V
12/9/2022 07:32:14	0.0 V	-185.0 V	-90 V
12/7/2022 09:04:52	0.0 V	-200.0 V	-80 V
12/6/2022 09:40:47	0.0 V	-200.0 V	-90 V
12/5/2022 09:33:56	0.0 V	-200.0 V	-90 V
12/2/2022 08:43:06	0.0 V	-200.0 V	-90 V
12/1/2022 08:14:13	0.0 V	-200.0 V	-90 V
11/30/2022 09:05:47	0.0 V	-200.0 V	-90 V
11/29/2022 09:56:17	0.0 V	-190.0 V	-80 V
11/22/2022 08:57:48	0.0 V	-200.0 V	-80 V
11/21/2022 09:24:58	0.0 V	-200.0 V	-80 V
11/18/2022 08:02:10	0.0 V	-200.0 V	-90 V
11/17/2022 14:32:03	0.0 V	-195.0 V	-90 V
11/14/2022 13:14:56	0.0 V	-180.0 V	-90 V
11/11/2022 08:35:49	0.0 V	-195.0 V	-90 V

Performance Report

Created Date	Extract 1	Extract 2	Omega Bias
11/10/2022 10:24:53	0.0 V	-185.0 V	-80 V
11/9/2022 12:14:57	0.0 V	-185.0 V	-70 V
11/7/2022 10:37:58	0.0 V	-200.0 V	-80 V
11/7/2022 08:51:17	0.0 V	-200.0 V	-110 V
11/4/2022 09:20:34	0.0 V	-200.0 V	-110 V
11/3/2022 10:28:57	0.0 V	-200.0 V	-120 V
11/2/2022 08:32:00	0.0 V	-200.0 V	-120 V
11/1/2022 11:19:50	0.0 V	-200.0 V	-120 V
11/1/2022 11:02:36	0.0 V	-200.0 V	-120 V
10/31/2022 09:19:47	0.0 V	-200.0 V	-120 V
10/28/2022 09:14:48	0.0 V	-200.0 V	-120 V
10/27/2022 10:50:18	0.0 V	-200.0 V	-120 V
10/26/2022 11:02:54	0.0 V	-200.0 V	-120 V
10/19/2022 12:45:34	0.0 V	-200.0 V	-120 V
10/18/2022 09:12:59	0.0 V	-200.0 V	-120 V
10/13/2022 11:08:12	0.0 V	-200.0 V	-120 V
10/12/2022 09:54:30	0.0 V	-200.0 V	-120 V
10/11/2022 09:12:35	0.0 V	-200.0 V	-110 V
10/6/2022 10:34:09	0.0 V	-195.0 V	-100 V
9/30/2022 08:08:09	0.0 V	-195.0 V	-100 V
9/29/2022 08:44:14	0.0 V	-195.0 V	-100 V
9/28/2022 09:42:45	0.0 V	-195.0 V	-100 V
9/27/2022 08:29:24	0.0 V	-195.0 V	-100 V
9/26/2022 10:25:12	0.0 V	-195.0 V	-100 V
9/23/2022 07:41:43	0.0 V	-195.0 V	-100 V
9/22/2022 11:03:47	0.0 V	-195.0 V	-100 V
9/21/2022 10:21:37	0.0 V	-195.0 V	-100 V
9/20/2022 12:23:56	0.0 V	-195.0 V	-100 V
9/15/2022 11:07:18	0.0 V	-195.0 V	-100 V
9/14/2022 09:29:39	0.0 V	-200.0 V	-80 V
9/13/2022 14:42:43	0.0 V	-200.0 V	-80 V
9/13/2022 08:12:52	0.0 V	-195.0 V	-80 V
9/12/2022 08:42:30	0.0 V	-190.0 V	-80 V
9/9/2022 09:45:48	0.0 V	-200.0 V	-80 V
9/8/2022 12:04:46	0.0 V	-200.0 V	-80 V
9/8/2022 11:48:01	0.0 V	-200.0 V	-70 V
9/8/2022 11:27:44	0.0 V	-200.0 V	-70 V
9/2/2022 07:38:00	0.0 V	-200.0 V	-80 V
9/1/2022 08:15:43	0.0 V	-200.0 V	-80 V
8/31/2022 07:49:17	0.0 V	-200.0 V	-80 V
8/30/2022 09:25:59	0.0 V	-200.0 V	-80 V

Performance Report

Created Date	Extract 1	Extract 2	Omega Bias
8/30/2022 09:00:54	0.0 V	-200.0 V	-90 V
8/25/2022 08:44:13	0.0 V	-200.0 V	-90 V
8/24/2022 08:11:08	0.0 V	-200.0 V	-90 V
8/22/2022 11:28:23	0.0 V	-200.0 V	-80 V
8/22/2022 08:02:13	0.0 V	-200.0 V	-80 V
8/19/2022 08:45:48	0.0 V	-200.0 V	-80 V
8/18/2022 08:00:38	0.0 V	-200.0 V	-80 V
8/17/2022 07:50:25	0.0 V	-200.0 V	-80 V
8/16/2022 08:11:19	0.0 V	-200.0 V	-80 V
8/15/2022 07:58:53	0.0 V	-200.0 V	-80 V
8/12/2022 07:30:34	0.0 V	-200.0 V	-80 V
8/11/2022 12:53:44	0.0 V	-200.0 V	-80 V
8/11/2022 08:29:41	0.0 V	-200.0 V	-80 V
8/10/2022 08:08:22	0.0 V	-200.0 V	-70 V
8/9/2022 08:36:25	0.0 V	-200.0 V	-80 V
8/9/2022 07:53:48	0.0 V	-200.0 V	-80 V
8/1/2022 09:30:01	0.0 V	-200.0 V	-80 V
8/1/2022 08:12:58	0.0 V	-200.0 V	-80 V
7/29/2022 07:24:42	0.0 V	-200.0 V	-80 V
7/28/2022 07:59:19	0.0 V	-200.0 V	-80 V
7/27/2022 08:17:37	0.0 V	-200.0 V	-90 V
7/26/2022 07:53:10	0.0 V	-200.0 V	-90 V
7/25/2022 09:48:29	0.0 V	-195.0 V	-90 V
6/30/2022 11:28:41	0.0 V	-200.0 V	-90 V
6/3/2022 08:15:26	0.0 V	-200.0 V	-90 V
6/1/2022 09:09:25	0.0 V	-195.0 V	-90 V
5/31/2022 12:07:21	0.0 V	-200.0 V	-90 V
5/31/2022 11:56:36	0.0 V	-200.0 V	-90 V
5/26/2022 09:53:19	0.0 V	-200.0 V	-110 V
5/25/2022 11:34:00	0.0 V	-200.0 V	-100 V
5/25/2022 10:52:32	0.0 V	-200.0 V	-100 V

US EPA Tune Check Report

Operator Name ICPMS
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\081123JR.b
Acq. Date-Time 8/11/2023 09:26:00
Report Comment ---
Instrument Name G8422A SG22151236

[No Gas]

Sensitivity

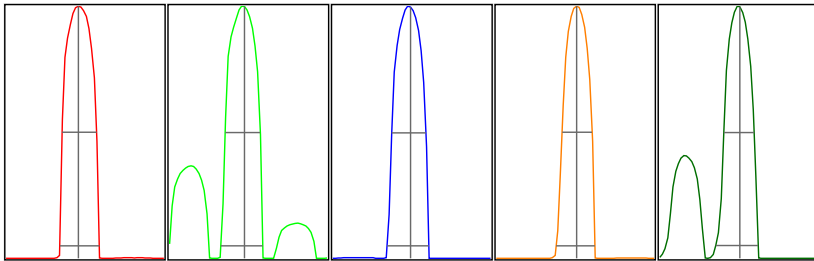
Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/(ug/l)]	Resp (Flag)	RSD%	RSD% (Required)
9	10.00	2445	24453.57			0.656	5.000
24	10.00	10229	102286.39			0.852	5.000
59	10.00	28761	287608.53			0.325	5.000
115	10.00	45524	455238.28			0.809	5.000
208	10.00	27164	271639.39			0.367	5.000

Mass	RSD% (Flag)
9	
24	
59	
115	
208	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	2460	2442	2464	2430	2431
24	10174	10252	10363	10218	10135
59	28737	28923	28717	28684	28744
115	45943	45798	44996	45450	45432
208	27008	27169	27185	27286	27171

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	3978.68	8.90	8.90 - 9.10	
24	16464.23	23.95	23.90 - 24.10	
59	47577.76	59.00	58.90 - 59.10	
115	84668.18	115.05	114.90 - 115.10	
208	49323.27	208.05	207.90 - 208.10	

US EPA Tune Check Report

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.65	0.741	0.900	
24	0.66	0.784	0.900	
59	0.64	0.781	0.900	
115	0.56	0.725	0.900	
208	0.57	0.794	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 153.699999999999
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.70 L/min	Makeup Gas	0.50 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	5.1 V	Deflect	11.2 V
Extract 2	-20.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-16 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	0.0 mL/min	OctP RF	200 V		

QP Parameters

Mass Gain	123	Axis Gain	0.9995	QP Bias	-3.0 V
Mass Offset	125	Axis Offset	0.01		

Hardware Settings

Torch

Torch H	0.1 mm	Torch V	0.6 mm
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EM

Discriminator	3.1 mV	Analog HV	2150 V	Pulse HV	1235 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/(ug/l)]	Resp (Flag)	RSD%	RSD% (Required)
24	10.00	2930	29300.76			0.854	5.000
59	10.00	73856	738557.26			0.537	5.000
115	10.00	117842	1178424.85			1.363	5.000
208	10.00	153692	1536923.75			1.009	5.000

Mass	RSD% (Flag)
24	
59	

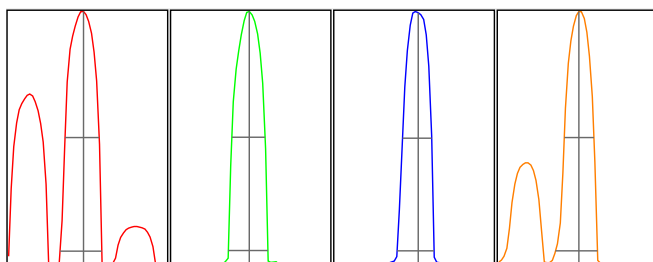
US EPA Tune Check Report

Mass	RSD% (Flag)
115	
208	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
24	2937	2924	2948	2890	2952
59	73318	73751	74380	73762	74068
115	118205	117199	119284	115388	119138
208	155636	153956	152646	151699	154525

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
24	4845.82	23.95	23.90 - 24.10	
59	126478.25	59.00	58.90 - 59.10	
115	221665.26	115.10	114.90 - 115.10	
208	284867.58	208.05	207.90 - 208.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
24	0.64	0.781	0.900	
59	0.62	0.741	0.900	
115	0.54	0.691	0.900	
208	0.55	0.782	0.900	

Integration Time [sec] 0.1

Acquisition Time [sec] 122.96

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.70 L/min	Makeup Gas	0.35 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	8.1 V	Deflect	0.0 V
Extract 2	-140.0 V	Cell Entrance	-40 V	Plate Bias	-55 V
Omega Bias	-70 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	3.0 V
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US EPA Tune Check Report

He Flow	4.3 mL/min	OctP Bias	-18.0 V
H2 Flow	0.0 mL/min	OctP RF	200 V

QP Parameters

Mass Gain	123	Axis Gain	0.9995	QP Bias	-15.0 V
Mass Offset	125	Axis Offset	0.01		

Hardware Settings

Torch

Torch H	0.1 mm	Torch V	0.6 mm
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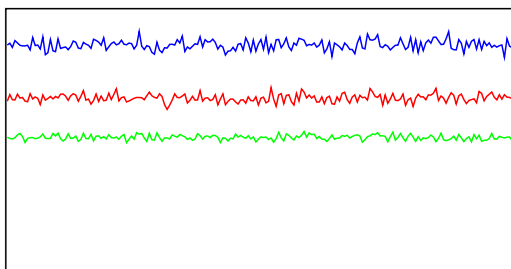
EM

Discriminator	3.1 mV	Analog HV	2150 V	Pulse HV	1235 V
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Performance Report

Operator Name ICPMS
Acq. Date-Time 8/14/2023 10:53:46
Instrument Name G8422A SG22151236
Sample Introduction PeriPump
Nebulizer Type MicroMist
Ion Lens Model x-Lens
Tune Parameters Standard Tune

Sensitivity



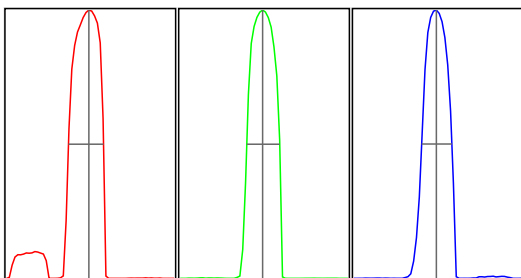
Mass	Range	Count	RSD%	Background
7	5000	3322	2.219	1.050
89	20000	10287	1.821	0.350
205	10000	8673	2.102	3.150

Sampling Period [sec] 0.311
 Integration Time [sec] 0.1

Oxide/Doubly Charged Ratio

Oxide 156 / 140 1.267 %
 Doubly Charged 70 / 140 0.869 %

Resolution/Axis



Mass	Peak Height	Axis	W-50%	W-10%
7	3290.65	7.00	0.62	0.72
89	10241.97	89.00	0.58	0.69
205	8634.68	205.00	0.53	0.72

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.74

Tune Parameters

Plasma Parameters

RF Power	1550 W	Option Gas	---	Makeup Gas	0.00 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Auxiliary Gas	0.90 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C	Plasma Gas	15.0 L/min
Nebulizer Gas	1.07 L/min				

Lens Parameters

Extract 1	0.0 V	Omega Lens	8.4 V	Deflect	12.4 V
Extract 2	-165.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-80 V	Cell Exit	-50 V		

Performance Report

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	0.0 mL/min	OctP RF	200 V		

QP Parameters

QP Bias	-3.0 V
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Hardware Settings

Torch

Torch H	0.0 mm	Torch H (Hot)	---	Torch H (Cool)	---
Torch V	0.6 mm	Torch V (Hot)	---	Torch V (Cool)	---

Plasma Correction

Nebulizer Gas Offset	0.02 L/min	Makeup Gas (Hot)	---	Makeup Gas (Cool)	---
		Sample Depth (Hot)	---		

Resolution/Axis

Mass Gain	123	Axis Gain	0.9993
Mass Offset	125	Axis Offset	0.00

EM

Discriminator	3.1 mV	Analog HV	2150 V	Pulse HV	1235 V
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Performance Report

Meter

Name	Value	Unit
Nebulizer Gas	1.07	L/min
MU./Dil. Gas	0.00	L/min
Plasma Gas	15.01	L/min
Aux Gas	0.90	L/min
Ar Gas Tank Press	5.73E+2	kPa
+5V (Press Gage)	5.0	V
Ar AMFC Temp	35.0	°C
Nebulizer Gas(DP)	6.27E+0	kPa
MU./Dil. Gas(DP)	-2.47E-1	kPa
Aux Gas(DP)	1.07E+1	kPa
Plasma Gas(DP)	1.18E+1	kPa
Nebulizer Gas(BP)	2.55E+2	kPa
MU./Dil. Gas(BP)	0.00E+0	kPa
Aux Gas(BP)	6.05E+1	kPa
Plasma Gas(BP)	4.33E+1	kPa
S/C Temp (H)	21.4	°C
S/C Temp (L)	2.0	°C
Peltier Voltage	3.8	V
IF/BK Press	2.34E+2	Pa
Analyzer Press	5.19E-5	Pa
IG HV	178	V
IG Emission	4.96	µA
TMP Revolution	100.0	%
TMP Rev (Raw)	100.7	%
TMP Current	2.57	A
PWR AMP Drain I	0.3	A
PWR AMP Bias	4.06	V
OctP RF (Avg)	202.9	V
OctP RF Set	3.9	V
OctP FET Bias Set	3.97	V
OctP RF(+)	178.1	V
OctP RF(-)	226.4	V
OctP Bias	-7.9	V
Cell Temp.	65.0	°C
Cell Heater Volt.	3.5	V
+U Voltage	7.0	V

Name	Value	Unit
-U Voltage	-12.7	V
V Voltage	38.6	V
QPRF Fader	0.0	V
Pickup Temp	55.0	°C
PWR Amp Temp	0.1	V
+600V	620.8	V
-120V	-133.8	V
-720V	-741.4	V
Prefilter Bias	-5.01	V
Pickup Heater I	0.06	A
QP PS +48V	47.6	V
QP PS +48V I	0.00	A
Analog HV	-2167	V
Pulse HV	1244	V
EM Gate	-34.8	V
Pulse Gate	250.3	V
EM Entrance	0.1	V
EM HV Gain	-776.4	V
Inner Pole	-300.1	V
Outer Pole	19.9	V
Analog -5V	-5.1	V
Analog +15V	14.5	V
Analog -15V	-14.4	V
Analog +5V	5.2	V
Shunt C Pos	1.5	V
Drain Volt.(max)	61.1	V
RF PS +48V	47.9	V
Forward Power	1551	W
Reflected Power	2	W
Plasma Freq.	27.12	MHz
Drain I 1	11.83	A
Drain I 2	10.70	A
Drain I 3	11.01	A
Drain I 4	11.63	A
Temp Sensor	2.7	V
Driver I	6.10	A

Name	Value	Unit
Igniter	0.0	V
Driver Voltage Set	6.9	V
Unbalance Current	0.34	A
PWM Threshold Set	0.2	V
Driver Voltage	5.5	V
PWM Threshold	0.2	V
Phase Detector	0.0	mV
H2 Gas	0.00	mL/min
He Gas	0.11	mL/min
H2 Gas Press	1.68E+2	kPa
He Gas Press	0.00E+0	kPa
ORS AMFC Temp	35.6	°C
Atmospheric Press	1.01E+2	kPa
Extract 1	0.0	V
Extract 2	-165.1	V
Omega Bias	-80.0	V
Omega Lens	8.6	V
Cell Entrance	-30.0	V
Cell Exit	-50.0	V
Deflect	12.5	V
Plate Bias	-35.1	V
HV+530V	530	V
HV+240V	239	V
HV-360V	-360	V
Inlet Temp	31.1	°C
Internal Temp	39.0	°C
+24V	23.7	V
Water Temp	23.8	°C
Water RF/WC/IF	1.42	L/min
ISIS 3 Pump Speed	0.0	%
Valve Position		
Tune/ISTD Valve		

Performance Report History

Sensitivity

Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
8/14/2023 10:53:46	3322	10287	8673
8/11/2023 09:10:11	3100	10818	9115
8/10/2023 09:51:40	3182	11284	9030
8/9/2023 09:53:04	3447	11730	9236
8/8/2023 09:51:14	3413	11684	8693
8/7/2023 10:08:18	3581	12638	9159
8/4/2023 09:09:07	3390	12195	8541
8/4/2023 08:31:24	3746	12441	9586
8/3/2023 09:42:16	2946	10912	9810
8/2/2023 11:05:14	2364	8830	8876
8/2/2023 10:28:09	1722	4847	4950
8/2/2023 10:20:44	1323	3986	4235
8/2/2023 10:16:57	1468	4492	4538
8/2/2023 10:12:26	795	2492	2354
8/1/2023 09:44:17	2203	9736	8354
7/31/2023 09:31:10	2725	10837	8929
7/28/2023 09:28:15	2574	11992	10910
7/27/2023 09:17:24	2638	11942	10885
7/26/2023 10:24:37	2628	12086	10721
7/25/2023 09:08:43	2645	13109	12010
7/24/2023 09:25:55	2866	13213	12584
7/21/2023 09:38:18	3045	12777	11213
7/20/2023 09:50:16	3015	13608	11979
7/19/2023 09:51:11	2972	13534	11794
7/18/2023 10:02:58	2480	9926	8625
7/17/2023 11:07:27	3529	15060	11733
7/17/2023 09:51:07	3312	15288	13391
7/14/2023 13:20:39	2401	9970	8567
7/14/2023 13:13:20	858	3455	3011
7/14/2023 13:04:01	35	15	30
7/14/2023 12:49:03	1150	4213	3169
7/14/2023 09:43:22	3304	13648	12348
7/13/2023 17:06:49	3012	11414	10194
7/13/2023 16:18:09	2955	11378	10283
7/13/2023 13:12:33	2347	9669	10238
7/12/2023 10:11:37	3266	14662	11672
7/11/2023 10:12:22	3435	14541	11159
7/11/2023 10:02:13	1682	4632	2699
7/10/2023 10:27:11	3998	13300	6429
7/7/2023 10:03:10	3562	15900	10842
7/7/2023 09:53:18	3887	15915	9865

Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
7/6/2023 09:39:20	3915	15094	8706
7/5/2023 09:21:22	3530	13882	7836
7/3/2023 09:52:13	3101	14414	11001
7/3/2023 09:30:59	2325	8553	5822
6/30/2023 09:54:22	3674	15262	10933
6/29/2023 09:42:14	3257	14111	11174
6/28/2023 09:24:23	3603	14430	11195
6/27/2023 09:21:37	3474	14301	11162
6/26/2023 13:04:07	2984	13198	10818
6/23/2023 09:35:05	4548	13496	8799
6/22/2023 09:46:11	3987	12820	9360
6/21/2023 09:51:51	4030	13146	9814
6/20/2023 09:45:37	4312	13311	10018
6/19/2023 09:55:02	4181	12573	9901
6/16/2023 09:23:49	4267	13074	9801
6/15/2023 09:47:30	4629	12970	9475
6/14/2023 09:16:14	3934	12479	10197
6/13/2023 09:49:15	4567	13183	10070
6/12/2023 11:34:15	4144	12001	9698
6/12/2023 09:54:55	3392	10831	10127
6/9/2023 12:39:33	3926	15367	11134
6/9/2023 09:23:31	3672	15849	11841
6/8/2023 10:16:31	4083	16245	11759
6/7/2023 09:48:23	3788	15983	11493
6/6/2023 09:46:41	4195	16624	10957
6/5/2023 09:22:56	3853	16849	11906
6/2/2023 09:34:45	3243	12651	7710
6/1/2023 09:48:17	4008	16726	11170
5/31/2023 09:40:40	3604	17615	11865
5/30/2023 09:32:39	4046	17790	11322
5/26/2023 12:43:13	3927	16239	12218
5/26/2023 12:35:21	761	3406	2008
5/26/2023 12:24:37	184	549	395
5/26/2023 12:20:08	554	1783	1426
5/26/2023 12:15:41	745	2452	1922
5/26/2023 09:21:24	4039	16585	12317
5/25/2023 09:20:09	4040	16615	11868
5/24/2023 12:08:16	4075	16656	11488
5/24/2023 09:30:58	4357	17430	11641
5/23/2023 10:10:03	4128	14901	12444
5/22/2023 10:18:03	3703	16482	11595

Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
5/19/2023 09:10:18	3614	16447	11473
5/18/2023 10:26:22	3977	16258	11430
5/17/2023 09:16:47	3878	16266	12092
5/16/2023 09:59:27	4248	16604	11458
5/15/2023 10:01:28	3608	15995	12083
5/12/2023 09:47:09	3710	14725	12670
5/11/2023 09:16:07	3615	16694	11489
5/10/2023 09:42:50	3643	16651	11072
5/9/2023 09:27:44	3049	13792	9652
5/8/2023 09:26:50	4462	18082	11483
5/5/2023 09:05:22	4399	16357	12967
5/4/2023 10:18:52	5492	15573	10604
5/4/2023 09:42:19	3329	10245	9107
5/3/2023 09:25:16	3021	11228	9134
5/2/2023 14:32:57	3253	10925	8420
5/2/2023 11:11:55	3007	10527	8496
5/2/2023 10:06:56	2763	10198	8556
5/2/2023 09:20:27	1757	4748	3682
5/1/2023 08:58:25	3835	14776	11277
4/28/2023 15:08:06	3400	12379	10252
4/28/2023 11:06:46	3035	12513	11008
4/28/2023 09:28:29	2667	9198	8023
4/27/2023 09:00:22	4967	15984	10961
4/26/2023 08:49:33	3812	15401	12317
4/25/2023 10:22:10	3613	13723	11649
4/24/2023 08:55:03	3223	11437	9245
4/21/2023 12:21:05	2309	8904	8075
4/21/2023 11:08:42	3585	13031	10380
4/21/2023 08:53:22	3675	12662	9407
4/20/2023 09:37:29	3414	12407	9925
4/19/2023 17:09:43	3618	12571	9512
4/19/2023 15:46:38	3448	13274	10340
4/19/2023 14:35:32	3462	12482	9880
4/19/2023 13:54:58	3220	11909	9076
4/19/2023 09:45:34	3711	13588	10208
4/18/2023 09:17:03	4001	15807	11823
4/17/2023 10:23:48	2878	11093	9732
4/17/2023 10:00:25	2905	10987	9354
4/14/2023 08:59:17	3797	14951	12432
4/13/2023 09:01:53	4318	14773	11319
4/12/2023 08:48:04	4928	16846	11839

Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
4/11/2023 14:04:25	4530	15489	11208
4/11/2023 11:58:48	5326	16891	11025
4/11/2023 09:06:40	3954	15395	11003
4/10/2023 10:37:44	2194	8633	7826
4/10/2023 10:22:12	1899	8212	8001
4/10/2023 09:55:11	1701	5404	5012
4/10/2023 09:40:08	1137	2728	2210
4/7/2023 09:12:03	2772	10636	8482
4/6/2023 09:29:25	3180	12523	9525
4/5/2023 12:01:25	3397	12261	8977
4/4/2023 09:25:41	3746	15001	10717
4/4/2023 09:16:16	3774	15323	10930
4/3/2023 10:44:46	3816	16733	12434
3/31/2023 13:01:29	3689	14276	11079
3/31/2023 09:26:11	4028	14610	11523
3/30/2023 09:11:37	5025	18708	14607
3/30/2023 09:01:02	5089	19072	14859
3/29/2023 09:27:41	5221	18650	13966
3/28/2023 09:13:20	4760	16933	13578
3/27/2023 09:16:40	5767	20845	15106
3/24/2023 09:19:12	5395	19720	14041
3/23/2023 10:30:11	6291	21448	13416
3/22/2023 09:09:24	2696	9011	6944
3/21/2023 11:29:57	5734	16669	12164
3/20/2023 15:01:09	6363	19486	13888
3/20/2023 14:56:00	5009	16683	9718
3/20/2023 14:34:11	2834	10712	5829
3/20/2023 11:10:11	7530	22977	15012
3/17/2023 09:15:52	5750	18440	11963
3/16/2023 10:04:21	4980	19675	11461
3/15/2023 08:50:05	4999	21116	13825
3/14/2023 09:23:23	4061	12104	9854
3/13/2023 09:02:28	3215	10694	7776
3/10/2023 09:50:25	5164	18928	14123
3/9/2023 10:05:54	4252	14786	10051
3/8/2023 13:14:50	3752	11270	7378
3/7/2023 10:34:30	4374	16704	11777
3/6/2023 10:45:07	3273	13385	9184
3/3/2023 08:01:46	4929	20899	12798
3/2/2023 09:47:36	5032	21800	13030
3/1/2023 08:51:22	5345	21950	12808

Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
2/28/2023 09:34:23	6338	22463	12670
2/27/2023 14:30:30	4812	15793	10582
2/27/2023 11:22:50	2660	6341	5374
2/27/2023 10:51:56	2687	6395	5542
2/27/2023 10:44:59	2767	6642	5568
2/24/2023 16:23:45	4656	17757	14021
2/24/2023 16:07:57	259	10	1
2/23/2023 08:54:28	5450	21137	15863
2/22/2023 08:37:14	6587	23092	14287
2/21/2023 10:21:12	5717	19848	15529
2/20/2023 08:52:02	5102	19535	16027
2/17/2023 08:36:41	5650	19696	13966
2/16/2023 08:44:34	5427	18692	15094
2/15/2023 12:26:22	5476	16249	14697
2/14/2023 13:04:03	5114	18973	14711
2/13/2023 11:40:00	5622	21074	13839
2/10/2023 10:01:05	5342	19862	13915
2/9/2023 11:28:46	5286	16698	13470
2/8/2023 08:23:24	2500	8272	6431
2/7/2023 11:36:23	5011	17251	13767
2/6/2023 12:36:01	4650	16849	13463
2/3/2023 08:20:53	4694	16500	12971
2/2/2023 07:55:34	4126	16618	13815
2/1/2023 07:42:39	4262	15843	13824
1/31/2023 09:19:32	3770	13798	12047
1/30/2023 10:17:02	4337	16436	13025
1/27/2023 08:15:42	4501	16617	13319
1/26/2023 08:18:20	4191	17132	13749
1/25/2023 09:02:42	4450	15538	12000
1/24/2023 08:45:18	4336	16580	13340
1/23/2023 07:54:12	2590	9369	7241
1/20/2023 07:43:21	4826	18818	14697
1/19/2023 08:47:40	5243	18006	12448
1/18/2023 08:40:18	4557	17530	14362
1/17/2023 09:51:42	4181	15622	13807
1/13/2023 08:18:49	4548	18577	14569
1/12/2023 08:58:54	4387	18033	14854
1/11/2023 08:26:54	4545	18169	14422
1/10/2023 09:03:33	4726	18711	15508
1/9/2023 08:33:43	5629	19269	14475
1/6/2023 09:09:20	5213	18911	14085

Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
1/5/2023 08:59:03	5159	19900	15721
1/4/2023 09:22:57	5368	19455	14720
1/3/2023 07:54:14	4612	19533	15792
12/30/2022 12:03:44	61	23	2
12/30/2022 11:44:52	74	26	2
12/30/2022 08:53:04	103	30	8
12/30/2022 08:43:33	4844	19749	15375
12/29/2022 09:51:14	5727	20311	14775
12/28/2022 10:56:59	5379	19562	14038
12/27/2022 11:51:09	2917	13215	10039
12/22/2022 13:03:41	5910	20405	14964
12/20/2022 10:03:57	6068	20428	15363
12/15/2022 08:54:42	5797	20392	15125
12/14/2022 07:30:17	4875	19420	15909
12/13/2022 08:19:58	6040	20311	15825
12/12/2022 09:25:41	5282	17431	13118
12/9/2022 07:32:14	5734	18212	14695
12/7/2022 09:04:52	5322	21110	16195
12/6/2022 09:40:47	5815	21208	16339
12/5/2022 09:33:56	6313	20948	15766
12/2/2022 08:43:06	5550	21444	17003
12/1/2022 08:14:13	6173	21650	16355
11/30/2022 09:05:47	5892	20987	16063
11/29/2022 09:56:17	4094	14596	10603
11/22/2022 08:57:48	4099	12381	7804
11/21/2022 09:24:58	4059	13597	9996
11/18/2022 08:02:10	5896	21100	16764
11/17/2022 14:32:03	5110	18966	16326
11/14/2022 13:14:56	5191	16854	13936
11/11/2022 08:35:49	5504	20364	14691
11/10/2022 10:24:53	4996	20056	14474
11/9/2022 12:14:57	4371	19332	15801
11/7/2022 10:37:58	5685	18033	11927
11/7/2022 08:51:17	146	29	32
11/4/2022 09:20:34	7168	18645	12118
11/3/2022 10:28:57	3530	13884	7706
11/2/2022 08:32:00	4974	16880	8970
11/1/2022 11:19:50	3994	15305	8677
11/1/2022 11:02:36	4266	16862	10879
10/31/2022 09:19:47	5485	18924	11532
10/28/2022 09:14:48	6686	19237	10543

Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
10/27/2022 10:50:18	6536	19264	10753
10/26/2022 11:02:54	7130	20921	11654
10/19/2022 12:45:34	6920	20484	11015
10/18/2022 09:12:59	7274	20876	11667
10/13/2022 11:08:12	6974	19838	11390
10/12/2022 09:54:30	5786	18972	9741
10/11/2022 09:12:35	5552	19520	11580
10/6/2022 10:34:09	5625	19891	13032
9/30/2022 08:08:09	5495	19202	12599
9/29/2022 08:44:14	5232	19124	12103
9/28/2022 09:42:45	4963	19363	12220
9/27/2022 08:29:24	5178	18784	11329
9/26/2022 10:25:12	5330	19090	12061
9/23/2022 07:41:43	5103	18871	12031
9/22/2022 11:03:47	4952	18979	11589
9/21/2022 10:21:37	4886	19212	13138
9/20/2022 12:23:56	5002	19051	13455
9/15/2022 11:07:18	5302	18910	11562
9/14/2022 09:29:39	5075	20632	13468
9/13/2022 14:42:43	5153	20537	14155
9/13/2022 08:12:52	5034	20027	12445
9/12/2022 08:42:30	5784	20793	13929
9/9/2022 09:45:48	6147	20766	13709
9/8/2022 12:04:46	4051	14292	8447
9/8/2022 11:48:01	41	6	2
9/8/2022 11:27:44	4889	20574	14952
9/2/2022 07:38:00	6624	23227	14887
9/1/2022 08:15:43	5991	21208	13985
8/31/2022 07:49:17	5373	21196	15352
8/30/2022 09:25:59	5235	20223	15276
8/30/2022 09:00:54	13	1	2
8/25/2022 08:44:13	5528	21089	15029
8/24/2022 08:11:08	5585	20407	15666
8/22/2022 11:28:23	5644	19080	14194
8/22/2022 08:02:13	5908	24300	19093
8/19/2022 08:45:48	5153	20283	15070
8/18/2022 08:00:38	5492	20290	13446
8/17/2022 07:50:25	6314	21249	13568
8/16/2022 08:11:19	6612	21262	13203
8/15/2022 07:58:53	5887	22676	15751
8/12/2022 07:30:34	6745	21079	11749

Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
8/11/2022 12:53:44	6477	19179	10232
8/11/2022 08:29:41	6957	21714	11530
8/10/2022 08:08:22	6409	22095	13386
8/9/2022 08:36:25	17	5	13
8/9/2022 07:53:48	6922	23611	15152
8/1/2022 09:30:01	5884	22782	15120
8/1/2022 08:12:58	6185	22941	21185
7/29/2022 07:24:42	6291	22723	20278
7/28/2022 07:59:19	6521	24058	19698
7/27/2022 08:17:37	6920	24215	18319
7/26/2022 07:53:10	6343	24801	18781
7/25/2022 09:48:29	5345	21220	12528
6/30/2022 11:28:41	5342	21861	14116
6/3/2022 08:15:26	7965	26259	18626
6/1/2022 09:09:25	7540	22818	17488
5/31/2022 12:07:21	7463	21617	16999
5/31/2022 11:56:36	6060	17631	14046
5/26/2022 09:53:19	6021	17710	14820
5/25/2022 11:34:00	6269	17834	14297
5/25/2022 10:52:32	6525	17820	14265

Background

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
8/14/2023 10:53:46	1.050	0.350	3.150
8/11/2023 09:10:11	1.100	0.700	2.900
8/10/2023 09:51:40	0.950	0.250	2.750
8/9/2023 09:53:04	0.900	0.850	2.900
8/8/2023 09:51:14	1.200	0.300	3.450
8/7/2023 10:08:18	0.800	0.450	2.450
8/4/2023 09:09:07	1.050	0.350	3.800
8/4/2023 08:31:24	0.850	0.400	4.150
8/3/2023 09:42:16	0.700	0.350	3.250
8/2/2023 11:05:14	0.500	0.150	2.600
8/2/2023 10:28:09	0.900	0.200	1.450
8/2/2023 10:20:44	1.100	0.050	2.000
8/2/2023 10:16:57	1.000	0.150	1.700

Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
8/2/2023 10:12:26	0.500	0.200	1.550
8/1/2023 09:44:17	0.600	0.400	1.600
7/31/2023 09:31:10	0.650	0.250	1.850
7/28/2023 09:28:15	0.450	0.400	2.050
7/27/2023 09:17:24	0.400	0.200	1.900
7/26/2023 10:24:37	1.000	0.400	2.400
7/25/2023 09:08:43	0.250	0.500	1.350
7/24/2023 09:25:55	0.550	0.150	1.700
7/21/2023 09:38:18	0.450	0.400	1.850
7/20/2023 09:50:16	0.550	0.250	2.250
7/19/2023 09:51:11	0.700	0.300	1.350
7/18/2023 10:02:58	0.800	0.350	1.500
7/17/2023 11:07:27	0.950	0.200	1.800
7/17/2023 09:51:07	0.650	0.300	2.300
7/14/2023 13:20:39	0.950	0.550	2.500
7/14/2023 13:13:20	0.950	0.200	1.900
7/14/2023 13:04:01	0.450	0.300	0.950
7/14/2023 12:49:03	1.000	0.400	2.600
7/14/2023 09:43:22	0.950	0.350	1.400
7/13/2023 17:06:49	0.900	0.450	1.350
7/13/2023 16:18:09	0.800	0.250	1.700
7/13/2023 13:12:33	0.500	0.050	1.350
7/12/2023 10:11:37	0.850	0.350	1.900
7/11/2023 10:12:22	0.900	0.350	2.450
7/11/2023 10:02:13	1.000	0.300	3.100
7/10/2023 10:27:11	0.950	0.250	2.300
7/7/2023 10:03:10	1.100	0.300	2.800
7/7/2023 09:53:18	1.200	0.550	2.750
7/6/2023 09:39:20	0.850	0.400	3.100
7/5/2023 09:21:22	1.300	0.550	2.800
7/3/2023 09:52:13	1.100	0.150	1.700
7/3/2023 09:30:59	1.100	0.300	1.900
6/30/2023 09:54:22	1.150	0.250	2.450
6/29/2023 09:42:14	0.850	0.350	1.800
6/28/2023 09:24:23	1.350	0.300	2.500
6/27/2023 09:21:37	0.750	0.350	2.100
6/26/2023 13:04:07	0.700	0.350	1.750
6/23/2023 09:35:05	2.000	0.750	4.350
6/22/2023 09:46:11	1.750	0.550	4.300
6/21/2023 09:51:51	1.550	0.550	3.450
6/20/2023 09:45:37	1.700	0.900	4.050

Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
6/19/2023 09:55:02	1.450	0.350	3.650
6/16/2023 09:23:49	1.250	0.650	3.500
6/15/2023 09:47:30	1.300	0.500	4.100
6/14/2023 09:16:14	1.900	0.300	2.850
6/13/2023 09:49:15	1.600	0.250	3.300
6/12/2023 11:34:15	1.350	0.350	3.050
6/12/2023 09:54:55	1.300	0.300	2.050
6/9/2023 12:39:33	1.150	0.450	3.100
6/9/2023 09:23:31	1.700	0.350	2.500
6/8/2023 10:16:31	0.900	0.350	2.450
6/7/2023 09:48:23	1.250	0.300	2.350
6/6/2023 09:46:41	1.150	0.550	2.950
6/5/2023 09:22:56	1.450	0.250	2.050
6/2/2023 09:34:45	1.000	0.250	2.900
6/1/2023 09:48:17	1.050	0.300	2.150
5/31/2023 09:40:40	0.900	0.150	2.800
5/30/2023 09:32:39	1.350	0.350	2.200
5/26/2023 12:43:13	1.600	0.250	1.900
5/26/2023 12:35:21	1.050	0.400	2.200
5/26/2023 12:24:37	1.300	0.150	1.850
5/26/2023 12:20:08	1.050	0.300	2.200
5/26/2023 12:15:41	0.700	0.200	1.700
5/26/2023 09:21:24	1.050	0.350	2.750
5/25/2023 09:20:09	1.450	0.500	3.000
5/24/2023 12:08:16	1.250	0.400	2.500
5/24/2023 09:30:58	1.250	0.700	2.600
5/23/2023 10:10:03	0.850	0.150	1.800
5/22/2023 10:18:03	1.300	0.100	2.500
5/19/2023 09:10:18	1.550	0.150	2.800
5/18/2023 10:26:22	1.250	0.350	3.000
5/17/2023 09:16:47	1.300	0.100	1.900
5/16/2023 09:59:27	1.800	0.050	2.900
5/15/2023 10:01:28	1.350	0.200	2.350
5/12/2023 09:47:09	0.750	0.150	1.650
5/11/2023 09:16:07	1.250	0.200	2.450
5/10/2023 09:42:50	1.050	0.300	1.850
5/9/2023 09:27:44	1.150	0.450	2.500
5/8/2023 09:26:50	2.000	0.250	2.900
5/5/2023 09:05:22	0.900	0.450	1.850
5/4/2023 10:18:52	1.550	0.600	2.450
5/4/2023 09:42:19	0.800	0.350	1.550

Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
5/3/2023 09:25:16	1.400	0.250	2.800
5/2/2023 14:32:57	1.850	0.350	3.750
5/2/2023 11:11:55	1.400	0.350	3.300
5/2/2023 10:06:56	1.200	0.550	2.950
5/2/2023 09:20:27	1.800	0.600	3.600
5/1/2023 08:58:25	1.350	0.350	3.650
4/28/2023 15:08:06	1.050	0.550	3.650
4/28/2023 11:06:46	1.650	0.150	2.350
4/28/2023 09:28:29	1.000	0.300	2.600
4/27/2023 09:00:22	1.450	0.600	4.200
4/26/2023 08:49:33	1.500	0.400	3.850
4/25/2023 10:22:10	1.400	0.300	2.800
4/24/2023 08:55:03	1.500	0.100	2.750
4/21/2023 12:21:05	1.100	0.400	2.250
4/21/2023 11:08:42	2.000	0.450	2.300
4/21/2023 08:53:22	1.200	0.250	3.600
4/20/2023 09:37:29	1.500	0.500	2.950
4/19/2023 17:09:43	1.750	0.700	3.450
4/19/2023 15:46:38	1.600	0.600	3.600
4/19/2023 14:35:32	1.350	0.600	3.100
4/19/2023 13:54:58	1.450	0.500	2.850
4/19/2023 09:45:34	1.250	0.350	4.350
4/18/2023 09:17:03	1.750	0.400	3.900
4/17/2023 10:23:48	0.800	0.300	2.450
4/17/2023 10:00:25	1.500	0.250	2.650
4/14/2023 08:59:17	0.950	0.450	3.250
4/13/2023 09:01:53	1.400	0.500	2.850
4/12/2023 08:48:04	1.350	0.450	4.300
4/11/2023 14:04:25	1.750	0.700	3.800
4/11/2023 11:58:48	1.350	0.550	4.900
4/11/2023 09:06:40	1.500	0.500	3.750
4/10/2023 10:37:44	0.550	0.350	1.300
4/10/2023 10:22:12	1.050	0.200	1.950
4/10/2023 09:55:11	1.100	0.350	2.700
4/10/2023 09:40:08	1.350	0.250	3.000
4/7/2023 09:12:03	1.350	0.300	2.850
4/6/2023 09:29:25	1.600	0.350	3.450
4/5/2023 12:01:25	1.650	0.450	3.900
4/4/2023 09:25:41	1.050	0.500	3.300
4/4/2023 09:16:16	2.000	0.500	3.850
4/3/2023 10:44:46	0.950	0.700	4.000

Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
3/31/2023 13:01:29	1.600	0.150	2.600
3/31/2023 09:26:11	1.150	0.450	2.800
3/30/2023 09:11:37	1.450	0.550	2.750
3/30/2023 09:01:02	1.500	0.250	3.350
3/29/2023 09:27:41	1.600	0.350	3.600
3/28/2023 09:13:20	1.150	0.250	2.650
3/27/2023 09:16:40	1.250	0.600	3.200
3/24/2023 09:19:12	1.550	0.700	3.750
3/23/2023 10:30:11	2.050	0.250	3.650
3/22/2023 09:09:24	2.200	0.300	1.850
3/21/2023 11:29:57	1.700	0.450	2.750
3/20/2023 15:01:09	2.350	0.600	4.250
3/20/2023 14:56:00	2.950	0.600	4.950
3/20/2023 14:34:11	3.650	1.050	6.050
3/20/2023 11:10:11	2.050	0.700	5.350
3/17/2023 09:15:52	2.250	0.650	3.950
3/16/2023 10:04:21	2.250	0.750	4.300
3/15/2023 08:50:05	1.550	0.500	3.400
3/14/2023 09:23:23	1.000	0.300	2.750
3/13/2023 09:02:28	1.800	0.700	3.500
3/10/2023 09:50:25	1.450	0.450	4.250
3/9/2023 10:05:54	2.200	0.350	4.150
3/8/2023 13:14:50	2.350	0.450	4.200
3/7/2023 10:34:30	2.300	0.600	2.900
3/6/2023 10:45:07	3.100	0.350	3.250
3/3/2023 08:01:46	2.200	0.650	4.350
3/2/2023 09:47:36	2.500	0.450	4.100
3/1/2023 08:51:22	1.800	0.350	3.800
2/28/2023 09:34:23	1.750	0.800	3.650
2/27/2023 14:30:30	1.550	0.600	3.100
2/27/2023 11:22:50	0.800	0.200	1.500
2/27/2023 10:51:56	0.950	0.250	2.200
2/27/2023 10:44:59	1.000	0.100	1.750
2/24/2023 16:23:45	0.600	0.650	2.400
2/24/2023 16:07:57	0.900	0.350	2.300
2/23/2023 08:54:28	0.650	0.150	2.700
2/22/2023 08:37:14	1.200	0.350	4.250
2/21/2023 10:21:12	1.050	0.100	2.800
2/20/2023 08:52:02	0.900	0.200	2.050
2/17/2023 08:36:41	0.900	0.150	2.150
2/16/2023 08:44:34	0.950	0.200	2.100

Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
2/15/2023 12:26:22	0.550	0.200	1.150
2/14/2023 13:04:03	1.150	0.250	1.250
2/13/2023 11:40:00	1.600	0.200	2.000
2/10/2023 10:01:05	1.350	0.550	2.150
2/9/2023 11:28:46	1.150	0.200	2.100
2/8/2023 08:23:24	1.300	0.400	1.800
2/7/2023 11:36:23	1.550	0.300	2.250
2/6/2023 12:36:01	1.350	0.150	1.900
2/3/2023 08:20:53	1.050	0.300	2.050
2/2/2023 07:55:34	0.850	0.100	1.950
2/1/2023 07:42:39	0.800	0.250	1.550
1/31/2023 09:19:32	0.850	0.250	1.350
1/30/2023 10:17:02	0.800	0.150	2.050
1/27/2023 08:15:42	1.300	0.250	2.400
1/26/2023 08:18:20	1.100	0.250	2.600
1/25/2023 09:02:42	0.650	0.200	2.100
1/24/2023 08:45:18	1.150	0.200	1.950
1/23/2023 07:54:12	1.000	0.000	1.650
1/20/2023 07:43:21	0.950	0.150	1.550
1/19/2023 08:47:40	1.850	0.400	2.200
1/18/2023 08:40:18	1.000	0.250	2.250
1/17/2023 09:51:42	0.550	0.150	1.550
1/13/2023 08:18:49	0.700	0.350	2.000
1/12/2023 08:58:54	0.950	0.150	1.550
1/11/2023 08:26:54	0.950	0.150	1.800
1/10/2023 09:03:33	0.600	0.250	2.050
1/9/2023 08:33:43	0.650	0.250	2.000
1/6/2023 09:09:20	1.000	0.250	2.250
1/5/2023 08:59:03	0.700	0.100	2.000
1/4/2023 09:22:57	0.850	0.200	2.250
1/3/2023 07:54:14	0.750	0.200	1.900
12/30/2022 12:03:44	0.800	0.200	1.400
12/30/2022 11:44:52	0.500	0.100	1.700
12/30/2022 08:53:04	0.600	0.100	1.850
12/30/2022 08:43:33	0.650	0.400	2.700
12/29/2022 09:51:14	1.300	0.350	2.050
12/28/2022 10:56:59	0.900	0.350	2.000
12/27/2022 11:51:09	1.350	0.150	1.800
12/22/2022 13:03:41	1.100	0.250	2.300
12/20/2022 10:03:57	1.050	0.300	2.650
12/15/2022 08:54:42	1.100	0.100	1.850

Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
12/14/2022 07:30:17	0.650	0.150	1.900
12/13/2022 08:19:58	0.850	0.250	2.000
12/12/2022 09:25:41	1.250	0.350	2.250
12/9/2022 07:32:14	1.000	0.300	1.650
12/7/2022 09:04:52	1.000	0.150	1.900
12/6/2022 09:40:47	1.100	0.550	2.250
12/5/2022 09:33:56	1.300	0.200	1.800
12/2/2022 08:43:06	1.250	0.100	1.650
12/1/2022 08:14:13	1.000	0.050	1.400
11/30/2022 09:05:47	1.150	0.250	2.650
11/29/2022 09:56:17	0.900	0.000	1.850
11/22/2022 08:57:48	1.400	0.150	2.850
11/21/2022 09:24:58	0.900	0.150	2.200
11/18/2022 08:02:10	1.350	0.100	2.300
11/17/2022 14:32:03	0.850	0.200	1.550
11/14/2022 13:14:56	1.000	0.100	1.800
11/11/2022 08:35:49	1.350	0.150	1.950
11/10/2022 10:24:53	1.000	0.150	1.950
11/9/2022 12:14:57	0.900	0.250	1.450
11/7/2022 10:37:58	1.300	0.300	2.500
11/7/2022 08:51:17	0.750	0.150	2.700
11/4/2022 09:20:34	1.150	0.250	1.950
11/3/2022 10:28:57	1.400	0.100	1.950
11/2/2022 08:32:00	0.850	0.100	2.250
11/1/2022 11:19:50	1.500	0.500	1.900
11/1/2022 11:02:36	0.850	0.450	1.850
10/31/2022 09:19:47	0.650	0.350	1.650
10/28/2022 09:14:48	0.800	0.050	2.350
10/27/2022 10:50:18	1.100	0.350	2.350
10/26/2022 11:02:54	1.000	0.100	2.600
10/19/2022 12:45:34	1.200	0.150	2.250
10/18/2022 09:12:59	0.800	0.300	2.300
10/13/2022 11:08:12	1.300	0.350	2.150
10/12/2022 09:54:30	1.200	0.300	2.000
10/11/2022 09:12:35	1.250	0.400	2.250
10/6/2022 10:34:09	1.100	0.100	1.950
9/30/2022 08:08:09	1.200	0.400	2.350
9/29/2022 08:44:14	0.800	0.000	2.200
9/28/2022 09:42:45	1.800	0.150	1.950
9/27/2022 08:29:24	1.350	0.250	1.750
9/26/2022 10:25:12	1.400	0.200	1.800

Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
9/23/2022 07:41:43	0.750	0.350	1.900
9/22/2022 11:03:47	1.550	0.350	2.550
9/21/2022 10:21:37	0.800	0.200	1.100
9/20/2022 12:23:56	0.750	0.200	1.550
9/15/2022 11:07:18	0.800	0.400	2.600
9/14/2022 09:29:39	1.050	0.150	2.900
9/13/2022 14:42:43	1.100	0.300	1.550
9/13/2022 08:12:52	1.550	0.450	2.300
9/12/2022 08:42:30	1.500	0.200	1.950
9/9/2022 09:45:48	1.300	0.300	2.050
9/8/2022 12:04:46	2.050	0.200	2.100
9/8/2022 11:48:01	1.000	0.050	1.900
9/8/2022 11:27:44	1.500	0.150	2.100
9/2/2022 07:38:00	1.350	0.050	2.250
9/1/2022 08:15:43	1.350	0.050	1.850
8/31/2022 07:49:17	0.800	0.200	1.700
8/30/2022 09:25:59	1.500	0.150	1.350
8/30/2022 09:00:54	0.900	0.000	0.750
8/25/2022 08:44:13	1.300	0.400	2.000
8/24/2022 08:11:08	0.850	0.100	1.500
8/22/2022 11:28:23	0.700	0.100	1.550
8/22/2022 08:02:13	1.350	0.300	1.050
8/19/2022 08:45:48	1.000	0.150	1.700
8/18/2022 08:00:38	1.650	0.450	2.500
8/17/2022 07:50:25	1.750	0.150	2.650
8/16/2022 08:11:19	1.350	0.300	2.400
8/15/2022 07:58:53	1.100	0.250	1.500
8/12/2022 07:30:34	1.750	0.150	3.000
8/11/2022 12:53:44	1.400	0.450	3.400
8/11/2022 08:29:41	1.850	0.250	2.850
8/10/2022 08:08:22	1.050	0.200	2.000
8/9/2022 08:36:25	1.000	0.200	2.000
8/9/2022 07:53:48	1.050	0.100	1.700
8/1/2022 09:30:01	1.050	0.300	1.750
8/1/2022 08:12:58	1.350	0.250	1.800
7/29/2022 07:24:42	1.300	0.250	2.450
7/28/2022 07:59:19	1.850	0.300	1.950
7/27/2022 08:17:37	1.600	0.250	2.600
7/26/2022 07:53:10	1.150	0.200	1.850
7/25/2022 09:48:29	1.800	0.450	1.850
6/30/2022 11:28:41	1.500	0.150	2.100

Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
6/3/2022 08:15:26	1.550	0.150	1.550
6/1/2022 09:09:25	1.250	0.150	1.050
5/31/2022 12:07:21	1.500	0.200	1.200
5/31/2022 11:56:36	1.250	0.150	1.100
5/26/2022 09:53:19	1.000	0.150	1.400
5/25/2022 11:34:00	1.450	0.050	1.350
5/25/2022 10:52:32	0.950	0.200	1.100

Tune Parameters

Created Date	Extract 1	Extract 2	Omega Bias
8/14/2023 10:53:46	0.0 V	-165.0 V	-80 V
8/11/2023 09:10:11	0.0 V	-170.0 V	-80 V
8/10/2023 09:51:40	0.0 V	-165.0 V	-80 V
8/9/2023 09:53:04	0.0 V	-160.0 V	-80 V
8/8/2023 09:51:14	0.0 V	-150.0 V	-80 V
8/7/2023 10:08:18	0.0 V	-140.0 V	-70 V
8/4/2023 09:09:07	0.0 V	-145.0 V	-70 V
8/4/2023 08:31:24	0.0 V	-170.0 V	-80 V
8/3/2023 09:42:16	0.0 V	-195.0 V	-90 V
8/2/2023 11:05:14	0.0 V	-200.0 V	-110 V
8/2/2023 10:28:09	0.0 V	-150.0 V	-80 V
8/2/2023 10:20:44	0.0 V	-185.0 V	-90 V
8/2/2023 10:16:57	0.0 V	-185.0 V	-90 V
8/2/2023 10:12:26	0.0 V	-185.0 V	-90 V
8/1/2023 09:44:17	0.0 V	-200.0 V	-120 V
7/31/2023 09:31:10	0.0 V	-150.0 V	-80 V
7/28/2023 09:28:15	0.0 V	-185.0 V	-90 V
7/27/2023 09:17:24	0.0 V	-185.0 V	-100 V
7/26/2023 10:24:37	0.0 V	-200.0 V	-100 V
7/25/2023 09:08:43	0.0 V	-200.0 V	-120 V
7/24/2023 09:25:55	0.0 V	-175.0 V	-90 V
7/21/2023 09:38:18	0.0 V	-170.0 V	-90 V
7/20/2023 09:50:16	0.0 V	-170.0 V	-90 V
7/19/2023 09:51:11	0.0 V	-165.0 V	-90 V
7/18/2023 10:02:58	0.0 V	-165.0 V	-80 V
7/17/2023 11:07:27	0.0 V	-195.0 V	-100 V
7/17/2023 09:51:07	0.0 V	-200.0 V	-100 V

Performance Report

Created Date	Extract 1	Extract 2	Omega Bias
7/14/2023 13:20:39	0.0 V	-200.0 V	-110 V
7/14/2023 13:13:20	0.0 V	-200.0 V	-110 V
7/14/2023 13:04:01	0.0 V	-200.0 V	-120 V
7/14/2023 12:49:03	0.0 V	-200.0 V	-120 V
7/14/2023 09:43:22	0.0 V	-195.0 V	-110 V
7/13/2023 17:06:49	0.0 V	-200.0 V	-100 V
7/13/2023 16:18:09	0.0 V	-200.0 V	-100 V
7/13/2023 13:12:33	0.0 V	-195.0 V	-110 V
7/12/2023 10:11:37	0.0 V	-190.0 V	-80 V
7/11/2023 10:12:22	0.0 V	-200.0 V	-80 V
7/11/2023 10:02:13	0.0 V	-185.0 V	-100 V
7/10/2023 10:27:11	0.0 V	-140.0 V	-70 V
7/7/2023 10:03:10	0.0 V	-170.0 V	-70 V
7/7/2023 09:53:18	0.0 V	-165.0 V	-70 V
7/6/2023 09:39:20	0.0 V	-145.0 V	-70 V
7/5/2023 09:21:22	0.0 V	-140.0 V	-70 V
7/3/2023 09:52:13	0.0 V	-170.0 V	-70 V
7/3/2023 09:30:59	0.0 V	-175.0 V	-70 V
6/30/2023 09:54:22	0.0 V	-200.0 V	-90 V
6/29/2023 09:42:14	0.0 V	-200.0 V	-90 V
6/28/2023 09:24:23	0.0 V	-200.0 V	-90 V
6/27/2023 09:21:37	0.0 V	-195.0 V	-90 V
6/26/2023 13:04:07	0.0 V	-180.0 V	-80 V
6/23/2023 09:35:05	0.0 V	-200.0 V	-80 V
6/22/2023 09:46:11	0.0 V	-195.0 V	-80 V
6/21/2023 09:51:51	0.0 V	-200.0 V	-80 V
6/20/2023 09:45:37	0.0 V	-195.0 V	-80 V
6/19/2023 09:55:02	0.0 V	-190.0 V	-80 V
6/16/2023 09:23:49	0.0 V	-200.0 V	-90 V
6/15/2023 09:47:30	0.0 V	-200.0 V	-90 V
6/14/2023 09:16:14	0.0 V	-200.0 V	-80 V
6/13/2023 09:49:15	0.0 V	-200.0 V	-80 V
6/12/2023 11:34:15	0.0 V	-195.0 V	-80 V
6/12/2023 09:54:55	0.0 V	-185.0 V	-80 V
6/9/2023 12:39:33	0.0 V	-200.0 V	-90 V
6/9/2023 09:23:31	0.0 V	-200.0 V	-80 V
6/8/2023 10:16:31	0.0 V	-200.0 V	-90 V
6/7/2023 09:48:23	0.0 V	-200.0 V	-90 V
6/6/2023 09:46:41	0.0 V	-200.0 V	-90 V
6/5/2023 09:22:56	0.0 V	-200.0 V	-90 V
6/2/2023 09:34:45	0.0 V	-200.0 V	-100 V

Performance Report

Created Date	Extract 1	Extract 2	Omega Bias
6/1/2023 09:48:17	0.0 V	-180.0 V	-80 V
5/31/2023 09:40:40	0.0 V	-180.0 V	-70 V
5/30/2023 09:32:39	0.0 V	-160.0 V	-70 V
5/26/2023 12:43:13	0.0 V	-195.0 V	-80 V
5/26/2023 12:35:21	0.0 V	-200.0 V	-80 V
5/26/2023 12:24:37	0.0 V	-200.0 V	-90 V
5/26/2023 12:20:08	0.0 V	-200.0 V	-90 V
5/26/2023 12:15:41	0.0 V	-200.0 V	-90 V
5/26/2023 09:21:24	0.0 V	-200.0 V	-90 V
5/25/2023 09:20:09	0.0 V	-200.0 V	-90 V
5/24/2023 12:08:16	0.0 V	-200.0 V	-90 V
5/24/2023 09:30:58	0.0 V	-200.0 V	-90 V
5/23/2023 10:10:03	0.0 V	-195.0 V	-90 V
5/22/2023 10:18:03	0.0 V	-200.0 V	-90 V
5/19/2023 09:10:18	0.0 V	-200.0 V	-90 V
5/18/2023 10:26:22	0.0 V	-200.0 V	-90 V
5/17/2023 09:16:47	0.0 V	-200.0 V	-90 V
5/16/2023 09:59:27	0.0 V	-200.0 V	-90 V
5/15/2023 10:01:28	0.0 V	-200.0 V	-80 V
5/12/2023 09:47:09	0.0 V	-190.0 V	-80 V
5/11/2023 09:16:07	0.0 V	-195.0 V	-80 V
5/10/2023 09:42:50	0.0 V	-175.0 V	-80 V
5/9/2023 09:27:44	0.0 V	-175.0 V	-70 V
5/8/2023 09:26:50	0.0 V	-200.0 V	-90 V
5/5/2023 09:05:22	0.0 V	-200.0 V	-100 V
5/4/2023 10:18:52	0.0 V	-200.0 V	-110 V
5/4/2023 09:42:19	0.0 V	-175.0 V	-80 V
5/3/2023 09:25:16	0.0 V	-175.0 V	-80 V
5/2/2023 14:32:57	0.0 V	-170.0 V	-80 V
5/2/2023 11:11:55	0.0 V	-175.0 V	-80 V
5/2/2023 10:06:56	0.0 V	-175.0 V	-80 V
5/2/2023 09:20:27	0.0 V	-180.0 V	-80 V
5/1/2023 08:58:25	0.0 V	-190.0 V	-80 V
4/28/2023 15:08:06	0.0 V	-185.0 V	-80 V
4/28/2023 11:06:46	0.0 V	-195.0 V	-80 V
4/28/2023 09:28:29	0.0 V	-175.0 V	-90 V
4/27/2023 09:00:22	0.0 V	-195.0 V	-90 V
4/26/2023 08:49:33	0.0 V	-195.0 V	-80 V
4/25/2023 10:22:10	0.0 V	-190.0 V	-80 V
4/24/2023 08:55:03	0.0 V	-170.0 V	-80 V
4/21/2023 12:21:05	0.0 V	-165.0 V	-80 V

Performance Report

Created Date	Extract 1	Extract 2	Omega Bias
4/21/2023 11:08:42	0.0 V	-175.0 V	-80 V
4/21/2023 08:53:22	0.0 V	-165.0 V	-80 V
4/20/2023 09:37:29	0.0 V	-175.0 V	-80 V
4/19/2023 17:09:43	0.0 V	-185.0 V	-80 V
4/19/2023 15:46:38	0.0 V	-185.0 V	-80 V
4/19/2023 14:35:32	0.0 V	-180.0 V	-80 V
4/19/2023 13:54:58	0.0 V	-185.0 V	-80 V
4/19/2023 09:45:34	0.0 V	-180.0 V	-80 V
4/18/2023 09:17:03	0.0 V	-190.0 V	-80 V
4/17/2023 10:23:48	0.0 V	-170.0 V	-70 V
4/17/2023 10:00:25	0.0 V	-190.0 V	-80 V
4/14/2023 08:59:17	0.0 V	-200.0 V	-90 V
4/13/2023 09:01:53	0.0 V	-190.0 V	-90 V
4/12/2023 08:48:04	0.0 V	-200.0 V	-90 V
4/11/2023 14:04:25	0.0 V	-185.0 V	-80 V
4/11/2023 11:58:48	0.0 V	-185.0 V	-80 V
4/11/2023 09:06:40	0.0 V	-200.0 V	-80 V
4/10/2023 10:37:44	0.0 V	-155.0 V	-70 V
4/10/2023 10:22:12	0.0 V	-175.0 V	-80 V
4/10/2023 09:55:11	0.0 V	-175.0 V	-80 V
4/10/2023 09:40:08	0.0 V	-170.0 V	-80 V
4/7/2023 09:12:03	0.0 V	-170.0 V	-80 V
4/6/2023 09:29:25	0.0 V	-175.0 V	-80 V
4/5/2023 12:01:25	0.0 V	-170.0 V	-80 V
4/4/2023 09:25:41	0.0 V	-175.0 V	-80 V
4/4/2023 09:16:16	0.0 V	-175.0 V	-80 V
4/3/2023 10:44:46	0.0 V	-190.0 V	-80 V
3/31/2023 13:01:29	0.0 V	-185.0 V	-80 V
3/31/2023 09:26:11	0.0 V	-175.0 V	-80 V
3/30/2023 09:11:37	0.0 V	-195.0 V	-80 V
3/30/2023 09:01:02	0.0 V	-195.0 V	-80 V
3/29/2023 09:27:41	0.0 V	-195.0 V	-80 V
3/28/2023 09:13:20	0.0 V	-175.0 V	-80 V
3/27/2023 09:16:40	0.0 V	-185.0 V	-80 V
3/24/2023 09:19:12	0.0 V	-190.0 V	-80 V
3/23/2023 10:30:11	0.0 V	-190.0 V	-80 V
3/22/2023 09:09:24	0.0 V	-185.0 V	-70 V
3/21/2023 11:29:57	0.0 V	-175.0 V	-80 V
3/20/2023 15:01:09	0.0 V	-195.0 V	-80 V
3/20/2023 14:56:00	0.0 V	-195.0 V	-80 V
3/20/2023 14:34:11	0.0 V	-200.0 V	-80 V

Performance Report

Created Date	Extract 1	Extract 2	Omega Bias
3/20/2023 11:10:11	0.0 V	-200.0 V	-90 V
3/17/2023 09:15:52	0.0 V	-200.0 V	-90 V
3/16/2023 10:04:21	0.0 V	-200.0 V	-80 V
3/15/2023 08:50:05	0.0 V	-195.0 V	-70 V
3/14/2023 09:23:23	0.0 V	-185.0 V	-70 V
3/13/2023 09:02:28	0.0 V	-195.0 V	-70 V
3/10/2023 09:50:25	0.0 V	-195.0 V	-80 V
3/9/2023 10:05:54	0.0 V	-200.0 V	-80 V
3/8/2023 13:14:50	0.0 V	-200.0 V	-80 V
3/7/2023 10:34:30	0.0 V	-200.0 V	-80 V
3/6/2023 10:45:07	0.0 V	-200.0 V	-80 V
3/3/2023 08:01:46	0.0 V	-200.0 V	-80 V
3/2/2023 09:47:36	0.0 V	-200.0 V	-80 V
3/1/2023 08:51:22	0.0 V	-200.0 V	-80 V
2/28/2023 09:34:23	0.0 V	-195.0 V	-80 V
2/27/2023 14:30:30	0.0 V	-200.0 V	-80 V
2/27/2023 11:22:50	0.0 V	-170.0 V	-80 V
2/27/2023 10:51:56	0.0 V	-170.0 V	-80 V
2/27/2023 10:44:59	0.0 V	-170.0 V	-80 V
2/24/2023 16:23:45	0.0 V	-185.0 V	-80 V
2/24/2023 16:07:57	0.0 V	-185.0 V	-80 V
2/23/2023 08:54:28	0.0 V	-185.0 V	-80 V
2/22/2023 08:37:14	0.0 V	-200.0 V	-80 V
2/21/2023 10:21:12	0.0 V	-195.0 V	-80 V
2/20/2023 08:52:02	0.0 V	-195.0 V	-80 V
2/17/2023 08:36:41	0.0 V	-200.0 V	-90 V
2/16/2023 08:44:34	0.0 V	-200.0 V	-90 V
2/15/2023 12:26:22	0.0 V	-180.0 V	-90 V
2/14/2023 13:04:03	0.0 V	-190.0 V	-80 V
2/13/2023 11:40:00	0.0 V	-200.0 V	-80 V
2/10/2023 10:01:05	0.0 V	-195.0 V	-80 V
2/9/2023 11:28:46	0.0 V	-200.0 V	-80 V
2/8/2023 08:23:24	0.0 V	-200.0 V	-90 V
2/7/2023 11:36:23	0.0 V	-200.0 V	-90 V
2/6/2023 12:36:01	0.0 V	-200.0 V	-100 V
2/3/2023 08:20:53	0.0 V	-200.0 V	-90 V
2/2/2023 07:55:34	0.0 V	-200.0 V	-90 V
2/1/2023 07:42:39	0.0 V	-195.0 V	-90 V
1/31/2023 09:19:32	0.0 V	-175.0 V	-90 V
1/30/2023 10:17:02	0.0 V	-200.0 V	-90 V
1/27/2023 08:15:42	0.0 V	-195.0 V	-90 V

Performance Report

Created Date	Extract 1	Extract 2	Omega Bias
1/26/2023 08:18:20	0.0 V	-200.0 V	-80 V
1/25/2023 09:02:42	0.0 V	-195.0 V	-90 V
1/24/2023 08:45:18	0.0 V	-200.0 V	-80 V
1/23/2023 07:54:12	0.0 V	-200.0 V	-80 V
1/20/2023 07:43:21	0.0 V	-195.0 V	-90 V
1/19/2023 08:47:40	0.0 V	-200.0 V	-90 V
1/18/2023 08:40:18	0.0 V	-200.0 V	-80 V
1/17/2023 09:51:42	0.0 V	-170.0 V	-80 V
1/13/2023 08:18:49	0.0 V	-200.0 V	-80 V
1/12/2023 08:58:54	0.0 V	-195.0 V	-80 V
1/11/2023 08:26:54	0.0 V	-200.0 V	-80 V
1/10/2023 09:03:33	0.0 V	-195.0 V	-80 V
1/9/2023 08:33:43	0.0 V	-195.0 V	-90 V
1/6/2023 09:09:20	0.0 V	-200.0 V	-80 V
1/5/2023 08:59:03	0.0 V	-200.0 V	-80 V
1/4/2023 09:22:57	0.0 V	-200.0 V	-90 V
1/3/2023 07:54:14	0.0 V	-190.0 V	-80 V
12/30/2022 12:03:44	0.0 V	-195.0 V	-80 V
12/30/2022 11:44:52	0.0 V	-195.0 V	-80 V
12/30/2022 08:53:04	0.0 V	-195.0 V	-80 V
12/30/2022 08:43:33	0.0 V	-195.0 V	-80 V
12/29/2022 09:51:14	0.0 V	-200.0 V	-80 V
12/28/2022 10:56:59	0.0 V	-200.0 V	-90 V
12/27/2022 11:51:09	0.0 V	-195.0 V	-80 V
12/22/2022 13:03:41	0.0 V	-200.0 V	-90 V
12/20/2022 10:03:57	0.0 V	-200.0 V	-90 V
12/15/2022 08:54:42	0.0 V	-200.0 V	-90 V
12/14/2022 07:30:17	0.0 V	-200.0 V	-80 V
12/13/2022 08:19:58	0.0 V	-200.0 V	-90 V
12/12/2022 09:25:41	0.0 V	-200.0 V	-90 V
12/9/2022 07:32:14	0.0 V	-185.0 V	-90 V
12/7/2022 09:04:52	0.0 V	-200.0 V	-80 V
12/6/2022 09:40:47	0.0 V	-200.0 V	-90 V
12/5/2022 09:33:56	0.0 V	-200.0 V	-90 V
12/2/2022 08:43:06	0.0 V	-200.0 V	-90 V
12/1/2022 08:14:13	0.0 V	-200.0 V	-90 V
11/30/2022 09:05:47	0.0 V	-200.0 V	-90 V
11/29/2022 09:56:17	0.0 V	-190.0 V	-80 V
11/22/2022 08:57:48	0.0 V	-200.0 V	-80 V
11/21/2022 09:24:58	0.0 V	-200.0 V	-80 V
11/18/2022 08:02:10	0.0 V	-200.0 V	-90 V

Performance Report

Created Date	Extract 1	Extract 2	Omega Bias
11/17/2022 14:32:03	0.0 V	-195.0 V	-90 V
11/14/2022 13:14:56	0.0 V	-180.0 V	-90 V
11/11/2022 08:35:49	0.0 V	-195.0 V	-90 V
11/10/2022 10:24:53	0.0 V	-185.0 V	-80 V
11/9/2022 12:14:57	0.0 V	-185.0 V	-70 V
11/7/2022 10:37:58	0.0 V	-200.0 V	-80 V
11/7/2022 08:51:17	0.0 V	-200.0 V	-110 V
11/4/2022 09:20:34	0.0 V	-200.0 V	-110 V
11/3/2022 10:28:57	0.0 V	-200.0 V	-120 V
11/2/2022 08:32:00	0.0 V	-200.0 V	-120 V
11/1/2022 11:19:50	0.0 V	-200.0 V	-120 V
11/1/2022 11:02:36	0.0 V	-200.0 V	-120 V
10/31/2022 09:19:47	0.0 V	-200.0 V	-120 V
10/28/2022 09:14:48	0.0 V	-200.0 V	-120 V
10/27/2022 10:50:18	0.0 V	-200.0 V	-120 V
10/26/2022 11:02:54	0.0 V	-200.0 V	-120 V
10/19/2022 12:45:34	0.0 V	-200.0 V	-120 V
10/18/2022 09:12:59	0.0 V	-200.0 V	-120 V
10/13/2022 11:08:12	0.0 V	-200.0 V	-120 V
10/12/2022 09:54:30	0.0 V	-200.0 V	-120 V
10/11/2022 09:12:35	0.0 V	-200.0 V	-110 V
10/6/2022 10:34:09	0.0 V	-195.0 V	-100 V
9/30/2022 08:08:09	0.0 V	-195.0 V	-100 V
9/29/2022 08:44:14	0.0 V	-195.0 V	-100 V
9/28/2022 09:42:45	0.0 V	-195.0 V	-100 V
9/27/2022 08:29:24	0.0 V	-195.0 V	-100 V
9/26/2022 10:25:12	0.0 V	-195.0 V	-100 V
9/23/2022 07:41:43	0.0 V	-195.0 V	-100 V
9/22/2022 11:03:47	0.0 V	-195.0 V	-100 V
9/21/2022 10:21:37	0.0 V	-195.0 V	-100 V
9/20/2022 12:23:56	0.0 V	-195.0 V	-100 V
9/15/2022 11:07:18	0.0 V	-195.0 V	-100 V
9/14/2022 09:29:39	0.0 V	-200.0 V	-80 V
9/13/2022 14:42:43	0.0 V	-200.0 V	-80 V
9/13/2022 08:12:52	0.0 V	-195.0 V	-80 V
9/12/2022 08:42:30	0.0 V	-190.0 V	-80 V
9/9/2022 09:45:48	0.0 V	-200.0 V	-80 V
9/8/2022 12:04:46	0.0 V	-200.0 V	-80 V
9/8/2022 11:48:01	0.0 V	-200.0 V	-70 V
9/8/2022 11:27:44	0.0 V	-200.0 V	-70 V
9/2/2022 07:38:00	0.0 V	-200.0 V	-80 V

Performance Report

Created Date	Extract 1	Extract 2	Omega Bias
9/1/2022 08:15:43	0.0 V	-200.0 V	-80 V
8/31/2022 07:49:17	0.0 V	-200.0 V	-80 V
8/30/2022 09:25:59	0.0 V	-200.0 V	-80 V
8/30/2022 09:00:54	0.0 V	-200.0 V	-90 V
8/25/2022 08:44:13	0.0 V	-200.0 V	-90 V
8/24/2022 08:11:08	0.0 V	-200.0 V	-90 V
8/22/2022 11:28:23	0.0 V	-200.0 V	-80 V
8/22/2022 08:02:13	0.0 V	-200.0 V	-80 V
8/19/2022 08:45:48	0.0 V	-200.0 V	-80 V
8/18/2022 08:00:38	0.0 V	-200.0 V	-80 V
8/17/2022 07:50:25	0.0 V	-200.0 V	-80 V
8/16/2022 08:11:19	0.0 V	-200.0 V	-80 V
8/15/2022 07:58:53	0.0 V	-200.0 V	-80 V
8/12/2022 07:30:34	0.0 V	-200.0 V	-80 V
8/11/2022 12:53:44	0.0 V	-200.0 V	-80 V
8/11/2022 08:29:41	0.0 V	-200.0 V	-80 V
8/10/2022 08:08:22	0.0 V	-200.0 V	-70 V
8/9/2022 08:36:25	0.0 V	-200.0 V	-80 V
8/9/2022 07:53:48	0.0 V	-200.0 V	-80 V
8/1/2022 09:30:01	0.0 V	-200.0 V	-80 V
8/1/2022 08:12:58	0.0 V	-200.0 V	-80 V
7/29/2022 07:24:42	0.0 V	-200.0 V	-80 V
7/28/2022 07:59:19	0.0 V	-200.0 V	-80 V
7/27/2022 08:17:37	0.0 V	-200.0 V	-90 V
7/26/2022 07:53:10	0.0 V	-200.0 V	-90 V
7/25/2022 09:48:29	0.0 V	-195.0 V	-90 V
6/30/2022 11:28:41	0.0 V	-200.0 V	-90 V
6/3/2022 08:15:26	0.0 V	-200.0 V	-90 V
6/1/2022 09:09:25	0.0 V	-195.0 V	-90 V
5/31/2022 12:07:21	0.0 V	-200.0 V	-90 V
5/31/2022 11:56:36	0.0 V	-200.0 V	-90 V
5/26/2022 09:53:19	0.0 V	-200.0 V	-110 V
5/25/2022 11:34:00	0.0 V	-200.0 V	-100 V
5/25/2022 10:52:32	0.0 V	-200.0 V	-100 V

US EPA Tune Check Report

Operator Name ICPMS
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\081423JRa.b
Acq. Date-Time 8/14/2023 12:33:46
Report Comment ---
Instrument Name G8422A SG22151236

[No Gas]

Sensitivity

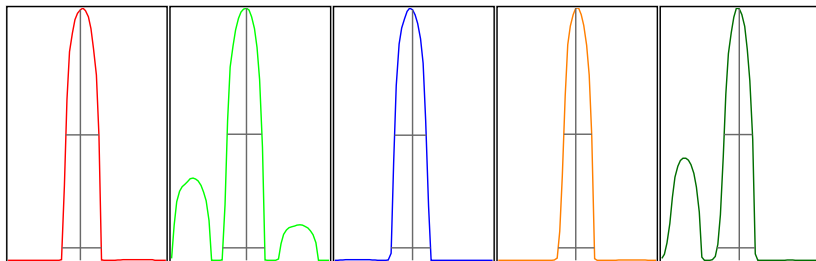
Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/(ug/l)]	Resp (Flag)	RSD%	RSD% (Required)
9	10.00	2199	21991.82			1.257	5.000
24	10.00	8934	89335.55			0.723	5.000
59	10.00	25254	252537.01			0.519	5.000
115	10.00	44729	447288.30			0.770	5.000
208	10.00	27604	276039.47			0.907	5.000

Mass	RSD% (Flag)
9	
24	
59	
115	
208	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	2219	2156	2222	2188	2211
24	8856	8917	8899	8976	9020
59	25351	25024	25291	25323	25280
115	45231	44871	44337	44694	44511
208	27764	27231	27833	27467	27725

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	3722.34	8.90	8.90 - 9.10	
24	14541.96	23.95	23.90 - 24.10	
59	44456.08	59.00	58.90 - 59.10	
115	89097.04	115.00	114.90 - 115.10	
208	54400.64	208.00	207.90 - 208.10	

US EPA Tune Check Report

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.62	0.737	0.900	
24	0.65	0.783	0.900	
59	0.59	0.735	0.900	
115	0.52	0.676	0.900	
208	0.53	0.711	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 153.699999999999
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.70 L/min	Makeup Gas	0.50 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	5.2 V	Deflect	11.0 V
Extract 2	-20.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-14 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	0.0 mL/min	OctP RF	190 V		

QP Parameters

Mass Gain	123	Axis Gain	0.9993	QP Bias	-3.0 V
Mass Offset	125	Axis Offset	0.00		

Hardware Settings

Torch

Torch H	0.0 mm	Torch V	0.6 mm
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EM

Discriminator	3.1 mV	Analog HV	2150 V	Pulse HV	1235 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/(ug/l)]	Resp (Flag)	RSD%	RSD% (Required)
24	10.00	3592	35921.53			0.767	5.000
59	10.00	72563	725627.68			1.060	5.000
115	10.00	121180	1211799.09			0.858	5.000
208	10.00	130177	1301770.43			1.375	5.000

Mass	RSD% (Flag)
24	
59	

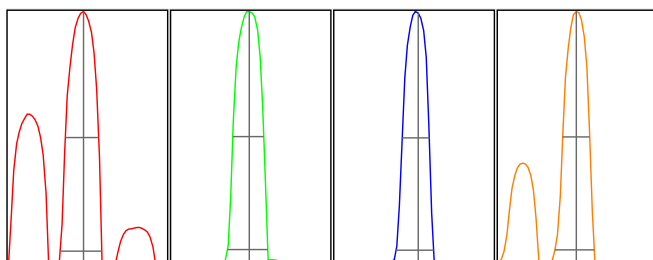
US EPA Tune Check Report

Mass	RSD% (Flag)
115	
208	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
24	3555	3584	3584	3628	3609
59	72482	72122	72474	71875	73861
115	119569	121836	120753	121586	122155
208	132543	127887	129216	130042	131197

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
24	6106.57	23.95	23.90 - 24.10	
59	128908.11	59.00	58.90 - 59.10	
115	243913.68	115.10	114.90 - 115.10	
208	261778.27	208.00	207.90 - 208.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
24	0.62	0.778	0.900	
59	0.58	0.755	0.900	
115	0.51	0.703	0.900	
208	0.51	0.738	0.900	

Integration Time [sec] 0.1

Acquisition Time [sec] 122.96

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.70 L/min	Makeup Gas	0.35 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	7.8 V	Deflect	-1.8 V
Extract 2	-135.0 V	Cell Entrance	-40 V	Plate Bias	-55 V
Omega Bias	-75 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	3.0 V
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US EPA Tune Check Report

He Flow	4.3 mL/min	OctP Bias	-18.0 V
H2 Flow	0.0 mL/min	OctP RF	200 V

QP Parameters

Mass Gain	123	Axis Gain	0.9993	QP Bias	-15.0 V
Mass Offset	125	Axis Offset	0.00		

Hardware Settings

Torch

Torch H	0.0 mm	Torch V	0.6 mm
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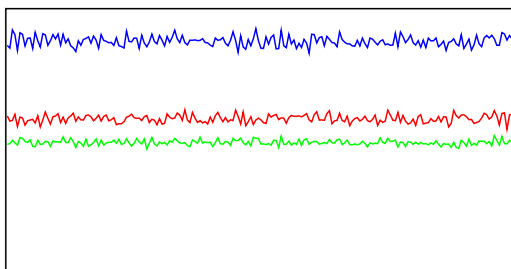
EM

Discriminator	3.1 mV	Analog HV	2150 V	Pulse HV	1235 V
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Performance Report

Operator Name ICPMS
Acq. Date-Time 8/23/2023 10:01:02
Instrument Name G8422A SG22151236
Sample Introduction PeriPump
Nebulizer Type MicroMist
Ion Lens Model x-Lens
Tune Parameters Standard Tune

Sensitivity



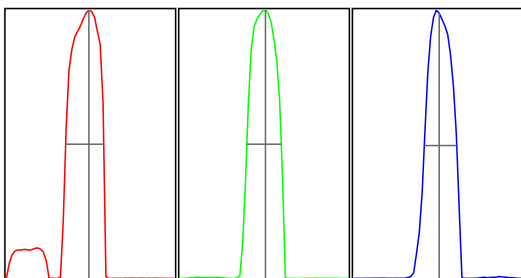
Mass	Range	Count	RSD%	Background
7	5000	2928	2.517	0.650
89	20000	9894	2.019	0.550
205	10000	8815	2.170	2.200

Sampling Period [sec] 0.311
 Integration Time [sec] 0.1

Oxide/Doubly Charged Ratio

Oxide 156 / 140 1.225 %
 Doubly Charged 70 / 140 0.781 %

Resolution/Axis



Mass	Peak Height	Axis	W-50%	W-10%
7	2915.56	7.00	0.67	0.77
89	9772.58	89.05	0.61	0.75
205	8817.19	205.05	0.57	0.78

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.74

Tune Parameters

Plasma Parameters

RF Power	1550 W	Option Gas	---	Makeup Gas	0.00 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Auxiliary Gas	0.90 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C	Plasma Gas	15.0 L/min
Nebulizer Gas	1.07 L/min				

Lens Parameters

Extract 1	0.0 V	Omega Lens	8.8 V	Deflect	12.8 V
Extract 2	-155.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-80 V	Cell Exit	-50 V		

Performance Report

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	0.0 mL/min	OctP RF	200 V		

QP Parameters

QP Bias	-3.0 V
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Hardware Settings

Torch

Torch H	0.1 mm	Torch H (Hot)	---	Torch H (Cool)	---
Torch V	0.6 mm	Torch V (Hot)	---	Torch V (Cool)	---

Plasma Correction

Nebulizer Gas Offset	0.02 L/min	Makeup Gas (Hot)	---	Makeup Gas (Cool)	---
		Sample Depth (Hot)	---		

Resolution/Axis

Mass Gain	123	Axis Gain	0.9996
Mass Offset	125	Axis Offset	0.01

EM

Discriminator	3.1 mV	Analog HV	2150 V	Pulse HV	1235 V
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Performance Report

Meter

Name	Value	Unit
Nebulizer Gas	1.07	L/min
MU./Dil. Gas	0.00	L/min
Plasma Gas	14.97	L/min
Aux Gas	0.90	L/min
Ar Gas Tank Press	5.79E+2	kPa
+5V (Press Gage)	5.0	V
Ar AMFC Temp	28.5	°C
Nebulizer Gas(DP)	6.20E+0	kPa
MU./Dil. Gas(DP)	-2.01E-1	kPa
Aux Gas(DP)	1.07E+1	kPa
Plasma Gas(DP)	1.16E+1	kPa
Nebulizer Gas(BP)	2.57E+2	kPa
MU./Dil. Gas(BP)	0.00E+0	kPa
Aux Gas(BP)	5.93E+1	kPa
Plasma Gas(BP)	4.28E+1	kPa
S/C Temp (H)	21.2	°C
S/C Temp (L)	2.0	°C
Peltier Voltage	3.6	V
IF/BK Press	2.46E+2	Pa
Analyzer Press	4.80E-5	Pa
IG HV	178	V
IG Emission	4.97	µA
TMP Revolution	100.0	%
TMP Rev (Raw)	100.8	%
TMP Current	2.88	A
PWR AMP Drain I	0.3	A
PWR AMP Bias	4.06	V
OctP RF (Avg)	202.9	V
OctP RF Set	3.9	V
OctP FET Bias Set	3.95	V
OctP RF(+)	177.8	V
OctP RF(-)	226.7	V
OctP Bias	-7.9	V
Cell Temp.	65.0	°C
Cell Heater Volt.	4.3	V
+U Voltage	176.2	V

Name	Value	Unit
-U Voltage	-182.3	V
V Voltage	783.9	V
QPRF Fader	0.5	V
Pickup Temp	55.0	°C
PWR Amp Temp	0.1	V
+600V	620.9	V
-120V	-133.2	V
-720V	-741.7	V
Prefilter Bias	-5.04	V
Pickup Heater I	0.10	A
QP PS +48V	47.5	V
QP PS +48V I	0.00	A
Analog HV	-2168	V
Pulse HV	1246	V
EM Gate	-36.0	V
Pulse Gate	254.8	V
EM Entrance	0.1	V
EM HV Gain	-776.7	V
Inner Pole	-300.0	V
Outer Pole	19.9	V
Analog -5V	-5.1	V
Analog +15V	14.5	V
Analog -15V	-14.4	V
Analog +5V	5.2	V
Shunt C Pos	1.5	V
Drain Volt.(max)	60.2	V
RF PS +48V	47.2	V
Forward Power	1550	W
Reflected Power	2	W
Plasma Freq.	27.06	MHz
Drain I 1	11.63	A
Drain I 2	10.57	A
Drain I 3	10.91	A
Drain I 4	11.51	A
Temp Sensor	2.7	V
Driver I	5.95	A

Name	Value	Unit
Igniter	0.1	V
Driver Voltage Set	6.9	V
Unbalance Current	0.34	A
PWM Threshold Set	0.2	V
Driver Voltage	5.5	V
PWM Threshold	0.2	V
Phase Detector	2.0	mV
H2 Gas	0.00	mL/min
He Gas	0.12	mL/min
H2 Gas Press	1.69E+2	kPa
He Gas Press	0.00E+0	kPa
ORS AMFC Temp	29.0	°C
Atmospheric Press	1.02E+2	kPa
Extract 1	0.0	V
Extract 2	-155.0	V
Omega Bias	-80.0	V
Omega Lens	8.9	V
Cell Entrance	-30.0	V
Cell Exit	-50.0	V
Deflect	12.8	V
Plate Bias	-35.1	V
HV+530V	531	V
HV+240V	238	V
HV-360V	-360	V
Inlet Temp	25.8	°C
Internal Temp	33.7	°C
+24V	23.7	V
Water Temp	22.7	°C
Water RF/WC/IF	1.45	L/min
ISIS 3 Pump Speed	0.0	%
Valve Position		
Tune/ISTD Valve		

Performance Report History

Sensitivity

Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
8/23/2023 10:01:02	2928	9894	8815
8/22/2023 09:47:02	3196	10441	8855
8/21/2023 10:05:10	2791	9560	8720
8/18/2023 09:56:29	2863	9911	9020
8/17/2023 09:33:17	2913	10078	9235
8/16/2023 09:54:23	3123	10207	8906
8/15/2023 09:06:47	3081	10243	8944
8/14/2023 10:53:46	3322	10287	8673
8/11/2023 09:10:11	3100	10818	9115
8/10/2023 09:51:40	3182	11284	9030
8/9/2023 09:53:04	3447	11730	9236
8/8/2023 09:51:14	3413	11684	8693
8/7/2023 10:08:18	3581	12638	9159
8/4/2023 09:09:07	3390	12195	8541
8/4/2023 08:31:24	3746	12441	9586
8/3/2023 09:42:16	2946	10912	9810
8/2/2023 11:05:14	2364	8830	8876
8/2/2023 10:28:09	1722	4847	4950
8/2/2023 10:20:44	1323	3986	4235
8/2/2023 10:16:57	1468	4492	4538
8/2/2023 10:12:26	795	2492	2354
8/1/2023 09:44:17	2203	9736	8354
7/31/2023 09:31:10	2725	10837	8929
7/28/2023 09:28:15	2574	11992	10910
7/27/2023 09:17:24	2638	11942	10885
7/26/2023 10:24:37	2628	12086	10721
7/25/2023 09:08:43	2645	13109	12010
7/24/2023 09:25:55	2866	13213	12584
7/21/2023 09:38:18	3045	12777	11213
7/20/2023 09:50:16	3015	13608	11979
7/19/2023 09:51:11	2972	13534	11794
7/18/2023 10:02:58	2480	9926	8625
7/17/2023 11:07:27	3529	15060	11733
7/17/2023 09:51:07	3312	15288	13391
7/14/2023 13:20:39	2401	9970	8567
7/14/2023 13:13:20	858	3455	3011
7/14/2023 13:04:01	35	15	30
7/14/2023 12:49:03	1150	4213	3169
7/14/2023 09:43:22	3304	13648	12348
7/13/2023 17:06:49	3012	11414	10194
7/13/2023 16:18:09	2955	11378	10283

Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
7/13/2023 13:12:33	2347	9669	10238
7/12/2023 10:11:37	3266	14662	11672
7/11/2023 10:12:22	3435	14541	11159
7/11/2023 10:02:13	1682	4632	2699
7/10/2023 10:27:11	3998	13300	6429
7/7/2023 10:03:10	3562	15900	10842
7/7/2023 09:53:18	3887	15915	9865
7/6/2023 09:39:20	3915	15094	8706
7/5/2023 09:21:22	3530	13882	7836
7/3/2023 09:52:13	3101	14414	11001
7/3/2023 09:30:59	2325	8553	5822
6/30/2023 09:54:22	3674	15262	10933
6/29/2023 09:42:14	3257	14111	11174
6/28/2023 09:24:23	3603	14430	11195
6/27/2023 09:21:37	3474	14301	11162
6/26/2023 13:04:07	2984	13198	10818
6/23/2023 09:35:05	4548	13496	8799
6/22/2023 09:46:11	3987	12820	9360
6/21/2023 09:51:51	4030	13146	9814
6/20/2023 09:45:37	4312	13311	10018
6/19/2023 09:55:02	4181	12573	9901
6/16/2023 09:23:49	4267	13074	9801
6/15/2023 09:47:30	4629	12970	9475
6/14/2023 09:16:14	3934	12479	10197
6/13/2023 09:49:15	4567	13183	10070
6/12/2023 11:34:15	4144	12001	9698
6/12/2023 09:54:55	3392	10831	10127
6/9/2023 12:39:33	3926	15367	11134
6/9/2023 09:23:31	3672	15849	11841
6/8/2023 10:16:31	4083	16245	11759
6/7/2023 09:48:23	3788	15983	11493
6/6/2023 09:46:41	4195	16624	10957
6/5/2023 09:22:56	3853	16849	11906
6/2/2023 09:34:45	3243	12651	7710
6/1/2023 09:48:17	4008	16726	11170
5/31/2023 09:40:40	3604	17615	11865
5/30/2023 09:32:39	4046	17790	11322
5/26/2023 12:43:13	3927	16239	12218
5/26/2023 12:35:21	761	3406	2008
5/26/2023 12:24:37	184	549	395
5/26/2023 12:20:08	554	1783	1426

Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
5/26/2023 12:15:41	745	2452	1922
5/26/2023 09:21:24	4039	16585	12317
5/25/2023 09:20:09	4040	16615	11868
5/24/2023 12:08:16	4075	16656	11488
5/24/2023 09:30:58	4357	17430	11641
5/23/2023 10:10:03	4128	14901	12444
5/22/2023 10:18:03	3703	16482	11595
5/19/2023 09:10:18	3614	16447	11473
5/18/2023 10:26:22	3977	16258	11430
5/17/2023 09:16:47	3878	16266	12092
5/16/2023 09:59:27	4248	16604	11458
5/15/2023 10:01:28	3608	15995	12083
5/12/2023 09:47:09	3710	14725	12670
5/11/2023 09:16:07	3615	16694	11489
5/10/2023 09:42:50	3643	16651	11072
5/9/2023 09:27:44	3049	13792	9652
5/8/2023 09:26:50	4462	18082	11483
5/5/2023 09:05:22	4399	16357	12967
5/4/2023 10:18:52	5492	15573	10604
5/4/2023 09:42:19	3329	10245	9107
5/3/2023 09:25:16	3021	11228	9134
5/2/2023 14:32:57	3253	10925	8420
5/2/2023 11:11:55	3007	10527	8496
5/2/2023 10:06:56	2763	10198	8556
5/2/2023 09:20:27	1757	4748	3682
5/1/2023 08:58:25	3835	14776	11277
4/28/2023 15:08:06	3400	12379	10252
4/28/2023 11:06:46	3035	12513	11008
4/28/2023 09:28:29	2667	9198	8023
4/27/2023 09:00:22	4967	15984	10961
4/26/2023 08:49:33	3812	15401	12317
4/25/2023 10:22:10	3613	13723	11649
4/24/2023 08:55:03	3223	11437	9245
4/21/2023 12:21:05	2309	8904	8075
4/21/2023 11:08:42	3585	13031	10380
4/21/2023 08:53:22	3675	12662	9407
4/20/2023 09:37:29	3414	12407	9925
4/19/2023 17:09:43	3618	12571	9512
4/19/2023 15:46:38	3448	13274	10340
4/19/2023 14:35:32	3462	12482	9880
4/19/2023 13:54:58	3220	11909	9076

Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
4/19/2023 09:45:34	3711	13588	10208
4/18/2023 09:17:03	4001	15807	11823
4/17/2023 10:23:48	2878	11093	9732
4/17/2023 10:00:25	2905	10987	9354
4/14/2023 08:59:17	3797	14951	12432
4/13/2023 09:01:53	4318	14773	11319
4/12/2023 08:48:04	4928	16846	11839
4/11/2023 14:04:25	4530	15489	11208
4/11/2023 11:58:48	5326	16891	11025
4/11/2023 09:06:40	3954	15395	11003
4/10/2023 10:37:44	2194	8633	7826
4/10/2023 10:22:12	1899	8212	8001
4/10/2023 09:55:11	1701	5404	5012
4/10/2023 09:40:08	1137	2728	2210
4/7/2023 09:12:03	2772	10636	8482
4/6/2023 09:29:25	3180	12523	9525
4/5/2023 12:01:25	3397	12261	8977
4/4/2023 09:25:41	3746	15001	10717
4/4/2023 09:16:16	3774	15323	10930
4/3/2023 10:44:46	3816	16733	12434
3/31/2023 13:01:29	3689	14276	11079
3/31/2023 09:26:11	4028	14610	11523
3/30/2023 09:11:37	5025	18708	14607
3/30/2023 09:01:02	5089	19072	14859
3/29/2023 09:27:41	5221	18650	13966
3/28/2023 09:13:20	4760	16933	13578
3/27/2023 09:16:40	5767	20845	15106
3/24/2023 09:19:12	5395	19720	14041
3/23/2023 10:30:11	6291	21448	13416
3/22/2023 09:09:24	2696	9011	6944
3/21/2023 11:29:57	5734	16669	12164
3/20/2023 15:01:09	6363	19486	13888
3/20/2023 14:56:00	5009	16683	9718
3/20/2023 14:34:11	2834	10712	5829
3/20/2023 11:10:11	7530	22977	15012
3/17/2023 09:15:52	5750	18440	11963
3/16/2023 10:04:21	4980	19675	11461
3/15/2023 08:50:05	4999	21116	13825
3/14/2023 09:23:23	4061	12104	9854
3/13/2023 09:02:28	3215	10694	7776
3/10/2023 09:50:25	5164	18928	14123

Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
3/9/2023 10:05:54	4252	14786	10051
3/8/2023 13:14:50	3752	11270	7378
3/7/2023 10:34:30	4374	16704	11777
3/6/2023 10:45:07	3273	13385	9184
3/3/2023 08:01:46	4929	20899	12798
3/2/2023 09:47:36	5032	21800	13030
3/1/2023 08:51:22	5345	21950	12808
2/28/2023 09:34:23	6338	22463	12670
2/27/2023 14:30:30	4812	15793	10582
2/27/2023 11:22:50	2660	6341	5374
2/27/2023 10:51:56	2687	6395	5542
2/27/2023 10:44:59	2767	6642	5568
2/24/2023 16:23:45	4656	17757	14021
2/24/2023 16:07:57	259	10	1
2/23/2023 08:54:28	5450	21137	15863
2/22/2023 08:37:14	6587	23092	14287
2/21/2023 10:21:12	5717	19848	15529
2/20/2023 08:52:02	5102	19535	16027
2/17/2023 08:36:41	5650	19696	13966
2/16/2023 08:44:34	5427	18692	15094
2/15/2023 12:26:22	5476	16249	14697
2/14/2023 13:04:03	5114	18973	14711
2/13/2023 11:40:00	5622	21074	13839
2/10/2023 10:01:05	5342	19862	13915
2/9/2023 11:28:46	5286	16698	13470
2/8/2023 08:23:24	2500	8272	6431
2/7/2023 11:36:23	5011	17251	13767
2/6/2023 12:36:01	4650	16849	13463
2/3/2023 08:20:53	4694	16500	12971
2/2/2023 07:55:34	4126	16618	13815
2/1/2023 07:42:39	4262	15843	13824
1/31/2023 09:19:32	3770	13798	12047
1/30/2023 10:17:02	4337	16436	13025
1/27/2023 08:15:42	4501	16617	13319
1/26/2023 08:18:20	4191	17132	13749
1/25/2023 09:02:42	4450	15538	12000
1/24/2023 08:45:18	4336	16580	13340
1/23/2023 07:54:12	2590	9369	7241
1/20/2023 07:43:21	4826	18818	14697
1/19/2023 08:47:40	5243	18006	12448
1/18/2023 08:40:18	4557	17530	14362

Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
1/17/2023 09:51:42	4181	15622	13807
1/13/2023 08:18:49	4548	18577	14569
1/12/2023 08:58:54	4387	18033	14854
1/11/2023 08:26:54	4545	18169	14422
1/10/2023 09:03:33	4726	18711	15508
1/9/2023 08:33:43	5629	19269	14475
1/6/2023 09:09:20	5213	18911	14085
1/5/2023 08:59:03	5159	19900	15721
1/4/2023 09:22:57	5368	19455	14720
1/3/2023 07:54:14	4612	19533	15792
12/30/2022 12:03:44	61	23	2
12/30/2022 11:44:52	74	26	2
12/30/2022 08:53:04	103	30	8
12/30/2022 08:43:33	4844	19749	15375
12/29/2022 09:51:14	5727	20311	14775
12/28/2022 10:56:59	5379	19562	14038
12/27/2022 11:51:09	2917	13215	10039
12/22/2022 13:03:41	5910	20405	14964
12/20/2022 10:03:57	6068	20428	15363
12/15/2022 08:54:42	5797	20392	15125
12/14/2022 07:30:17	4875	19420	15909
12/13/2022 08:19:58	6040	20311	15825
12/12/2022 09:25:41	5282	17431	13118
12/9/2022 07:32:14	5734	18212	14695
12/7/2022 09:04:52	5322	21110	16195
12/6/2022 09:40:47	5815	21208	16339
12/5/2022 09:33:56	6313	20948	15766
12/2/2022 08:43:06	5550	21444	17003
12/1/2022 08:14:13	6173	21650	16355
11/30/2022 09:05:47	5892	20987	16063
11/29/2022 09:56:17	4094	14596	10603
11/22/2022 08:57:48	4099	12381	7804
11/21/2022 09:24:58	4059	13597	9996
11/18/2022 08:02:10	5896	21100	16764
11/17/2022 14:32:03	5110	18966	16326
11/14/2022 13:14:56	5191	16854	13936
11/11/2022 08:35:49	5504	20364	14691
11/10/2022 10:24:53	4996	20056	14474
11/9/2022 12:14:57	4371	19332	15801
11/7/2022 10:37:58	5685	18033	11927
11/7/2022 08:51:17	146	29	32

Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
11/4/2022 09:20:34	7168	18645	12118
11/3/2022 10:28:57	3530	13884	7706
11/2/2022 08:32:00	4974	16880	8970
11/1/2022 11:19:50	3994	15305	8677
11/1/2022 11:02:36	4266	16862	10879
10/31/2022 09:19:47	5485	18924	11532
10/28/2022 09:14:48	6686	19237	10543
10/27/2022 10:50:18	6536	19264	10753
10/26/2022 11:02:54	7130	20921	11654
10/19/2022 12:45:34	6920	20484	11015
10/18/2022 09:12:59	7274	20876	11667
10/13/2022 11:08:12	6974	19838	11390
10/12/2022 09:54:30	5786	18972	9741
10/11/2022 09:12:35	5552	19520	11580
10/6/2022 10:34:09	5625	19891	13032
9/30/2022 08:08:09	5495	19202	12599
9/29/2022 08:44:14	5232	19124	12103
9/28/2022 09:42:45	4963	19363	12220
9/27/2022 08:29:24	5178	18784	11329
9/26/2022 10:25:12	5330	19090	12061
9/23/2022 07:41:43	5103	18871	12031
9/22/2022 11:03:47	4952	18979	11589
9/21/2022 10:21:37	4886	19212	13138
9/20/2022 12:23:56	5002	19051	13455
9/15/2022 11:07:18	5302	18910	11562
9/14/2022 09:29:39	5075	20632	13468
9/13/2022 14:42:43	5153	20537	14155
9/13/2022 08:12:52	5034	20027	12445
9/12/2022 08:42:30	5784	20793	13929
9/9/2022 09:45:48	6147	20766	13709
9/8/2022 12:04:46	4051	14292	8447
9/8/2022 11:48:01	41	6	2
9/8/2022 11:27:44	4889	20574	14952
9/2/2022 07:38:00	6624	23227	14887
9/1/2022 08:15:43	5991	21208	13985
8/31/2022 07:49:17	5373	21196	15352
8/30/2022 09:25:59	5235	20223	15276
8/30/2022 09:00:54	13	1	2
8/25/2022 08:44:13	5528	21089	15029
8/24/2022 08:11:08	5585	20407	15666
8/22/2022 11:28:23	5644	19080	14194

Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
8/22/2022 08:02:13	5908	24300	19093
8/19/2022 08:45:48	5153	20283	15070
8/18/2022 08:00:38	5492	20290	13446
8/17/2022 07:50:25	6314	21249	13568
8/16/2022 08:11:19	6612	21262	13203
8/15/2022 07:58:53	5887	22676	15751
8/12/2022 07:30:34	6745	21079	11749
8/11/2022 12:53:44	6477	19179	10232
8/11/2022 08:29:41	6957	21714	11530
8/10/2022 08:08:22	6409	22095	13386
8/9/2022 08:36:25	17	5	13
8/9/2022 07:53:48	6922	23611	15152
8/1/2022 09:30:01	5884	22782	15120
8/1/2022 08:12:58	6185	22941	21185
7/29/2022 07:24:42	6291	22723	20278
7/28/2022 07:59:19	6521	24058	19698
7/27/2022 08:17:37	6920	24215	18319
7/26/2022 07:53:10	6343	24801	18781
7/25/2022 09:48:29	5345	21220	12528
6/30/2022 11:28:41	5342	21861	14116
6/3/2022 08:15:26	7965	26259	18626
6/1/2022 09:09:25	7540	22818	17488
5/31/2022 12:07:21	7463	21617	16999
5/31/2022 11:56:36	6060	17631	14046
5/26/2022 09:53:19	6021	17710	14820
5/25/2022 11:34:00	6269	17834	14297
5/25/2022 10:52:32	6525	17820	14265

Background

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
8/23/2023 10:01:02	0.650	0.550	2.200
8/22/2023 09:47:02	0.950	0.400	2.950
8/21/2023 10:05:10	0.600	0.050	2.350
8/18/2023 09:56:29	0.800	0.550	2.000
8/17/2023 09:33:17	0.550	0.200	2.650
8/16/2023 09:54:23	0.900	0.300	2.650

Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
8/15/2023 09:06:47	1.300	0.600	2.650
8/14/2023 10:53:46	1.050	0.350	3.150
8/11/2023 09:10:11	1.100	0.700	2.900
8/10/2023 09:51:40	0.950	0.250	2.750
8/9/2023 09:53:04	0.900	0.850	2.900
8/8/2023 09:51:14	1.200	0.300	3.450
8/7/2023 10:08:18	0.800	0.450	2.450
8/4/2023 09:09:07	1.050	0.350	3.800
8/4/2023 08:31:24	0.850	0.400	4.150
8/3/2023 09:42:16	0.700	0.350	3.250
8/2/2023 11:05:14	0.500	0.150	2.600
8/2/2023 10:28:09	0.900	0.200	1.450
8/2/2023 10:20:44	1.100	0.050	2.000
8/2/2023 10:16:57	1.000	0.150	1.700
8/2/2023 10:12:26	0.500	0.200	1.550
8/1/2023 09:44:17	0.600	0.400	1.600
7/31/2023 09:31:10	0.650	0.250	1.850
7/28/2023 09:28:15	0.450	0.400	2.050
7/27/2023 09:17:24	0.400	0.200	1.900
7/26/2023 10:24:37	1.000	0.400	2.400
7/25/2023 09:08:43	0.250	0.500	1.350
7/24/2023 09:25:55	0.550	0.150	1.700
7/21/2023 09:38:18	0.450	0.400	1.850
7/20/2023 09:50:16	0.550	0.250	2.250
7/19/2023 09:51:11	0.700	0.300	1.350
7/18/2023 10:02:58	0.800	0.350	1.500
7/17/2023 11:07:27	0.950	0.200	1.800
7/17/2023 09:51:07	0.650	0.300	2.300
7/14/2023 13:20:39	0.950	0.550	2.500
7/14/2023 13:13:20	0.950	0.200	1.900
7/14/2023 13:04:01	0.450	0.300	0.950
7/14/2023 12:49:03	1.000	0.400	2.600
7/14/2023 09:43:22	0.950	0.350	1.400
7/13/2023 17:06:49	0.900	0.450	1.350
7/13/2023 16:18:09	0.800	0.250	1.700
7/13/2023 13:12:33	0.500	0.050	1.350
7/12/2023 10:11:37	0.850	0.350	1.900
7/11/2023 10:12:22	0.900	0.350	2.450
7/11/2023 10:02:13	1.000	0.300	3.100
7/10/2023 10:27:11	0.950	0.250	2.300
7/7/2023 10:03:10	1.100	0.300	2.800

Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
7/7/2023 09:53:18	1.200	0.550	2.750
7/6/2023 09:39:20	0.850	0.400	3.100
7/5/2023 09:21:22	1.300	0.550	2.800
7/3/2023 09:52:13	1.100	0.150	1.700
7/3/2023 09:30:59	1.100	0.300	1.900
6/30/2023 09:54:22	1.150	0.250	2.450
6/29/2023 09:42:14	0.850	0.350	1.800
6/28/2023 09:24:23	1.350	0.300	2.500
6/27/2023 09:21:37	0.750	0.350	2.100
6/26/2023 13:04:07	0.700	0.350	1.750
6/23/2023 09:35:05	2.000	0.750	4.350
6/22/2023 09:46:11	1.750	0.550	4.300
6/21/2023 09:51:51	1.550	0.550	3.450
6/20/2023 09:45:37	1.700	0.900	4.050
6/19/2023 09:55:02	1.450	0.350	3.650
6/16/2023 09:23:49	1.250	0.650	3.500
6/15/2023 09:47:30	1.300	0.500	4.100
6/14/2023 09:16:14	1.900	0.300	2.850
6/13/2023 09:49:15	1.600	0.250	3.300
6/12/2023 11:34:15	1.350	0.350	3.050
6/12/2023 09:54:55	1.300	0.300	2.050
6/9/2023 12:39:33	1.150	0.450	3.100
6/9/2023 09:23:31	1.700	0.350	2.500
6/8/2023 10:16:31	0.900	0.350	2.450
6/7/2023 09:48:23	1.250	0.300	2.350
6/6/2023 09:46:41	1.150	0.550	2.950
6/5/2023 09:22:56	1.450	0.250	2.050
6/2/2023 09:34:45	1.000	0.250	2.900
6/1/2023 09:48:17	1.050	0.300	2.150
5/31/2023 09:40:40	0.900	0.150	2.800
5/30/2023 09:32:39	1.350	0.350	2.200
5/26/2023 12:43:13	1.600	0.250	1.900
5/26/2023 12:35:21	1.050	0.400	2.200
5/26/2023 12:24:37	1.300	0.150	1.850
5/26/2023 12:20:08	1.050	0.300	2.200
5/26/2023 12:15:41	0.700	0.200	1.700
5/26/2023 09:21:24	1.050	0.350	2.750
5/25/2023 09:20:09	1.450	0.500	3.000
5/24/2023 12:08:16	1.250	0.400	2.500
5/24/2023 09:30:58	1.250	0.700	2.600
5/23/2023 10:10:03	0.850	0.150	1.800

Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
5/22/2023 10:18:03	1.300	0.100	2.500
5/19/2023 09:10:18	1.550	0.150	2.800
5/18/2023 10:26:22	1.250	0.350	3.000
5/17/2023 09:16:47	1.300	0.100	1.900
5/16/2023 09:59:27	1.800	0.050	2.900
5/15/2023 10:01:28	1.350	0.200	2.350
5/12/2023 09:47:09	0.750	0.150	1.650
5/11/2023 09:16:07	1.250	0.200	2.450
5/10/2023 09:42:50	1.050	0.300	1.850
5/9/2023 09:27:44	1.150	0.450	2.500
5/8/2023 09:26:50	2.000	0.250	2.900
5/5/2023 09:05:22	0.900	0.450	1.850
5/4/2023 10:18:52	1.550	0.600	2.450
5/4/2023 09:42:19	0.800	0.350	1.550
5/3/2023 09:25:16	1.400	0.250	2.800
5/2/2023 14:32:57	1.850	0.350	3.750
5/2/2023 11:11:55	1.400	0.350	3.300
5/2/2023 10:06:56	1.200	0.550	2.950
5/2/2023 09:20:27	1.800	0.600	3.600
5/1/2023 08:58:25	1.350	0.350	3.650
4/28/2023 15:08:06	1.050	0.550	3.650
4/28/2023 11:06:46	1.650	0.150	2.350
4/28/2023 09:28:29	1.000	0.300	2.600
4/27/2023 09:00:22	1.450	0.600	4.200
4/26/2023 08:49:33	1.500	0.400	3.850
4/25/2023 10:22:10	1.400	0.300	2.800
4/24/2023 08:55:03	1.500	0.100	2.750
4/21/2023 12:21:05	1.100	0.400	2.250
4/21/2023 11:08:42	2.000	0.450	2.300
4/21/2023 08:53:22	1.200	0.250	3.600
4/20/2023 09:37:29	1.500	0.500	2.950
4/19/2023 17:09:43	1.750	0.700	3.450
4/19/2023 15:46:38	1.600	0.600	3.600
4/19/2023 14:35:32	1.350	0.600	3.100
4/19/2023 13:54:58	1.450	0.500	2.850
4/19/2023 09:45:34	1.250	0.350	4.350
4/18/2023 09:17:03	1.750	0.400	3.900
4/17/2023 10:23:48	0.800	0.300	2.450
4/17/2023 10:00:25	1.500	0.250	2.650
4/14/2023 08:59:17	0.950	0.450	3.250
4/13/2023 09:01:53	1.400	0.500	2.850

Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
4/12/2023 08:48:04	1.350	0.450	4.300
4/11/2023 14:04:25	1.750	0.700	3.800
4/11/2023 11:58:48	1.350	0.550	4.900
4/11/2023 09:06:40	1.500	0.500	3.750
4/10/2023 10:37:44	0.550	0.350	1.300
4/10/2023 10:22:12	1.050	0.200	1.950
4/10/2023 09:55:11	1.100	0.350	2.700
4/10/2023 09:40:08	1.350	0.250	3.000
4/7/2023 09:12:03	1.350	0.300	2.850
4/6/2023 09:29:25	1.600	0.350	3.450
4/5/2023 12:01:25	1.650	0.450	3.900
4/4/2023 09:25:41	1.050	0.500	3.300
4/4/2023 09:16:16	2.000	0.500	3.850
4/3/2023 10:44:46	0.950	0.700	4.000
3/31/2023 13:01:29	1.600	0.150	2.600
3/31/2023 09:26:11	1.150	0.450	2.800
3/30/2023 09:11:37	1.450	0.550	2.750
3/30/2023 09:01:02	1.500	0.250	3.350
3/29/2023 09:27:41	1.600	0.350	3.600
3/28/2023 09:13:20	1.150	0.250	2.650
3/27/2023 09:16:40	1.250	0.600	3.200
3/24/2023 09:19:12	1.550	0.700	3.750
3/23/2023 10:30:11	2.050	0.250	3.650
3/22/2023 09:09:24	2.200	0.300	1.850
3/21/2023 11:29:57	1.700	0.450	2.750
3/20/2023 15:01:09	2.350	0.600	4.250
3/20/2023 14:56:00	2.950	0.600	4.950
3/20/2023 14:34:11	3.650	1.050	6.050
3/20/2023 11:10:11	2.050	0.700	5.350
3/17/2023 09:15:52	2.250	0.650	3.950
3/16/2023 10:04:21	2.250	0.750	4.300
3/15/2023 08:50:05	1.550	0.500	3.400
3/14/2023 09:23:23	1.000	0.300	2.750
3/13/2023 09:02:28	1.800	0.700	3.500
3/10/2023 09:50:25	1.450	0.450	4.250
3/9/2023 10:05:54	2.200	0.350	4.150
3/8/2023 13:14:50	2.350	0.450	4.200
3/7/2023 10:34:30	2.300	0.600	2.900
3/6/2023 10:45:07	3.100	0.350	3.250
3/3/2023 08:01:46	2.200	0.650	4.350
3/2/2023 09:47:36	2.500	0.450	4.100

Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
3/1/2023 08:51:22	1.800	0.350	3.800
2/28/2023 09:34:23	1.750	0.800	3.650
2/27/2023 14:30:30	1.550	0.600	3.100
2/27/2023 11:22:50	0.800	0.200	1.500
2/27/2023 10:51:56	0.950	0.250	2.200
2/27/2023 10:44:59	1.000	0.100	1.750
2/24/2023 16:23:45	0.600	0.650	2.400
2/24/2023 16:07:57	0.900	0.350	2.300
2/23/2023 08:54:28	0.650	0.150	2.700
2/22/2023 08:37:14	1.200	0.350	4.250
2/21/2023 10:21:12	1.050	0.100	2.800
2/20/2023 08:52:02	0.900	0.200	2.050
2/17/2023 08:36:41	0.900	0.150	2.150
2/16/2023 08:44:34	0.950	0.200	2.100
2/15/2023 12:26:22	0.550	0.200	1.150
2/14/2023 13:04:03	1.150	0.250	1.250
2/13/2023 11:40:00	1.600	0.200	2.000
2/10/2023 10:01:05	1.350	0.550	2.150
2/9/2023 11:28:46	1.150	0.200	2.100
2/8/2023 08:23:24	1.300	0.400	1.800
2/7/2023 11:36:23	1.550	0.300	2.250
2/6/2023 12:36:01	1.350	0.150	1.900
2/3/2023 08:20:53	1.050	0.300	2.050
2/2/2023 07:55:34	0.850	0.100	1.950
2/1/2023 07:42:39	0.800	0.250	1.550
1/31/2023 09:19:32	0.850	0.250	1.350
1/30/2023 10:17:02	0.800	0.150	2.050
1/27/2023 08:15:42	1.300	0.250	2.400
1/26/2023 08:18:20	1.100	0.250	2.600
1/25/2023 09:02:42	0.650	0.200	2.100
1/24/2023 08:45:18	1.150	0.200	1.950
1/23/2023 07:54:12	1.000	0.000	1.650
1/20/2023 07:43:21	0.950	0.150	1.550
1/19/2023 08:47:40	1.850	0.400	2.200
1/18/2023 08:40:18	1.000	0.250	2.250
1/17/2023 09:51:42	0.550	0.150	1.550
1/13/2023 08:18:49	0.700	0.350	2.000
1/12/2023 08:58:54	0.950	0.150	1.550
1/11/2023 08:26:54	0.950	0.150	1.800
1/10/2023 09:03:33	0.600	0.250	2.050
1/9/2023 08:33:43	0.650	0.250	2.000

Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
1/6/2023 09:09:20	1.000	0.250	2.250
1/5/2023 08:59:03	0.700	0.100	2.000
1/4/2023 09:22:57	0.850	0.200	2.250
1/3/2023 07:54:14	0.750	0.200	1.900
12/30/2022 12:03:44	0.800	0.200	1.400
12/30/2022 11:44:52	0.500	0.100	1.700
12/30/2022 08:53:04	0.600	0.100	1.850
12/30/2022 08:43:33	0.650	0.400	2.700
12/29/2022 09:51:14	1.300	0.350	2.050
12/28/2022 10:56:59	0.900	0.350	2.000
12/27/2022 11:51:09	1.350	0.150	1.800
12/22/2022 13:03:41	1.100	0.250	2.300
12/20/2022 10:03:57	1.050	0.300	2.650
12/15/2022 08:54:42	1.100	0.100	1.850
12/14/2022 07:30:17	0.650	0.150	1.900
12/13/2022 08:19:58	0.850	0.250	2.000
12/12/2022 09:25:41	1.250	0.350	2.250
12/9/2022 07:32:14	1.000	0.300	1.650
12/7/2022 09:04:52	1.000	0.150	1.900
12/6/2022 09:40:47	1.100	0.550	2.250
12/5/2022 09:33:56	1.300	0.200	1.800
12/2/2022 08:43:06	1.250	0.100	1.650
12/1/2022 08:14:13	1.000	0.050	1.400
11/30/2022 09:05:47	1.150	0.250	2.650
11/29/2022 09:56:17	0.900	0.000	1.850
11/22/2022 08:57:48	1.400	0.150	2.850
11/21/2022 09:24:58	0.900	0.150	2.200
11/18/2022 08:02:10	1.350	0.100	2.300
11/17/2022 14:32:03	0.850	0.200	1.550
11/14/2022 13:14:56	1.000	0.100	1.800
11/11/2022 08:35:49	1.350	0.150	1.950
11/10/2022 10:24:53	1.000	0.150	1.950
11/9/2022 12:14:57	0.900	0.250	1.450
11/7/2022 10:37:58	1.300	0.300	2.500
11/7/2022 08:51:17	0.750	0.150	2.700
11/4/2022 09:20:34	1.150	0.250	1.950
11/3/2022 10:28:57	1.400	0.100	1.950
11/2/2022 08:32:00	0.850	0.100	2.250
11/1/2022 11:19:50	1.500	0.500	1.900
11/1/2022 11:02:36	0.850	0.450	1.850
10/31/2022 09:19:47	0.650	0.350	1.650

Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
10/28/2022 09:14:48	0.800	0.050	2.350
10/27/2022 10:50:18	1.100	0.350	2.350
10/26/2022 11:02:54	1.000	0.100	2.600
10/19/2022 12:45:34	1.200	0.150	2.250
10/18/2022 09:12:59	0.800	0.300	2.300
10/13/2022 11:08:12	1.300	0.350	2.150
10/12/2022 09:54:30	1.200	0.300	2.000
10/11/2022 09:12:35	1.250	0.400	2.250
10/6/2022 10:34:09	1.100	0.100	1.950
9/30/2022 08:08:09	1.200	0.400	2.350
9/29/2022 08:44:14	0.800	0.000	2.200
9/28/2022 09:42:45	1.800	0.150	1.950
9/27/2022 08:29:24	1.350	0.250	1.750
9/26/2022 10:25:12	1.400	0.200	1.800
9/23/2022 07:41:43	0.750	0.350	1.900
9/22/2022 11:03:47	1.550	0.350	2.550
9/21/2022 10:21:37	0.800	0.200	1.100
9/20/2022 12:23:56	0.750	0.200	1.550
9/15/2022 11:07:18	0.800	0.400	2.600
9/14/2022 09:29:39	1.050	0.150	2.900
9/13/2022 14:42:43	1.100	0.300	1.550
9/13/2022 08:12:52	1.550	0.450	2.300
9/12/2022 08:42:30	1.500	0.200	1.950
9/9/2022 09:45:48	1.300	0.300	2.050
9/8/2022 12:04:46	2.050	0.200	2.100
9/8/2022 11:48:01	1.000	0.050	1.900
9/8/2022 11:27:44	1.500	0.150	2.100
9/2/2022 07:38:00	1.350	0.050	2.250
9/1/2022 08:15:43	1.350	0.050	1.850
8/31/2022 07:49:17	0.800	0.200	1.700
8/30/2022 09:25:59	1.500	0.150	1.350
8/30/2022 09:00:54	0.900	0.000	0.750
8/25/2022 08:44:13	1.300	0.400	2.000
8/24/2022 08:11:08	0.850	0.100	1.500
8/22/2022 11:28:23	0.700	0.100	1.550
8/22/2022 08:02:13	1.350	0.300	1.050
8/19/2022 08:45:48	1.000	0.150	1.700
8/18/2022 08:00:38	1.650	0.450	2.500
8/17/2022 07:50:25	1.750	0.150	2.650
8/16/2022 08:11:19	1.350	0.300	2.400
8/15/2022 07:58:53	1.100	0.250	1.500

Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
8/12/2022 07:30:34	1.750	0.150	3.000
8/11/2022 12:53:44	1.400	0.450	3.400
8/11/2022 08:29:41	1.850	0.250	2.850
8/10/2022 08:08:22	1.050	0.200	2.000
8/9/2022 08:36:25	1.000	0.200	2.000
8/9/2022 07:53:48	1.050	0.100	1.700
8/1/2022 09:30:01	1.050	0.300	1.750
8/1/2022 08:12:58	1.350	0.250	1.800
7/29/2022 07:24:42	1.300	0.250	2.450
7/28/2022 07:59:19	1.850	0.300	1.950
7/27/2022 08:17:37	1.600	0.250	2.600
7/26/2022 07:53:10	1.150	0.200	1.850
7/25/2022 09:48:29	1.800	0.450	1.850
6/30/2022 11:28:41	1.500	0.150	2.100
6/3/2022 08:15:26	1.550	0.150	1.550
6/1/2022 09:09:25	1.250	0.150	1.050
5/31/2022 12:07:21	1.500	0.200	1.200
5/31/2022 11:56:36	1.250	0.150	1.100
5/26/2022 09:53:19	1.000	0.150	1.400
5/25/2022 11:34:00	1.450	0.050	1.350
5/25/2022 10:52:32	0.950	0.200	1.100

Tune Parameters

Created Date	Extract 1	Extract 2	Omega Bias
8/23/2023 10:01:02	0.0 V	-155.0 V	-80 V
8/22/2023 09:47:02	0.0 V	-150.0 V	-80 V
8/21/2023 10:05:10	0.0 V	-150.0 V	-70 V
8/18/2023 09:56:29	0.0 V	-165.0 V	-80 V
8/17/2023 09:33:17	0.0 V	-165.0 V	-80 V
8/16/2023 09:54:23	0.0 V	-160.0 V	-80 V
8/15/2023 09:06:47	0.0 V	-160.0 V	-80 V
8/14/2023 10:53:46	0.0 V	-165.0 V	-80 V
8/11/2023 09:10:11	0.0 V	-170.0 V	-80 V
8/10/2023 09:51:40	0.0 V	-165.0 V	-80 V
8/9/2023 09:53:04	0.0 V	-160.0 V	-80 V
8/8/2023 09:51:14	0.0 V	-150.0 V	-80 V

Performance Report

Created Date	Extract 1	Extract 2	Omega Bias
8/7/2023 10:08:18	0.0 V	-140.0 V	-70 V
8/4/2023 09:09:07	0.0 V	-145.0 V	-70 V
8/4/2023 08:31:24	0.0 V	-170.0 V	-80 V
8/3/2023 09:42:16	0.0 V	-195.0 V	-90 V
8/2/2023 11:05:14	0.0 V	-200.0 V	-110 V
8/2/2023 10:28:09	0.0 V	-150.0 V	-80 V
8/2/2023 10:20:44	0.0 V	-185.0 V	-90 V
8/2/2023 10:16:57	0.0 V	-185.0 V	-90 V
8/2/2023 10:12:26	0.0 V	-185.0 V	-90 V
8/1/2023 09:44:17	0.0 V	-200.0 V	-120 V
7/31/2023 09:31:10	0.0 V	-150.0 V	-80 V
7/28/2023 09:28:15	0.0 V	-185.0 V	-90 V
7/27/2023 09:17:24	0.0 V	-185.0 V	-100 V
7/26/2023 10:24:37	0.0 V	-200.0 V	-100 V
7/25/2023 09:08:43	0.0 V	-200.0 V	-120 V
7/24/2023 09:25:55	0.0 V	-175.0 V	-90 V
7/21/2023 09:38:18	0.0 V	-170.0 V	-90 V
7/20/2023 09:50:16	0.0 V	-170.0 V	-90 V
7/19/2023 09:51:11	0.0 V	-165.0 V	-90 V
7/18/2023 10:02:58	0.0 V	-165.0 V	-80 V
7/17/2023 11:07:27	0.0 V	-195.0 V	-100 V
7/17/2023 09:51:07	0.0 V	-200.0 V	-100 V
7/14/2023 13:20:39	0.0 V	-200.0 V	-110 V
7/14/2023 13:13:20	0.0 V	-200.0 V	-110 V
7/14/2023 13:04:01	0.0 V	-200.0 V	-120 V
7/14/2023 12:49:03	0.0 V	-200.0 V	-120 V
7/14/2023 09:43:22	0.0 V	-195.0 V	-110 V
7/13/2023 17:06:49	0.0 V	-200.0 V	-100 V
7/13/2023 16:18:09	0.0 V	-200.0 V	-100 V
7/13/2023 13:12:33	0.0 V	-195.0 V	-110 V
7/12/2023 10:11:37	0.0 V	-190.0 V	-80 V
7/11/2023 10:12:22	0.0 V	-200.0 V	-80 V
7/11/2023 10:02:13	0.0 V	-185.0 V	-100 V
7/10/2023 10:27:11	0.0 V	-140.0 V	-70 V
7/7/2023 10:03:10	0.0 V	-170.0 V	-70 V
7/7/2023 09:53:18	0.0 V	-165.0 V	-70 V
7/6/2023 09:39:20	0.0 V	-145.0 V	-70 V
7/5/2023 09:21:22	0.0 V	-140.0 V	-70 V
7/3/2023 09:52:13	0.0 V	-170.0 V	-70 V
7/3/2023 09:30:59	0.0 V	-175.0 V	-70 V
6/30/2023 09:54:22	0.0 V	-200.0 V	-90 V

Performance Report

Created Date	Extract 1	Extract 2	Omega Bias
6/29/2023 09:42:14	0.0 V	-200.0 V	-90 V
6/28/2023 09:24:23	0.0 V	-200.0 V	-90 V
6/27/2023 09:21:37	0.0 V	-195.0 V	-90 V
6/26/2023 13:04:07	0.0 V	-180.0 V	-80 V
6/23/2023 09:35:05	0.0 V	-200.0 V	-80 V
6/22/2023 09:46:11	0.0 V	-195.0 V	-80 V
6/21/2023 09:51:51	0.0 V	-200.0 V	-80 V
6/20/2023 09:45:37	0.0 V	-195.0 V	-80 V
6/19/2023 09:55:02	0.0 V	-190.0 V	-80 V
6/16/2023 09:23:49	0.0 V	-200.0 V	-90 V
6/15/2023 09:47:30	0.0 V	-200.0 V	-90 V
6/14/2023 09:16:14	0.0 V	-200.0 V	-80 V
6/13/2023 09:49:15	0.0 V	-200.0 V	-80 V
6/12/2023 11:34:15	0.0 V	-195.0 V	-80 V
6/12/2023 09:54:55	0.0 V	-185.0 V	-80 V
6/9/2023 12:39:33	0.0 V	-200.0 V	-90 V
6/9/2023 09:23:31	0.0 V	-200.0 V	-80 V
6/8/2023 10:16:31	0.0 V	-200.0 V	-90 V
6/7/2023 09:48:23	0.0 V	-200.0 V	-90 V
6/6/2023 09:46:41	0.0 V	-200.0 V	-90 V
6/5/2023 09:22:56	0.0 V	-200.0 V	-90 V
6/2/2023 09:34:45	0.0 V	-200.0 V	-100 V
6/1/2023 09:48:17	0.0 V	-180.0 V	-80 V
5/31/2023 09:40:40	0.0 V	-180.0 V	-70 V
5/30/2023 09:32:39	0.0 V	-160.0 V	-70 V
5/26/2023 12:43:13	0.0 V	-195.0 V	-80 V
5/26/2023 12:35:21	0.0 V	-200.0 V	-80 V
5/26/2023 12:24:37	0.0 V	-200.0 V	-90 V
5/26/2023 12:20:08	0.0 V	-200.0 V	-90 V
5/26/2023 12:15:41	0.0 V	-200.0 V	-90 V
5/26/2023 09:21:24	0.0 V	-200.0 V	-90 V
5/25/2023 09:20:09	0.0 V	-200.0 V	-90 V
5/24/2023 12:08:16	0.0 V	-200.0 V	-90 V
5/24/2023 09:30:58	0.0 V	-200.0 V	-90 V
5/23/2023 10:10:03	0.0 V	-195.0 V	-90 V
5/22/2023 10:18:03	0.0 V	-200.0 V	-90 V
5/19/2023 09:10:18	0.0 V	-200.0 V	-90 V
5/18/2023 10:26:22	0.0 V	-200.0 V	-90 V
5/17/2023 09:16:47	0.0 V	-200.0 V	-90 V
5/16/2023 09:59:27	0.0 V	-200.0 V	-90 V
5/15/2023 10:01:28	0.0 V	-200.0 V	-80 V

Performance Report

Created Date	Extract 1	Extract 2	Omega Bias
5/12/2023 09:47:09	0.0 V	-190.0 V	-80 V
5/11/2023 09:16:07	0.0 V	-195.0 V	-80 V
5/10/2023 09:42:50	0.0 V	-175.0 V	-80 V
5/9/2023 09:27:44	0.0 V	-175.0 V	-70 V
5/8/2023 09:26:50	0.0 V	-200.0 V	-90 V
5/5/2023 09:05:22	0.0 V	-200.0 V	-100 V
5/4/2023 10:18:52	0.0 V	-200.0 V	-110 V
5/4/2023 09:42:19	0.0 V	-175.0 V	-80 V
5/3/2023 09:25:16	0.0 V	-175.0 V	-80 V
5/2/2023 14:32:57	0.0 V	-170.0 V	-80 V
5/2/2023 11:11:55	0.0 V	-175.0 V	-80 V
5/2/2023 10:06:56	0.0 V	-175.0 V	-80 V
5/2/2023 09:20:27	0.0 V	-180.0 V	-80 V
5/1/2023 08:58:25	0.0 V	-190.0 V	-80 V
4/28/2023 15:08:06	0.0 V	-185.0 V	-80 V
4/28/2023 11:06:46	0.0 V	-195.0 V	-80 V
4/28/2023 09:28:29	0.0 V	-175.0 V	-90 V
4/27/2023 09:00:22	0.0 V	-195.0 V	-90 V
4/26/2023 08:49:33	0.0 V	-195.0 V	-80 V
4/25/2023 10:22:10	0.0 V	-190.0 V	-80 V
4/24/2023 08:55:03	0.0 V	-170.0 V	-80 V
4/21/2023 12:21:05	0.0 V	-165.0 V	-80 V
4/21/2023 11:08:42	0.0 V	-175.0 V	-80 V
4/21/2023 08:53:22	0.0 V	-165.0 V	-80 V
4/20/2023 09:37:29	0.0 V	-175.0 V	-80 V
4/19/2023 17:09:43	0.0 V	-185.0 V	-80 V
4/19/2023 15:46:38	0.0 V	-185.0 V	-80 V
4/19/2023 14:35:32	0.0 V	-180.0 V	-80 V
4/19/2023 13:54:58	0.0 V	-185.0 V	-80 V
4/19/2023 09:45:34	0.0 V	-180.0 V	-80 V
4/18/2023 09:17:03	0.0 V	-190.0 V	-80 V
4/17/2023 10:23:48	0.0 V	-170.0 V	-70 V
4/17/2023 10:00:25	0.0 V	-190.0 V	-80 V
4/14/2023 08:59:17	0.0 V	-200.0 V	-90 V
4/13/2023 09:01:53	0.0 V	-190.0 V	-90 V
4/12/2023 08:48:04	0.0 V	-200.0 V	-90 V
4/11/2023 14:04:25	0.0 V	-185.0 V	-80 V
4/11/2023 11:58:48	0.0 V	-185.0 V	-80 V
4/11/2023 09:06:40	0.0 V	-200.0 V	-80 V
4/10/2023 10:37:44	0.0 V	-155.0 V	-70 V
4/10/2023 10:22:12	0.0 V	-175.0 V	-80 V

Performance Report

Created Date	Extract 1	Extract 2	Omega Bias
4/10/2023 09:55:11	0.0 V	-175.0 V	-80 V
4/10/2023 09:40:08	0.0 V	-170.0 V	-80 V
4/7/2023 09:12:03	0.0 V	-170.0 V	-80 V
4/6/2023 09:29:25	0.0 V	-175.0 V	-80 V
4/5/2023 12:01:25	0.0 V	-170.0 V	-80 V
4/4/2023 09:25:41	0.0 V	-175.0 V	-80 V
4/4/2023 09:16:16	0.0 V	-175.0 V	-80 V
4/3/2023 10:44:46	0.0 V	-190.0 V	-80 V
3/31/2023 13:01:29	0.0 V	-185.0 V	-80 V
3/31/2023 09:26:11	0.0 V	-175.0 V	-80 V
3/30/2023 09:11:37	0.0 V	-195.0 V	-80 V
3/30/2023 09:01:02	0.0 V	-195.0 V	-80 V
3/29/2023 09:27:41	0.0 V	-195.0 V	-80 V
3/28/2023 09:13:20	0.0 V	-175.0 V	-80 V
3/27/2023 09:16:40	0.0 V	-185.0 V	-80 V
3/24/2023 09:19:12	0.0 V	-190.0 V	-80 V
3/23/2023 10:30:11	0.0 V	-190.0 V	-80 V
3/22/2023 09:09:24	0.0 V	-185.0 V	-70 V
3/21/2023 11:29:57	0.0 V	-175.0 V	-80 V
3/20/2023 15:01:09	0.0 V	-195.0 V	-80 V
3/20/2023 14:56:00	0.0 V	-195.0 V	-80 V
3/20/2023 14:34:11	0.0 V	-200.0 V	-80 V
3/20/2023 11:10:11	0.0 V	-200.0 V	-90 V
3/17/2023 09:15:52	0.0 V	-200.0 V	-90 V
3/16/2023 10:04:21	0.0 V	-200.0 V	-80 V
3/15/2023 08:50:05	0.0 V	-195.0 V	-70 V
3/14/2023 09:23:23	0.0 V	-185.0 V	-70 V
3/13/2023 09:02:28	0.0 V	-195.0 V	-70 V
3/10/2023 09:50:25	0.0 V	-195.0 V	-80 V
3/9/2023 10:05:54	0.0 V	-200.0 V	-80 V
3/8/2023 13:14:50	0.0 V	-200.0 V	-80 V
3/7/2023 10:34:30	0.0 V	-200.0 V	-80 V
3/6/2023 10:45:07	0.0 V	-200.0 V	-80 V
3/3/2023 08:01:46	0.0 V	-200.0 V	-80 V
3/2/2023 09:47:36	0.0 V	-200.0 V	-80 V
3/1/2023 08:51:22	0.0 V	-200.0 V	-80 V
2/28/2023 09:34:23	0.0 V	-195.0 V	-80 V
2/27/2023 14:30:30	0.0 V	-200.0 V	-80 V
2/27/2023 11:22:50	0.0 V	-170.0 V	-80 V
2/27/2023 10:51:56	0.0 V	-170.0 V	-80 V
2/27/2023 10:44:59	0.0 V	-170.0 V	-80 V

Performance Report

Created Date	Extract 1	Extract 2	Omega Bias
2/24/2023 16:23:45	0.0 V	-185.0 V	-80 V
2/24/2023 16:07:57	0.0 V	-185.0 V	-80 V
2/23/2023 08:54:28	0.0 V	-185.0 V	-80 V
2/22/2023 08:37:14	0.0 V	-200.0 V	-80 V
2/21/2023 10:21:12	0.0 V	-195.0 V	-80 V
2/20/2023 08:52:02	0.0 V	-195.0 V	-80 V
2/17/2023 08:36:41	0.0 V	-200.0 V	-90 V
2/16/2023 08:44:34	0.0 V	-200.0 V	-90 V
2/15/2023 12:26:22	0.0 V	-180.0 V	-90 V
2/14/2023 13:04:03	0.0 V	-190.0 V	-80 V
2/13/2023 11:40:00	0.0 V	-200.0 V	-80 V
2/10/2023 10:01:05	0.0 V	-195.0 V	-80 V
2/9/2023 11:28:46	0.0 V	-200.0 V	-80 V
2/8/2023 08:23:24	0.0 V	-200.0 V	-90 V
2/7/2023 11:36:23	0.0 V	-200.0 V	-90 V
2/6/2023 12:36:01	0.0 V	-200.0 V	-100 V
2/3/2023 08:20:53	0.0 V	-200.0 V	-90 V
2/2/2023 07:55:34	0.0 V	-200.0 V	-90 V
2/1/2023 07:42:39	0.0 V	-195.0 V	-90 V
1/31/2023 09:19:32	0.0 V	-175.0 V	-90 V
1/30/2023 10:17:02	0.0 V	-200.0 V	-90 V
1/27/2023 08:15:42	0.0 V	-195.0 V	-90 V
1/26/2023 08:18:20	0.0 V	-200.0 V	-80 V
1/25/2023 09:02:42	0.0 V	-195.0 V	-90 V
1/24/2023 08:45:18	0.0 V	-200.0 V	-80 V
1/23/2023 07:54:12	0.0 V	-200.0 V	-80 V
1/20/2023 07:43:21	0.0 V	-195.0 V	-90 V
1/19/2023 08:47:40	0.0 V	-200.0 V	-90 V
1/18/2023 08:40:18	0.0 V	-200.0 V	-80 V
1/17/2023 09:51:42	0.0 V	-170.0 V	-80 V
1/13/2023 08:18:49	0.0 V	-200.0 V	-80 V
1/12/2023 08:58:54	0.0 V	-195.0 V	-80 V
1/11/2023 08:26:54	0.0 V	-200.0 V	-80 V
1/10/2023 09:03:33	0.0 V	-195.0 V	-80 V
1/9/2023 08:33:43	0.0 V	-195.0 V	-90 V
1/6/2023 09:09:20	0.0 V	-200.0 V	-80 V
1/5/2023 08:59:03	0.0 V	-200.0 V	-80 V
1/4/2023 09:22:57	0.0 V	-200.0 V	-90 V
1/3/2023 07:54:14	0.0 V	-190.0 V	-80 V
12/30/2022 12:03:44	0.0 V	-195.0 V	-80 V
12/30/2022 11:44:52	0.0 V	-195.0 V	-80 V

Performance Report

Created Date	Extract 1	Extract 2	Omega Bias
12/30/2022 08:53:04	0.0 V	-195.0 V	-80 V
12/30/2022 08:43:33	0.0 V	-195.0 V	-80 V
12/29/2022 09:51:14	0.0 V	-200.0 V	-80 V
12/28/2022 10:56:59	0.0 V	-200.0 V	-90 V
12/27/2022 11:51:09	0.0 V	-195.0 V	-80 V
12/22/2022 13:03:41	0.0 V	-200.0 V	-90 V
12/20/2022 10:03:57	0.0 V	-200.0 V	-90 V
12/15/2022 08:54:42	0.0 V	-200.0 V	-90 V
12/14/2022 07:30:17	0.0 V	-200.0 V	-80 V
12/13/2022 08:19:58	0.0 V	-200.0 V	-90 V
12/12/2022 09:25:41	0.0 V	-200.0 V	-90 V
12/9/2022 07:32:14	0.0 V	-185.0 V	-90 V
12/7/2022 09:04:52	0.0 V	-200.0 V	-80 V
12/6/2022 09:40:47	0.0 V	-200.0 V	-90 V
12/5/2022 09:33:56	0.0 V	-200.0 V	-90 V
12/2/2022 08:43:06	0.0 V	-200.0 V	-90 V
12/1/2022 08:14:13	0.0 V	-200.0 V	-90 V
11/30/2022 09:05:47	0.0 V	-200.0 V	-90 V
11/29/2022 09:56:17	0.0 V	-190.0 V	-80 V
11/22/2022 08:57:48	0.0 V	-200.0 V	-80 V
11/21/2022 09:24:58	0.0 V	-200.0 V	-80 V
11/18/2022 08:02:10	0.0 V	-200.0 V	-90 V
11/17/2022 14:32:03	0.0 V	-195.0 V	-90 V
11/14/2022 13:14:56	0.0 V	-180.0 V	-90 V
11/11/2022 08:35:49	0.0 V	-195.0 V	-90 V
11/10/2022 10:24:53	0.0 V	-185.0 V	-80 V
11/9/2022 12:14:57	0.0 V	-185.0 V	-70 V
11/7/2022 10:37:58	0.0 V	-200.0 V	-80 V
11/7/2022 08:51:17	0.0 V	-200.0 V	-110 V
11/4/2022 09:20:34	0.0 V	-200.0 V	-110 V
11/3/2022 10:28:57	0.0 V	-200.0 V	-120 V
11/2/2022 08:32:00	0.0 V	-200.0 V	-120 V
11/1/2022 11:19:50	0.0 V	-200.0 V	-120 V
11/1/2022 11:02:36	0.0 V	-200.0 V	-120 V
10/31/2022 09:19:47	0.0 V	-200.0 V	-120 V
10/28/2022 09:14:48	0.0 V	-200.0 V	-120 V
10/27/2022 10:50:18	0.0 V	-200.0 V	-120 V
10/26/2022 11:02:54	0.0 V	-200.0 V	-120 V
10/19/2022 12:45:34	0.0 V	-200.0 V	-120 V
10/18/2022 09:12:59	0.0 V	-200.0 V	-120 V
10/13/2022 11:08:12	0.0 V	-200.0 V	-120 V

Performance Report

Created Date	Extract 1	Extract 2	Omega Bias
10/12/2022 09:54:30	0.0 V	-200.0 V	-120 V
10/11/2022 09:12:35	0.0 V	-200.0 V	-110 V
10/6/2022 10:34:09	0.0 V	-195.0 V	-100 V
9/30/2022 08:08:09	0.0 V	-195.0 V	-100 V
9/29/2022 08:44:14	0.0 V	-195.0 V	-100 V
9/28/2022 09:42:45	0.0 V	-195.0 V	-100 V
9/27/2022 08:29:24	0.0 V	-195.0 V	-100 V
9/26/2022 10:25:12	0.0 V	-195.0 V	-100 V
9/23/2022 07:41:43	0.0 V	-195.0 V	-100 V
9/22/2022 11:03:47	0.0 V	-195.0 V	-100 V
9/21/2022 10:21:37	0.0 V	-195.0 V	-100 V
9/20/2022 12:23:56	0.0 V	-195.0 V	-100 V
9/15/2022 11:07:18	0.0 V	-195.0 V	-100 V
9/14/2022 09:29:39	0.0 V	-200.0 V	-80 V
9/13/2022 14:42:43	0.0 V	-200.0 V	-80 V
9/13/2022 08:12:52	0.0 V	-195.0 V	-80 V
9/12/2022 08:42:30	0.0 V	-190.0 V	-80 V
9/9/2022 09:45:48	0.0 V	-200.0 V	-80 V
9/8/2022 12:04:46	0.0 V	-200.0 V	-80 V
9/8/2022 11:48:01	0.0 V	-200.0 V	-70 V
9/8/2022 11:27:44	0.0 V	-200.0 V	-70 V
9/2/2022 07:38:00	0.0 V	-200.0 V	-80 V
9/1/2022 08:15:43	0.0 V	-200.0 V	-80 V
8/31/2022 07:49:17	0.0 V	-200.0 V	-80 V
8/30/2022 09:25:59	0.0 V	-200.0 V	-80 V
8/30/2022 09:00:54	0.0 V	-200.0 V	-90 V
8/25/2022 08:44:13	0.0 V	-200.0 V	-90 V
8/24/2022 08:11:08	0.0 V	-200.0 V	-90 V
8/22/2022 11:28:23	0.0 V	-200.0 V	-80 V
8/22/2022 08:02:13	0.0 V	-200.0 V	-80 V
8/19/2022 08:45:48	0.0 V	-200.0 V	-80 V
8/18/2022 08:00:38	0.0 V	-200.0 V	-80 V
8/17/2022 07:50:25	0.0 V	-200.0 V	-80 V
8/16/2022 08:11:19	0.0 V	-200.0 V	-80 V
8/15/2022 07:58:53	0.0 V	-200.0 V	-80 V
8/12/2022 07:30:34	0.0 V	-200.0 V	-80 V
8/11/2022 12:53:44	0.0 V	-200.0 V	-80 V
8/11/2022 08:29:41	0.0 V	-200.0 V	-80 V
8/10/2022 08:08:22	0.0 V	-200.0 V	-70 V
8/9/2022 08:36:25	0.0 V	-200.0 V	-80 V
8/9/2022 07:53:48	0.0 V	-200.0 V	-80 V

Performance Report

Created Date	Extract 1	Extract 2	Omega Bias
8/1/2022 09:30:01	0.0 V	-200.0 V	-80 V
8/1/2022 08:12:58	0.0 V	-200.0 V	-80 V
7/29/2022 07:24:42	0.0 V	-200.0 V	-80 V
7/28/2022 07:59:19	0.0 V	-200.0 V	-80 V
7/27/2022 08:17:37	0.0 V	-200.0 V	-90 V
7/26/2022 07:53:10	0.0 V	-200.0 V	-90 V
7/25/2022 09:48:29	0.0 V	-195.0 V	-90 V
6/30/2022 11:28:41	0.0 V	-200.0 V	-90 V
6/3/2022 08:15:26	0.0 V	-200.0 V	-90 V
6/1/2022 09:09:25	0.0 V	-195.0 V	-90 V
5/31/2022 12:07:21	0.0 V	-200.0 V	-90 V
5/31/2022 11:56:36	0.0 V	-200.0 V	-90 V
5/26/2022 09:53:19	0.0 V	-200.0 V	-110 V
5/25/2022 11:34:00	0.0 V	-200.0 V	-100 V
5/25/2022 10:52:32	0.0 V	-200.0 V	-100 V

US EPA Tune Check Report

Operator Name ICPMS
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\082323JR.b
Acq. Date-Time 8/23/2023 10:28:38
Report Comment ---
Instrument Name G8422A SG22151236

[No Gas]

Sensitivity

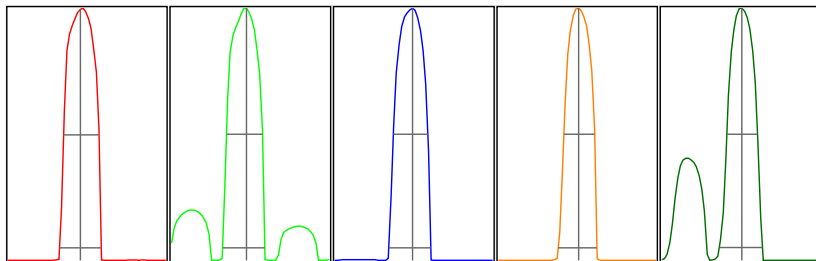
Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/(ug/l)]	Resp (Flag)	RSD%	RSD% (Required)
9	10.00	2513	25130.40			0.468	5.000
24	10.00	10646	106460.80			0.489	5.000
59	10.00	25965	259646.06			0.681	5.000
115	10.00	40046	400464.38			1.072	5.000
208	10.00	24924	249241.73			0.487	5.000

Mass	RSD% (Flag)
9	
24	
59	
115	
208	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	2527	2509	2524	2498	2508
24	10558	10675	10687	10668	10642
59	26184	25691	25998	25995	25955
115	40513	40273	40248	39719	39480
208	25124	24893	24938	24808	24858

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	3978.84	8.90	8.90 - 9.10	
24	16768.65	23.95	23.90 - 24.10	
59	42335.92	59.00	58.90 - 59.10	
115	72926.52	115.05	114.90 - 115.10	
208	44833.88	208.05	207.90 - 208.10	

US EPA Tune Check Report

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.67	0.784	0.900	
24	0.67	0.789	0.900	
59	0.64	0.786	0.900	
115	0.57	0.726	0.900	
208	0.57	0.808	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 153.699999999999
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.70 L/min	Makeup Gas	0.50 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	5.2 V	Deflect	11.6 V
Extract 2	-20.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-14 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	0.0 mL/min	OctP RF	200 V		

QP Parameters

Mass Gain	123	Axis Gain	0.9996	QP Bias	-3.0 V
Mass Offset	125	Axis Offset	0.01		

Hardware Settings

Torch

Torch H	0.1 mm	Torch V	0.6 mm
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EM

Discriminator	3.1 mV	Analog HV	2150 V	Pulse HV	1235 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/(ug/l)]	Resp (Flag)	RSD%	RSD% (Required)
24	10.00	2205	22054.63			0.730	5.000
59	10.00	57977	579771.48			1.048	5.000
115	10.00	103008	1030083.75			1.319	5.000
208	10.00	154727	1547265.25			1.499	5.000

Mass	RSD% (Flag)
24	
59	

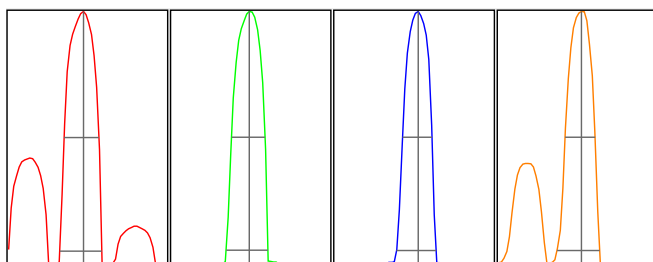
US EPA Tune Check Report

Mass	RSD% (Flag)
115	
208	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
24	2223	2194	2212	2215	2184
59	57366	58115	57763	57688	58954
115	104417	104212	101382	103155	101876
208	157297	152807	151790	155848	155890

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
24	3587.59	23.95	23.90 - 24.10	
59	96915.22	59.00	58.90 - 59.10	
115	194469.35	115.10	114.90 - 115.10	
208	283896.28	208.10	207.90 - 208.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
24	0.65	0.786	0.900	
59	0.63	0.782	0.900	
115	0.55	0.741	0.900	
208	0.56	0.798	0.900	

Integration Time [sec] 0.1

Acquisition Time [sec] 122.96

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.70 L/min	Makeup Gas	0.35 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	8.9 V	Deflect	0.8 V
Extract 2	-130.0 V	Cell Entrance	-40 V	Plate Bias	-55 V
Omega Bias	-70 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	3.0 V
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US EPA Tune Check Report

He Flow 4.3 mL/min

H2 Flow 0.0 mL/min

OctP Bias -18.0 V

OctP RF 200 V

QP Parameters

Mass Gain 123

Mass Offset 125

Axis Gain 0.9996

Axis Offset 0.01

QP Bias -15.0 V

Hardware Settings

Torch

Torch H 0.1 mm

Torch V 0.6 mm

EM

Discriminator 3.1 mV

Analog HV 2150 V

Pulse HV 1235 V

DATA SET for Review - Deliverable Requirements

Volatile Organic Compounds by EPA Method 8260D

Fremont Analytical Work Order No. 2308151

GeoEngineers

Project Name: S Jackson Street

Project Number: 24504-001-01

This data set contains the following:

- Analytical Sequence Summary
- Calibration Information
- Tune Information
- Internal Standards Report

Data Directory: D:\GC-9\DATA\080823\

SampleName	MiscInfo	Vial	Multiplier	Injection Time
R 1) 080801.D	8260.M O-VOC-S		1.000	08 Aug 2023 02:59 pm
R 2) 080802.D	8260.M O-VOC-S		1.000	08 Aug 2023 03:31 pm
R 3) 080803.D	8260.M O-VOC-S		1.000	08 Aug 2023 04:03 pm
R 4) 080804.D	8260.M O-VOC-S		1.000	08 Aug 2023 04:36 pm
R 5) 080805.D	8260.M O-VOC-S		1.000	08 Aug 2023 05:08 pm
R 6) 080806.D	8260.M O-VOC-S		1.000	08 Aug 2023 05:40 pm
R 7) 080807.D	8260.M O-VOC-S		1.000	08 Aug 2023 06:12 pm
R 8) 080808.D	8260.M O-VOC-S		1.000	08 Aug 2023 06:44 pm
R 9) 080809.D	8260.M O-VOC-S		1.000	08 Aug 2023 07:16 pm
R 10) 080810.D	8260.M O-VOC-S		1.000	08 Aug 2023 07:48 pm
R 11) 080811.D	8260.M O-VOC-S		1.000	08 Aug 2023 08:20 pm
R 12) 080812.D	8260.M O-VOC-S		1.000	08 Aug 2023 08:53 pm
R 13) 080813.D	8260.M O-VOC-S		1.000	08 Aug 2023 09:25 pm
R 14) 080814.D	8260.M O-VOC-S		1.000	08 Aug 2023 09:57 pm
R 15) 080815.D	8260.M O-VOC-S		1.000	08 Aug 2023 10:29 pm
R 16) 080816.D	8260.M O-VOC-S		1.000	08 Aug 2023 11:01 pm
R 17) 080817.D	8260.M O-VOC-S		1.000	08 Aug 2023 11:33 pm
R 18) 080818.D	8260.M O-VOC-S		1.000	09 Aug 2023 12:05 am
R 19) 080819.D	8260.M O-VOC-S		1.000	09 Aug 2023 12:37 am
R 20) 080820.D	8260.M O-VOC-S		1.000	09 Aug 2023 01:09 am
R 21) 080821.D	8260.M O-VOC-S		1.000	09 Aug 2023 01:41 am

R	22) 080822.D	8260.M			1.000	09 Aug 2023	02:13 am
		O-VOC-S					
R	23) 080823.D	8260.M			1.000	09 Aug 2023	02:45 am
		O-VOC-S					
R	24) 080824.D	8260.M			1.000	09 Aug 2023	03:17 am
		O-VOC-S					
R	25) 080825.D	8260.M			1.000	09 Aug 2023	03:49 am
		O-VOC-S					
R	26) 080826.D	8260.M			1.000	09 Aug 2023	04:21 am
		O-VOC-S					
R	27) 080827.D	8260.M			1.000	09 Aug 2023	04:53 am
		O-VOC-S					
R	28) 080828.D	8260.M			1.000	09 Aug 2023	05:25 am
		O-VOC-S					
R	29) 080829.D	8260.M			1.000	09 Aug 2023	05:57 am
		O-VOC-S					
R	30) 080830.D	8260.M			1.000	09 Aug 2023	06:28 am
		O-VOC-S					
R	31) 080831.D	8260.M			1.000	09 Aug 2023	07:00 am
		O-VOC-S					
R	32) 080832.D	8260.M			1.000	09 Aug 2023	07:32 am
		O-VOC-S					
R	33) 080833.D	8260.M			1.000	09 Aug 2023	08:03 am
		O-VOC-S					
R	34) 080834.D	8260.M			1.000	09 Aug 2023	08:35 am
		O-VOC-S					
R	35) 080835.D	8260.M			1.000	09 Aug 2023	09:07 am
		O-VOC-S					
GX CAL 1	36) 080836.D	8260.M			1.000	09 Aug 2023	09:39 am
		O-VOC-GX-W	1				
GX CAL 2	37) 080837.D	8260.M			1.000	09 Aug 2023	10:10 am
		O-VOC-GX-W	2				
GX CAL 3	38) 080838.D	8260.M			1.000	09 Aug 2023	10:42 am
		O-VOC-GX-W	3				
GX CAL 4	39) 080839.D	8260.M			1.000	09 Aug 2023	11:14 am
		O-VOC-GX-W	4				
GX CAL 5	40) 080840.D	8260.M			1.000	09 Aug 2023	11:45 am
		O-VOC-GX-W	5				
GX CAL 6	41) 080841.D	8260.M			1.000	09 Aug 2023	12:17 pm
		O-VOC-GX-W	6				
GX CAL 7	42) 080842.D	8260.M			1.000	09 Aug 2023	12:49 pm
		O-VOC-GX-W	7				
R	43) 080843.D	8260.M			1.000	09 Aug 2023	01:20 pm
		O-VOC-GX-W					
R	44) 080844.D	8260.M			1.000	09 Aug 2023	01:52 pm
		O-VOC-GX-W					
	45) 080845.D	8260.M					

GX ICB	O-VOC-GX-W	8	1.000	09 Aug 2023	02:23	pm
46) 080846.D	8260.M					
GX ICV	O-VOC-GX-W	9	1.000	09 Aug 2023	02:55	pm
47) 080847.D	8260.M					
R	O-VOC-GX-W		1.000	09 Aug 2023	03:27	pm
48) 080848.D	8260.M					
GX ICV RR	O-VOC-GX-W	10	1.000	09 Aug 2023	03:59	pm
49) 080849.D	8260.M					
R	O-VOC-GX-W		1.000	09 Aug 2023	04:30	pm
50) 080850.D	8260.M					
GX ICV RRR new std	O-VOC-GX-W	11	1.000	09 Aug 2023	05:11	pm
51) 080851.D	8260.M					
R	O-VOC-GX-W		1.000	09 Aug 2023	05:43	pm
52) 080852.D	8260.M					
R	O-VOC-S		1.000	09 Aug 2023	06:15	pm
53) 080853.D	8260.M					
R	O-VOC-S		1.000	09 Aug 2023	06:47	pm
54) 080854.D	8260.M					
R	O-VOC-S		1.000	09 Aug 2023	07:18	pm
55) 080855.D	8260.M					
R	O-VOC-S		1.000	09 Aug 2023	07:50	pm
56) 080856.D	8260.M					
R	O-VOC-S		1.000	09 Aug 2023	08:22	pm
57) 080857.D	8260.M					
R	O-VOC-S		1.000	09 Aug 2023	08:54	pm
58) 080858.D	8260.M					
VOC S CAL 1	O-VOC-S	12	1.000	09 Aug 2023	09:27	pm
59) 080859.D	8260.M					
VOC S CAL 2	O-VOC-S	13	1.000	09 Aug 2023	09:59	pm
60) 080860.D	8260.M					
VOC S CAL 3	O-VOC-S	14	1.000	09 Aug 2023	10:31	pm
61) 080861.D	8260.M					
VOC S CAL 4	O-VOC-S	15	1.000	09 Aug 2023	11:03	pm
62) 080862.D	8260.M					
VOC S CAL 5	O-VOC-S	16	1.000	09 Aug 2023	11:35	pm
63) 080863.D	8260.M					
VOC S CAL 6	O-VOC-S	17	1.000	10 Aug 2023	12:07	am
64) 080864.D	8260.M					
VOC S CAL 7	O-VOC-S	18	1.000	10 Aug 2023	12:40	am
65) 080865.D	8260.M					
VOC S CAL 8	O-VOC-S	19	1.000	10 Aug 2023	01:12	am
66) 080866.D	8260.M					
R	O-VOC-S		1.000	10 Aug 2023	01:44	am
67) 080867.D	8260.M					
R	O-VOC-S		1.000	10 Aug 2023	02:16	am
68) 080868.D	8260.M					
ICB	O-VOC-S	20	1.000	10 Aug 2023	02:48	am

69)	080869.D	8260.M					
ICV	O-VOC-S		21	1.000	10 Aug 2023	03:20	am

70)	080870.D	8260.M					
R	O-VOC-S			1.000	10 Aug 2023	03:52	am

71)	080871.D	8260.M					
R	O-VOC-S			1.000	10 Aug 2023	04:24	am

72)	080872.D	8260.M					
R	O-VOC-S			1.000	10 Aug 2023	04:56	am

73)	081003.D	8260.M					
VOC S CCV A	O-VOC-S		2	1.000	10 Aug 2023	10:24	am

74)	081004.D	8260.M					
GX CCV	O-VOC-GX-S		3	1.000	10 Aug 2023	10:55	am

Data Directory: D:\GC-9\DATA\081023\

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) 081001.D R	8260.M O-VOC-S		1.000	10 Aug 2023 09:20 am
2) 081002.D VOC W CCV A	8260.M O-VOC-W	1	1.000	10 Aug 2023 09:52 am
3) 081003.D VOC S CCV A	8260.M O-VOC-S	2	1.000	10 Aug 2023 10:24 am
4) 081004.D GX CCV	8260.M O-VOC-GX-S	3	1.000	10 Aug 2023 10:55 am
5) 081005.D R	8260.M O-VOC-S		1.000	10 Aug 2023 11:27 am
6) 081006.D MB S	8260.M O-VOC-S	4	1.000	10 Aug 2023 12:58 pm
7) 081007.D VOC S MDL 0.1	8260.M O-VOC-S	5	1.000	10 Aug 2023 01:30 pm
8) 081008.D VOC S MDL 0.2	8260.M O-VOC-S	6	1.000	10 Aug 2023 02:02 pm
9) 081009.D VOC S MDL 0.5	8260.M O-VOC-S	7	1.000	10 Aug 2023 02:33 pm
10) 081010.D VOC S MDL 1.0	8260.M O-VOC-S	8	1.000	10 Aug 2023 03:05 pm
11) 081011.D VOC S MDL 2.0	8260.M O-VOC-S	9	1.000	10 Aug 2023 03:37 pm
12) 081012.D GX W 25	8260.M O-VOC-S	10	1.000	10 Aug 2023 04:09 pm
13) 081013.D GX W 50	8260.M O-VOC-S	11	1.000	10 Aug 2023 04:41 pm
14) 081014.D GX S 25	8260.M O-VOC-S	12	1.000	10 Aug 2023 05:13 pm
15) 081015.D GX S 50	8260.M O-VOC-S	13	1.000	10 Aug 2023 05:45 pm
16) 081016.D R	8260.M O-VOC-S		1.000	10 Aug 2023 06:16 pm
17) 081017.D 2308100-001B	8260.M O-VOC-S	14	1.000	10 Aug 2023 06:48 pm
18) 081018.D 2308100-002B	8260.M O-VOC-S	15	1.000	10 Aug 2023 07:20 pm
19) 081019.D 2308100-003B	8260.M O-VOC-S	16	1.000	10 Aug 2023 07:52 pm
20) 081020.D 2308100-004B	8260.M O-VOC-S	17	1.000	10 Aug 2023 08:24 pm
21) 081021.D 2308037-003B	8260.M O-VOC-S	18	1.000	10 Aug 2023 08:56 pm

22)	081022.D	8260.M					
2308037-003	BDUP	O-VOC-S	20	1.000	10 Aug 2023	09:28	pm
23)	081023.D	8260.M					
R		O-VOC-S		1.000	10 Aug 2023	10:00	pm
24)	081024.D	8260.M					
VOC S	CCV B	O-VOC-S	22	1.000	10 Aug 2023	10:32	pm
25)	081025.D	8260.M					
GX	CCV B	O-VOC-S	23	1.000	10 Aug 2023	11:04	pm
26)	081026.D	8260.M					
R		O-VOC-S		1.000	10 Aug 2023	11:36	pm
27)	081027.D	8260.M					
MB-41178		O-VOC-S	42	1.000	11 Aug 2023	12:08	am
28)	081028.D	8260.M					
2308159-001B	10x	O-VOC-S	43	1.000	11 Aug 2023	12:40	am
29)	081029.D	8260.M					
2308159-001B	BDUP 10X	O-VOC-S	44	1.000	11 Aug 2023	01:12	am
30)	081030.D	8260.M					
2308159-001B		O-VOC-S	45	1.000	11 Aug 2023	01:44	am
31)	081031.D	8260.M					
R		O-VOC-S		1.000	11 Aug 2023	02:16	am
32)	081032.D	8260.M					
2308159-003B	10X	O-VOC-S	46	1.000	11 Aug 2023	02:48	am
33)	081033.D	8260.M					
2308159-003B		O-VOC-S	47	1.000	11 Aug 2023	03:20	am
34)	081034.D	8260.M					
R		O-VOC-S		1.000	11 Aug 2023	03:52	am
35)	081035.D	8260.M					
2308159-004B	10X	O-VOC-S	48	1.000	11 Aug 2023	04:24	am
36)	081036.D	8260.M					
2308159-004B		O-VOC-S	49	1.000	11 Aug 2023	04:55	am
37)	081037.D	8260.M					
R		O-VOC-S		1.000	11 Aug 2023	05:27	am
38)	081038.D	8260.M					
2308159-005B	10X	O-VOC-S	50	1.000	11 Aug 2023	05:58	am
39)	081039.D	8260.M					
2308159-005B		O-VOC-S	51	1.000	11 Aug 2023	06:30	am
40)	081040.D	8260.M					
R		O-VOC-S		1.000	11 Aug 2023	07:01	am
41)	081041.D	8260.M					
2308159-002B	10X	O-VOC-S	52	1.000	11 Aug 2023	07:33	am
42)	081042.D	8260.M					
2308159-002B		O-VOC-S	53	1.000	11 Aug 2023	08:04	am
43)	081043.D	8260.M					
R		O-VOC-S		1.000	11 Aug 2023	08:36	am
44)	081044.D	8260.M					
2308159-002B	MMS 10X..	O-VOC-S	54	1.000	11 Aug 2023	09:08	am
45)	081045.D	8260.M					

	O-VOC-S			1.000	11 Aug 2023	09:39	am
46) 081046.D	8260.M						
2308139-001B	O-VOC-S	57	1.000	11 Aug 2023	10:11		am
47) 081047.D	8260.M						
2308139-002B	O-VOC-S	58	1.000	11 Aug 2023	10:43		am
48) 081048.D	8260.M						
2308139-003B	O-VOC-S	59	1.000	11 Aug 2023	11:15		am
49) 081049.D	8260.M						
2308139-002BMS VOC	O-VOC-S	60	1.000	11 Aug 2023	11:47		am
50) 081050.D	8260.M						
VOC S CCV C	O-VOC-S	55	1.000	11 Aug 2023	12:18		pm
51) 081051.D	8260.M						
GX CCV C	O-VOC-S	56	1.000	11 Aug 2023	12:50		pm
52) 081052.D	8260.M						
R	O-VOC-S		1.000	11 Aug 2023	01:22		pm
53) 081053.D	8260.M						
VOC-S MDL2 0.1	O-VOC-S	1	1.000	11 Aug 2023	01:54		pm
54) 081054.D	8260.M						
VOC-S MDL2 0.2	O-VOC-S	2	1.000	11 Aug 2023	02:26		pm
55) 081055.D	8260.M						
VOC-S MDL2 0.5	O-VOC-S	3	1.000	11 Aug 2023	02:58		pm
56) 081056.D	8260.M						
VOC-S MDL2 1.0	O-VOC-S	4	1.000	11 Aug 2023	03:30		pm
57) 081057.D	8260.M						
VOC-S MDL2 2.0	O-VOC-S	5	1.000	11 Aug 2023	04:02		pm
58) 081058.D	8260.M						
GX-W MDL2 25	O-VOC-S	6	1.000	11 Aug 2023	04:34		pm
59) 081059.D	8260.M						
GX-W MDL2 50	O-VOC-S	7	1.000	11 Aug 2023	05:06		pm
60) 081060.D	8260.M						
GX-S MDL1 25	O-VOC-S	8	1.000	11 Aug 2023	05:38		pm
61) 081061.D	8260.M						
GX-S MDL1 50	O-VOC-S	9	1.000	11 Aug 2023	06:10		pm
62) 081062.D	8260.M						
R	O-VOC-S		1.000	11 Aug 2023	06:42		pm
63) 081063.D	8260.M						
2308037-001B	O-VOC-S	10	1.000	11 Aug 2023	07:13		pm
64) 081064.D	8260.M						
2308037-002B	O-VOC-S	11	1.000	11 Aug 2023	07:45		pm
65) 081065.D	8260.M						
2308037-005B	O-VOC-S	12	1.000	11 Aug 2023	08:17		pm
66) 081066.D	8260.M						
2308037-006B	O-VOC-S	13	1.000	11 Aug 2023	08:50		pm
67) 081067.D	8260.M						
2308037-007B	O-VOC-S	14	1.000	11 Aug 2023	09:22		pm
68) 081068.D	8260.M						
2308037-008B	O-VOC-S	15	1.000	11 Aug 2023	09:54		pm

69)	081069.D		8260.M						
2308037-009B		O-VOC-S		16	1.000	11 Aug 2023	10:26	pm	
70)	081070.D		8260.M						
2308037-004B		O-VOC-S		17	1.000	11 Aug 2023	10:58	pm	
71)	081071.D		8260.M						
2308037-004BMS GX		O-VOC-S		18	1.000	11 Aug 2023	11:30	pm	
72)	081072.D		8260.M						
R		O-VOC-S			1.000	12 Aug 2023	12:02	am	
73)	081073.D		8260.M						
CCV-41166C_41161C ..		O-VOC-S		19	1.000	12 Aug 2023	12:34	am	
74)	081074.D		8260.M						
CCV-41166C_41161C GX		O-VOC-S		20	1.000	12 Aug 2023	01:06	am	
75)	081075.D		8260.M						
R		O-VOC-S			1.000	12 Aug 2023	01:38	am	
76)	081076.D		8260.M						
MB		O-VOC-S		21	1.000	12 Aug 2023	02:10	am	
77)	081077.D		8260.M						
2308037-010B		O-VOC-S		22	1.000	12 Aug 2023	02:42	am	
78)	081078.D		8260.M						
2308037-010BDUP		O-VOC-S		23	1.000	12 Aug 2023	03:14	am	
79)	081079.D		8260.M						
2308037-011B		O-VOC-S		24	1.000	12 Aug 2023	03:46	am	
80)	081080.D		8260.M						
2308037-012B		O-VOC-S		25	1.000	12 Aug 2023	04:18	am	
81)	081081.D		8260.M						
2308044-001B		O-VOC-S		26	1.000	12 Aug 2023	04:49	am	
82)	081082.D		8260.M						
2308044-002B		O-VOC-S		27	1.000	12 Aug 2023	05:21	am	
83)	081083.D		8260.M						
2308044-003B		O-VOC-S		28	1.000	12 Aug 2023	05:52	am	
84)	081084.D		8260.M						
2308044-004B		O-VOC-S		29	1.000	12 Aug 2023	06:24	am	
85)	081085.D		8260.M						
2308044-005B 41166		O-VOC-S		30	1.000	12 Aug 2023	06:56	am	
86)	081086.D		8260.M						
2308044-006B		O-VOC-S		31	1.000	12 Aug 2023	07:27	am	
87)	081087.D		8260.M						
2308044-007B		O-VOC-S		32	1.000	12 Aug 2023	07:59	am	
88)	081088.D		8260.M						
2308044-008B		O-VOC-S		33	1.000	12 Aug 2023	08:30	am	
89)	081089.D		8260.M						
2308044-009B		O-VOC-S		34	1.000	12 Aug 2023	09:02	am	
90)	081090.D		8260.M						
2308044-010B		O-VOC-S		35	1.000	12 Aug 2023	09:34	am	
91)	081091.D		8260.M						
2308044-011B		O-VOC-S		36	1.000	12 Aug 2023	10:05	am	

92)	081092.D		8260.M						
2308037-	011BVOC MS..	O-VOC-S		37	1.000	12 Aug 2023	10:37	am	
93)	081093.D		8260.M						
R		O-VOC-S			1.000	12 Aug 2023	11:09	am	
94)	081094.D		8260.M						
CCV-41166D_41178D	..	O-VOC-S		38	1.000	12 Aug 2023	11:40	am	
95)	081095.D		8260.M						
CCV-41166D_41178D	GX	O-VOC-S		39	1.000	12 Aug 2023	12:12	pm	
96)	081096.D		8260.M						
R		O-VOC-S			1.000	12 Aug 2023	12:44	pm	
97)	081097.D		8260.M						
MB		O-VOC-S		40	1.000	12 Aug 2023	01:16	pm	
98)	081098.D		8260.M						
2308044-014B		O-VOC-S		41	1.000	12 Aug 2023	01:47	pm	
99)	081099.D		8260.M						
2308044-014BDUP		O-VOC-S		42	1.000	12 Aug 2023	02:19	pm	
100)	081100.D		8260.M						
2308044-017B		O-VOC-S		43	1.000	12 Aug 2023	02:51	pm	
101)	081101.D		8260.M						
2308044-020B		O-VOC-S		44	1.000	12 Aug 2023	03:23	pm	
102)	081102.D		8260.M						
2308044-023B		O-VOC-S		45	1.000	12 Aug 2023	03:55	pm	
103)	081103.D		8260.M						
2308044-023BDUP		O-VOC-S		46	1.000	12 Aug 2023	04:27	pm	
104)	081104.D		8260.M						
2308151-002B	41178	O-VOC-S		47	1.000	12 Aug 2023	04:59	pm	
105)	081105.D		8260.M						
2308151-003B	41161	O-VOC-S		48	1.000	12 Aug 2023	05:30	pm	
106)	081106.D		8260.M						
2308151-005B		O-VOC-S		49	1.000	12 Aug 2023	06:02	pm	
107)	081107.D		8260.M						
2308151-006B		O-VOC-S		50	1.000	12 Aug 2023	06:34	pm	
108)	081108.D		8260.M						
2308151-008B		O-VOC-S		51	1.000	12 Aug 2023	07:06	pm	
109)	081109.D		8260.M						
2308151-009B		O-VOC-S		52	1.000	12 Aug 2023	07:38	pm	
110)	081110.D		8260.M						
2308151-010B		O-VOC-S		53	1.000	12 Aug 2023	08:10	pm	
111)	081111.D		8260.M						
2308151-011B		O-VOC-S		54	1.000	12 Aug 2023	08:42	pm	
112)	081112.D		8260.M						
2308151-012B		O-VOC-S		55	1.000	12 Aug 2023	09:14	pm	
113)	081113.D		8260.M						
2308111-001B		O-VOC-S		56	1.000	12 Aug 2023	09:46	pm	
114)	081114.D		8260.M						
2308111-001BMS	GX	O-VOC-S		57	1.000	12 Aug 2023	10:18	pm	
115)	081115.D		8260.M						

2308044-017BMS	VOC	O-VOC-S	58	1.000	12 Aug 2023	10:50 pm

116)	081116.D		8260.M			
R		O-VOC-S		1.000	12 Aug 2023	11:22 pm

117)	081117.D		8260.M			
CCV-41166E_41178E	..	O-VOC-S	59	1.000	12 Aug 2023	11:53 pm

118)	081118.D		8260.M			
CCV-41166E_41178E	GX	O-VOC-S	60	1.000	13 Aug 2023	12:25 am

119)	081119.D		8260.M			
R		O-VOC-S		1.000	13 Aug 2023	12:58 am

Data Directory: D:\GC-9\DATA\081423\

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) 081414.D	8260.M			
No data found			0.000	N/A

2) 081401.D	8260.M			
R	O-VOC-S		1.000	14 Aug 2023 08:54 am

3) 081402.D	8260.M			
VOC W CCV A	O-VOC-W	1	1.000	14 Aug 2023 09:26 am

4) 081403.D	8260.M			
VOC S CCV A	O-VOC-S	2	1.000	14 Aug 2023 09:58 am

5) 081404.D	8260.M			
GX CCV	O-VOC-GX-S	3	1.000	14 Aug 2023 10:30 am

6) 081405.D	8260.M			
R	O-VOC-S		1.000	14 Aug 2023 11:02 am

7) 081406.D	8260.M			
2308151-006B RR	O-VOC-S	4	1.000	14 Aug 2023 11:34 am

8) 081407.D	8260.M			
2308151-010B RR	O-VOC-S	5	1.000	14 Aug 2023 12:06 pm

9) 081408.D	8260.M			
2308151-012B RR	O-VOC-S	6	1.000	14 Aug 2023 12:38 pm

10) 081409.D	8260.M			
2308151-005B 100X	O-VOC-S	7	1.000	14 Aug 2023 01:11 pm

11) 081410.D	8260.M			
2308151-011B 10X	O-VOC-S	8	1.000	14 Aug 2023 01:43 pm

12) 081411.D	8260.M			
2308151-009B 50X	O-VOC-S	9	1.000	14 Aug 2023 02:15 pm

13) 081412.D	8260.M			
R	O-VOC-S		1.000	14 Aug 2023 02:48 pm

14) 081413.D	8260.M			
2308151-005B 20x	O-VOC-GX-S	12	1.000	14 Aug 2023 03:21 pm



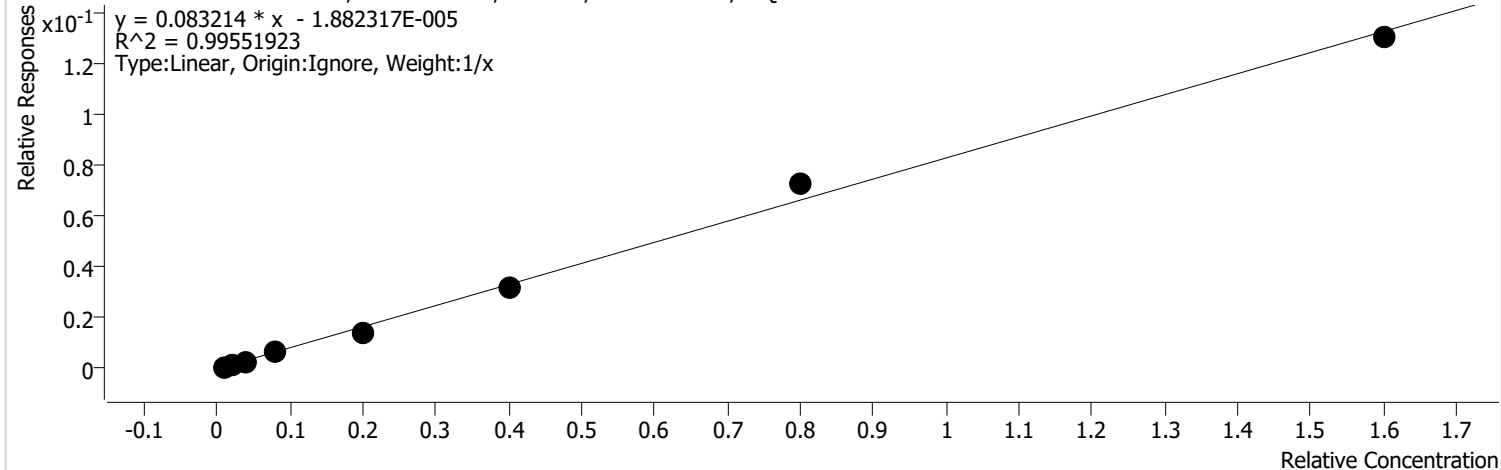
Calibration

Calibration Report

Batch Path	D:\GC-9\DATA\080823\QuantResults\voc s cal.batch.bin		
Analysis Time	8/10/2023 4:55 PM	Analyst Name	FA\GC9
Report Time	8/10/2023 5:00:29 PM	Reporter Name	FA\GC9
Last Calib Update	8/10/2023 1:10 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Dichlorodifluoromethane %RSE = 11.7

Dichlorodifluoromethane - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



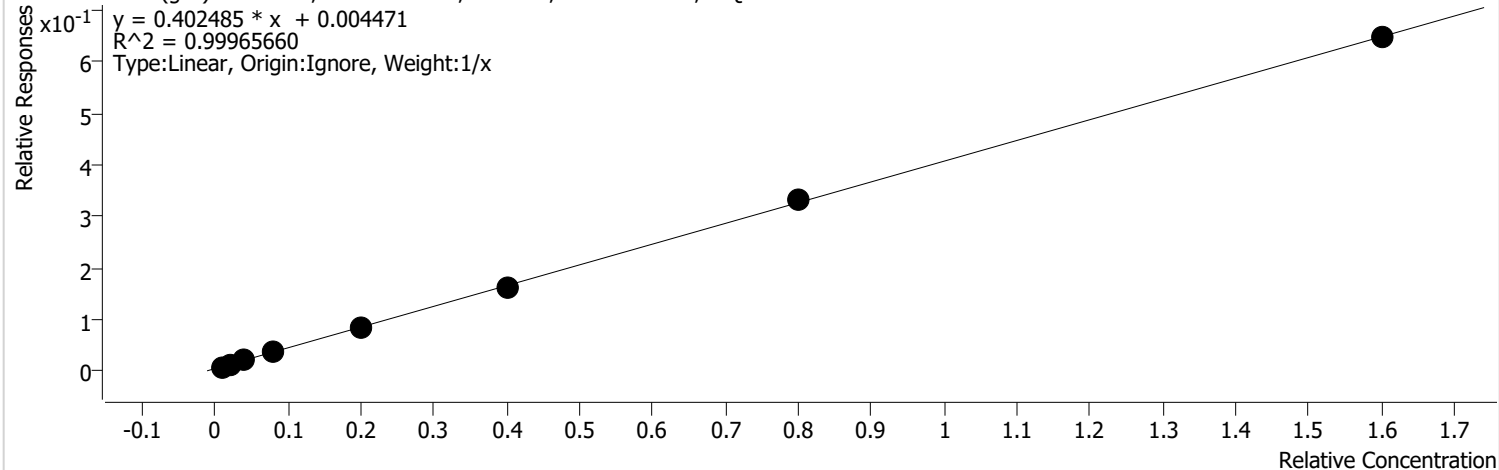
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-9\DATA\080823\080858.D	Calibration	1	x	4951	0.2000	0.0979	
D:\GC-9\DATA\080823\080859.D	Calibration	2	x	9972	0.5000	0.0784	
D:\GC-9\DATA\080823\080860.D	Calibration	3	x	19412	1.0000	0.0757	
D:\GC-9\DATA\080823\080861.D	Calibration	4	x	43325	2.0000	0.0856	
D:\GC-9\DATA\080823\080862.D	Calibration	5	x	87975	5.0000	0.0719	
D:\GC-9\DATA\080823\080863.D	Calibration	6	x	193751	10.0000	0.0793	
D:\GC-9\DATA\080823\080864.D	Calibration	7	x	434950	20.0000	0.0910	
D:\GC-9\DATA\080823\080865.D	Calibration	8	x	763990	40.0000	0.0817	

Calibration Report

Batch Path	D:\GC-9\DATA\080823\QuantResults\voc s cal.batch.bin		
Analysis Time	8/10/2023 4:55 PM	Analyst Name	FA\GC9
Report Time	8/10/2023 5:00:30 PM	Reporter Name	FA\GC9
Last Calib Update	8/10/2023 1:10 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Chloromethane (gas) %RSE = 3.7

Chloromethane (gas) - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

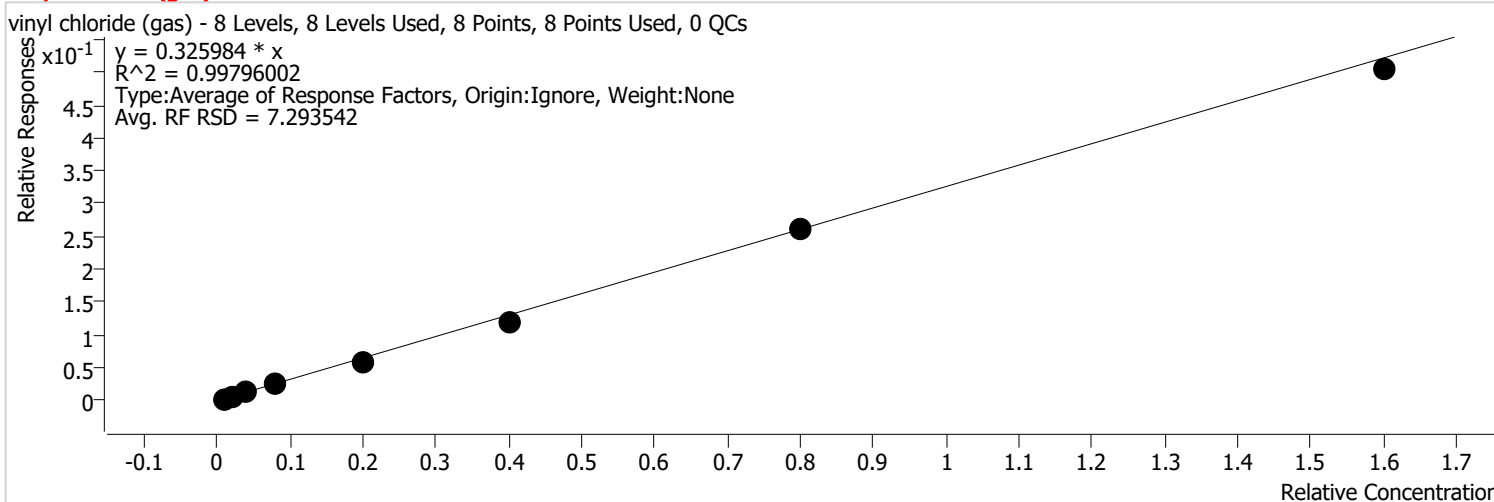


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-9\DATA\080823\080858.D	Calibration	1	x	49831	0.2000	0.9854	
D:\GC-9\DATA\080823\080859.D	Calibration	2	x	80095	0.5000	0.6296	
D:\GC-9\DATA\080823\080860.D	Calibration	3	x	128170	1.0000	0.5000	
D:\GC-9\DATA\080823\080861.D	Calibration	4	x	224190	2.0000	0.4429	
D:\GC-9\DATA\080823\080862.D	Calibration	5	x	527458	5.0000	0.4314	
D:\GC-9\DATA\080823\080863.D	Calibration	6	x	981816	10.0000	0.4018	
D:\GC-9\DATA\080823\080864.D	Calibration	7	x	1991172	20.0000	0.4167	
D:\GC-9\DATA\080823\080865.D	Calibration	8	x	3780536	40.0000	0.4041	

Calibration Report

Batch Path	D:\GC-9\DATA\080823\QuantResults\voc s cal.batch.bin		
Analysis Time	8/10/2023 4:55 PM	Analyst Name	FA\GC9
Report Time	8/10/2023 5:00:30 PM	Reporter Name	FA\GC9
Last Calib Update	8/10/2023 1:10 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

vinyl chloride (gas) %RSE = 7.3



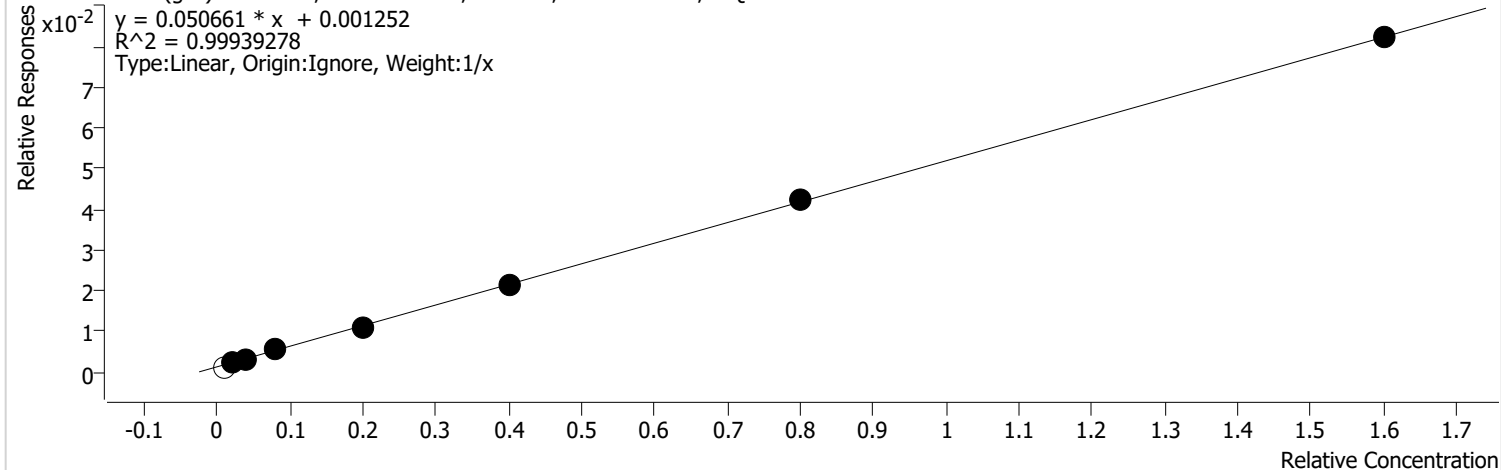
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-9\DATA\080823\080858.D	Calibration	1	x	18874	0.2000	0.3732	
D:\GC-9\DATA\080823\080859.D	Calibration	2	x	42521	0.5000	0.3342	
D:\GC-9\DATA\080823\080860.D	Calibration	3	x	86732	1.0000	0.3383	
D:\GC-9\DATA\080823\080861.D	Calibration	4	x	162889	2.0000	0.3218	
D:\GC-9\DATA\080823\080862.D	Calibration	5	x	363751	5.0000	0.2975	
D:\GC-9\DATA\080823\080863.D	Calibration	6	x	739293	10.0000	0.3026	
D:\GC-9\DATA\080823\080864.D	Calibration	7	x	1555141	20.0000	0.3255	
D:\GC-9\DATA\080823\080865.D	Calibration	8	x	2945117	40.0000	0.3148	

Calibration Report

Batch Path	D:\GC-9\DATA\080823\QuantResults\voc s cal.batch.bin		
Analysis Time	8/10/2023 4:55 PM	Analyst Name	FA\GC9
Report Time	8/10/2023 5:00:30 PM	Reporter Name	FA\GC9
Last Calib Update	8/10/2023 1:10 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Bromomethane (gas) %RSE = 5.8

Bromomethane (gas) - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 0 QCs

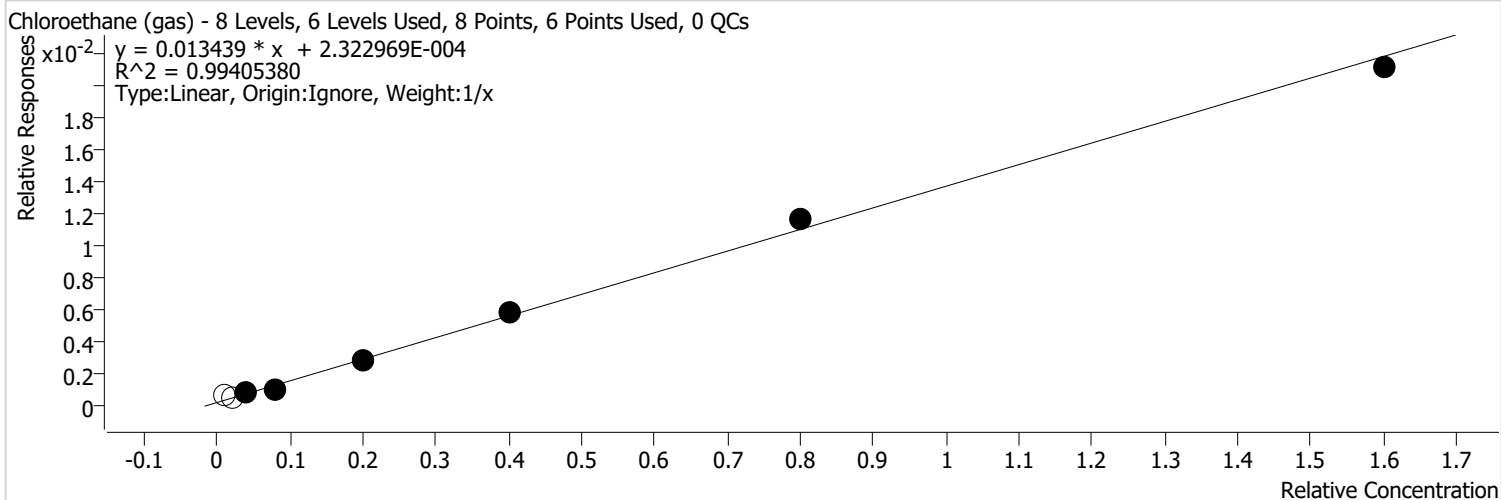


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-9\DATA\080823\080858.D	Calibration	1		7935	0.2000	0.1569	
D:\GC-9\DATA\080823\080859.D	Calibration	2	x	14691	0.5000	0.1155	
D:\GC-9\DATA\080823\080860.D	Calibration	3	x	19969	1.0000	0.0779	
D:\GC-9\DATA\080823\080861.D	Calibration	4	x	35619	2.0000	0.0704	
D:\GC-9\DATA\080823\080862.D	Calibration	5	x	67274	5.0000	0.0550	
D:\GC-9\DATA\080823\080863.D	Calibration	6	x	128611	10.0000	0.0526	
D:\GC-9\DATA\080823\080864.D	Calibration	7	x	254206	20.0000	0.0532	
D:\GC-9\DATA\080823\080865.D	Calibration	8	x	480500	40.0000	0.0514	

Calibration Report

Batch Path	D:\GC-9\DATA\080823\QuantResults\voc s cal.batch.bin		
Analysis Time	8/10/2023 4:55 PM	Analyst Name	FA\GC9
Report Time	8/10/2023 5:00:30 PM	Reporter Name	FA\GC9
Last Calib Update	8/10/2023 1:10 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Chloroethane (gas) %RSE = 18.3



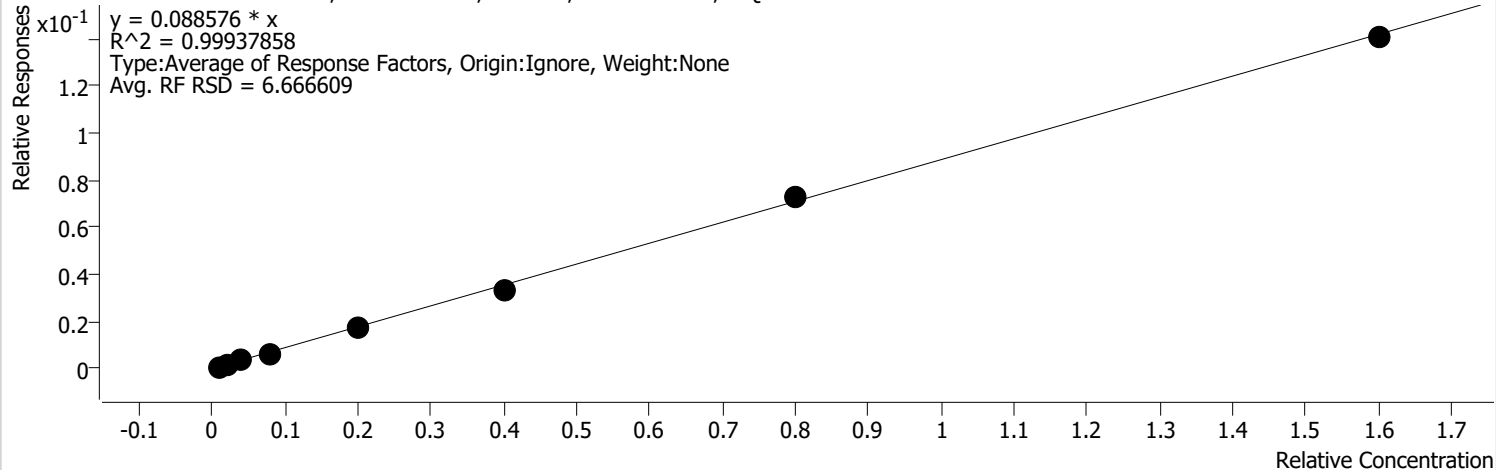
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-9\DATA\080823\080858.D	Calibration	1		4056	0.2000	0.0802	
D:\GC-9\DATA\080823\080859.D	Calibration	2		3723	0.5000	0.0293	
D:\GC-9\DATA\080823\080860.D	Calibration	3	x	5692	1.0000	0.0222	
D:\GC-9\DATA\080823\080861.D	Calibration	4	x	6369	2.0000	0.0126	
D:\GC-9\DATA\080823\080862.D	Calibration	5	x	17531	5.0000	0.0143	
D:\GC-9\DATA\080823\080863.D	Calibration	6	x	35902	10.0000	0.0147	
D:\GC-9\DATA\080823\080864.D	Calibration	7	x	69585	20.0000	0.0146	
D:\GC-9\DATA\080823\080865.D	Calibration	8	x	123000	40.0000	0.0131	

Calibration Report

Batch Path	D:\GC-9\DATA\080823\QuantResults\voc s cal.batch.bin		
Analysis Time	8/10/2023 4:55 PM	Analyst Name	FA\GC9
Report Time	8/10/2023 5:00:30 PM	Reporter Name	FA\GC9
Last Calib Update	8/10/2023 1:10 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Trichlorofluoromethane %RSE = 6.7

Trichlorofluoromethane - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



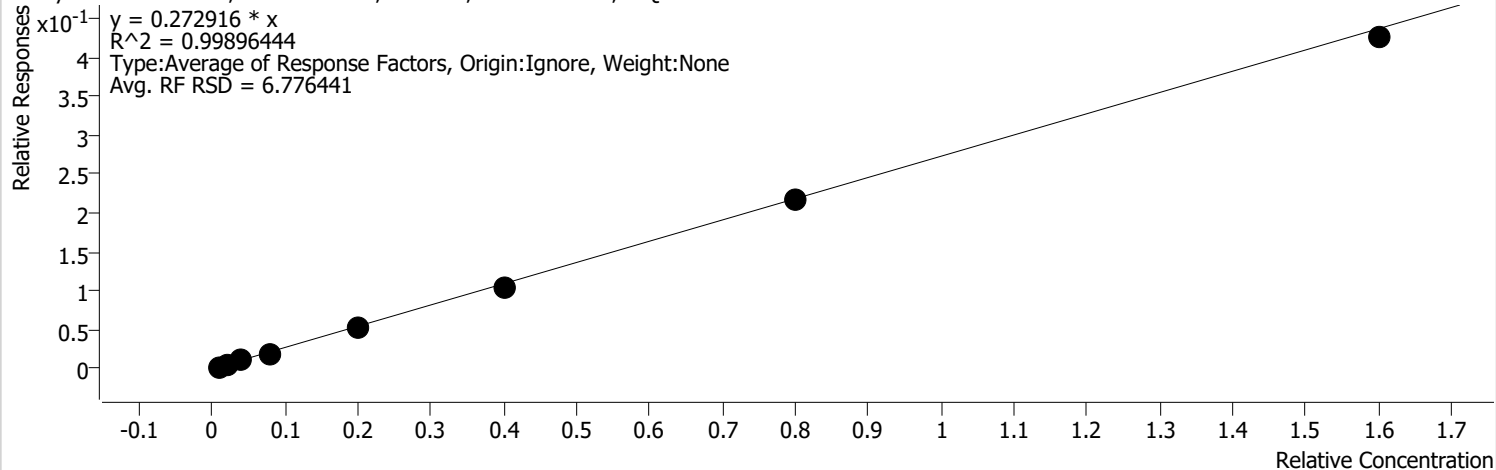
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-9\DATA\080823\080858.D	Calibration	1	x	4624	0.2000	0.0914	
D:\GC-9\DATA\080823\080859.D	Calibration	2	x	12791	0.5000	0.1005	
D:\GC-9\DATA\080823\080860.D	Calibration	3	x	22257	1.0000	0.0868	
D:\GC-9\DATA\080823\080861.D	Calibration	4	x	41171	2.0000	0.0813	
D:\GC-9\DATA\080823\080862.D	Calibration	5	x	104738	5.0000	0.0857	
D:\GC-9\DATA\080823\080863.D	Calibration	6	x	205213	10.0000	0.0840	
D:\GC-9\DATA\080823\080864.D	Calibration	7	x	435563	20.0000	0.0912	
D:\GC-9\DATA\080823\080865.D	Calibration	8	x	820235	40.0000	0.0877	

Calibration Report

Batch Path	D:\GC-9\DATA\080823\QuantResults\voc s cal.batch.bin		
Analysis Time	8/10/2023 4:55 PM	Analyst Name	FA\GC9
Report Time	8/10/2023 5:00:30 PM	Reporter Name	FA\GC9
Last Calib Update	8/10/2023 1:10 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Diethyl ether %RSE = 6.8

Diethyl ether - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



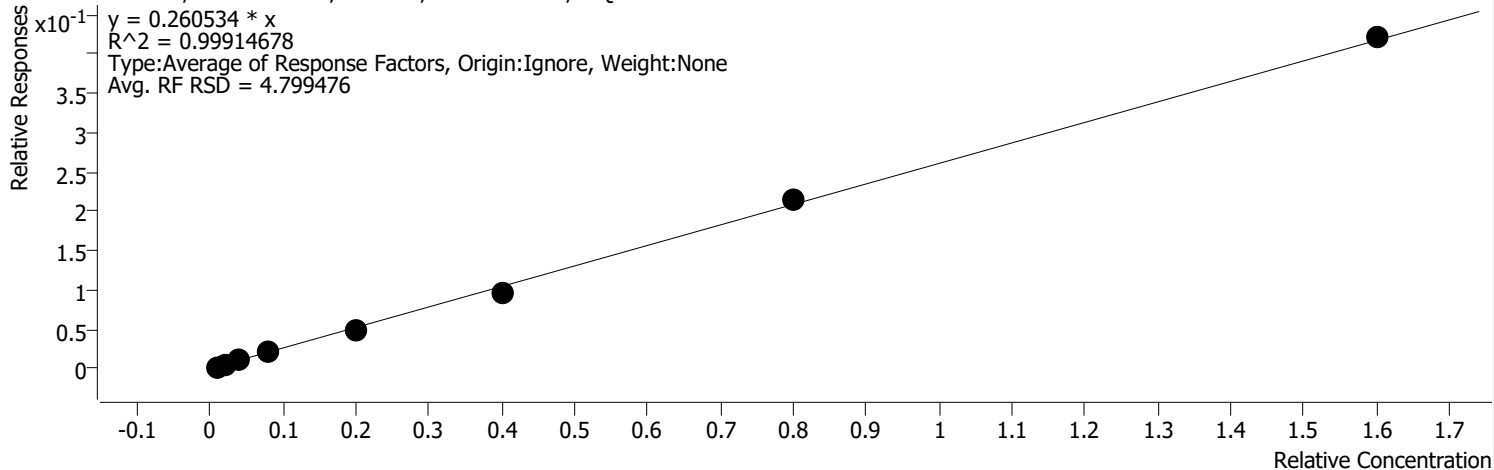
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-9\DATA\080823\080858.D	Calibration	1	x	15500	0.2000	0.3065	
D:\GC-9\DATA\080823\080859.D	Calibration	2	x	37574	0.5000	0.2953	
D:\GC-9\DATA\080823\080860.D	Calibration	3	x	68706	1.0000	0.2680	
D:\GC-9\DATA\080823\080861.D	Calibration	4	x	127095	2.0000	0.2511	
D:\GC-9\DATA\080823\080862.D	Calibration	5	x	320969	5.0000	0.2625	
D:\GC-9\DATA\080823\080863.D	Calibration	6	x	642773	10.0000	0.2631	
D:\GC-9\DATA\080823\080864.D	Calibration	7	x	1295623	20.0000	0.2712	
D:\GC-9\DATA\080823\080865.D	Calibration	8	x	2485735	40.0000	0.2657	

Calibration Report

Batch Path	D:\GC-9\DATA\080823\QuantResults\voc s cal.batch.bin		
Analysis Time	8/10/2023 4:55 PM	Analyst Name	FA\GC9
Report Time	8/10/2023 5:00:30 PM	Reporter Name	FA\GC9
Last Calib Update	8/10/2023 1:10 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

CFC 113 %RSE = 4.8

CFC 113 - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

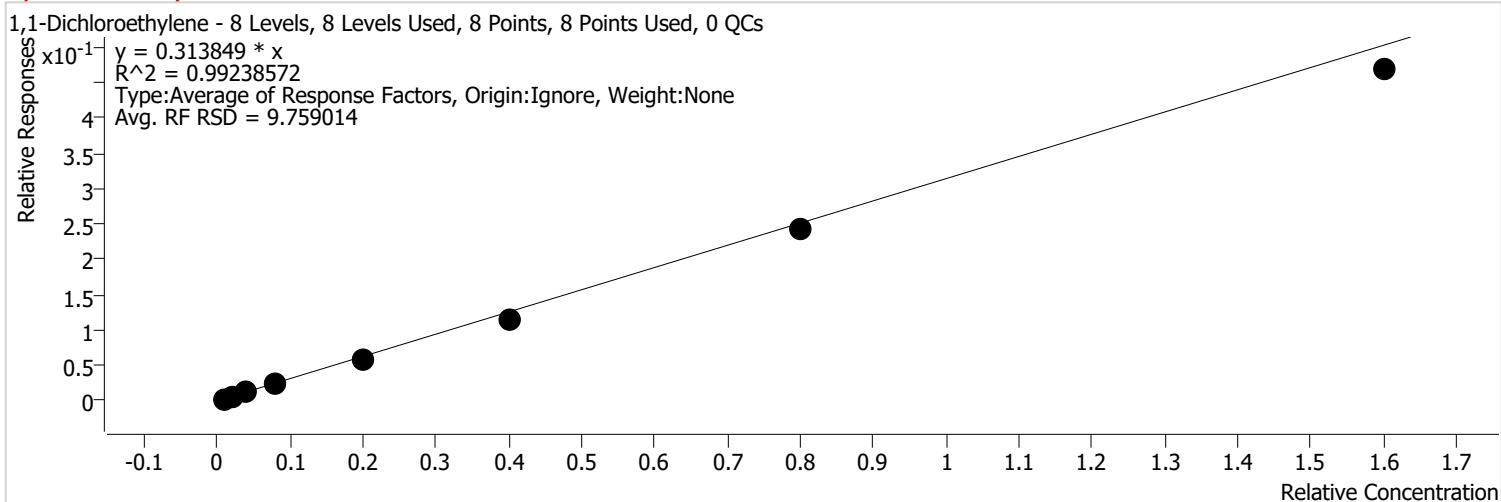


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-9\DATA\080823\080858.D	Calibration	1	x	13388	0.2000	0.2648	
D:\GC-9\DATA\080823\080859.D	Calibration	2	x	35663	0.5000	0.2803	
D:\GC-9\DATA\080823\080860.D	Calibration	3	x	67835	1.0000	0.2646	
D:\GC-9\DATA\080823\080861.D	Calibration	4	x	127769	2.0000	0.2524	
D:\GC-9\DATA\080823\080862.D	Calibration	5	x	302242	5.0000	0.2472	
D:\GC-9\DATA\080823\080863.D	Calibration	6	x	592188	10.0000	0.2424	
D:\GC-9\DATA\080823\080864.D	Calibration	7	x	1290087	20.0000	0.2700	
D:\GC-9\DATA\080823\080865.D	Calibration	8	x	2457277	40.0000	0.2626	

Calibration Report

Batch Path	D:\GC-9\DATA\080823\QuantResults\voc s cal.batch.bin		
Analysis Time	8/10/2023 4:55 PM	Analyst Name	FA\GC9
Report Time	8/10/2023 5:00:30 PM	Reporter Name	FA\GC9
Last Calib Update	8/10/2023 1:10 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,1-Dichloroethylene %RSE = 9.8



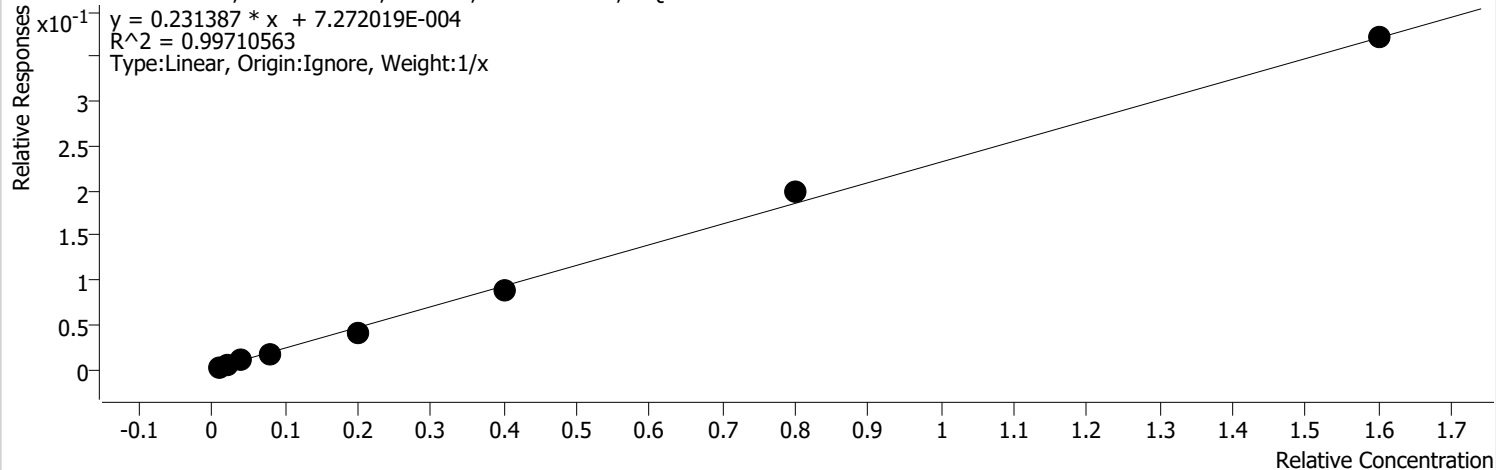
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-9\DATA\080823\080858.D	Calibration	1	x	18368	0.2000	0.3632	
D:\GC-9\DATA\080823\080859.D	Calibration	2	x	45551	0.5000	0.3581	
D:\GC-9\DATA\080823\080860.D	Calibration	3	x	81667	1.0000	0.3186	
D:\GC-9\DATA\080823\080861.D	Calibration	4	x	150276	2.0000	0.2969	
D:\GC-9\DATA\080823\080862.D	Calibration	5	x	360306	5.0000	0.2947	
D:\GC-9\DATA\080823\080863.D	Calibration	6	x	692420	10.0000	0.2834	
D:\GC-9\DATA\080823\080864.D	Calibration	7	x	1451300	20.0000	0.3037	
D:\GC-9\DATA\080823\080865.D	Calibration	8	x	2734682	40.0000	0.2923	

Calibration Report

Batch Path	D:\GC-9\DATA\080823\QuantResults\voc s cal.batch.bin		
Analysis Time	8/10/2023 4:55 PM	Analyst Name	FA\GC9
Report Time	8/10/2023 5:00:30 PM	Reporter Name	FA\GC9
Last Calib Update	8/10/2023 1:10 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Iodomethane %RSE = 10.8

Iodomethane - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



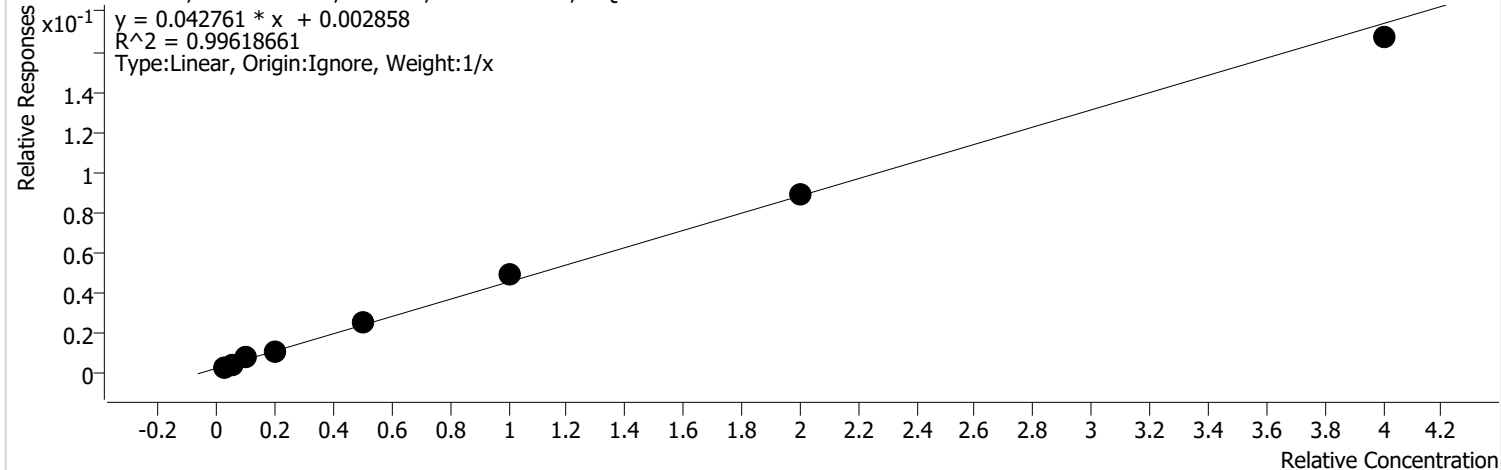
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-9\DATA\080823\080858.D	Calibration	1	x	18594	0.2000	0.3677	
D:\GC-9\DATA\080823\080859.D	Calibration	2	x	34878	0.5000	0.2742	
D:\GC-9\DATA\080823\080860.D	Calibration	3	x	62562	1.0000	0.2440	
D:\GC-9\DATA\080823\080861.D	Calibration	4	x	111449	2.0000	0.2202	
D:\GC-9\DATA\080823\080862.D	Calibration	5	x	252098	5.0000	0.2062	
D:\GC-9\DATA\080823\080863.D	Calibration	6	x	540864	10.0000	0.2214	
D:\GC-9\DATA\080823\080864.D	Calibration	7	x	1179612	20.0000	0.2469	
D:\GC-9\DATA\080823\080865.D	Calibration	8	x	2170344	40.0000	0.2320	

Calibration Report

Batch Path	D:\GC-9\DATA\080823\QuantResults\voc s cal.batch.bin		
Analysis Time	8/10/2023 4:55 PM	Analyst Name	FA\GC9
Report Time	8/10/2023 5:00:30 PM	Reporter Name	FA\GC9
Last Calib Update	8/10/2023 1:10 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Acetone %RSE = 14.3

Acetone - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



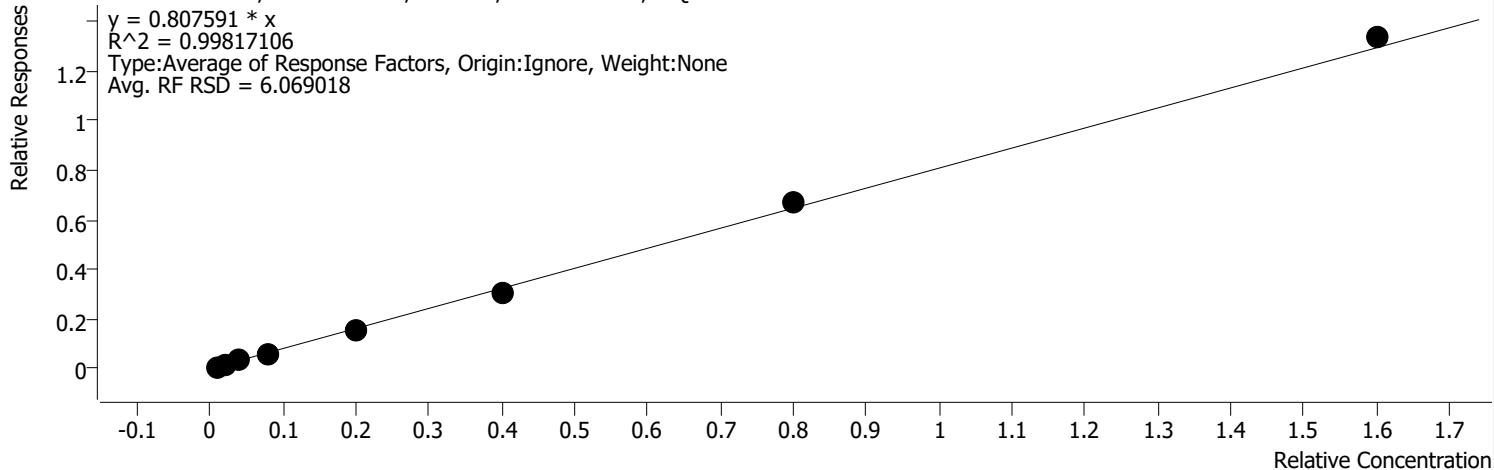
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-9\DATA\080823\080858.D	Calibration	1	x	22240	0.5000	0.1759	
D:\GC-9\DATA\080823\080859.D	Calibration	2	x	30859	1.2500	0.0970	
D:\GC-9\DATA\080823\080860.D	Calibration	3	x	51309	2.5000	0.0801	
D:\GC-9\DATA\080823\080861.D	Calibration	4	x	68424	5.0000	0.0541	
D:\GC-9\DATA\080823\080862.D	Calibration	5	x	160315	12.5000	0.0524	
D:\GC-9\DATA\080823\080863.D	Calibration	6	x	304267	25.0000	0.0498	
D:\GC-9\DATA\080823\080864.D	Calibration	7	x	533459	50.0000	0.0447	
D:\GC-9\DATA\080823\080865.D	Calibration	8	x	975676	100.0000	0.0417	

Calibration Report

Batch Path	D:\GC-9\DATA\080823\QuantResults\voc s cal.batch.bin		
Analysis Time	8/10/2023 4:55 PM	Analyst Name	FA\GC9
Report Time	8/10/2023 5:00:30 PM	Reporter Name	FA\GC9
Last Calib Update	8/10/2023 1:10 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Carbon disulfide %RSE = 6.1

Carbon disulfide - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



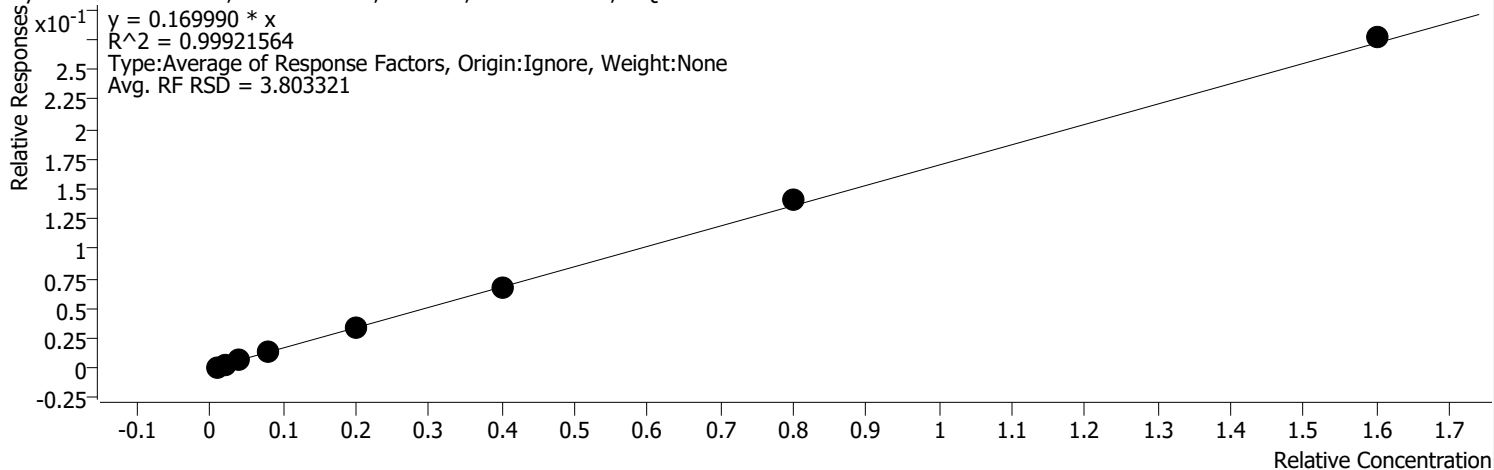
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-9\DATA\080823\080858.D	Calibration	1	x	45394	0.2000	0.8977	
D:\GC-9\DATA\080823\080859.D	Calibration	2	x	104547	0.5000	0.8218	
D:\GC-9\DATA\080823\080860.D	Calibration	3	x	201458	1.0000	0.7858	
D:\GC-9\DATA\080823\080861.D	Calibration	4	x	388205	2.0000	0.7669	
D:\GC-9\DATA\080823\080862.D	Calibration	5	x	931547	5.0000	0.7618	
D:\GC-9\DATA\080823\080863.D	Calibration	6	x	1846294	10.0000	0.7557	
D:\GC-9\DATA\080823\080864.D	Calibration	7	x	4004166	20.0000	0.8380	
D:\GC-9\DATA\080823\080865.D	Calibration	8	x	7794082	40.0000	0.8330	

Calibration Report

Batch Path	D:\GC-9\DATA\080823\QuantResults\voc s cal.batch.bin		
Analysis Time	8/10/2023 4:55 PM	Analyst Name	FA\GC9
Report Time	8/10/2023 5:00:30 PM	Reporter Name	FA\GC9
Last Calib Update	8/10/2023 1:10 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Allyl Chloride %RSE = 3.8

Allyl Chloride - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

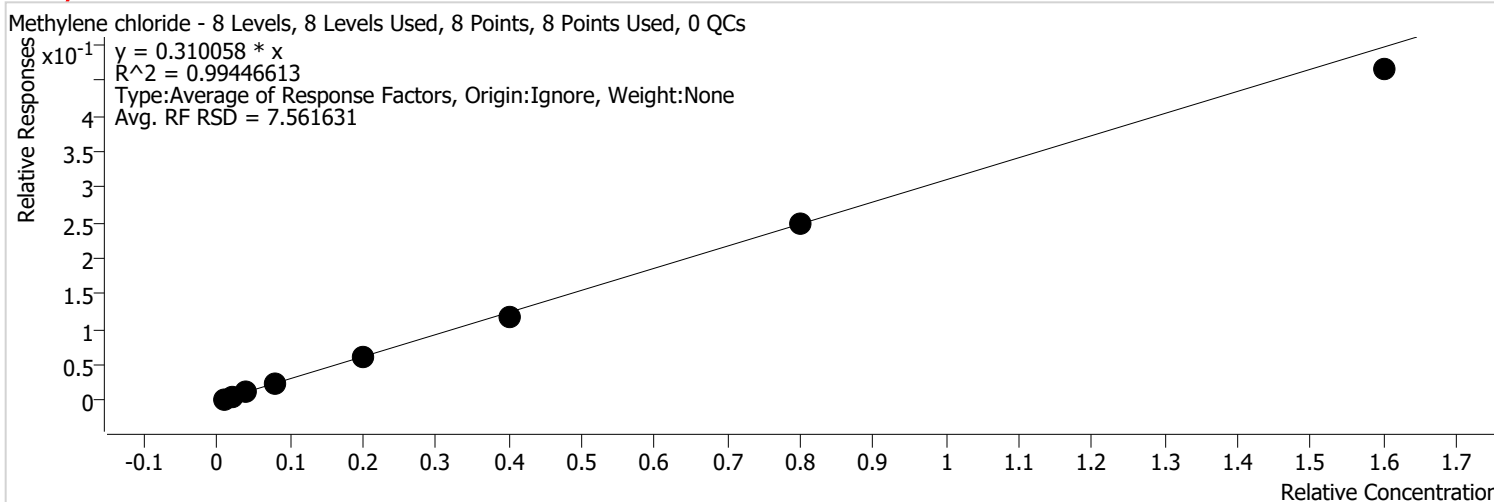


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-9\DATA\080823\080858.D	Calibration	1	x	8257	0.2000	0.1633	
D:\GC-9\DATA\080823\080859.D	Calibration	2	x	22984	0.5000	0.1807	
D:\GC-9\DATA\080823\080860.D	Calibration	3	x	42163	1.0000	0.1645	
D:\GC-9\DATA\080823\080861.D	Calibration	4	x	82935	2.0000	0.1638	
D:\GC-9\DATA\080823\080862.D	Calibration	5	x	209454	5.0000	0.1713	
D:\GC-9\DATA\080823\080863.D	Calibration	6	x	407601	10.0000	0.1668	
D:\GC-9\DATA\080823\080864.D	Calibration	7	x	844578	20.0000	0.1768	
D:\GC-9\DATA\080823\080865.D	Calibration	8	x	1616590	40.0000	0.1728	

Calibration Report

Batch Path	D:\GC-9\DATA\080823\QuantResults\voc s cal.batch.bin		
Analysis Time	8/10/2023 4:55 PM	Analyst Name	FA\GC9
Report Time	8/10/2023 5:00:30 PM	Reporter Name	FA\GC9
Last Calib Update	8/10/2023 1:10 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Methylene chloride %RSE = 7.6

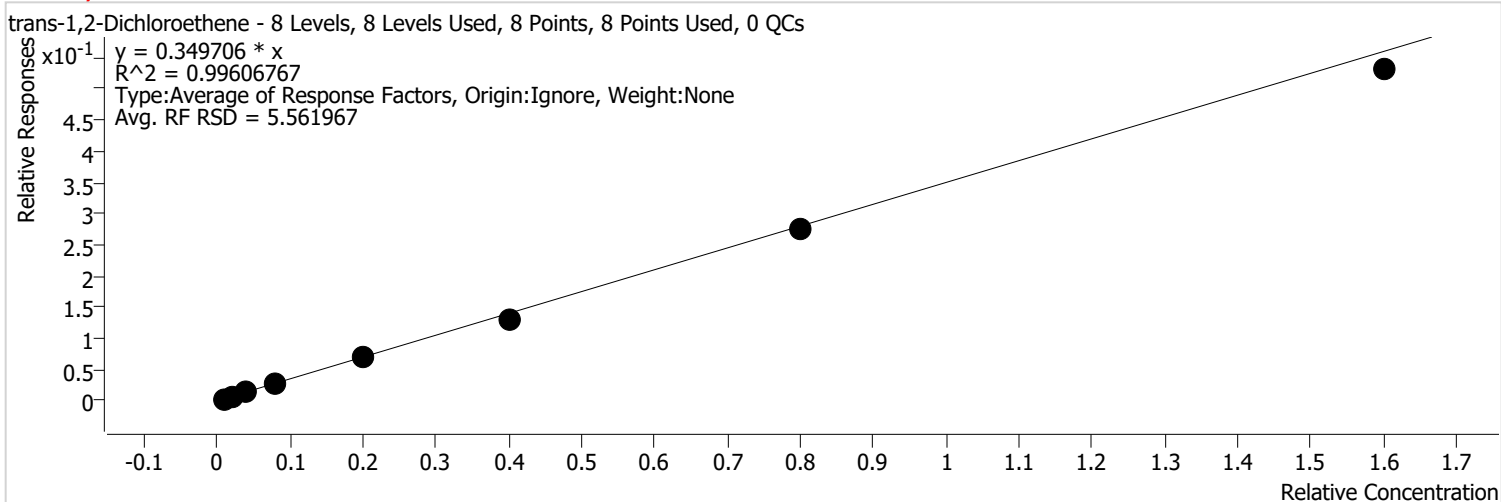


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-9\DATA\080823\080858.D	Calibration	1	x	18505	0.2000	0.3660	
D:\GC-9\DATA\080823\080859.D	Calibration	2	x	37987	0.5000	0.2986	
D:\GC-9\DATA\080823\080860.D	Calibration	3	x	78321	1.0000	0.3055	
D:\GC-9\DATA\080823\080861.D	Calibration	4	x	154147	2.0000	0.3045	
D:\GC-9\DATA\080823\080862.D	Calibration	5	x	375693	5.0000	0.3072	
D:\GC-9\DATA\080823\080863.D	Calibration	6	x	728625	10.0000	0.2982	
D:\GC-9\DATA\080823\080864.D	Calibration	7	x	1482122	20.0000	0.3102	
D:\GC-9\DATA\080823\080865.D	Calibration	8	x	2715646	40.0000	0.2902	

Calibration Report

Batch Path	D:\GC-9\DATA\080823\QuantResults\voc s cal.batch.bin		
Analysis Time	8/10/2023 4:55 PM	Analyst Name	FA\GC9
Report Time	8/10/2023 5:00:30 PM	Reporter Name	FA\GC9
Last Calib Update	8/10/2023 1:10 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

trans-1,2-Dichloroethene %RSE = 5.6



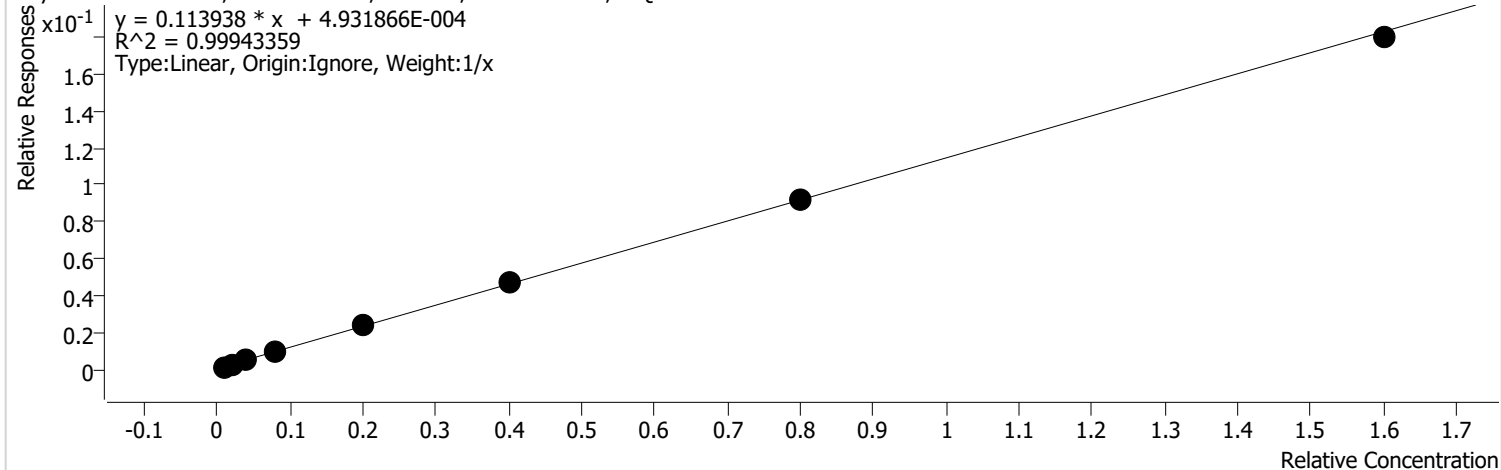
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-9\DATA\080823\080858.D	Calibration	1	x	19282	0.2000	0.3813	
D:\GC-9\DATA\080823\080859.D	Calibration	2	x	47911	0.5000	0.3766	
D:\GC-9\DATA\080823\080860.D	Calibration	3	x	89335	1.0000	0.3485	
D:\GC-9\DATA\080823\080861.D	Calibration	4	x	171463	2.0000	0.3387	
D:\GC-9\DATA\080823\080862.D	Calibration	5	x	425481	5.0000	0.3480	
D:\GC-9\DATA\080823\080863.D	Calibration	6	x	803318	10.0000	0.3288	
D:\GC-9\DATA\080823\080864.D	Calibration	7	x	1645337	20.0000	0.3444	
D:\GC-9\DATA\080823\080865.D	Calibration	8	x	3101050	40.0000	0.3314	

Calibration Report

Batch Path	D:\GC-9\DATA\080823\QuantResults\voc s cal.batch.bin		
Analysis Time	8/10/2023 4:55 PM	Analyst Name	FA\GC9
Report Time	8/10/2023 5:00:30 PM	Reporter Name	FA\GC9
Last Calib Update	8/10/2023 1:10 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Acrylonitrile %RSE = 5.2

Acrylonitrile - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



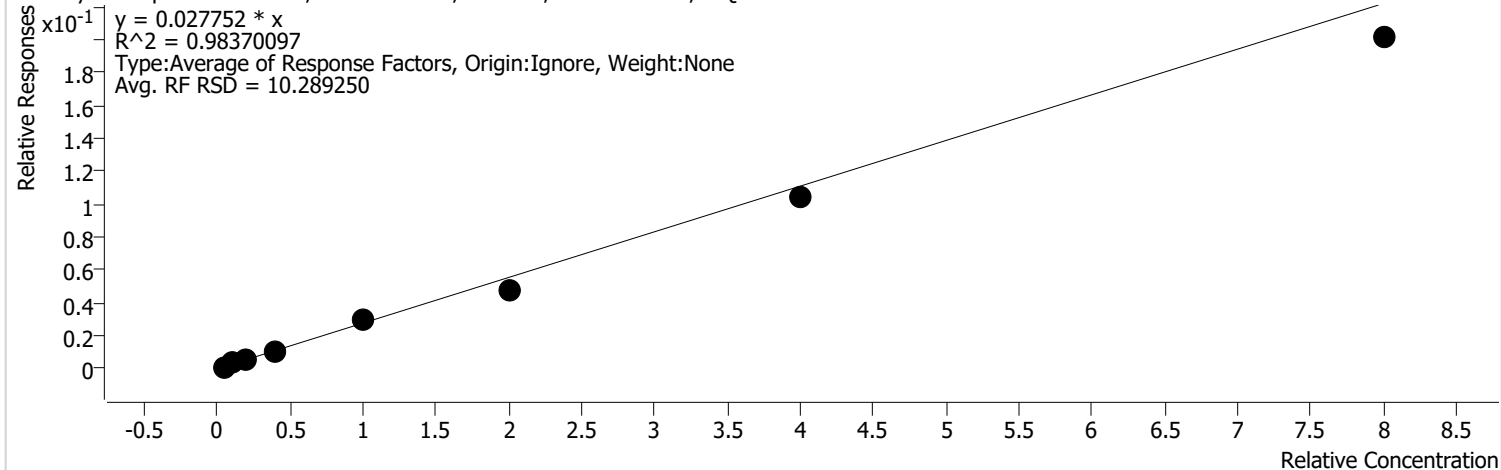
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-9\DATA\080823\080858.D	Calibration	1	x	8281	0.2000	0.1638	
D:\GC-9\DATA\080823\080859.D	Calibration	2	x	17397	0.5000	0.1367	
D:\GC-9\DATA\080823\080860.D	Calibration	3	x	33238	1.0000	0.1297	
D:\GC-9\DATA\080823\080861.D	Calibration	4	x	61902	2.0000	0.1223	
D:\GC-9\DATA\080823\080862.D	Calibration	5	x	150105	5.0000	0.1228	
D:\GC-9\DATA\080823\080863.D	Calibration	6	x	288752	10.0000	0.1182	
D:\GC-9\DATA\080823\080864.D	Calibration	7	x	551180	20.0000	0.1154	
D:\GC-9\DATA\080823\080865.D	Calibration	8	x	1049665	40.0000	0.1122	

Calibration Report

Batch Path	D:\GC-9\DATA\080823\QuantResults\voc s cal.batch.bin		
Analysis Time	8/10/2023 4:55 PM	Analyst Name	FA\GC9
Report Time	8/10/2023 5:00:30 PM	Reporter Name	FA\GC9
Last Calib Update	8/10/2023 1:10 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

2-Methyl-2-Propanol %RSE = 10.3

2-Methyl-2-Propanol - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



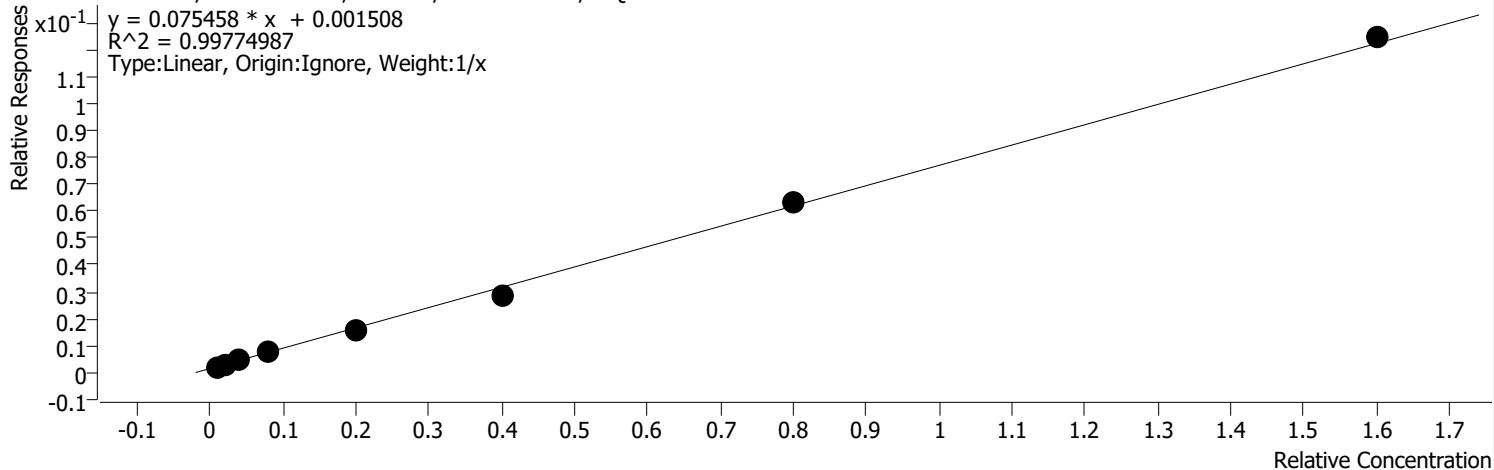
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-9\DATA\080823\080858.D	Calibration	1	x	7656	1.0000	0.0303	
D:\GC-9\DATA\080823\080859.D	Calibration	2	x	19863	2.5000	0.0312	
D:\GC-9\DATA\080823\080860.D	Calibration	3	x	38331	5.0000	0.0299	
D:\GC-9\DATA\080823\080861.D	Calibration	4	x	65911	10.0000	0.0260	
D:\GC-9\DATA\080823\080862.D	Calibration	5	x	182248	25.0000	0.0298	
D:\GC-9\DATA\080823\080863.D	Calibration	6	x	288938	50.0000	0.0237	
D:\GC-9\DATA\080823\080864.D	Calibration	7	x	620088	100.0000	0.0260	
D:\GC-9\DATA\080823\080865.D	Calibration	8	x	1176425	200.0000	0.0251	

Calibration Report

Batch Path	D:\GC-9\DATA\080823\QuantResults\voc s cal.batch.bin		
Analysis Time	8/10/2023 4:55 PM	Analyst Name	FA\GC9
Report Time	8/10/2023 5:00:30 PM	Reporter Name	FA\GC9
Last Calib Update	8/10/2023 1:10 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

n-Hexane %RSE = 7.0

n-Hexane - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

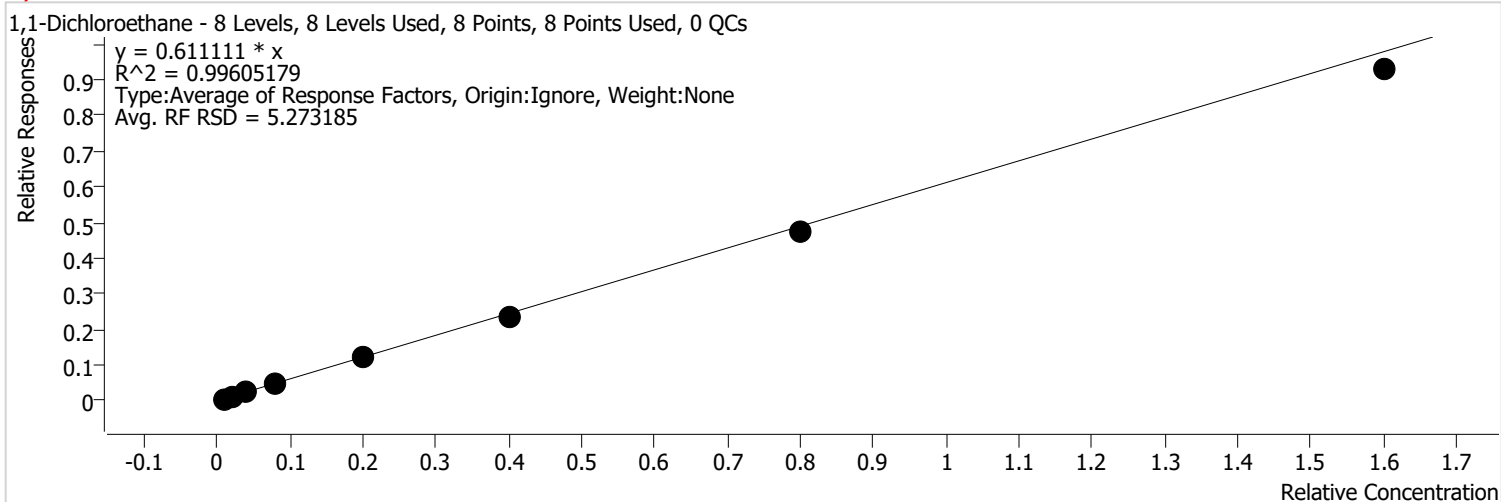


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-9\DATA\080823\080858.D	Calibration	1	x	13490	0.2000	0.2668	
D:\GC-9\DATA\080823\080859.D	Calibration	2	x	19891	0.5000	0.1564	
D:\GC-9\DATA\080823\080860.D	Calibration	3	x	30239	1.0000	0.1180	
D:\GC-9\DATA\080823\080861.D	Calibration	4	x	45945	2.0000	0.0908	
D:\GC-9\DATA\080823\080862.D	Calibration	5	x	94025	5.0000	0.0769	
D:\GC-9\DATA\080823\080863.D	Calibration	6	x	176491	10.0000	0.0722	
D:\GC-9\DATA\080823\080864.D	Calibration	7	x	380582	20.0000	0.0797	
D:\GC-9\DATA\080823\080865.D	Calibration	8	x	727322	40.0000	0.0777	

Calibration Report

Batch Path	D:\GC-9\DATA\080823\QuantResults\voc s cal.batch.bin		
Analysis Time	8/10/2023 4:55 PM	Analyst Name	FA\GC9
Report Time	8/10/2023 5:00:30 PM	Reporter Name	FA\GC9
Last Calib Update	8/10/2023 1:10 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,1-Dichloroethane %RSE = 5.3



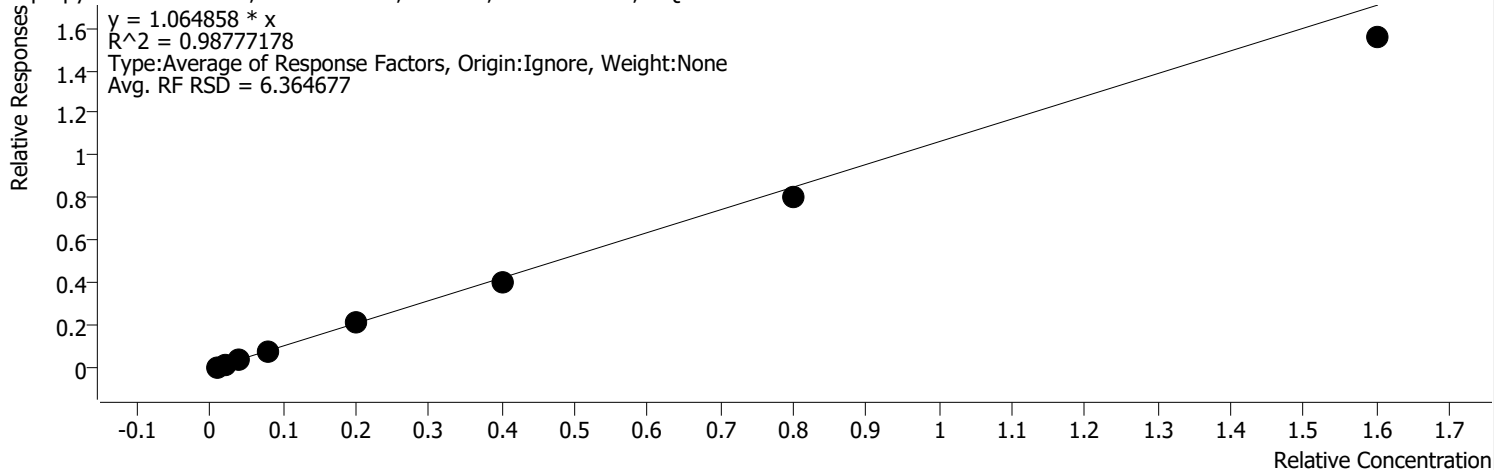
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-9\DATA\080823\080858.D	Calibration	1	x	33936	0.2000	0.6711	
D:\GC-9\DATA\080823\080859.D	Calibration	2	x	82262	0.5000	0.6466	
D:\GC-9\DATA\080823\080860.D	Calibration	3	x	155896	1.0000	0.6081	
D:\GC-9\DATA\080823\080861.D	Calibration	4	x	302474	2.0000	0.5975	
D:\GC-9\DATA\080823\080862.D	Calibration	5	x	747755	5.0000	0.6115	
D:\GC-9\DATA\080823\080863.D	Calibration	6	x	1419088	10.0000	0.5808	
D:\GC-9\DATA\080823\080864.D	Calibration	7	x	2836298	20.0000	0.5936	
D:\GC-9\DATA\080823\080865.D	Calibration	8	x	5423083	40.0000	0.5796	

Calibration Report

Batch Path	D:\GC-9\DATA\080823\QuantResults\voc s cal.batch.bin		
Analysis Time	8/10/2023 4:55 PM	Analyst Name	FA\GC9
Report Time	8/10/2023 5:00:30 PM	Reporter Name	FA\GC9
Last Calib Update	8/10/2023 1:10 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Isopropyl ether %RSE = 6.4

Isopropyl ether - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



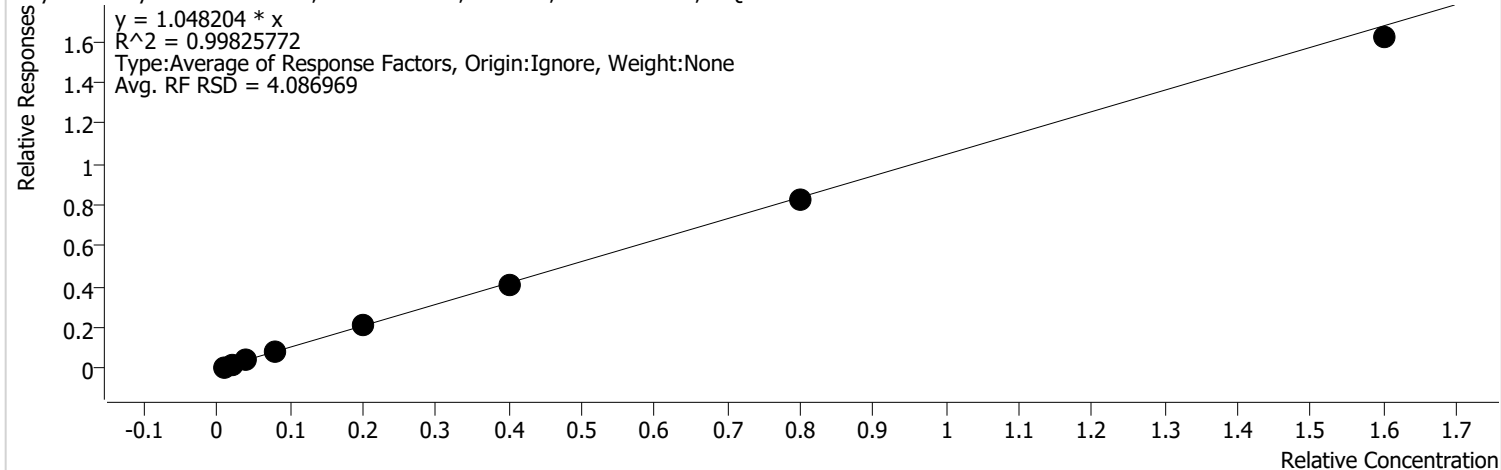
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-9\DATA\080823\080858.D	Calibration	1	x	58544	0.2000	1.1577	
D:\GC-9\DATA\080823\080859.D	Calibration	2	x	147838	0.5000	1.1621	
D:\GC-9\DATA\080823\080860.D	Calibration	3	x	274780	1.0000	1.0718	
D:\GC-9\DATA\080823\080861.D	Calibration	4	x	537322	2.0000	1.0615	
D:\GC-9\DATA\080823\080862.D	Calibration	5	x	1303830	5.0000	1.0663	
D:\GC-9\DATA\080823\080863.D	Calibration	6	x	2485360	10.0000	1.0172	
D:\GC-9\DATA\080823\080864.D	Calibration	7	x	4835622	20.0000	1.0121	
D:\GC-9\DATA\080823\080865.D	Calibration	8	x	9077743	40.0000	0.9702	

Calibration Report

Batch Path	D:\GC-9\DATA\080823\QuantResults\voc s cal.batch.bin		
Analysis Time	8/10/2023 4:55 PM	Analyst Name	FA\GC9
Report Time	8/10/2023 5:00:30 PM	Reporter Name	FA\GC9
Last Calib Update	8/10/2023 1:10 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Ethyl tert-Butyl ether %RSE = 4.1

Ethyl tert-Butyl ether - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

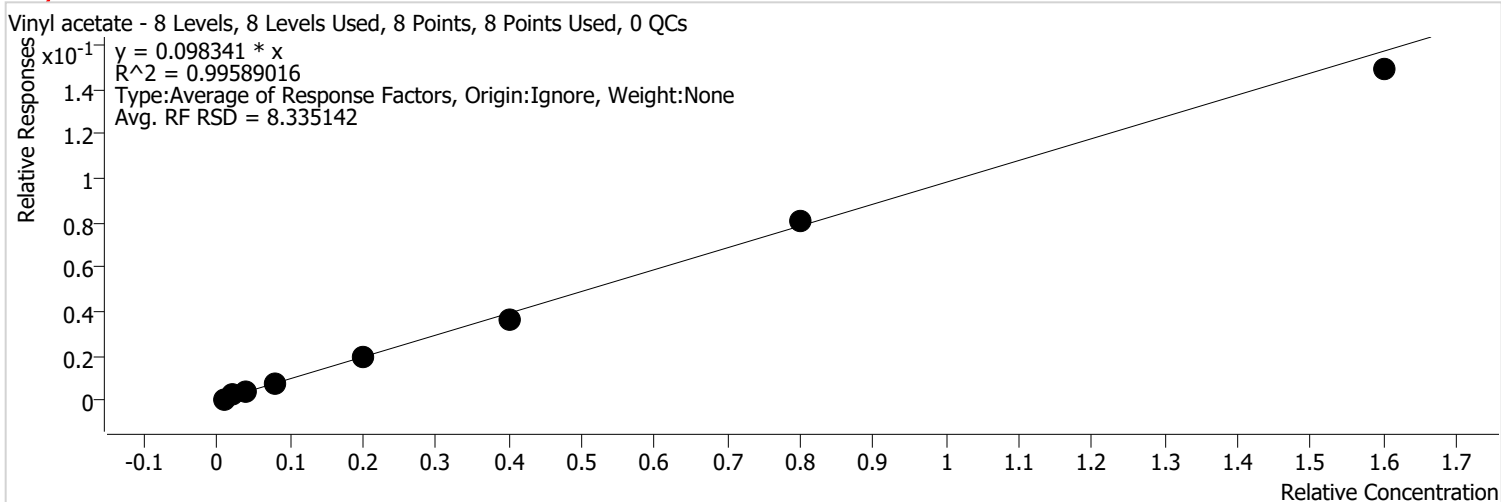


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-9\DATA\080823\080858.D	Calibration	1	x	57723	0.2000	1.1415	
D:\GC-9\DATA\080823\080859.D	Calibration	2	x	136569	0.5000	1.0735	
D:\GC-9\DATA\080823\080860.D	Calibration	3	x	265944	1.0000	1.0374	
D:\GC-9\DATA\080823\080861.D	Calibration	4	x	522254	2.0000	1.0317	
D:\GC-9\DATA\080823\080862.D	Calibration	5	x	1285451	5.0000	1.0513	
D:\GC-9\DATA\080823\080863.D	Calibration	6	x	2472584	10.0000	1.0120	
D:\GC-9\DATA\080823\080864.D	Calibration	7	x	4903818	20.0000	1.0263	
D:\GC-9\DATA\080823\080865.D	Calibration	8	x	9468689	40.0000	1.0120	

Calibration Report

Batch Path	D:\GC-9\DATA\080823\QuantResults\voc s cal.batch.bin		
Analysis Time	8/10/2023 4:55 PM	Analyst Name	FA\GC9
Report Time	8/10/2023 5:00:30 PM	Reporter Name	FA\GC9
Last Calib Update	8/10/2023 1:10 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Vinyl acetate %RSE = 8.3



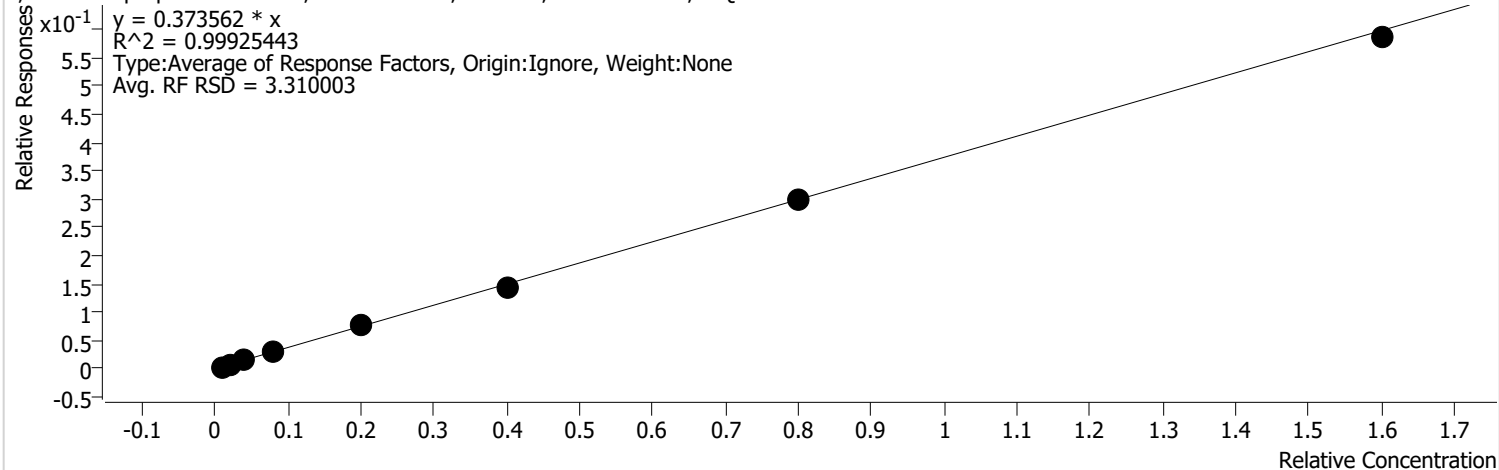
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-9\DATA\080823\080858.D	Calibration	1	x	5287	0.2000	0.1046	
D:\GC-9\DATA\080823\080859.D	Calibration	2	x	14483	0.5000	0.1138	
D:\GC-9\DATA\080823\080860.D	Calibration	3	x	22787	1.0000	0.0889	
D:\GC-9\DATA\080823\080861.D	Calibration	4	x	47167	2.0000	0.0932	
D:\GC-9\DATA\080823\080862.D	Calibration	5	x	122999	5.0000	0.1006	
D:\GC-9\DATA\080823\080863.D	Calibration	6	x	225049	10.0000	0.0921	
D:\GC-9\DATA\080823\080864.D	Calibration	7	x	479869	20.0000	0.1004	
D:\GC-9\DATA\080823\080865.D	Calibration	8	x	871435	40.0000	0.0931	

Calibration Report

Batch Path	D:\GC-9\DATA\080823\QuantResults\voc s cal.batch.bin		
Analysis Time	8/10/2023 4:55 PM	Analyst Name	FA\GC9
Report Time	8/10/2023 5:00:30 PM	Reporter Name	FA\GC9
Last Calib Update	8/10/2023 1:10 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

2,2-Dichloropropane %RSE = 3.3

2,2-Dichloropropane - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

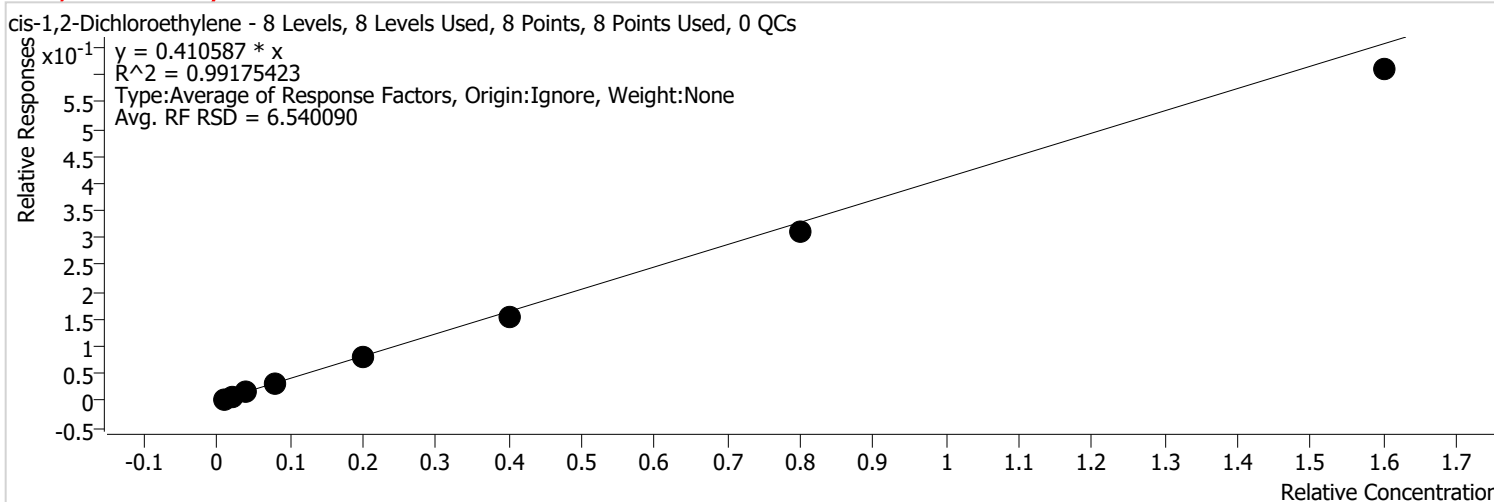


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-9\DATA\080823\080858.D	Calibration	1	x	19953	0.2000	0.3946	
D:\GC-9\DATA\080823\080859.D	Calibration	2	x	49069	0.5000	0.3857	
D:\GC-9\DATA\080823\080860.D	Calibration	3	x	95535	1.0000	0.3727	
D:\GC-9\DATA\080823\080861.D	Calibration	4	x	184519	2.0000	0.3645	
D:\GC-9\DATA\080823\080862.D	Calibration	5	x	458192	5.0000	0.3747	
D:\GC-9\DATA\080823\080863.D	Calibration	6	x	868324	10.0000	0.3554	
D:\GC-9\DATA\080823\080864.D	Calibration	7	x	1793325	20.0000	0.3753	
D:\GC-9\DATA\080823\080865.D	Calibration	8	x	3420775	40.0000	0.3656	

Calibration Report

Batch Path	D:\GC-9\DATA\080823\QuantResults\voc s cal.batch.bin		
Analysis Time	8/10/2023 4:55 PM	Analyst Name	FA\GC9
Report Time	8/10/2023 5:00:30 PM	Reporter Name	FA\GC9
Last Calib Update	8/10/2023 1:10 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

cis-1,2-Dichloroethylene %RSE = 6.5



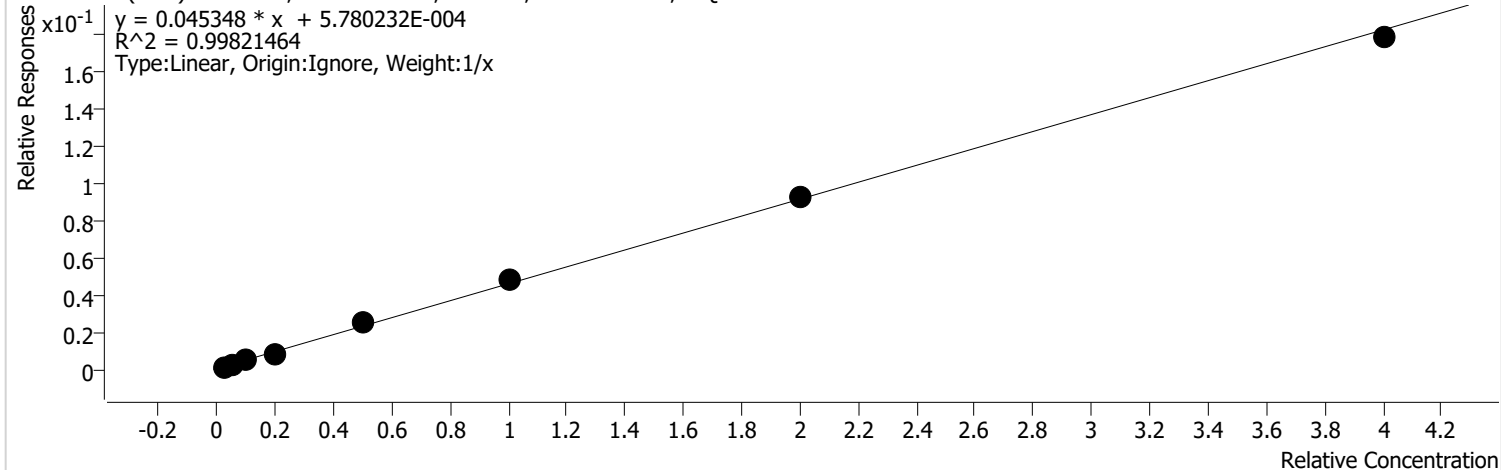
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-9\DATA\080823\080858.D	Calibration	1	x	22833	0.2000	0.4515	
D:\GC-9\DATA\080823\080859.D	Calibration	2	x	57240	0.5000	0.4499	
D:\GC-9\DATA\080823\080860.D	Calibration	3	x	104130	1.0000	0.4062	
D:\GC-9\DATA\080823\080861.D	Calibration	4	x	203754	2.0000	0.4025	
D:\GC-9\DATA\080823\080862.D	Calibration	5	x	505740	5.0000	0.4136	
D:\GC-9\DATA\080823\080863.D	Calibration	6	x	951711	10.0000	0.3895	
D:\GC-9\DATA\080823\080864.D	Calibration	7	x	1866323	20.0000	0.3906	
D:\GC-9\DATA\080823\080865.D	Calibration	8	x	3563113	40.0000	0.3808	

Calibration Report

Batch Path	D:\GC-9\DATA\080823\QuantResults\voc s cal.batch.bin		
Analysis Time	8/10/2023 4:55 PM	Analyst Name	FA\GC9
Report Time	8/10/2023 5:00:30 PM	Reporter Name	FA\GC9
Last Calib Update	8/10/2023 1:10 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

2-Butanone (MEK) %RSE = 8.5

2-Butanone (MEK) - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

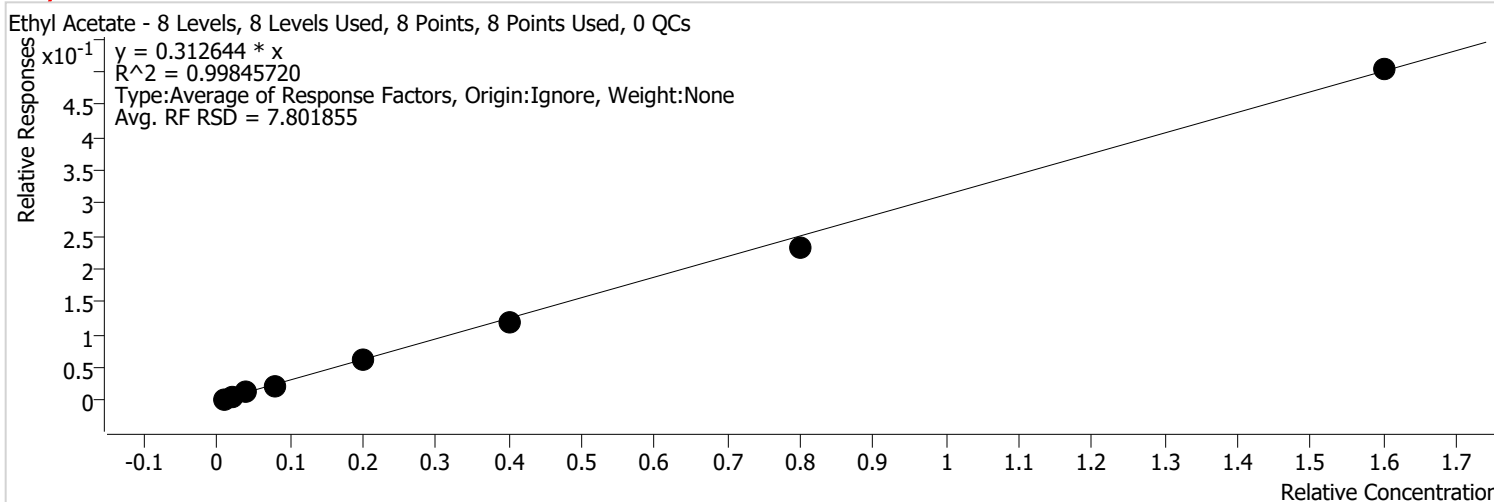


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-9\DATA\080823\080858.D	Calibration	1	x	8980	0.5000	0.0710	
D:\GC-9\DATA\080823\080859.D	Calibration	2	x	17318	1.2500	0.0544	
D:\GC-9\DATA\080823\080860.D	Calibration	3	x	36211	2.5000	0.0565	
D:\GC-9\DATA\080823\080861.D	Calibration	4	x	54811	5.0000	0.0433	
D:\GC-9\DATA\080823\080862.D	Calibration	5	x	151992	12.5000	0.0497	
D:\GC-9\DATA\080823\080863.D	Calibration	6	x	298012	25.0000	0.0488	
D:\GC-9\DATA\080823\080864.D	Calibration	7	x	547787	50.0000	0.0459	
D:\GC-9\DATA\080823\080865.D	Calibration	8	x	1039111	100.0000	0.0444	

Calibration Report

Batch Path	D:\GC-9\DATA\080823\QuantResults\voc s cal.batch.bin		
Analysis Time	8/10/2023 4:55 PM	Analyst Name	FA\GC9
Report Time	8/10/2023 5:00:30 PM	Reporter Name	FA\GC9
Last Calib Update	8/10/2023 1:10 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Ethyl Acetate %RSE = 7.8

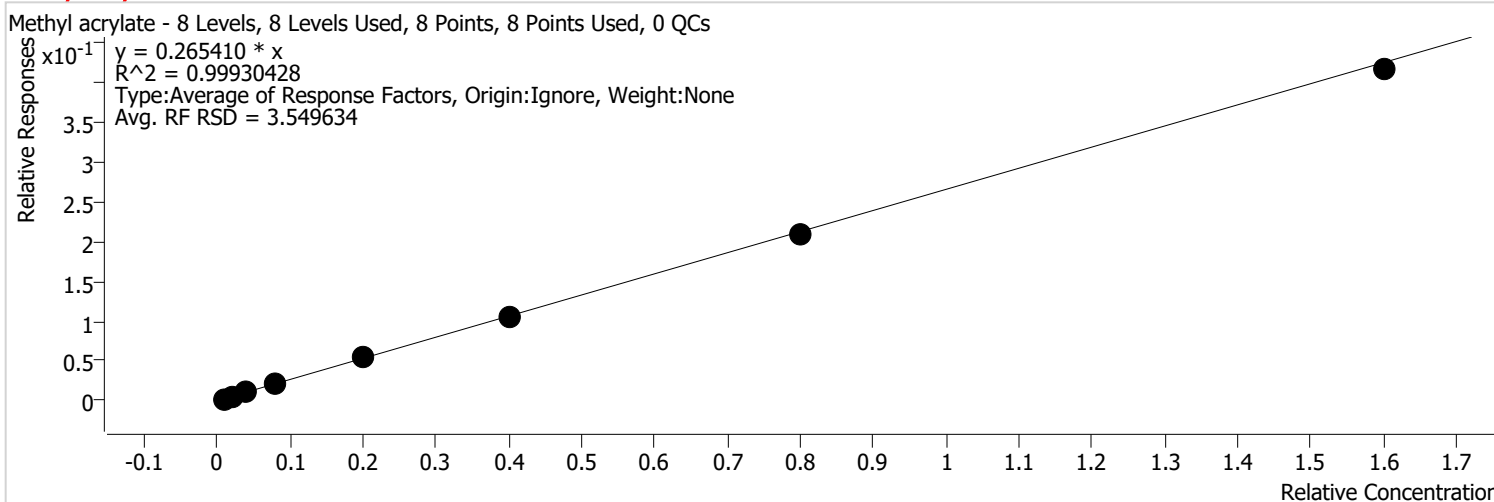


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-9\DATA\080823\080858.D	Calibration	1	x	17780	0.2000	0.3516	
D:\GC-9\DATA\080823\080859.D	Calibration	2	x	44276	0.5000	0.3480	
D:\GC-9\DATA\080823\080860.D	Calibration	3	x	77848	1.0000	0.3037	
D:\GC-9\DATA\080823\080861.D	Calibration	4	x	145799	2.0000	0.2880	
D:\GC-9\DATA\080823\080862.D	Calibration	5	x	375273	5.0000	0.3069	
D:\GC-9\DATA\080823\080863.D	Calibration	6	x	725682	10.0000	0.2970	
D:\GC-9\DATA\080823\080864.D	Calibration	7	x	1394871	20.0000	0.2919	
D:\GC-9\DATA\080823\080865.D	Calibration	8	x	2937905	40.0000	0.3140	

Calibration Report

Batch Path	D:\GC-9\DATA\080823\QuantResults\voc s cal.batch.bin		
Analysis Time	8/10/2023 4:55 PM	Analyst Name	FA\GC9
Report Time	8/10/2023 5:00:30 PM	Reporter Name	FA\GC9
Last Calib Update	8/10/2023 1:10 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Methyl acrylate %RSE = 3.5

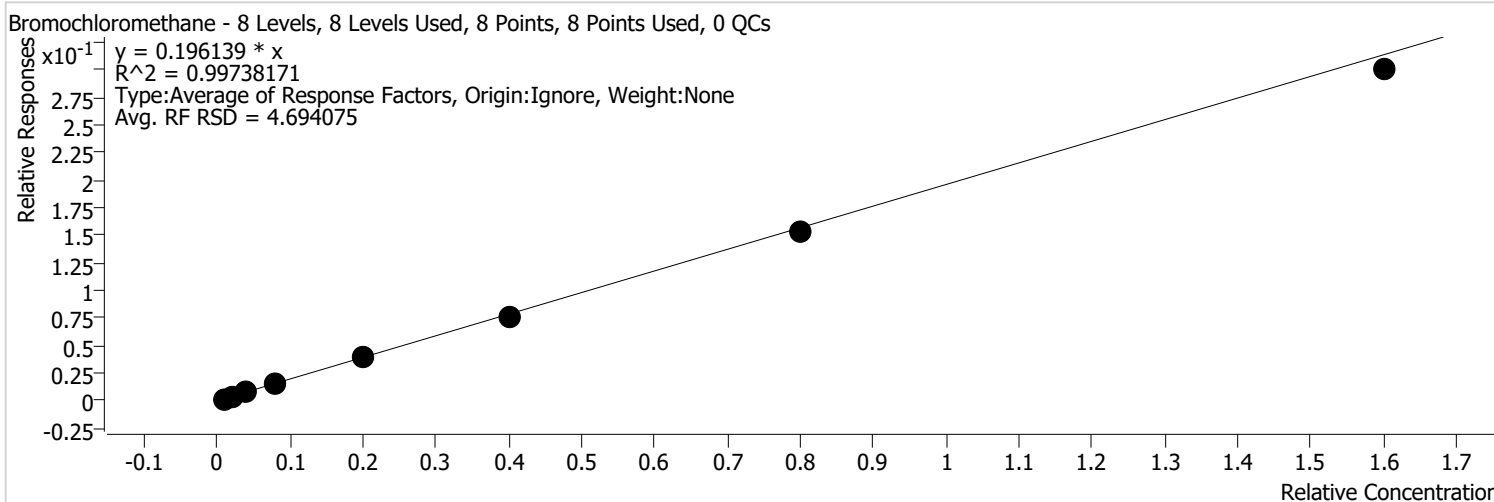


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-9\DATA\080823\080858.D	Calibration	1	x	14375	0.2000	0.2843	
D:\GC-9\DATA\080823\080859.D	Calibration	2	x	34835	0.5000	0.2738	
D:\GC-9\DATA\080823\080860.D	Calibration	3	x	67677	1.0000	0.2640	
D:\GC-9\DATA\080823\080861.D	Calibration	4	x	129289	2.0000	0.2554	
D:\GC-9\DATA\080823\080862.D	Calibration	5	x	325327	5.0000	0.2661	
D:\GC-9\DATA\080823\080863.D	Calibration	6	x	633273	10.0000	0.2592	
D:\GC-9\DATA\080823\080864.D	Calibration	7	x	1245936	20.0000	0.2608	
D:\GC-9\DATA\080823\080865.D	Calibration	8	x	2430643	40.0000	0.2598	

Calibration Report

Batch Path	D:\GC-9\DATA\080823\QuantResults\voc s cal.batch.bin		
Analysis Time	8/10/2023 4:55 PM	Analyst Name	FA\GC9
Report Time	8/10/2023 5:00:30 PM	Reporter Name	FA\GC9
Last Calib Update	8/10/2023 1:10 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Bromochloromethane %RSE = 4.7

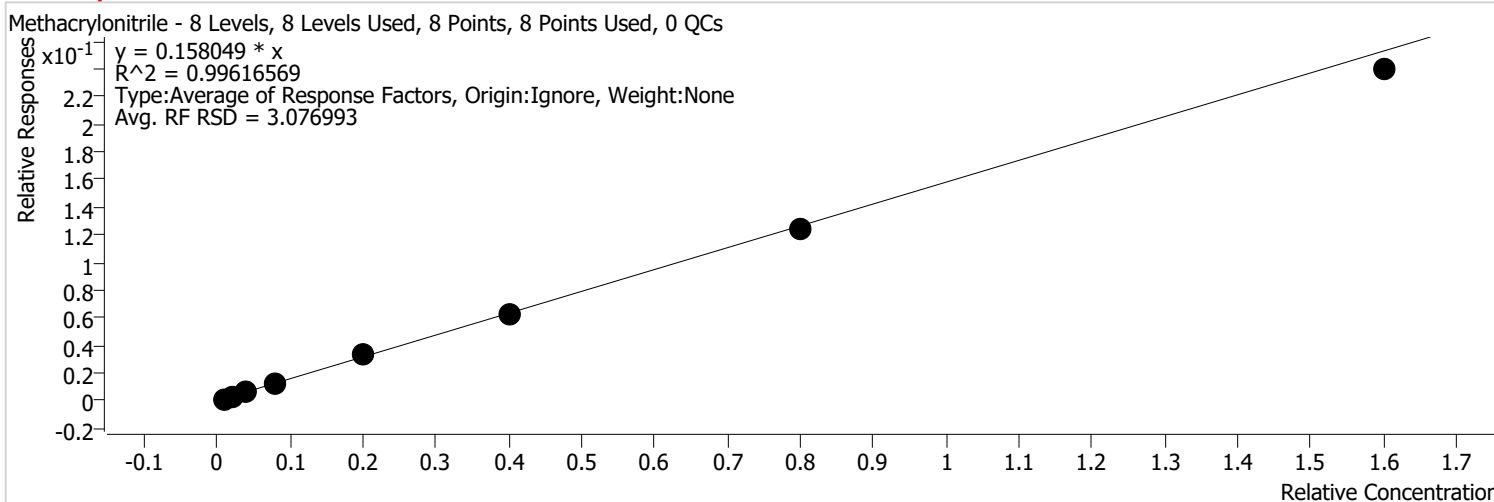


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-9\DATA\080823\080858.D	Calibration	1	x	10532	0.2000	0.2083	
D:\GC-9\DATA\080823\080859.D	Calibration	2	x	26955	0.5000	0.2119	
D:\GC-9\DATA\080823\080860.D	Calibration	3	x	48302	1.0000	0.1884	
D:\GC-9\DATA\080823\080861.D	Calibration	4	x	97720	2.0000	0.1930	
D:\GC-9\DATA\080823\080862.D	Calibration	5	x	241856	5.0000	0.1978	
D:\GC-9\DATA\080823\080863.D	Calibration	6	x	464047	10.0000	0.1899	
D:\GC-9\DATA\080823\080864.D	Calibration	7	x	918007	20.0000	0.1921	
D:\GC-9\DATA\080823\080865.D	Calibration	8	x	1755874	40.0000	0.1877	

Calibration Report

Batch Path	D:\GC-9\DATA\080823\QuantResults\voc s cal.batch.bin		
Analysis Time	8/10/2023 4:55 PM	Analyst Name	FA\GC9
Report Time	8/10/2023 5:00:30 PM	Reporter Name	FA\GC9
Last Calib Update	8/10/2023 1:10 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Methacrylonitrile %RSE = 3.1



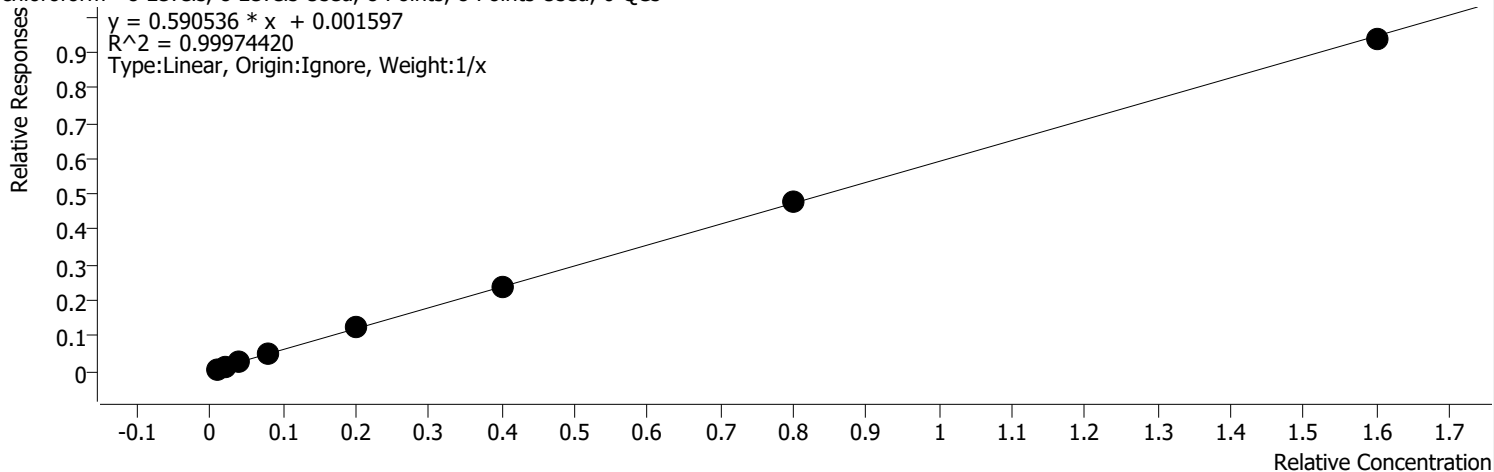
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-9\DATA\080823\080858.D	Calibration	1	x	8311	0.2000	0.1643	
D:\GC-9\DATA\080823\080859.D	Calibration	2	x	20315	0.5000	0.1597	
D:\GC-9\DATA\080823\080860.D	Calibration	3	x	40055	1.0000	0.1562	
D:\GC-9\DATA\080823\080861.D	Calibration	4	x	80078	2.0000	0.1582	
D:\GC-9\DATA\080823\080862.D	Calibration	5	x	201000	5.0000	0.1644	
D:\GC-9\DATA\080823\080863.D	Calibration	6	x	381100	10.0000	0.1560	
D:\GC-9\DATA\080823\080864.D	Calibration	7	x	745224	20.0000	0.1560	
D:\GC-9\DATA\080823\080865.D	Calibration	8	x	1399799	40.0000	0.1496	

Calibration Report

Batch Path	D:\GC-9\DATA\080823\QuantResults\voc s cal.batch.bin		
Analysis Time	8/10/2023 4:55 PM	Analyst Name	FA\GC9
Report Time	8/10/2023 5:00:30 PM	Reporter Name	FA\GC9
Last Calib Update	8/10/2023 1:10 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

chloroform %RSE = 2.1

chloroform - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

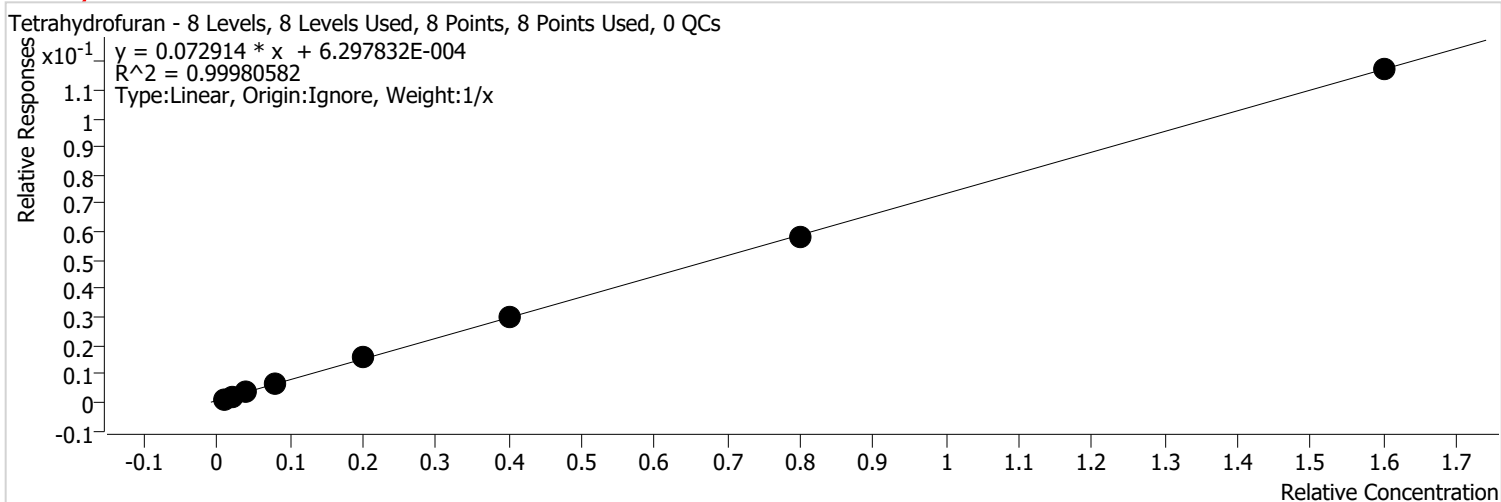


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-9\DATA\080823\080858.D	Calibration	1	x	40181	0.2000	0.7946	
D:\GC-9\DATA\080823\080859.D	Calibration	2	x	83465	0.5000	0.6561	
D:\GC-9\DATA\080823\080860.D	Calibration	3	x	160678	1.0000	0.6268	
D:\GC-9\DATA\080823\080861.D	Calibration	4	x	304403	2.0000	0.6013	
D:\GC-9\DATA\080823\080862.D	Calibration	5	x	757362	5.0000	0.6194	
D:\GC-9\DATA\080823\080863.D	Calibration	6	x	1448291	10.0000	0.5928	
D:\GC-9\DATA\080823\080864.D	Calibration	7	x	2880446	20.0000	0.6029	
D:\GC-9\DATA\080823\080865.D	Calibration	8	x	5472772	40.0000	0.5849	

Calibration Report

Batch Path	D:\GC-9\DATA\080823\QuantResults\voc s cal.batch.bin		
Analysis Time	8/10/2023 4:55 PM	Analyst Name	FA\GC9
Report Time	8/10/2023 5:00:30 PM	Reporter Name	FA\GC9
Last Calib Update	8/10/2023 1:10 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Tetrahydrofuran %RSE = 4.0

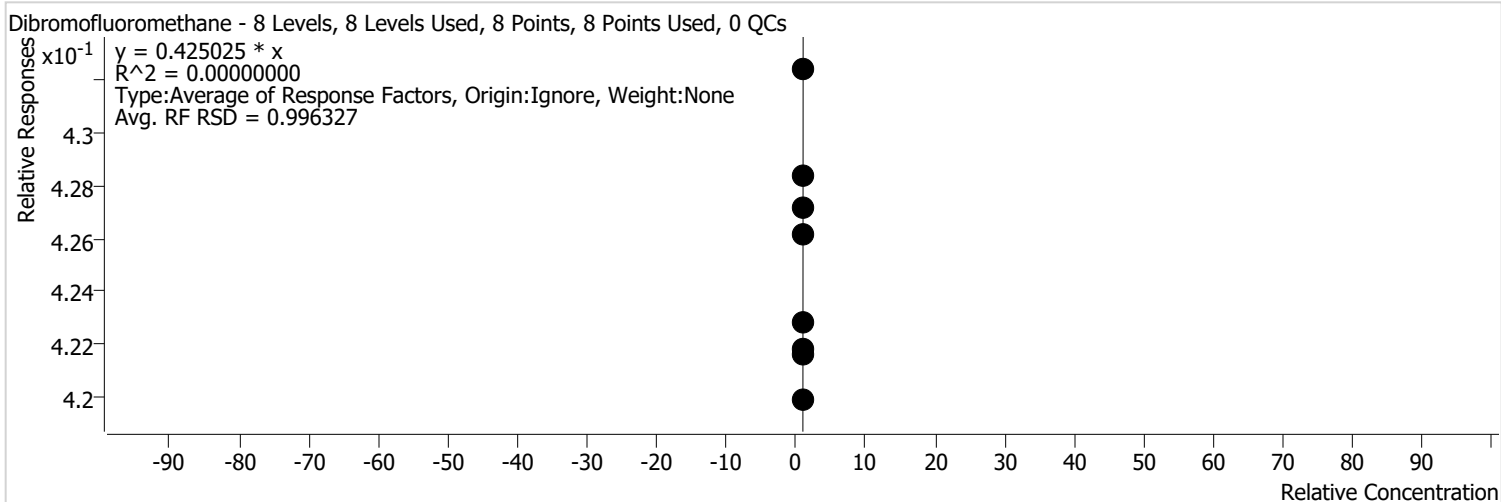


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-9\DATA\080823\080858.D	Calibration	1	x	7627	0.2000	0.1508	
D:\GC-9\DATA\080823\080859.D	Calibration	2	x	13922	0.5000	0.1094	
D:\GC-9\DATA\080823\080860.D	Calibration	3	x	22027	1.0000	0.0859	
D:\GC-9\DATA\080823\080861.D	Calibration	4	x	39068	2.0000	0.0772	
D:\GC-9\DATA\080823\080862.D	Calibration	5	x	94736	5.0000	0.0775	
D:\GC-9\DATA\080823\080863.D	Calibration	6	x	184904	10.0000	0.0757	
D:\GC-9\DATA\080823\080864.D	Calibration	7	x	350284	20.0000	0.0733	
D:\GC-9\DATA\080823\080865.D	Calibration	8	x	685065	40.0000	0.0732	

Calibration Report

Batch Path	D:\GC-9\DATA\080823\QuantResults\voc s cal.batch.bin		
Analysis Time	8/10/2023 4:55 PM	Analyst Name	FA\GC9
Report Time	8/10/2023 5:00:30 PM	Reporter Name	FA\GC9
Last Calib Update	8/10/2023 1:10 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Dibromofluoromethane %RSE =

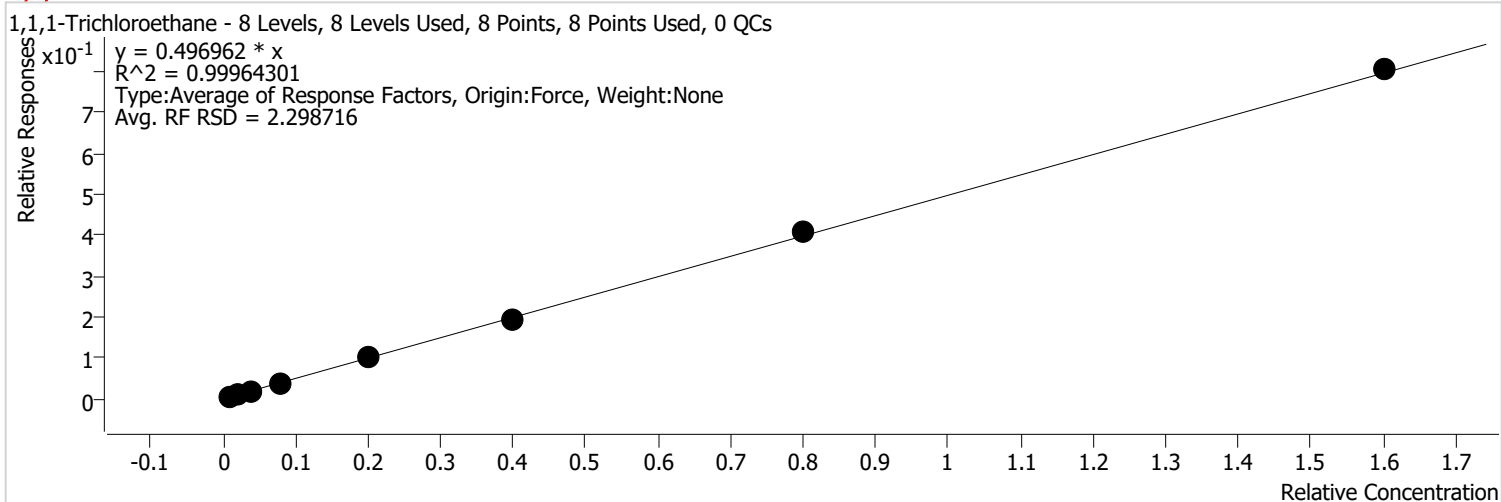


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-9\DATA\080823\080865.D	Calibration	8	x	2505073	25.0000	0.4284	
D:\GC-9\DATA\080823\080864.D	Calibration	7	x	2582637	25.0000	0.4324	
D:\GC-9\DATA\080823\080863.D	Calibration	6	x	2602900	25.0000	0.4261	
D:\GC-9\DATA\080823\080862.D	Calibration	5	x	2584987	25.0000	0.4228	
D:\GC-9\DATA\080823\080861.D	Calibration	4	x	2703180	25.0000	0.4272	
D:\GC-9\DATA\080823\080860.D	Calibration	3	x	2703246	25.0000	0.4218	
D:\GC-9\DATA\080823\080859.D	Calibration	2	x	2681743	25.0000	0.4216	
D:\GC-9\DATA\080823\080858.D	Calibration	1	x	2654077	25.0000	0.4199	

Calibration Report

Batch Path	D:\GC-9\DATA\080823\QuantResults\voc s cal.batch.bin		
Analysis Time	8/10/2023 4:55 PM	Analyst Name	FA\GC9
Report Time	8/10/2023 5:00:30 PM	Reporter Name	FA\GC9
Last Calib Update	8/10/2023 1:10 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,1,1-Trichloroethane %RSE = 2.3



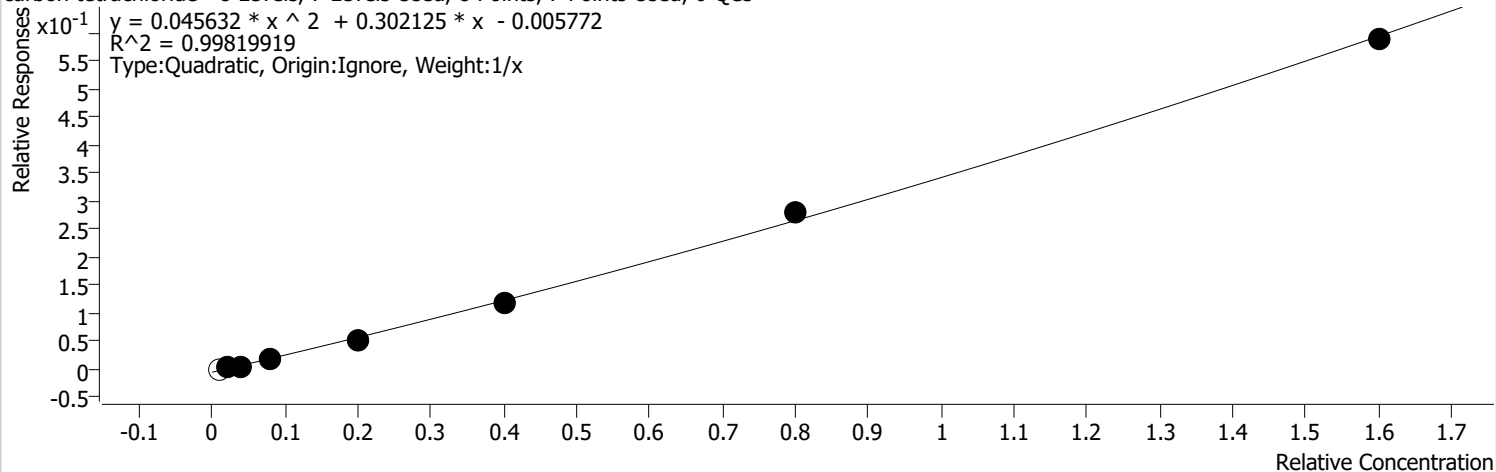
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-9\DATA\080823\080858.D	Calibration	1	x	24658	0.2000	0.4876	
D:\GC-9\DATA\080823\080859.D	Calibration	2	x	65085	0.5000	0.5116	
D:\GC-9\DATA\080823\080860.D	Calibration	3	x	129409	1.0000	0.5048	
D:\GC-9\DATA\080823\080861.D	Calibration	4	x	247315	2.0000	0.4886	
D:\GC-9\DATA\080823\080862.D	Calibration	5	x	604595	5.0000	0.4944	
D:\GC-9\DATA\080823\080863.D	Calibration	6	x	1169828	10.0000	0.4788	
D:\GC-9\DATA\080823\080864.D	Calibration	7	x	2426336	20.0000	0.5078	
D:\GC-9\DATA\080823\080865.D	Calibration	8	x	4697725	40.0000	0.5021	

Calibration Report

Batch Path	D:\GC-9\DATA\080823\QuantResults\voc s cal.batch.bin		
Analysis Time	8/10/2023 4:55 PM	Analyst Name	FA\GC9
Report Time	8/10/2023 5:00:30 PM	Reporter Name	FA\GC9
Last Calib Update	8/10/2023 1:10 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

carbon tetrachloride %RSE = 14.5

carbon tetrachloride - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 0 QCs

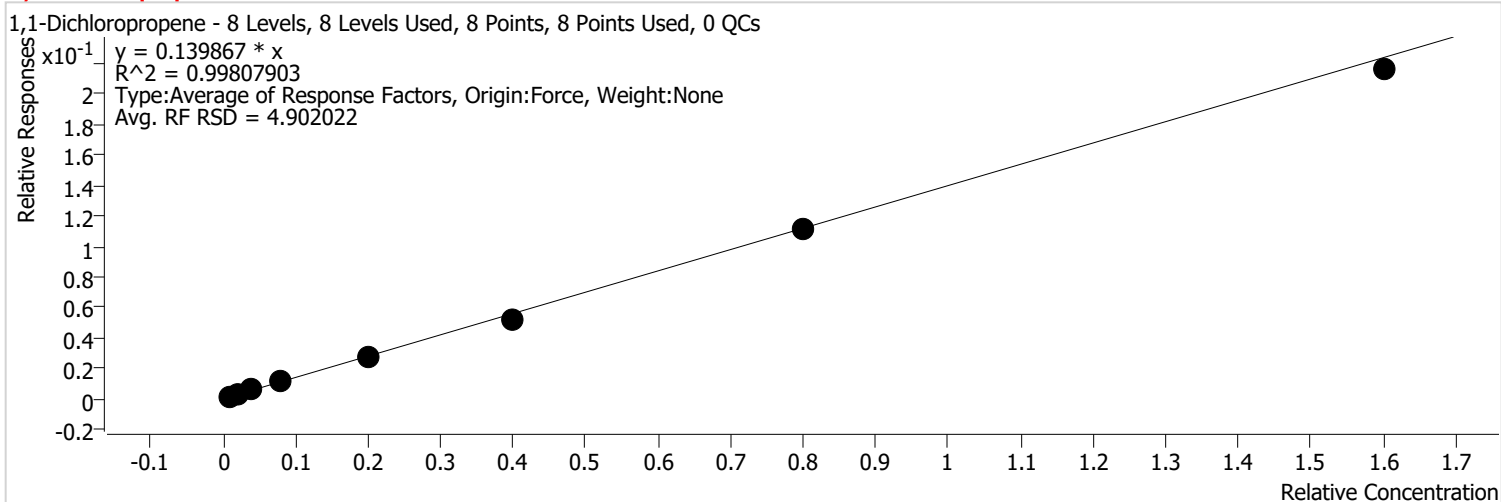


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-9\DATA\080823\080858.D	Calibration	1		2534	0.2000	0.0501	
D:\GC-9\DATA\080823\080859.D	Calibration	2	x	11127	0.5000	0.0875	
D:\GC-9\DATA\080823\080860.D	Calibration	3	x	32138	1.0000	0.1254	
D:\GC-9\DATA\080823\080861.D	Calibration	4	x	104366	2.0000	0.2062	
D:\GC-9\DATA\080823\080862.D	Calibration	5	x	322416	5.0000	0.2637	
D:\GC-9\DATA\080823\080863.D	Calibration	6	x	729428	10.0000	0.2985	
D:\GC-9\DATA\080823\080864.D	Calibration	7	x	1672834	20.0000	0.3501	
D:\GC-9\DATA\080823\080865.D	Calibration	8	x	3440280	40.0000	0.3677	

Calibration Report

Batch Path	D:\GC-9\DATA\080823\QuantResults\voc s cal.batch.bin		
Analysis Time	8/10/2023 4:55 PM	Analyst Name	FA\GC9
Report Time	8/10/2023 5:00:30 PM	Reporter Name	FA\GC9
Last Calib Update	8/10/2023 1:10 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,1-Dichloropropene %RSE = 4.9



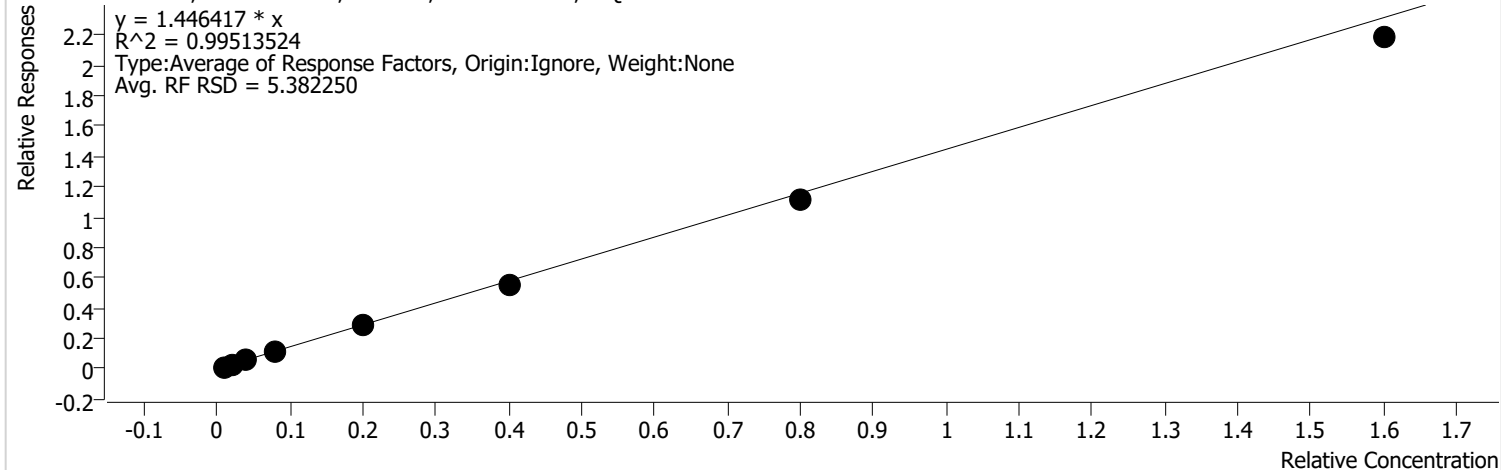
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-9\DATA\080823\080858.D	Calibration	1	x	7564	0.2000	0.1496	
D:\GC-9\DATA\080823\080859.D	Calibration	2	x	19208	0.5000	0.1510	
D:\GC-9\DATA\080823\080860.D	Calibration	3	x	35606	1.0000	0.1389	
D:\GC-9\DATA\080823\080861.D	Calibration	4	x	69774	2.0000	0.1378	
D:\GC-9\DATA\080823\080862.D	Calibration	5	x	167165	5.0000	0.1367	
D:\GC-9\DATA\080823\080863.D	Calibration	6	x	321395	10.0000	0.1315	
D:\GC-9\DATA\080823\080864.D	Calibration	7	x	661778	20.0000	0.1385	
D:\GC-9\DATA\080823\080865.D	Calibration	8	x	1262063	40.0000	0.1349	

Calibration Report

Batch Path	D:\GC-9\DATA\080823\QuantResults\voc s cal.batch.bin		
Analysis Time	8/10/2023 4:55 PM	Analyst Name	FA\GC9
Report Time	8/10/2023 5:00:30 PM	Reporter Name	FA\GC9
Last Calib Update	8/10/2023 1:10 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Benzene %RSE = 5.4

Benzene - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

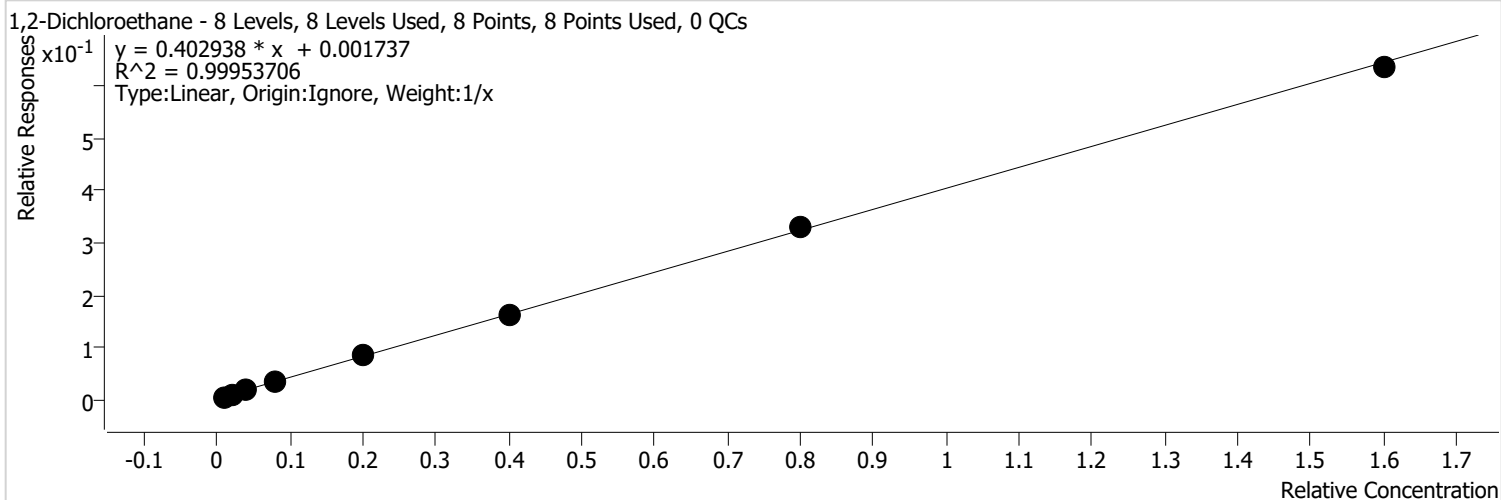


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-9\DATA\080823\080858.D	Calibration	1	x	79671	0.2000	1.5755	
D:\GC-9\DATA\080823\080859.D	Calibration	2	x	196831	0.5000	1.5472	
D:\GC-9\DATA\080823\080860.D	Calibration	3	x	370467	1.0000	1.4451	
D:\GC-9\DATA\080823\080861.D	Calibration	4	x	719760	2.0000	1.4218	
D:\GC-9\DATA\080823\080862.D	Calibration	5	x	1770473	5.0000	1.4479	
D:\GC-9\DATA\080823\080863.D	Calibration	6	x	3340789	10.0000	1.3673	
D:\GC-9\DATA\080823\080864.D	Calibration	7	x	6701695	20.0000	1.4026	
D:\GC-9\DATA\080823\080865.D	Calibration	8	x	12760678	40.0000	1.3638	

Calibration Report

Batch Path	D:\GC-9\DATA\080823\QuantResults\voc s cal.batch.bin		
Analysis Time	8/10/2023 4:55 PM	Analyst Name	FA\GC9
Report Time	8/10/2023 5:00:30 PM	Reporter Name	FA\GC9
Last Calib Update	8/10/2023 1:10 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,2-Dichloroethane %RSE = 5.6



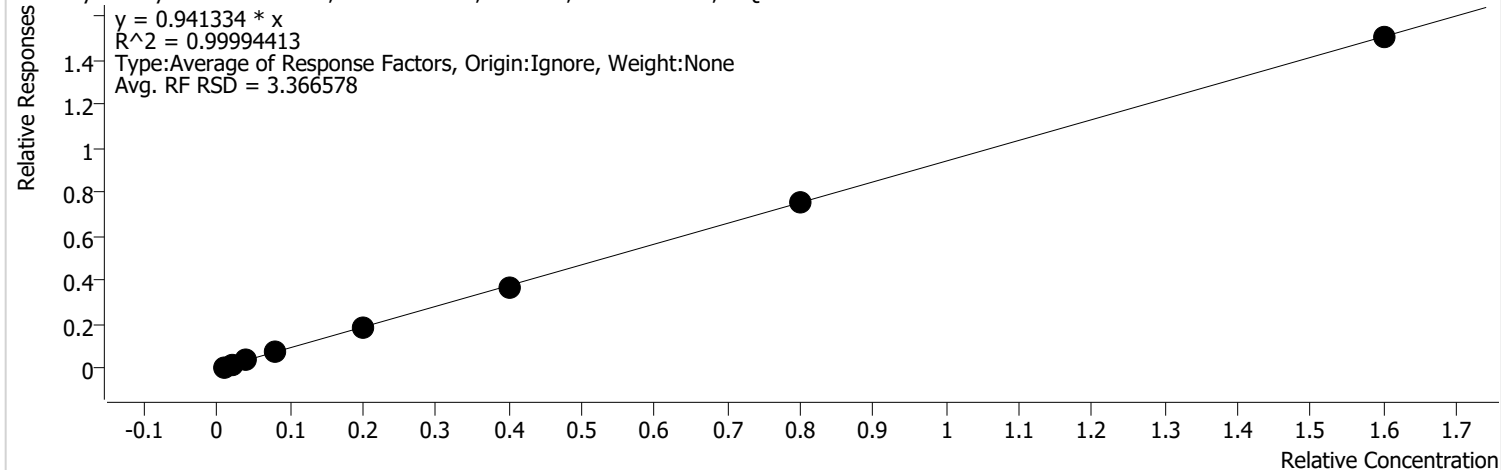
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-9\DATA\080823\080858.D	Calibration	1	x	28959	0.2000	0.5727	
D:\GC-9\DATA\080823\080859.D	Calibration	2	x	63536	0.5000	0.4994	
D:\GC-9\DATA\080823\080860.D	Calibration	3	x	115753	1.0000	0.4515	
D:\GC-9\DATA\080823\080861.D	Calibration	4	x	220111	2.0000	0.4348	
D:\GC-9\DATA\080823\080862.D	Calibration	5	x	529703	5.0000	0.4332	
D:\GC-9\DATA\080823\080863.D	Calibration	6	x	999393	10.0000	0.4090	
D:\GC-9\DATA\080823\080864.D	Calibration	7	x	1962313	20.0000	0.4107	
D:\GC-9\DATA\080823\080865.D	Calibration	8	x	3719901	40.0000	0.3976	

Calibration Report

Batch Path	D:\GC-9\DATA\080823\QuantResults\voc s cal.batch.bin		
Analysis Time	8/10/2023 4:55 PM	Analyst Name	FA\GC9
Report Time	8/10/2023 5:00:30 PM	Reporter Name	FA\GC9
Last Calib Update	8/10/2023 1:10 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

tert-Amyl methyl ether %RSE = 3.4

tert-Amyl methyl ether - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

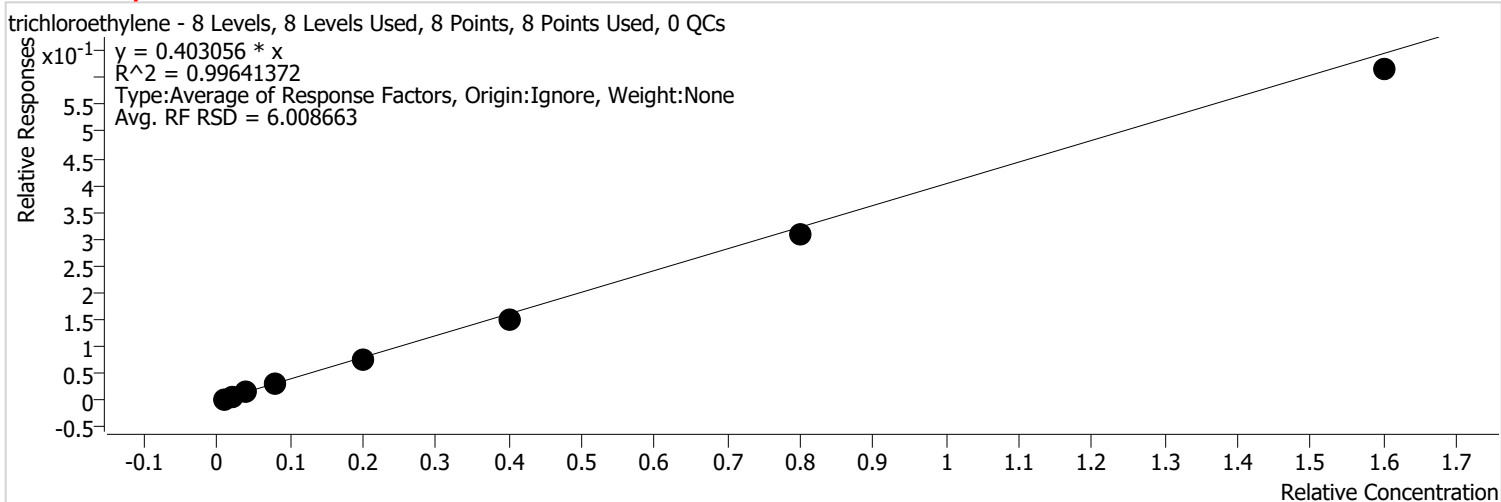


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-9\DATA\080823\080858.D	Calibration	1	x	50846	0.2000	1.0055	
D:\GC-9\DATA\080823\080859.D	Calibration	2	x	120967	0.5000	0.9508	
D:\GC-9\DATA\080823\080860.D	Calibration	3	x	234937	1.0000	0.9164	
D:\GC-9\DATA\080823\080861.D	Calibration	4	x	454810	2.0000	0.8985	
D:\GC-9\DATA\080823\080862.D	Calibration	5	x	1159676	5.0000	0.9484	
D:\GC-9\DATA\080823\080863.D	Calibration	6	x	2260444	10.0000	0.9252	
D:\GC-9\DATA\080823\080864.D	Calibration	7	x	4527839	20.0000	0.9476	
D:\GC-9\DATA\080823\080865.D	Calibration	8	x	8778538	40.0000	0.9382	

Calibration Report

Batch Path	D:\GC-9\DATA\080823\QuantResults\voc s cal.batch.bin		
Analysis Time	8/10/2023 4:55 PM	Analyst Name	FA\GC9
Report Time	8/10/2023 5:00:30 PM	Reporter Name	FA\GC9
Last Calib Update	8/10/2023 1:10 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

trichloroethylene %RSE = 6.0

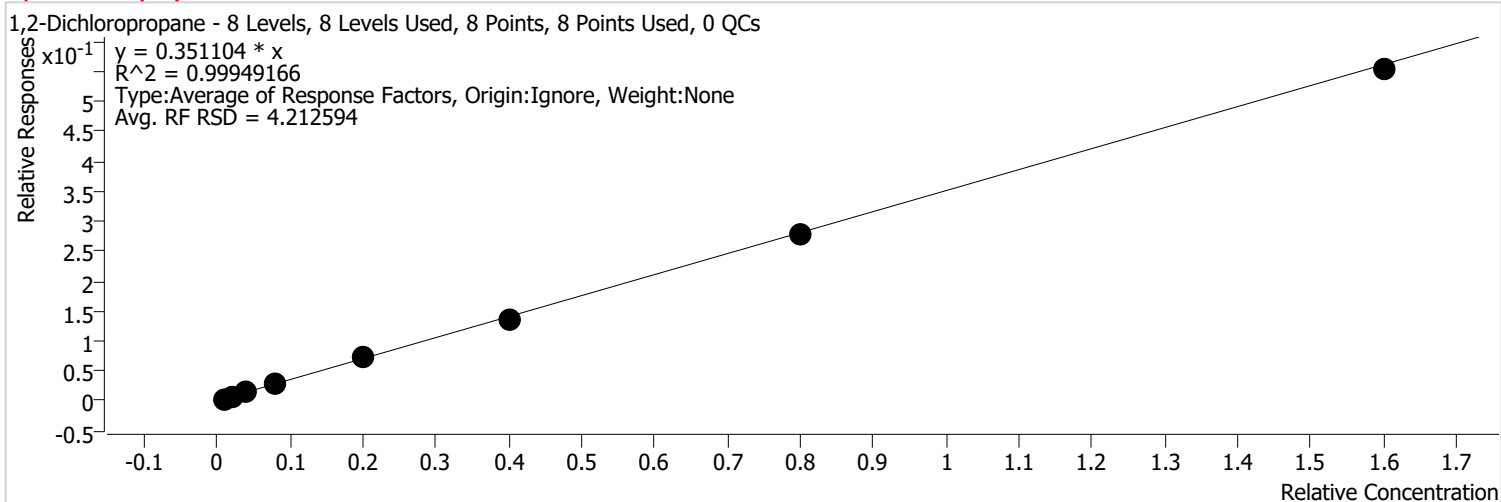


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-9\DATA\080823\080858.D	Calibration	1	x	22674	0.2000	0.4484	
D:\GC-9\DATA\080823\080859.D	Calibration	2	x	54343	0.5000	0.4272	
D:\GC-9\DATA\080823\080860.D	Calibration	3	x	106074	1.0000	0.4138	
D:\GC-9\DATA\080823\080861.D	Calibration	4	x	197326	2.0000	0.3898	
D:\GC-9\DATA\080823\080862.D	Calibration	5	x	479599	5.0000	0.3922	
D:\GC-9\DATA\080823\080863.D	Calibration	6	x	932793	10.0000	0.3818	
D:\GC-9\DATA\080823\080864.D	Calibration	7	x	1849454	20.0000	0.3871	
D:\GC-9\DATA\080823\080865.D	Calibration	8	x	3595248	40.0000	0.3843	

Calibration Report

Batch Path	D:\GC-9\DATA\080823\QuantResults\voc s cal.batch.bin		
Analysis Time	8/10/2023 4:55 PM	Analyst Name	FA\GC9
Report Time	8/10/2023 5:00:30 PM	Reporter Name	FA\GC9
Last Calib Update	8/10/2023 1:10 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,2-Dichloropropane %RSE = 4.2

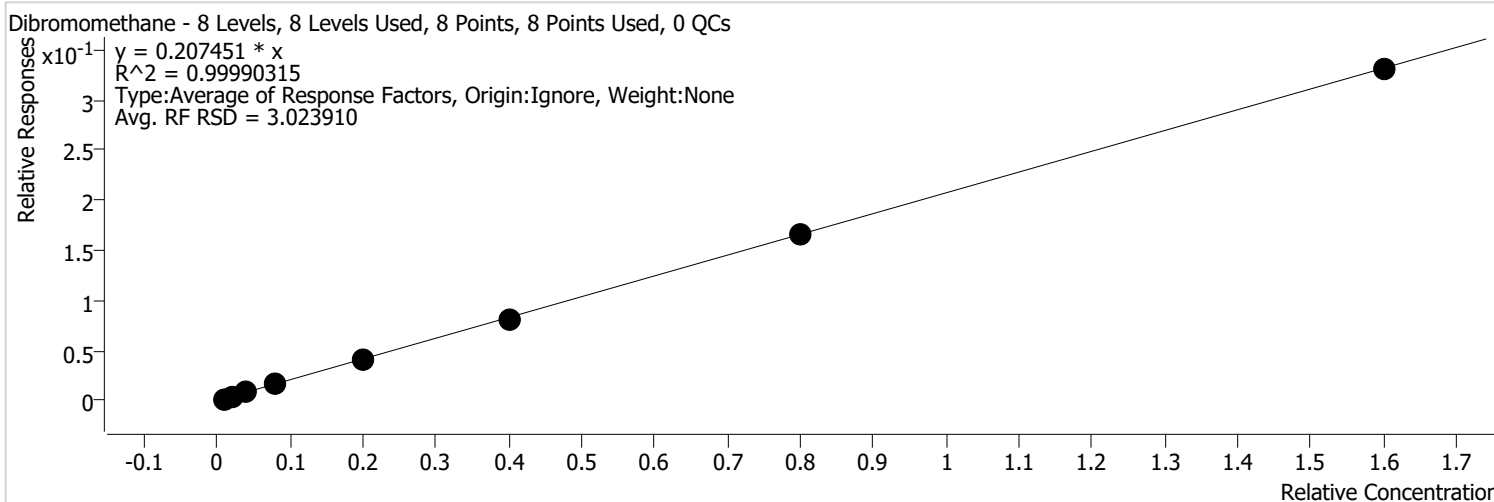


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-9\DATA\080823\080858.D	Calibration	1	x	19206	0.2000	0.3798	
D:\GC-9\DATA\080823\080859.D	Calibration	2	x	46412	0.5000	0.3648	
D:\GC-9\DATA\080823\080860.D	Calibration	3	x	87243	1.0000	0.3403	
D:\GC-9\DATA\080823\080861.D	Calibration	4	x	172604	2.0000	0.3410	
D:\GC-9\DATA\080823\080862.D	Calibration	5	x	434637	5.0000	0.3554	
D:\GC-9\DATA\080823\080863.D	Calibration	6	x	821490	10.0000	0.3362	
D:\GC-9\DATA\080823\080864.D	Calibration	7	x	1651071	20.0000	0.3456	
D:\GC-9\DATA\080823\080865.D	Calibration	8	x	3234540	40.0000	0.3457	

Calibration Report

Batch Path	D:\GC-9\DATA\080823\QuantResults\voc s cal.batch.bin		
Analysis Time	8/10/2023 4:55 PM	Analyst Name	FA\GC9
Report Time	8/10/2023 5:00:30 PM	Reporter Name	FA\GC9
Last Calib Update	8/10/2023 1:10 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Dibromomethane %RSE = 3.0

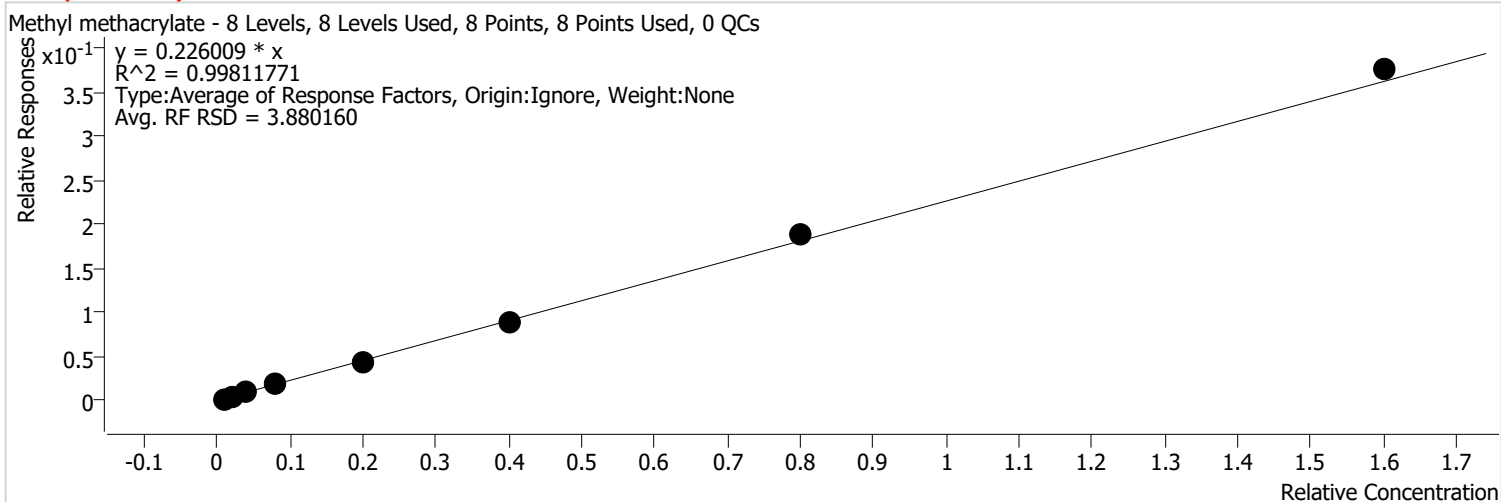


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-9\DATA\080823\080858.D	Calibration	1	x	11002	0.2000	0.2176	
D:\GC-9\DATA\080823\080859.D	Calibration	2	x	27505	0.5000	0.2162	
D:\GC-9\DATA\080823\080860.D	Calibration	3	x	52057	1.0000	0.2031	
D:\GC-9\DATA\080823\080861.D	Calibration	4	x	101948	2.0000	0.2014	
D:\GC-9\DATA\080823\080862.D	Calibration	5	x	252296	5.0000	0.2063	
D:\GC-9\DATA\080823\080863.D	Calibration	6	x	491695	10.0000	0.2012	
D:\GC-9\DATA\080823\080864.D	Calibration	7	x	990699	20.0000	0.2073	
D:\GC-9\DATA\080823\080865.D	Calibration	8	x	1931869	40.0000	0.2065	

Calibration Report

Batch Path	D:\GC-9\DATA\080823\QuantResults\voc s cal.batch.bin		
Analysis Time	8/10/2023 4:55 PM	Analyst Name	FA\GC9
Report Time	8/10/2023 5:00:30 PM	Reporter Name	FA\GC9
Last Calib Update	8/10/2023 1:10 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Methyl methacrylate %RSE = 3.9



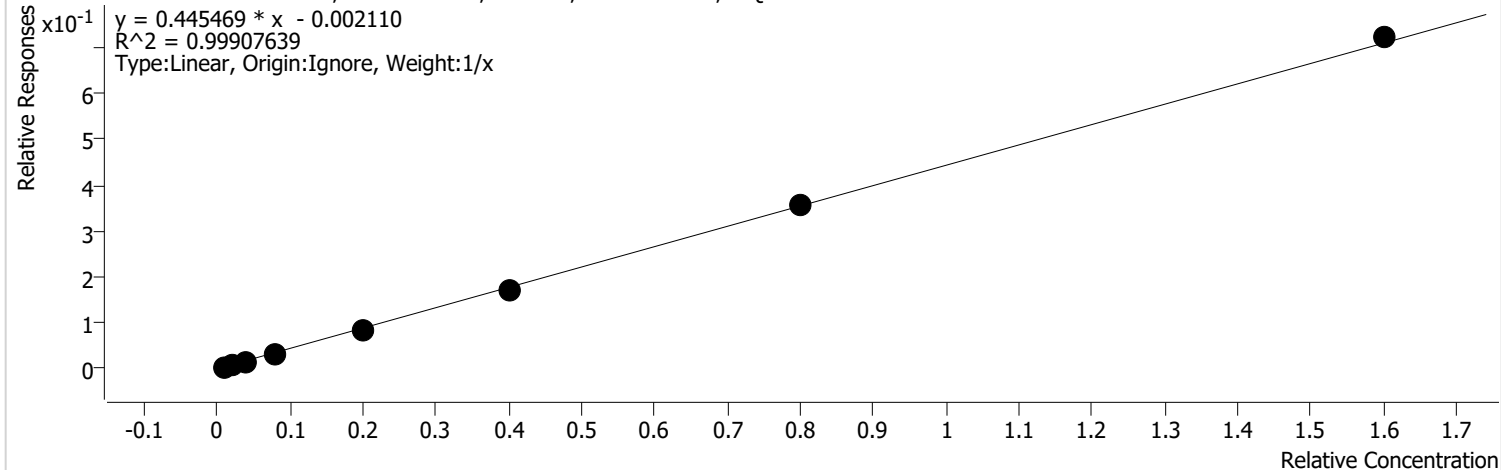
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-9\DATA\080823\080858.D	Calibration	1	x	11021	0.2000	0.2180	
D:\GC-9\DATA\080823\080859.D	Calibration	2	x	30487	0.5000	0.2396	
D:\GC-9\DATA\080823\080860.D	Calibration	3	x	55649	1.0000	0.2171	
D:\GC-9\DATA\080823\080861.D	Calibration	4	x	111307	2.0000	0.2199	
D:\GC-9\DATA\080823\080862.D	Calibration	5	x	269911	5.0000	0.2207	
D:\GC-9\DATA\080823\080863.D	Calibration	6	x	547546	10.0000	0.2241	
D:\GC-9\DATA\080823\080864.D	Calibration	7	x	1119555	20.0000	0.2343	
D:\GC-9\DATA\080823\080865.D	Calibration	8	x	2192904	40.0000	0.2344	

Calibration Report

Batch Path	D:\GC-9\DATA\080823\QuantResults\voc s cal.batch.bin		
Analysis Time	8/10/2023 4:55 PM	Analyst Name	FA\GC9
Report Time	8/10/2023 5:00:30 PM	Reporter Name	FA\GC9
Last Calib Update	8/10/2023 1:10 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

bromodichloromethane %RSE = 9.6

bromodichloromethane - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



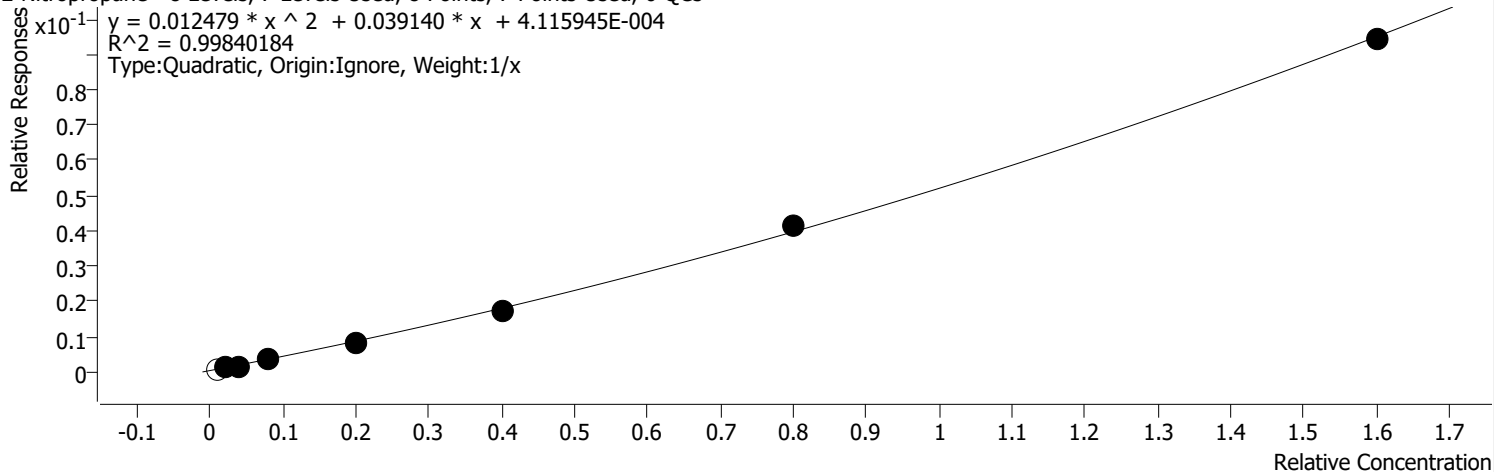
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-9\DATA\080823\080858.D	Calibration	1	x	13763	0.2000	0.2722	
D:\GC-9\DATA\080823\080859.D	Calibration	2	x	43276	0.5000	0.3402	
D:\GC-9\DATA\080823\080860.D	Calibration	3	x	93126	1.0000	0.3633	
D:\GC-9\DATA\080823\080861.D	Calibration	4	x	194759	2.0000	0.3847	
D:\GC-9\DATA\080823\080862.D	Calibration	5	x	510267	5.0000	0.4173	
D:\GC-9\DATA\080823\080863.D	Calibration	6	x	1025370	10.0000	0.4197	
D:\GC-9\DATA\080823\080864.D	Calibration	7	x	2134459	20.0000	0.4467	
D:\GC-9\DATA\080823\080865.D	Calibration	8	x	4224803	40.0000	0.4515	

Calibration Report

Batch Path	D:\GC-9\DATA\080823\QuantResults\voc s cal.batch.bin		
Analysis Time	8/10/2023 4:55 PM	Analyst Name	FA\GC9
Report Time	8/10/2023 5:00:30 PM	Reporter Name	FA\GC9
Last Calib Update	8/10/2023 1:10 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

2-Nitropropane %RSE = 17.0

2-Nitropropane - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 0 QCs



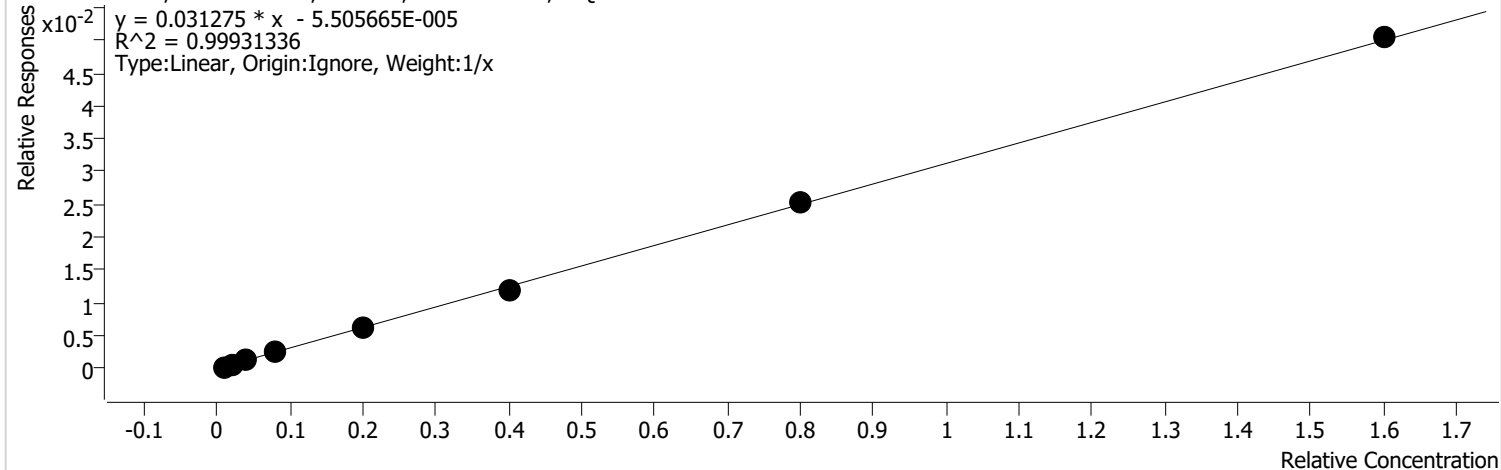
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-9\DATA\080823\080858.D	Calibration	1		5720	0.2000	0.1131	
D:\GC-9\DATA\080823\080859.D	Calibration	2	x	9014	0.5000	0.0709	
D:\GC-9\DATA\080823\080860.D	Calibration	3	x	10979	1.0000	0.0428	
D:\GC-9\DATA\080823\080861.D	Calibration	4	x	21948	2.0000	0.0434	
D:\GC-9\DATA\080823\080862.D	Calibration	5	x	50026	5.0000	0.0409	
D:\GC-9\DATA\080823\080863.D	Calibration	6	x	107554	10.0000	0.0440	
D:\GC-9\DATA\080823\080864.D	Calibration	7	x	249558	20.0000	0.0522	
D:\GC-9\DATA\080823\080865.D	Calibration	8	x	550509	40.0000	0.0588	

Calibration Report

Batch Path	D:\GC-9\DATA\080823\QuantResults\voc s cal.batch.bin		
Analysis Time	8/10/2023 4:55 PM	Analyst Name	FA\GC9
Report Time	8/10/2023 5:00:30 PM	Reporter Name	FA\GC9
Last Calib Update	8/10/2023 1:10 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

MTBE %RSE = 6.3

MTBE - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



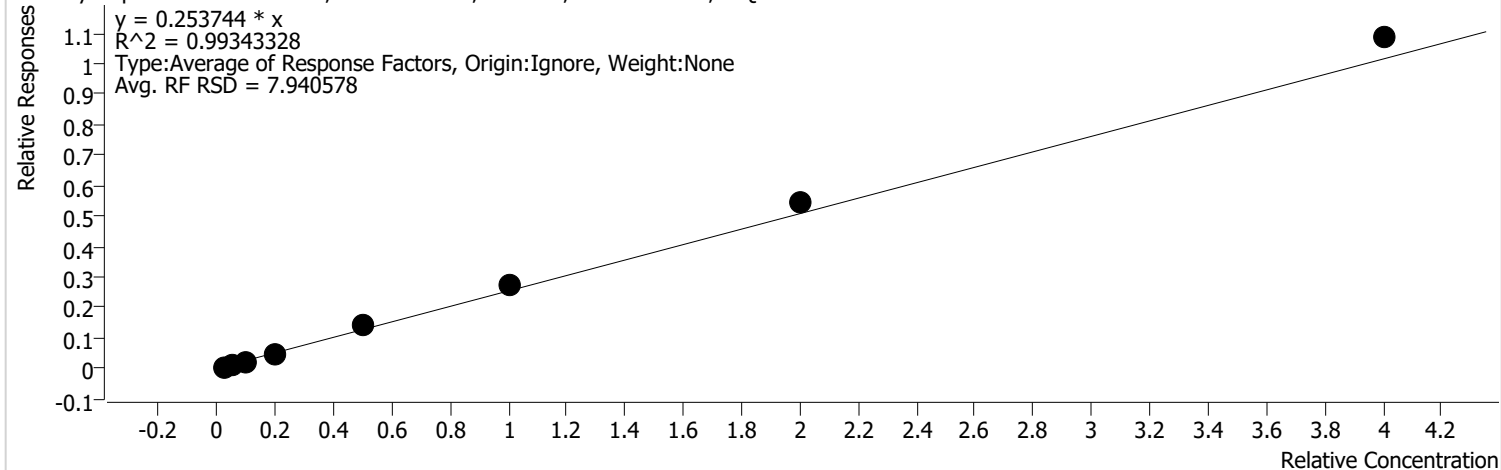
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-9\DATA\080823\080858.D	Calibration	1	x	1261	0.2000	0.0249	
D:\GC-9\DATA\080823\080859.D	Calibration	2	x	4107	0.5000	0.0323	
D:\GC-9\DATA\080823\080860.D	Calibration	3	x	7177	1.0000	0.0280	
D:\GC-9\DATA\080823\080861.D	Calibration	4	x	14740	2.0000	0.0291	
D:\GC-9\DATA\080823\080862.D	Calibration	5	x	37892	5.0000	0.0310	
D:\GC-9\DATA\080823\080863.D	Calibration	6	x	72110	10.0000	0.0295	
D:\GC-9\DATA\080823\080864.D	Calibration	7	x	151242	20.0000	0.0317	
D:\GC-9\DATA\080823\080865.D	Calibration	8	x	294689	40.0000	0.0315	

Calibration Report

Batch Path	D:\GC-9\DATA\080823\QuantResults\voc s cal.batch.bin		
Analysis Time	8/10/2023 4:55 PM	Analyst Name	FA\GC9
Report Time	8/10/2023 5:00:30 PM	Reporter Name	FA\GC9
Last Calib Update	8/10/2023 1:10 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

4-methyl-2-pentanone %RSE = 7.9

4-methyl-2-pentanone - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

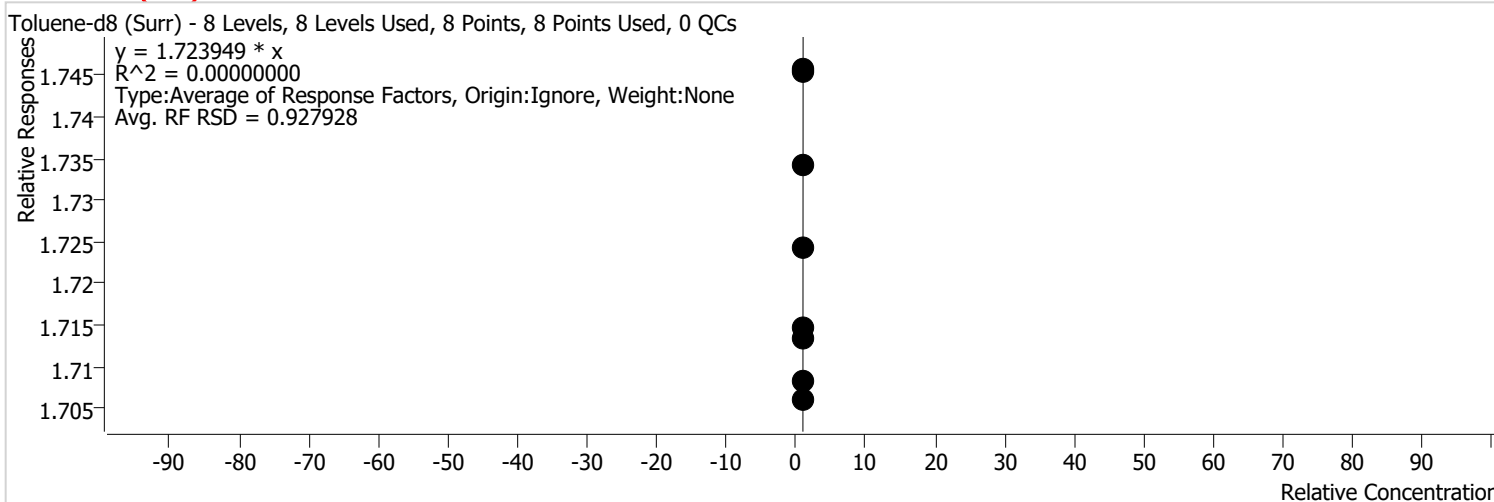


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-9\DATA\080823\080858.D	Calibration	1	x	29030	0.5000	0.2296	
D:\GC-9\DATA\080823\080859.D	Calibration	2	x	75594	1.2500	0.2377	
D:\GC-9\DATA\080823\080860.D	Calibration	3	x	149147	2.5000	0.2327	
D:\GC-9\DATA\080823\080861.D	Calibration	4	x	304803	5.0000	0.2408	
D:\GC-9\DATA\080823\080862.D	Calibration	5	x	843624	12.5000	0.2760	
D:\GC-9\DATA\080823\080863.D	Calibration	6	x	1647709	25.0000	0.2698	
D:\GC-9\DATA\080823\080864.D	Calibration	7	x	3251851	50.0000	0.2722	
D:\GC-9\DATA\080823\080865.D	Calibration	8	x	6341704	100.0000	0.2711	

Calibration Report

Batch Path	D:\GC-9\DATA\080823\QuantResults\voc s cal.batch.bin	Analyst Name	FA\GC9
Analysis Time	8/10/2023 4:55 PM	Reporter Name	FA\GC9
Report Time	8/10/2023 5:00:30 PM	Batch State	Processed
Last Calib Update	8/10/2023 1:10 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

Toluene-d8 (Surr) %RSE =



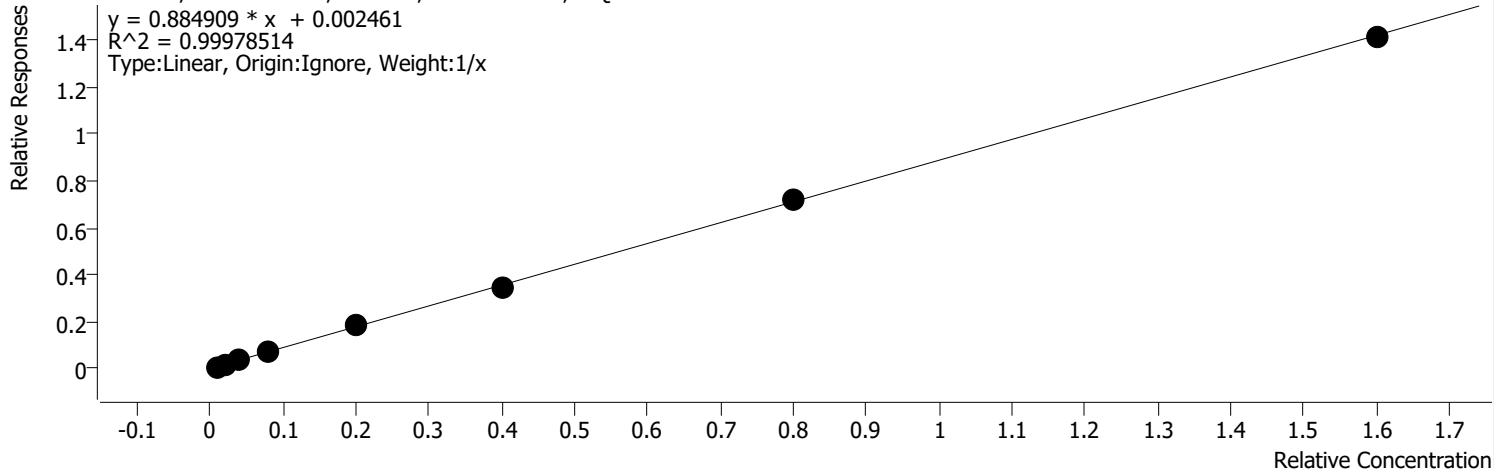
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-9\DATA\080823\080865.D	Calibration	8	x	10206045	25.0000	1.7453	
D:\GC-9\DATA\080823\080864.D	Calibration	7	x	10425774	25.0000	1.7456	
D:\GC-9\DATA\080823\080863.D	Calibration	6	x	10592043	25.0000	1.7341	
D:\GC-9\DATA\080823\080862.D	Calibration	5	x	10542115	25.0000	1.7243	
D:\GC-9\DATA\080823\080861.D	Calibration	4	x	10850002	25.0000	1.7147	
D:\GC-9\DATA\080823\080860.D	Calibration	3	x	10947866	25.0000	1.7082	
D:\GC-9\DATA\080823\080859.D	Calibration	2	x	10852957	25.0000	1.7062	
D:\GC-9\DATA\080823\080858.D	Calibration	1	x	10829612	25.0000	1.7133	

Calibration Report

Batch Path	D:\GC-9\DATA\080823\QuantResults\voc s cal.batch.bin		
Analysis Time	8/10/2023 4:55 PM	Analyst Name	FA\GC9
Report Time	8/10/2023 5:00:30 PM	Reporter Name	FA\GC9
Last Calib Update	8/10/2023 1:10 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Toluene %RSE = 2.7

Toluene - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

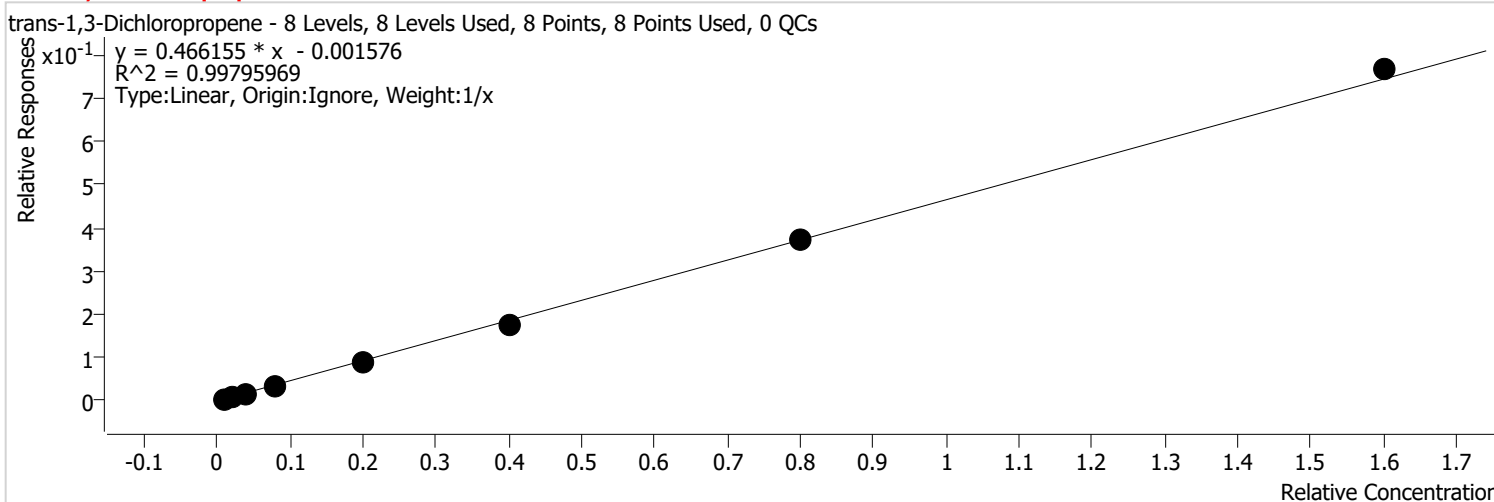


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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D:\GC-9\DATA\080823\080859.D	Calibration	2	x	127581	0.5000	1.0028	
D:\GC-9\DATA\080823\080860.D	Calibration	3	x	242495	1.0000	0.9459	
D:\GC-9\DATA\080823\080861.D	Calibration	4	x	478157	2.0000	0.9446	
D:\GC-9\DATA\080823\080862.D	Calibration	5	x	1129094	5.0000	0.9234	
D:\GC-9\DATA\080823\080863.D	Calibration	6	x	2140394	10.0000	0.8760	
D:\GC-9\DATA\080823\080864.D	Calibration	7	x	4298082	20.0000	0.8996	
D:\GC-9\DATA\080823\080865.D	Calibration	8	x	8233538	40.0000	0.8800	

Calibration Report

Batch Path	D:\GC-9\DATA\080823\QuantResults\voc s cal.batch.bin		
Analysis Time	8/10/2023 4:55 PM	Analyst Name	FA\GC9
Report Time	8/10/2023 5:00:30 PM	Reporter Name	FA\GC9
Last Calib Update	8/10/2023 1:10 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

trans-1,3-Dichloropropene %RSE = 13.8



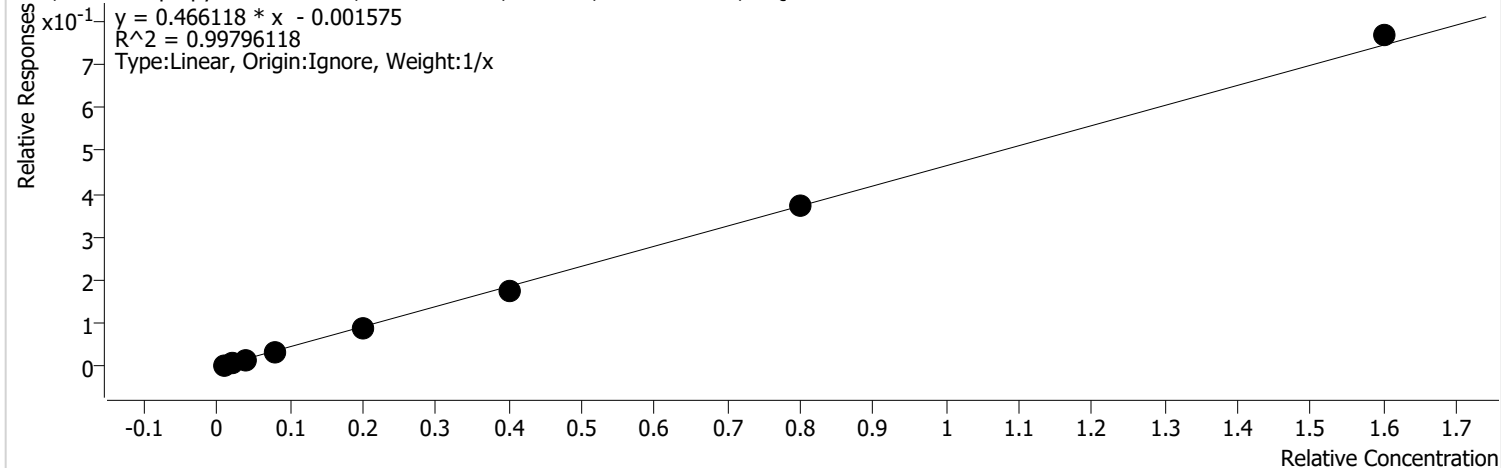
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-9\DATA\080823\080858.D	Calibration	1	x	20380	0.2000	0.4030	
D:\GC-9\DATA\080823\080859.D	Calibration	2	x	50545	0.5000	0.3973	
D:\GC-9\DATA\080823\080860.D	Calibration	3	x	97969	1.0000	0.3821	
D:\GC-9\DATA\080823\080861.D	Calibration	4	x	198896	2.0000	0.3929	
D:\GC-9\DATA\080823\080862.D	Calibration	5	x	521172	5.0000	0.4262	
D:\GC-9\DATA\080823\080863.D	Calibration	6	x	1060957	10.0000	0.4342	
D:\GC-9\DATA\080823\080864.D	Calibration	7	x	2221484	20.0000	0.4649	
D:\GC-9\DATA\080823\080865.D	Calibration	8	x	4479842	40.0000	0.4788	

Calibration Report

Batch Path	D:\GC-9\DATA\080823\QuantResults\voc s cal.batch.bin		
Analysis Time	8/10/2023 4:55 PM	Analyst Name	FA\GC9
Report Time	8/10/2023 5:00:30 PM	Reporter Name	FA\GC9
Last Calib Update	8/10/2023 1:10 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

cis-1,3-Dichloropropylene %RSE = 13.8

cis-1,3-Dichloropropylene - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



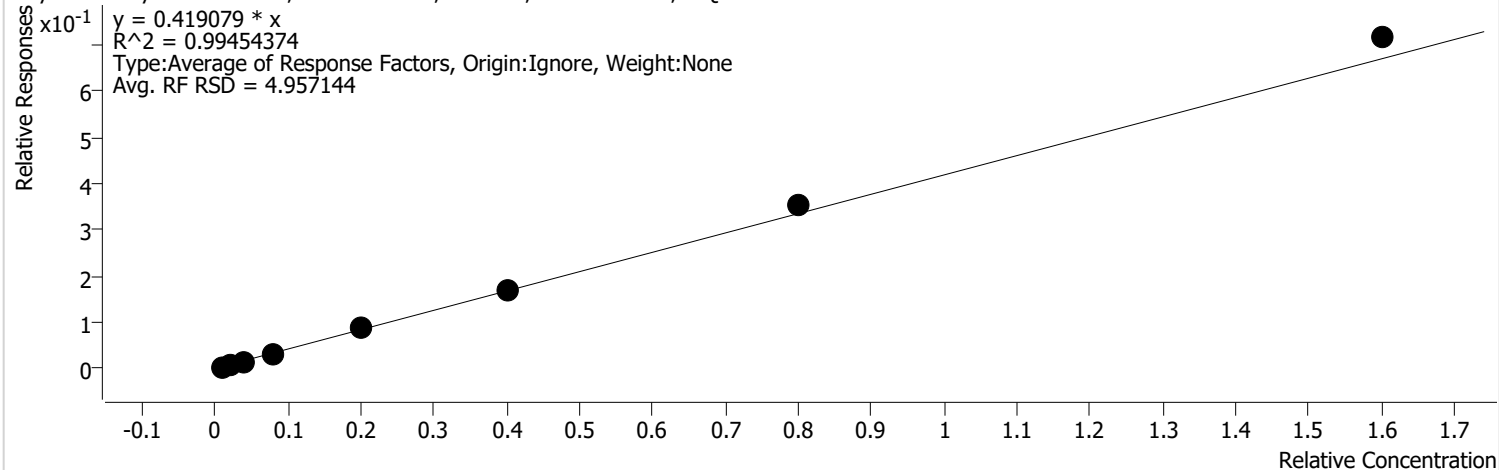
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-9\DATA\080823\080858.D	Calibration	1	x	20380	0.2000	0.4030	
D:\GC-9\DATA\080823\080859.D	Calibration	2	x	50545	0.5000	0.3973	
D:\GC-9\DATA\080823\080860.D	Calibration	3	x	97969	1.0000	0.3821	
D:\GC-9\DATA\080823\080861.D	Calibration	4	x	198896	2.0000	0.3929	
D:\GC-9\DATA\080823\080862.D	Calibration	5	x	521172	5.0000	0.4262	
D:\GC-9\DATA\080823\080863.D	Calibration	6	x	1060823	10.0000	0.4342	
D:\GC-9\DATA\080823\080864.D	Calibration	7	x	2221484	20.0000	0.4649	
D:\GC-9\DATA\080823\080865.D	Calibration	8	x	4479337	40.0000	0.4787	

Calibration Report

Batch Path	D:\GC-9\DATA\080823\QuantResults\voc s cal.batch.bin		
Analysis Time	8/10/2023 4:55 PM	Analyst Name	FA\GC9
Report Time	8/10/2023 5:00:30 PM	Reporter Name	FA\GC9
Last Calib Update	8/10/2023 1:10 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Ethyl methacrylate %RSE = 5.0

Ethyl methacrylate - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

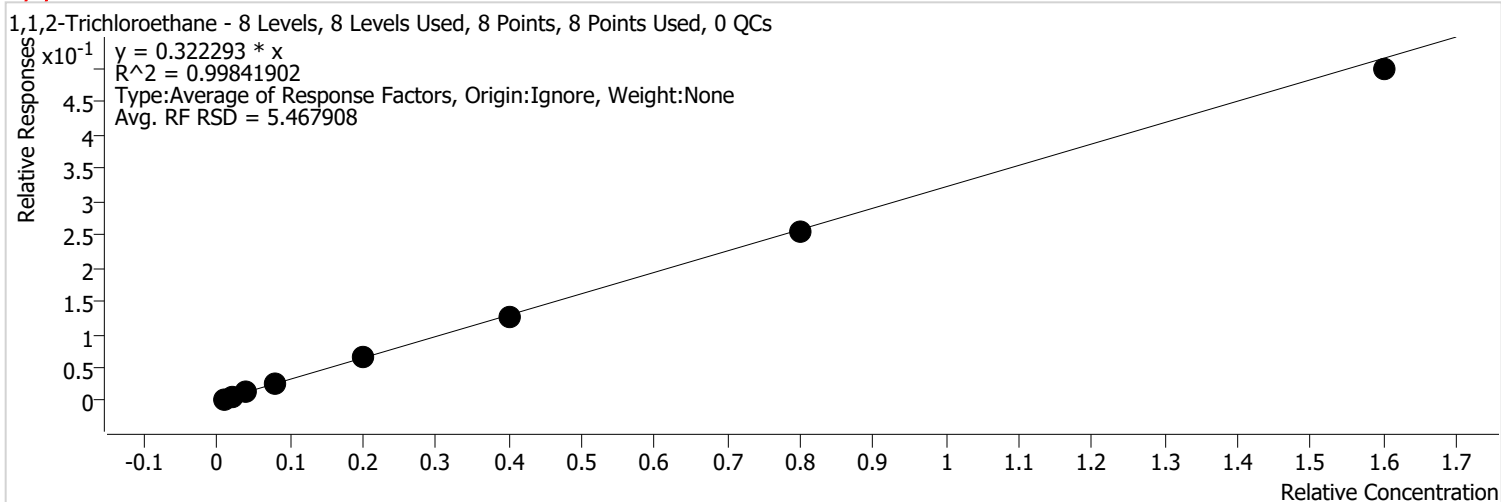


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-9\DATA\080823\080858.D	Calibration	1	x	21475	0.2000	0.4247	
D:\GC-9\DATA\080823\080859.D	Calibration	2	x	52178	0.5000	0.4101	
D:\GC-9\DATA\080823\080860.D	Calibration	3	x	101191	1.0000	0.3947	
D:\GC-9\DATA\080823\080861.D	Calibration	4	x	196126	2.0000	0.3874	
D:\GC-9\DATA\080823\080862.D	Calibration	5	x	522263	5.0000	0.4271	
D:\GC-9\DATA\080823\080863.D	Calibration	6	x	1028827	10.0000	0.4211	
D:\GC-9\DATA\080823\080864.D	Calibration	7	x	2101391	20.0000	0.4398	
D:\GC-9\DATA\080823\080865.D	Calibration	8	x	4188547	40.0000	0.4477	

Calibration Report

Batch Path	D:\GC-9\DATA\080823\QuantResults\voc s cal.batch.bin		
Analysis Time	8/10/2023 4:55 PM	Analyst Name	FA\GC9
Report Time	8/10/2023 5:00:30 PM	Reporter Name	FA\GC9
Last Calib Update	8/10/2023 1:10 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,1,2-Trichloroethane %RSE = 5.5

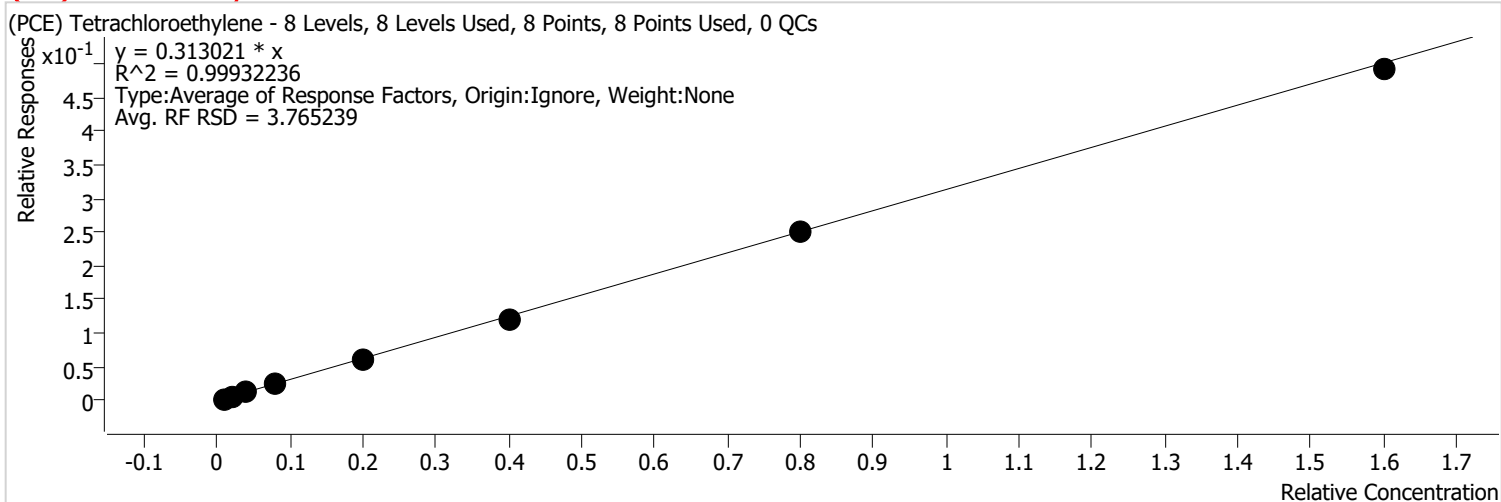


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-9\DATA\080823\080858.D	Calibration	1	x	18310	0.2000	0.3621	
D:\GC-9\DATA\080823\080859.D	Calibration	2	x	41917	0.5000	0.3295	
D:\GC-9\DATA\080823\080860.D	Calibration	3	x	80146	1.0000	0.3126	
D:\GC-9\DATA\080823\080861.D	Calibration	4	x	156552	2.0000	0.3093	
D:\GC-9\DATA\080823\080862.D	Calibration	5	x	397558	5.0000	0.3251	
D:\GC-9\DATA\080823\080863.D	Calibration	6	x	760236	10.0000	0.3112	
D:\GC-9\DATA\080823\080864.D	Calibration	7	x	1514802	20.0000	0.3170	
D:\GC-9\DATA\080823\080865.D	Calibration	8	x	2915144	40.0000	0.3116	

Calibration Report

Batch Path	D:\GC-9\DATA\080823\QuantResults\voc s cal.batch.bin		
Analysis Time	8/10/2023 4:55 PM	Analyst Name	FA\GC9
Report Time	8/10/2023 5:00:30 PM	Reporter Name	FA\GC9
Last Calib Update	8/10/2023 1:10 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

(PCE) Tetrachloroethylene %RSE = 3.8

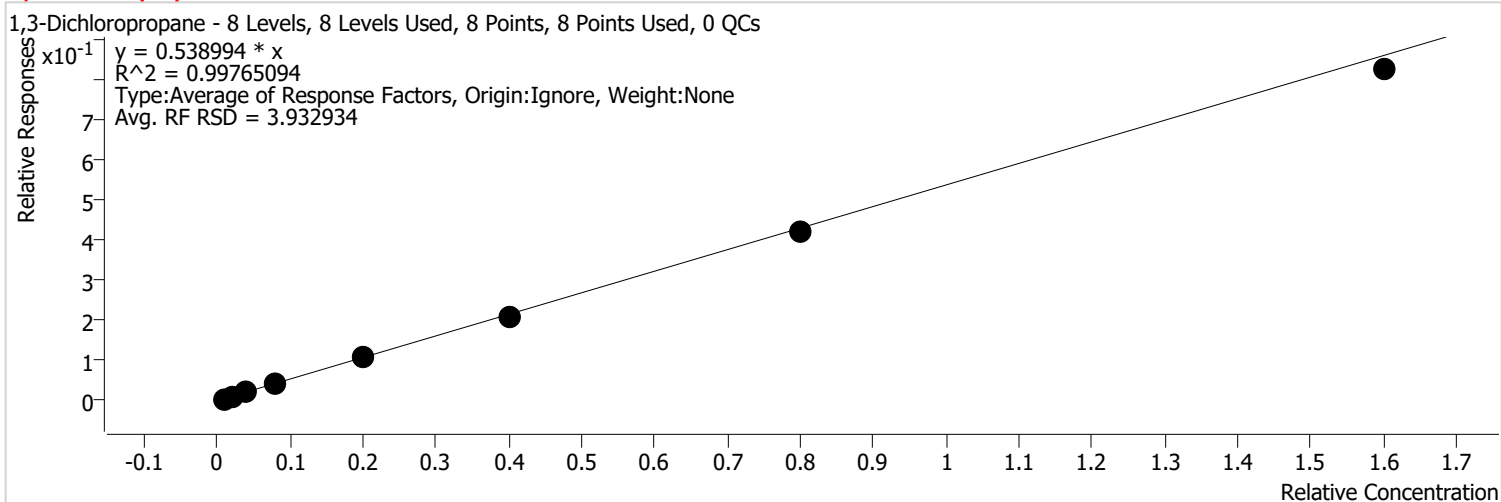


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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D:\GC-9\DATA\080823\080859.D	Calibration	2	x	41669	0.5000	0.3275	
D:\GC-9\DATA\080823\080860.D	Calibration	3	x	80546	1.0000	0.3142	
D:\GC-9\DATA\080823\080861.D	Calibration	4	x	152342	2.0000	0.3009	
D:\GC-9\DATA\080823\080862.D	Calibration	5	x	378746	5.0000	0.3097	
D:\GC-9\DATA\080823\080863.D	Calibration	6	x	729766	10.0000	0.2987	
D:\GC-9\DATA\080823\080864.D	Calibration	7	x	1502840	20.0000	0.3145	
D:\GC-9\DATA\080823\080865.D	Calibration	8	x	2869324	40.0000	0.3067	

Calibration Report

Batch Path	D:\GC-9\DATA\080823\QuantResults\voc s cal.batch.bin		
Analysis Time	8/10/2023 4:55 PM	Analyst Name	FA\GC9
Report Time	8/10/2023 5:00:30 PM	Reporter Name	FA\GC9
Last Calib Update	8/10/2023 1:10 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,3-Dichloropropane %RSE = 3.9



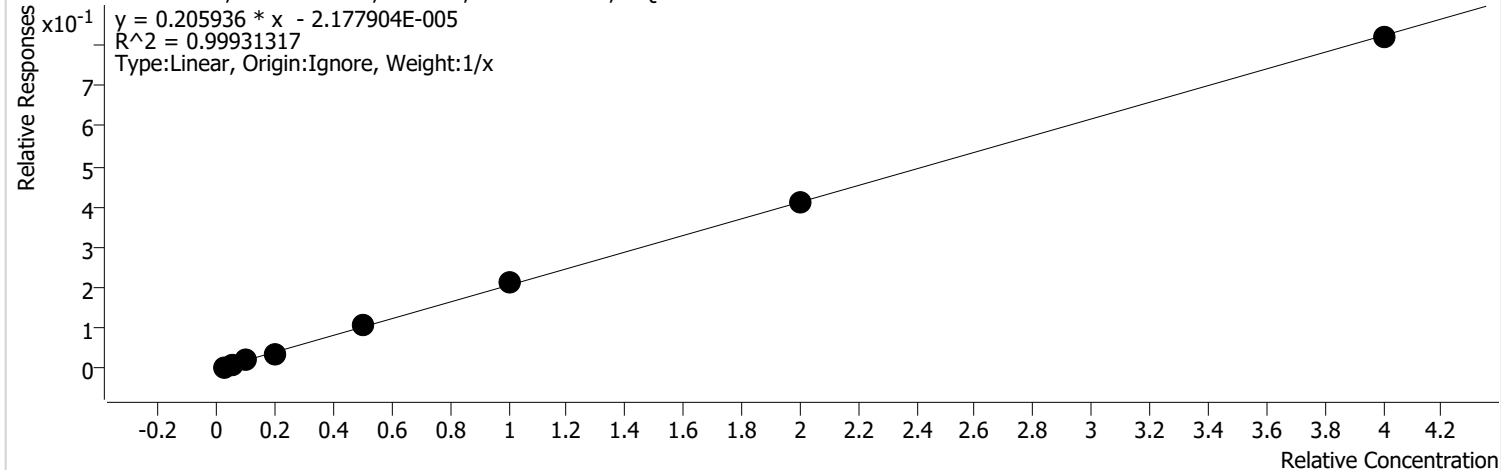
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-9\DATA\080823\080858.D	Calibration	1	x	28940	0.2000	0.5723	
D:\GC-9\DATA\080823\080859.D	Calibration	2	x	72179	0.5000	0.5674	
D:\GC-9\DATA\080823\080860.D	Calibration	3	x	135337	1.0000	0.5279	
D:\GC-9\DATA\080823\080861.D	Calibration	4	x	264940	2.0000	0.5234	
D:\GC-9\DATA\080823\080862.D	Calibration	5	x	671624	5.0000	0.5493	
D:\GC-9\DATA\080823\080863.D	Calibration	6	x	1286828	10.0000	0.5267	
D:\GC-9\DATA\080823\080864.D	Calibration	7	x	2524053	20.0000	0.5283	
D:\GC-9\DATA\080823\080865.D	Calibration	8	x	4835447	40.0000	0.5168	

Calibration Report

Batch Path	D:\GC-9\DATA\080823\QuantResults\voc s cal.batch.bin		
Analysis Time	8/10/2023 4:55 PM	Analyst Name	FA\GC9
Report Time	8/10/2023 5:00:30 PM	Reporter Name	FA\GC9
Last Calib Update	8/10/2023 1:10 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

2-Hexanone %RSE = 6.8

2-Hexanone - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



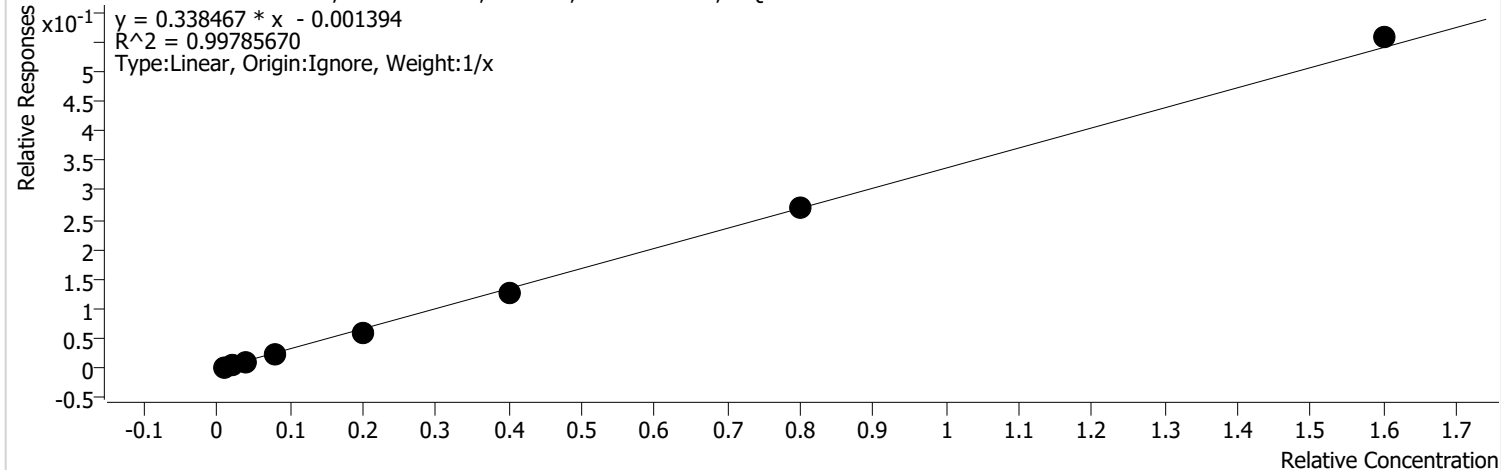
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-9\DATA\080823\080858.D	Calibration	1	x	27836	0.5000	0.2202	
D:\GC-9\DATA\080823\080859.D	Calibration	2	x	61799	1.2500	0.1943	
D:\GC-9\DATA\080823\080860.D	Calibration	3	x	138528	2.5000	0.2161	
D:\GC-9\DATA\080823\080861.D	Calibration	4	x	228803	5.0000	0.1808	
D:\GC-9\DATA\080823\080862.D	Calibration	5	x	644868	12.5000	0.2110	
D:\GC-9\DATA\080823\080863.D	Calibration	6	x	1296718	25.0000	0.2123	
D:\GC-9\DATA\080823\080864.D	Calibration	7	x	2464378	50.0000	0.2063	
D:\GC-9\DATA\080823\080865.D	Calibration	8	x	4785055	100.0000	0.2046	

Calibration Report

Batch Path	D:\GC-9\DATA\080823\QuantResults\voc s cal.batch.bin		
Analysis Time	8/10/2023 4:55 PM	Analyst Name	FA\GC9
Report Time	8/10/2023 5:00:30 PM	Reporter Name	FA\GC9
Last Calib Update	8/10/2023 1:10 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

dibromochloromethane %RSE = 14.7

dibromochloromethane - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



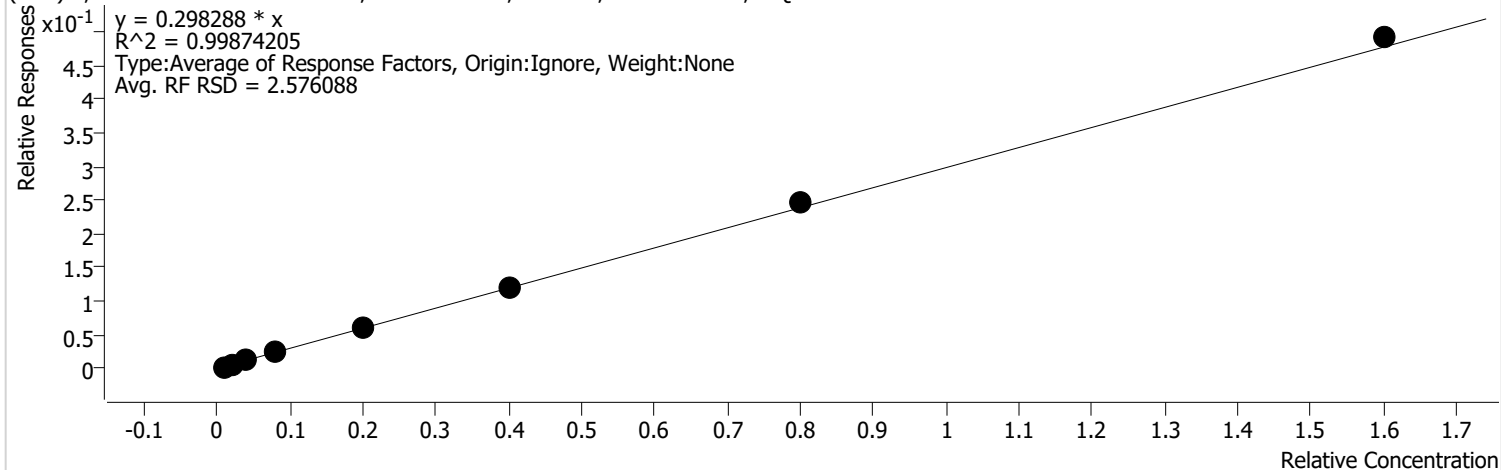
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-9\DATA\080823\080858.D	Calibration	1	x	13584	0.2000	0.2686	
D:\GC-9\DATA\080823\080859.D	Calibration	2	x	34756	0.5000	0.2732	
D:\GC-9\DATA\080823\080860.D	Calibration	3	x	68544	1.0000	0.2674	
D:\GC-9\DATA\080823\080861.D	Calibration	4	x	143721	2.0000	0.2839	
D:\GC-9\DATA\080823\080862.D	Calibration	5	x	372353	5.0000	0.3045	
D:\GC-9\DATA\080823\080863.D	Calibration	6	x	773268	10.0000	0.3165	
D:\GC-9\DATA\080823\080864.D	Calibration	7	x	1607479	20.0000	0.3364	
D:\GC-9\DATA\080823\080865.D	Calibration	8	x	3255360	40.0000	0.3479	

Calibration Report

Batch Path	D:\GC-9\DATA\080823\QuantResults\voc s cal.batch.bin		
Analysis Time	8/10/2023 4:55 PM	Analyst Name	FA\GC9
Report Time	8/10/2023 5:00:30 PM	Reporter Name	FA\GC9
Last Calib Update	8/10/2023 1:10 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

(EDB) 1,2-Dibromoethane %RSE = 2.6

(EDB) 1,2-Dibromoethane - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

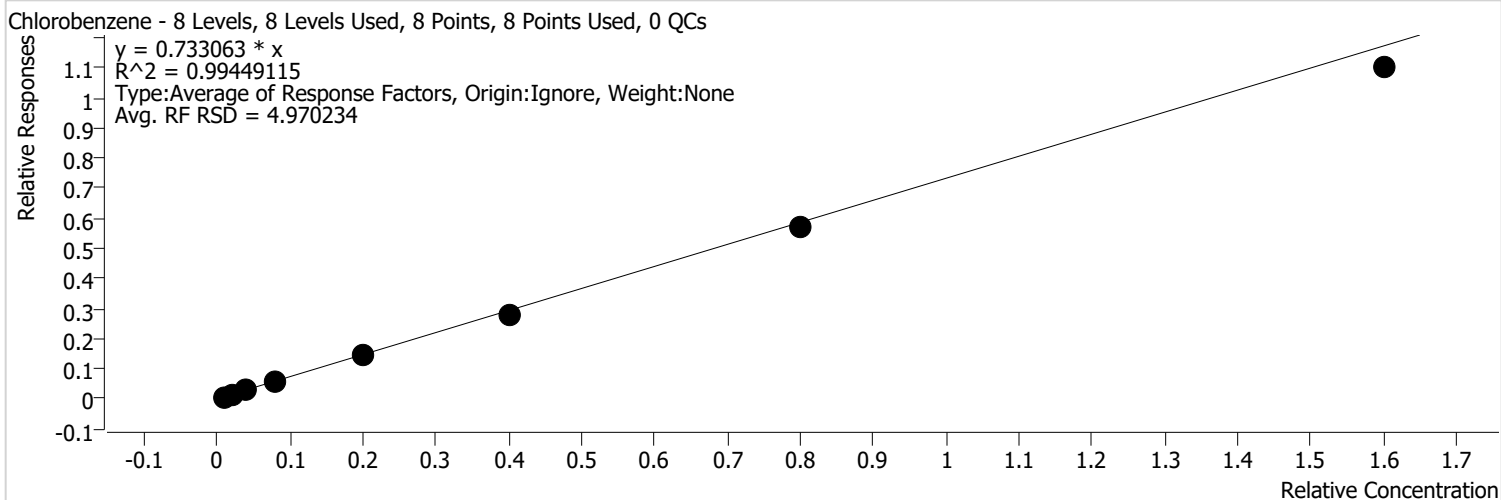


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-9\DATA\080823\080858.D	Calibration	1	x	14831	0.2000	0.2933	
D:\GC-9\DATA\080823\080859.D	Calibration	2	x	37024	0.5000	0.2910	
D:\GC-9\DATA\080823\080860.D	Calibration	3	x	73918	1.0000	0.2883	
D:\GC-9\DATA\080823\080861.D	Calibration	4	x	148411	2.0000	0.2932	
D:\GC-9\DATA\080823\080862.D	Calibration	5	x	371175	5.0000	0.3035	
D:\GC-9\DATA\080823\080863.D	Calibration	6	x	737834	10.0000	0.3020	
D:\GC-9\DATA\080823\080864.D	Calibration	7	x	1471247	20.0000	0.3079	
D:\GC-9\DATA\080823\080865.D	Calibration	8	x	2872637	40.0000	0.3070	

Calibration Report

Batch Path	D:\GC-9\DATA\080823\QuantResults\voc s cal.batch.bin		
Analysis Time	8/10/2023 4:55 PM	Analyst Name	FA\GC9
Report Time	8/10/2023 5:00:30 PM	Reporter Name	FA\GC9
Last Calib Update	8/10/2023 1:10 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Chlorobenzene %RSE = 5.0

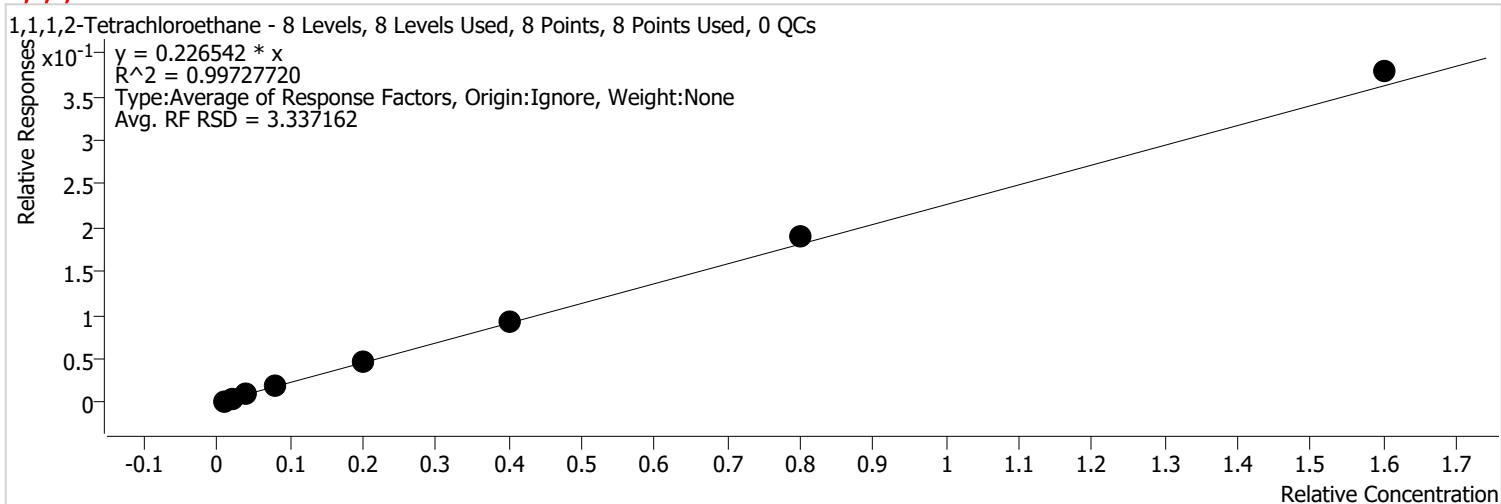


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-9\DATA\080823\080858.D	Calibration	1	x	54997	0.2000	0.7853	
D:\GC-9\DATA\080823\080859.D	Calibration	2	x	138083	0.5000	0.7854	
D:\GC-9\DATA\080823\080860.D	Calibration	3	x	263133	1.0000	0.7402	
D:\GC-9\DATA\080823\080861.D	Calibration	4	x	502552	2.0000	0.7145	
D:\GC-9\DATA\080823\080862.D	Calibration	5	x	1264531	5.0000	0.7366	
D:\GC-9\DATA\080823\080863.D	Calibration	6	x	2412298	10.0000	0.7031	
D:\GC-9\DATA\080823\080864.D	Calibration	7	x	4854021	20.0000	0.7115	
D:\GC-9\DATA\080823\080865.D	Calibration	8	x	9323431	40.0000	0.6878	

Calibration Report

Batch Path	D:\GC-9\DATA\080823\QuantResults\voc s cal.batch.bin		
Analysis Time	8/10/2023 4:55 PM	Analyst Name	FA\GC9
Report Time	8/10/2023 5:00:30 PM	Reporter Name	FA\GC9
Last Calib Update	8/10/2023 1:10 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,1,1,2-Tetrachloroethane %RSE = 3.3



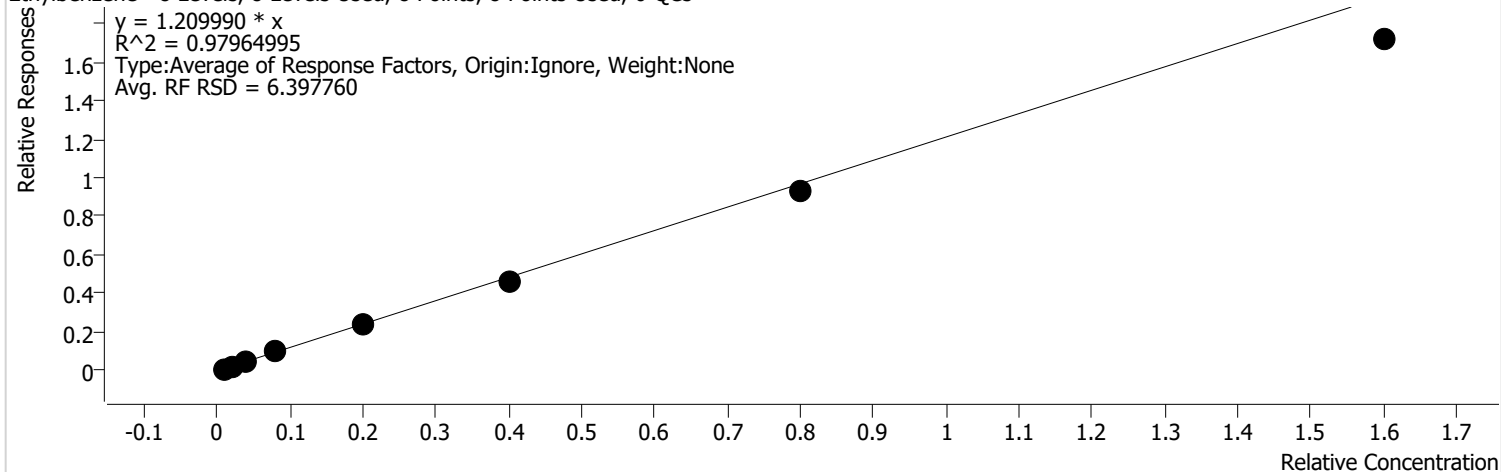
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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D:\GC-9\DATA\080823\080860.D	Calibration	3	x	77256	1.0000	0.2173	
D:\GC-9\DATA\080823\080861.D	Calibration	4	x	154597	2.0000	0.2198	
D:\GC-9\DATA\080823\080862.D	Calibration	5	x	393974	5.0000	0.2295	
D:\GC-9\DATA\080823\080863.D	Calibration	6	x	782101	10.0000	0.2279	
D:\GC-9\DATA\080823\080864.D	Calibration	7	x	1614601	20.0000	0.2367	
D:\GC-9\DATA\080823\080865.D	Calibration	8	x	3208838	40.0000	0.2367	

Calibration Report

Batch Path	D:\GC-9\DATA\080823\QuantResults\voc s cal.batch.bin		
Analysis Time	8/10/2023 4:55 PM	Analyst Name	FA\GC9
Report Time	8/10/2023 5:00:31 PM	Reporter Name	FA\GC9
Last Calib Update	8/10/2023 1:10 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Ethylbenzene %RSE = 6.4

Ethylbenzene - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



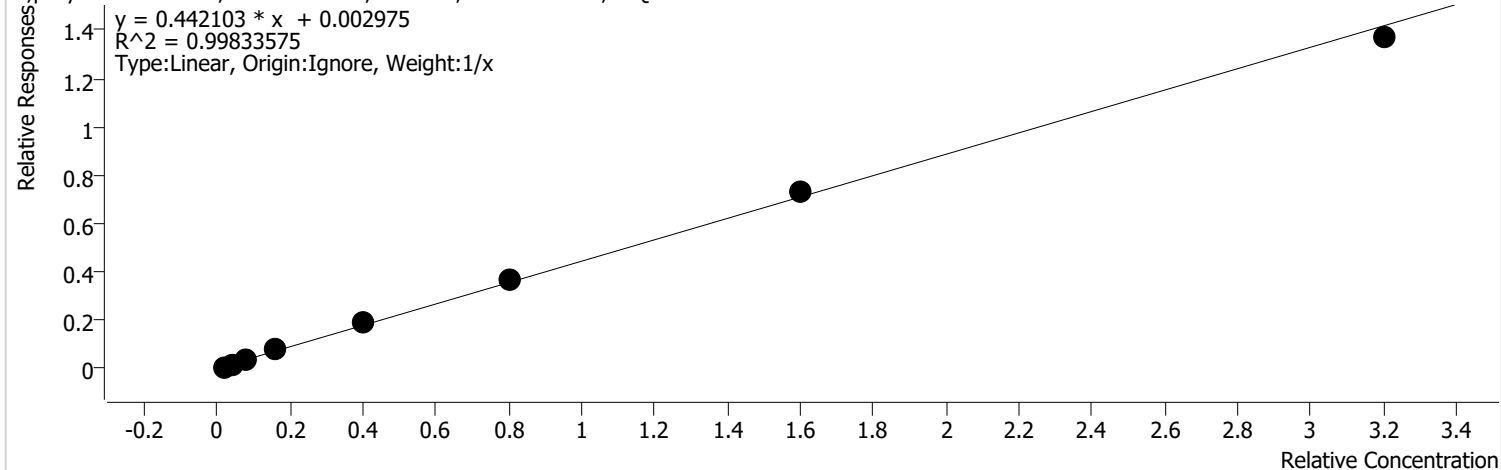
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-9\DATA\080823\080858.D	Calibration	1	x	92046	0.2000	1.3144	
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D:\GC-9\DATA\080823\080861.D	Calibration	4	x	854659	2.0000	1.2152	
D:\GC-9\DATA\080823\080862.D	Calibration	5	x	2090585	5.0000	1.2178	
D:\GC-9\DATA\080823\080863.D	Calibration	6	x	4002488	10.0000	1.1665	
D:\GC-9\DATA\080823\080864.D	Calibration	7	x	7928842	20.0000	1.1622	
D:\GC-9\DATA\080823\080865.D	Calibration	8	x	14513749	40.0000	1.0707	

Calibration Report

Batch Path	D:\GC-9\DATA\080823\QuantResults\voc s cal.batch.bin		
Analysis Time	8/10/2023 4:55 PM	Analyst Name	FA\GC9
Report Time	8/10/2023 5:00:31 PM	Reporter Name	FA\GC9
Last Calib Update	8/10/2023 1:10 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

m,p-Xylene %RSE = 9.1

m,p-Xylene - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



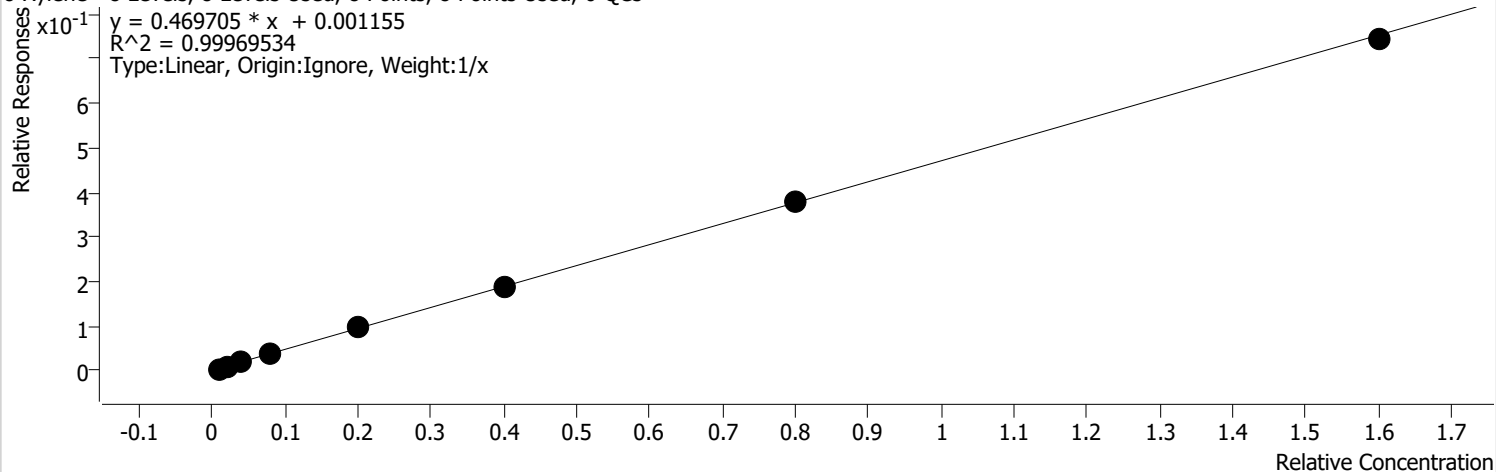
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-9\DATA\080823\080858.D	Calibration	1	x	76062	0.4000	0.5431	
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D:\GC-9\DATA\080823\080860.D	Calibration	3	x	347703	2.0000	0.4890	
D:\GC-9\DATA\080823\080861.D	Calibration	4	x	681995	4.0000	0.4848	
D:\GC-9\DATA\080823\080862.D	Calibration	5	x	1660749	10.0000	0.4837	
D:\GC-9\DATA\080823\080863.D	Calibration	6	x	3144474	20.0000	0.4582	
D:\GC-9\DATA\080823\080864.D	Calibration	7	x	6245095	40.0000	0.4577	
D:\GC-9\DATA\080823\080865.D	Calibration	8	x	11594406	80.0000	0.4277	

Calibration Report

Batch Path	D:\GC-9\DATA\080823\QuantResults\voc s cal.batch.bin		
Analysis Time	8/10/2023 4:55 PM	Analyst Name	FA\GC9
Report Time	8/10/2023 5:00:31 PM	Reporter Name	FA\GC9
Last Calib Update	8/10/2023 1:10 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

o-Xylene %RSE = 4.3

o-Xylene - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

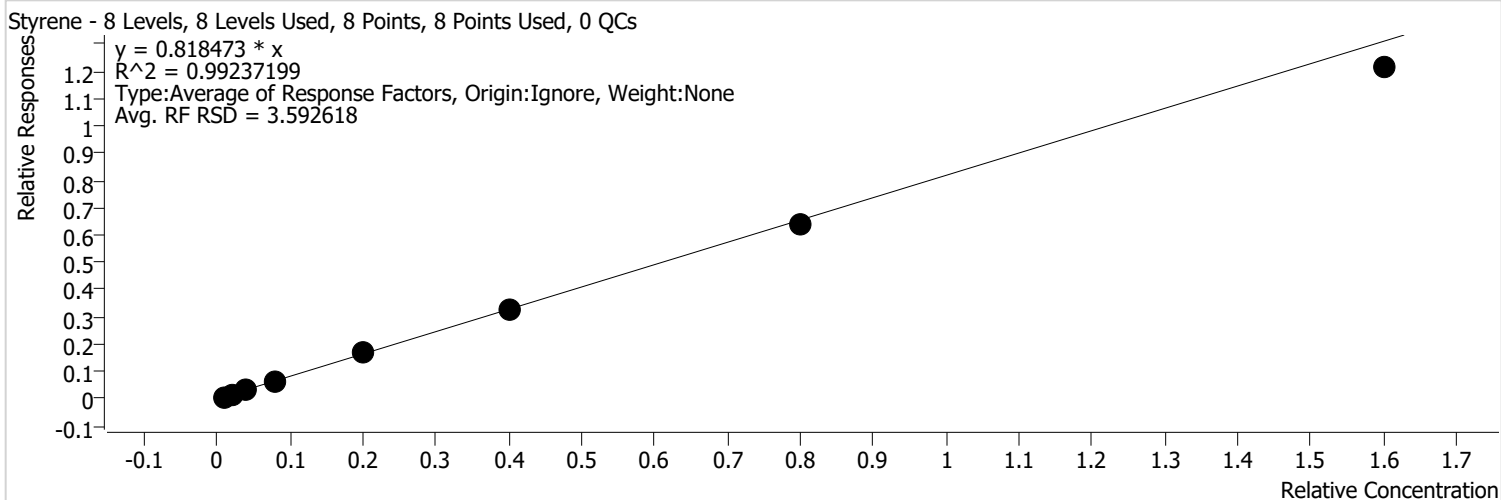


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-9\DATA\080823\080858.D	Calibration	1	x	40005	0.2000	0.5713	
D:\GC-9\DATA\080823\080859.D	Calibration	2	x	93832	0.5000	0.5337	
D:\GC-9\DATA\080823\080860.D	Calibration	3	x	178495	1.0000	0.5021	
D:\GC-9\DATA\080823\080861.D	Calibration	4	x	348119	2.0000	0.4950	
D:\GC-9\DATA\080823\080862.D	Calibration	5	x	849090	5.0000	0.4946	
D:\GC-9\DATA\080823\080863.D	Calibration	6	x	1637879	10.0000	0.4774	
D:\GC-9\DATA\080823\080864.D	Calibration	7	x	3246704	20.0000	0.4759	
D:\GC-9\DATA\080823\080865.D	Calibration	8	x	6289059	40.0000	0.4640	

Calibration Report

Batch Path	D:\GC-9\DATA\080823\QuantResults\voc s cal.batch.bin		
Analysis Time	8/10/2023 4:55 PM	Analyst Name	FA\GC9
Report Time	8/10/2023 5:00:31 PM	Reporter Name	FA\GC9
Last Calib Update	8/10/2023 1:10 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Styrene %RSE = 3.6



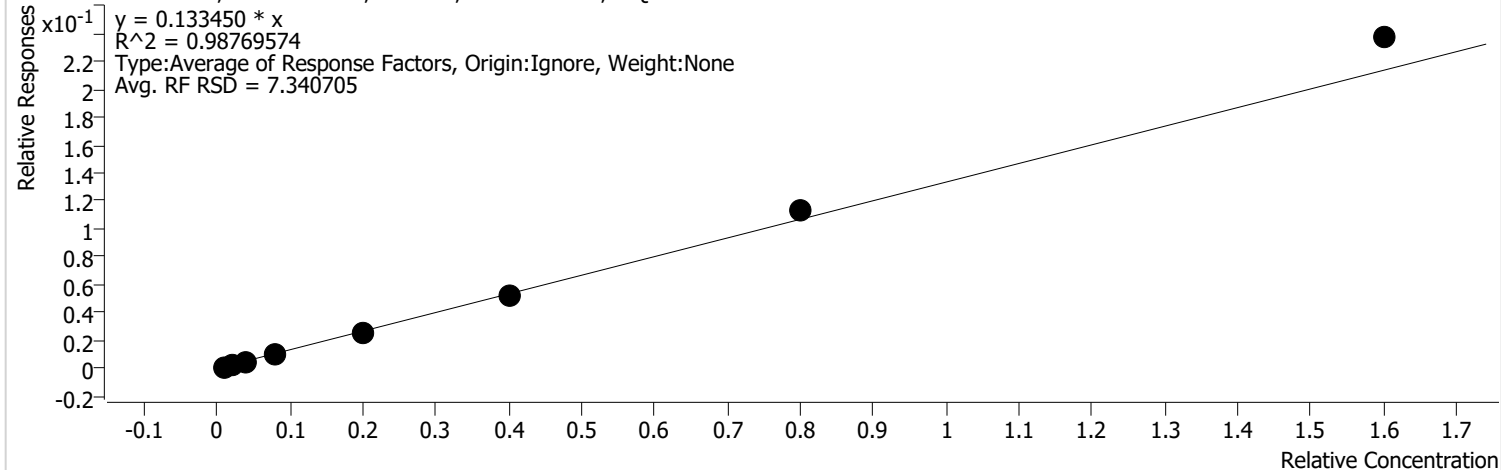
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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D:\GC-9\DATA\080823\080859.D	Calibration	2	x	147149	0.5000	0.8370	
D:\GC-9\DATA\080823\080860.D	Calibration	3	x	296604	1.0000	0.8343	
D:\GC-9\DATA\080823\080861.D	Calibration	4	x	578593	2.0000	0.8227	
D:\GC-9\DATA\080823\080862.D	Calibration	5	x	1450061	5.0000	0.8447	
D:\GC-9\DATA\080823\080863.D	Calibration	6	x	2764093	10.0000	0.8056	
D:\GC-9\DATA\080823\080864.D	Calibration	7	x	5468992	20.0000	0.8016	
D:\GC-9\DATA\080823\080865.D	Calibration	8	x	10274280	40.0000	0.7580	

Calibration Report

Batch Path	D:\GC-9\DATA\080823\QuantResults\voc s cal.batch.bin		
Analysis Time	8/10/2023 4:55 PM	Analyst Name	FA\GC9
Report Time	8/10/2023 5:00:31 PM	Reporter Name	FA\GC9
Last Calib Update	8/10/2023 1:10 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Bromoform %RSE = 7.3

Bromoform - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



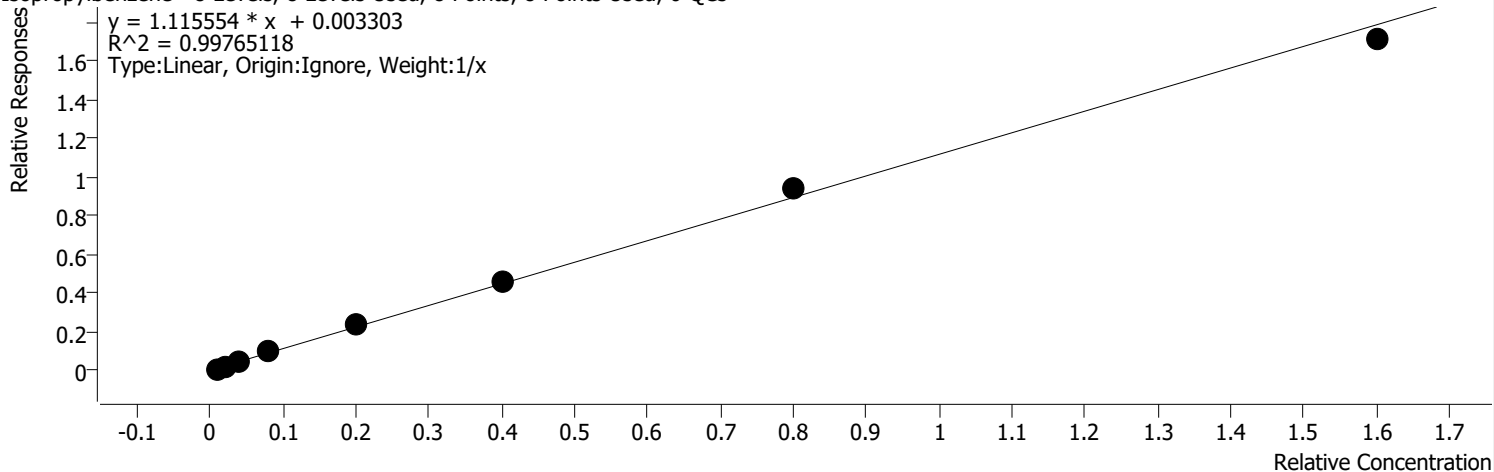
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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D:\GC-9\DATA\080823\080860.D	Calibration	3	x	43557	1.0000	0.1225	
D:\GC-9\DATA\080823\080861.D	Calibration	4	x	83795	2.0000	0.1191	
D:\GC-9\DATA\080823\080862.D	Calibration	5	x	222807	5.0000	0.1298	
D:\GC-9\DATA\080823\080863.D	Calibration	6	x	454700	10.0000	0.1325	
D:\GC-9\DATA\080823\080864.D	Calibration	7	x	962638	20.0000	0.1411	
D:\GC-9\DATA\080823\080865.D	Calibration	8	x	2006582	40.0000	0.1480	

Calibration Report

Batch Path	D:\GC-9\DATA\080823\QuantResults\voc s cal.batch.bin		
Analysis Time	8/10/2023 4:55 PM	Analyst Name	FA\GC9
Report Time	8/10/2023 5:00:31 PM	Reporter Name	FA\GC9
Last Calib Update	8/10/2023 1:10 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Isopropylbenzene %RSE = 8.9

Isopropylbenzene - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

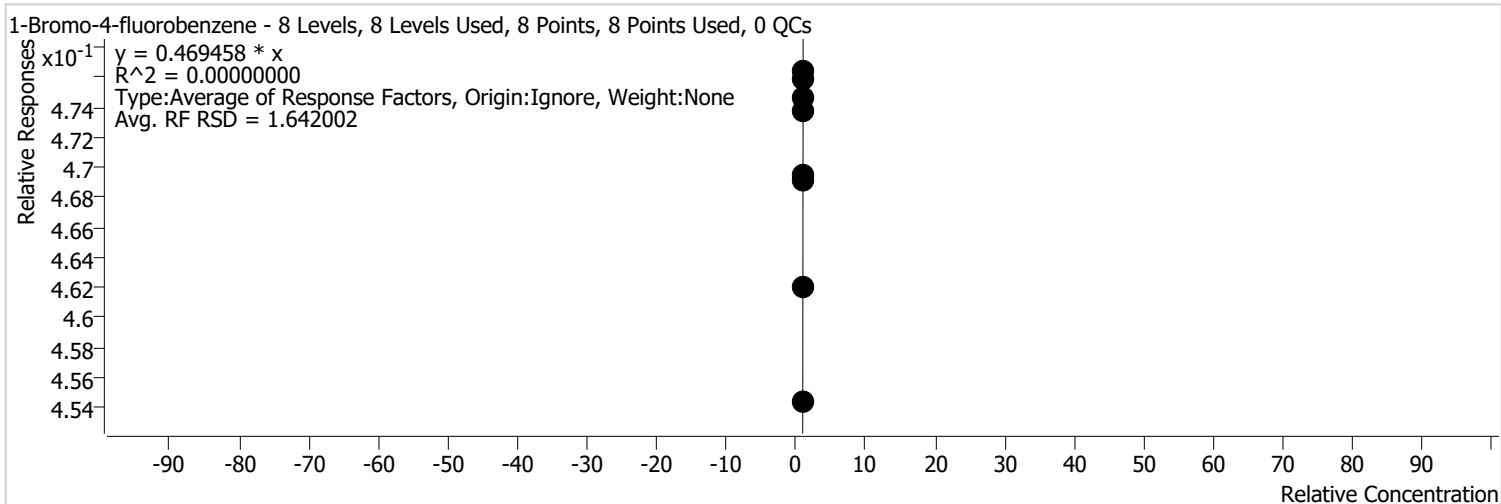


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-9\DATA\080823\080858.D	Calibration	1	x	92489	0.2000	1.3207	
D:\GC-9\DATA\080823\080859.D	Calibration	2	x	226191	0.5000	1.2866	
D:\GC-9\DATA\080823\080860.D	Calibration	3	x	435931	1.0000	1.2262	
D:\GC-9\DATA\080823\080861.D	Calibration	4	x	854421	2.0000	1.2149	
D:\GC-9\DATA\080823\080862.D	Calibration	5	x	2069428	5.0000	1.2055	
D:\GC-9\DATA\080823\080863.D	Calibration	6	x	3976718	10.0000	1.1590	
D:\GC-9\DATA\080823\080864.D	Calibration	7	x	8015336	20.0000	1.1749	
D:\GC-9\DATA\080823\080865.D	Calibration	8	x	14495443	40.0000	1.0694	

Calibration Report

Batch Path	D:\GC-9\DATA\080823\QuantResults\voc s cal.batch.bin		
Analysis Time	8/10/2023 4:55 PM	Analyst Name	FA\GC9
Report Time	8/10/2023 5:00:31 PM	Reporter Name	FA\GC9
Last Calib Update	8/10/2023 1:10 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1-Bromo-4-fluorobenzene %RSE =

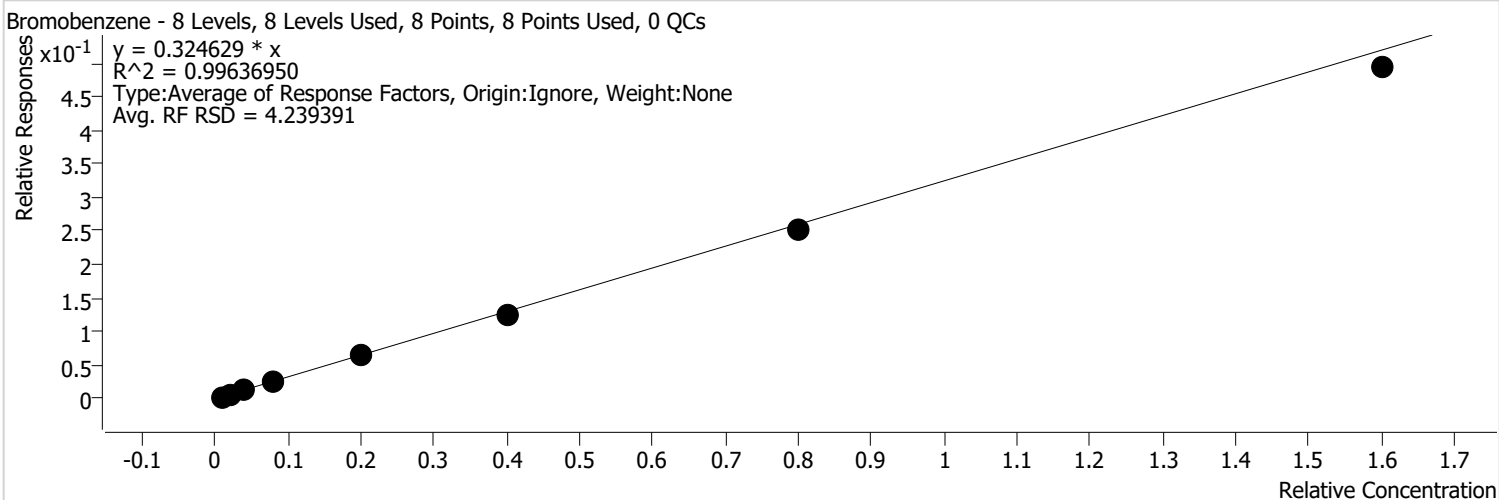


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-9\DATA\080823\080865.D	Calibration	8	x	3849846	25.0000	0.4544	
D:\GC-9\DATA\080823\080864.D	Calibration	7	x	3939697	25.0000	0.4620	
D:\GC-9\DATA\080823\080863.D	Calibration	6	x	4026501	25.0000	0.4694	
D:\GC-9\DATA\080823\080862.D	Calibration	5	x	4027413	25.0000	0.4692	
D:\GC-9\DATA\080823\080861.D	Calibration	4	x	4187872	25.0000	0.4764	
D:\GC-9\DATA\080823\080860.D	Calibration	3	x	4218909	25.0000	0.4747	
D:\GC-9\DATA\080823\080859.D	Calibration	2	x	4163825	25.0000	0.4737	
D:\GC-9\DATA\080823\080858.D	Calibration	1	x	4165719	25.0000	0.4759	

Calibration Report

Batch Path	D:\GC-9\DATA\080823\QuantResults\voc s cal.batch.bin		
Analysis Time	8/10/2023 4:55 PM	Analyst Name	FA\GC9
Report Time	8/10/2023 5:00:31 PM	Reporter Name	FA\GC9
Last Calib Update	8/10/2023 1:10 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Bromobenzene %RSE = 4.2

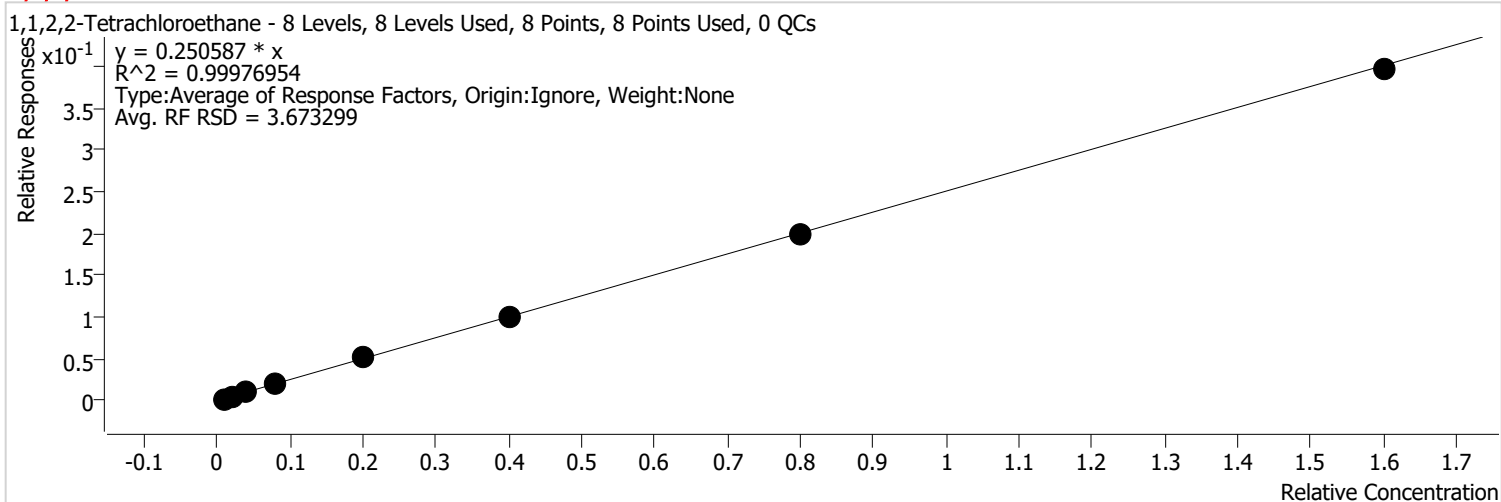


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-9\DATA\080823\080858.D	Calibration	1	x	24145	0.2000	0.3448	
D:\GC-9\DATA\080823\080859.D	Calibration	2	x	60385	0.5000	0.3435	
D:\GC-9\DATA\080823\080860.D	Calibration	3	x	116854	1.0000	0.3287	
D:\GC-9\DATA\080823\080861.D	Calibration	4	x	222566	2.0000	0.3165	
D:\GC-9\DATA\080823\080862.D	Calibration	5	x	559938	5.0000	0.3262	
D:\GC-9\DATA\080823\080863.D	Calibration	6	x	1072290	10.0000	0.3125	
D:\GC-9\DATA\080823\080864.D	Calibration	7	x	2160354	20.0000	0.3167	
D:\GC-9\DATA\080823\080865.D	Calibration	8	x	4178297	40.0000	0.3083	

Calibration Report

Batch Path	D:\GC-9\DATA\080823\QuantResults\voc s cal.batch.bin		
Analysis Time	8/10/2023 4:55 PM	Analyst Name	FA\GC9
Report Time	8/10/2023 5:00:31 PM	Reporter Name	FA\GC9
Last Calib Update	8/10/2023 1:10 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,1,2,2-Tetrachloroethane %RSE = 3.7

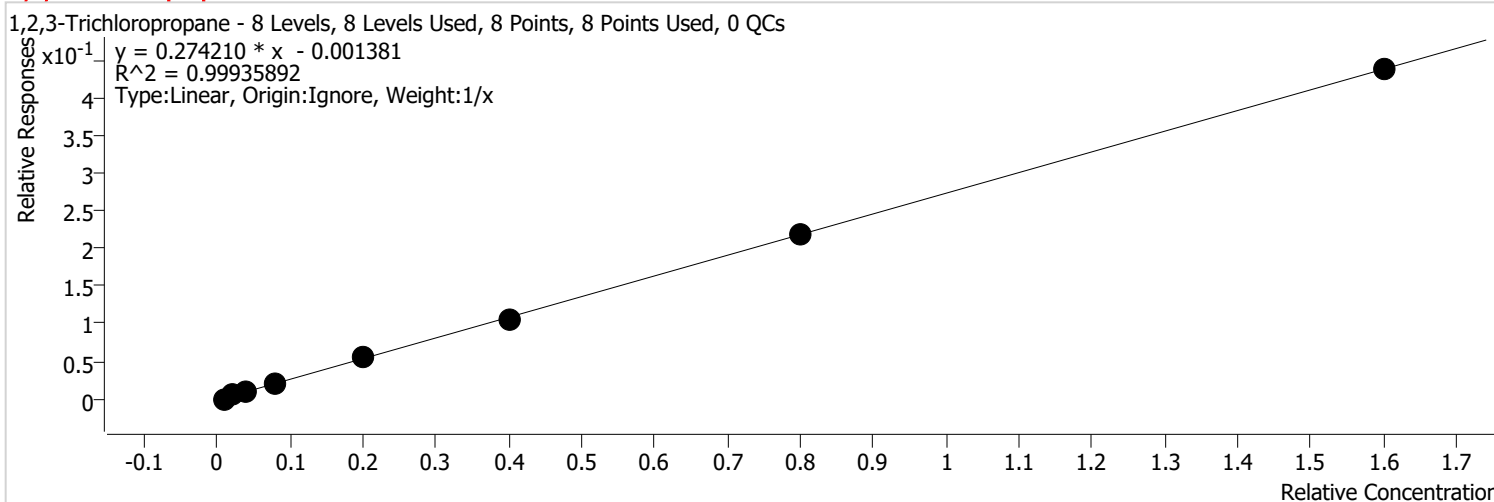


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-9\DATA\080823\080858.D	Calibration	1	x	17766	0.2000	0.2537	
D:\GC-9\DATA\080823\080859.D	Calibration	2	x	47449	0.5000	0.2699	
D:\GC-9\DATA\080823\080860.D	Calibration	3	x	84465	1.0000	0.2376	
D:\GC-9\DATA\080823\080861.D	Calibration	4	x	174601	2.0000	0.2483	
D:\GC-9\DATA\080823\080862.D	Calibration	5	x	433322	5.0000	0.2524	
D:\GC-9\DATA\080823\080863.D	Calibration	6	x	843905	10.0000	0.2460	
D:\GC-9\DATA\080823\080864.D	Calibration	7	x	1701952	20.0000	0.2495	
D:\GC-9\DATA\080823\080865.D	Calibration	8	x	3353587	40.0000	0.2474	

Calibration Report

Batch Path	D:\GC-9\DATA\080823\QuantResults\voc s cal.batch.bin		
Analysis Time	8/10/2023 4:55 PM	Analyst Name	FA\GC9
Report Time	8/10/2023 5:00:31 PM	Reporter Name	FA\GC9
Last Calib Update	8/10/2023 1:10 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,2,3-Trichloropropane %RSE = 14.6



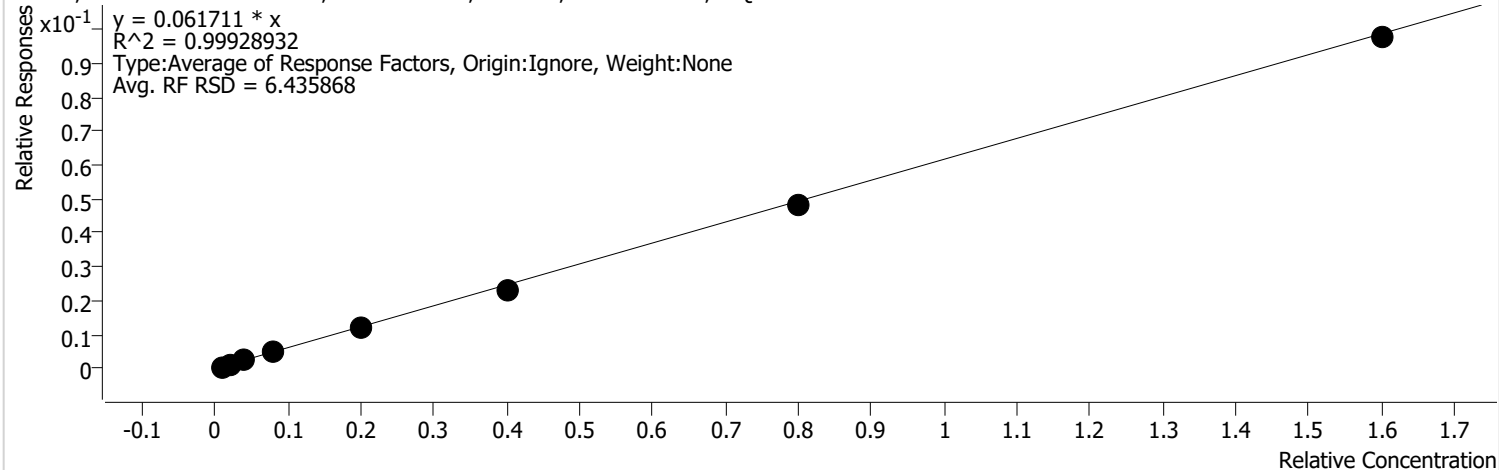
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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D:\GC-9\DATA\080823\080859.D	Calibration	2	x	46759	0.5000	0.2660	
D:\GC-9\DATA\080823\080860.D	Calibration	3	x	91045	1.0000	0.2561	
D:\GC-9\DATA\080823\080861.D	Calibration	4	x	179813	2.0000	0.2557	
D:\GC-9\DATA\080823\080862.D	Calibration	5	x	463285	5.0000	0.2699	
D:\GC-9\DATA\080823\080863.D	Calibration	6	x	915826	10.0000	0.2669	
D:\GC-9\DATA\080823\080864.D	Calibration	7	x	1864339	20.0000	0.2733	
D:\GC-9\DATA\080823\080865.D	Calibration	8	x	3698538	40.0000	0.2729	

Calibration Report

Batch Path	D:\GC-9\DATA\080823\QuantResults\voc s cal.batch.bin		
Analysis Time	8/10/2023 4:55 PM	Analyst Name	FA\GC9
Report Time	8/10/2023 5:00:31 PM	Reporter Name	FA\GC9
Last Calib Update	8/10/2023 1:10 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

trans-1,4-Dichloro-2-b %RSE = 6.4

trans-1,4-Dichloro-2-b - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



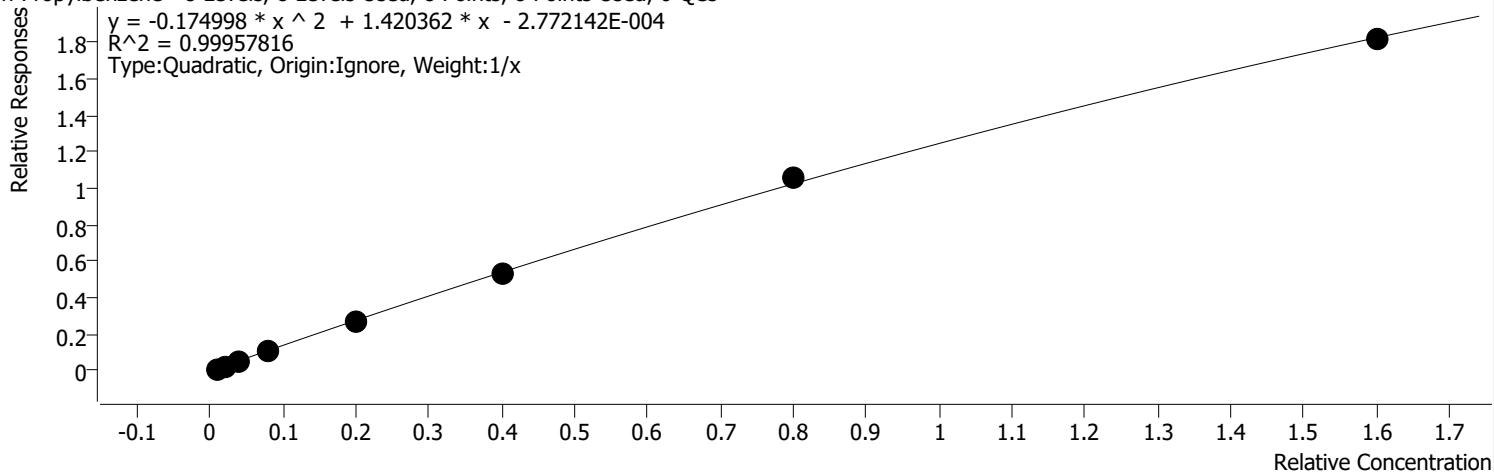
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-9\DATA\080823\080858.D	Calibration	1	x	4476	0.2000	0.0639	
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D:\GC-9\DATA\080823\080860.D	Calibration	3	x	21906	1.0000	0.0616	
D:\GC-9\DATA\080823\080861.D	Calibration	4	x	42276	2.0000	0.0601	
D:\GC-9\DATA\080823\080862.D	Calibration	5	x	101071	5.0000	0.0589	
D:\GC-9\DATA\080823\080863.D	Calibration	6	x	196868	10.0000	0.0574	
D:\GC-9\DATA\080823\080864.D	Calibration	7	x	412670	20.0000	0.0605	
D:\GC-9\DATA\080823\080865.D	Calibration	8	x	826473	40.0000	0.0610	

Calibration Report

Batch Path	D:\GC-9\DATA\080823\QuantResults\voc s cal.batch.bin		
Analysis Time	8/10/2023 4:55 PM	Analyst Name	FA\GC9
Report Time	8/10/2023 5:00:31 PM	Reporter Name	FA\GC9
Last Calib Update	8/10/2023 1:10 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

n-Propylbenzene %RSE = 3.7

n-Propylbenzene - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



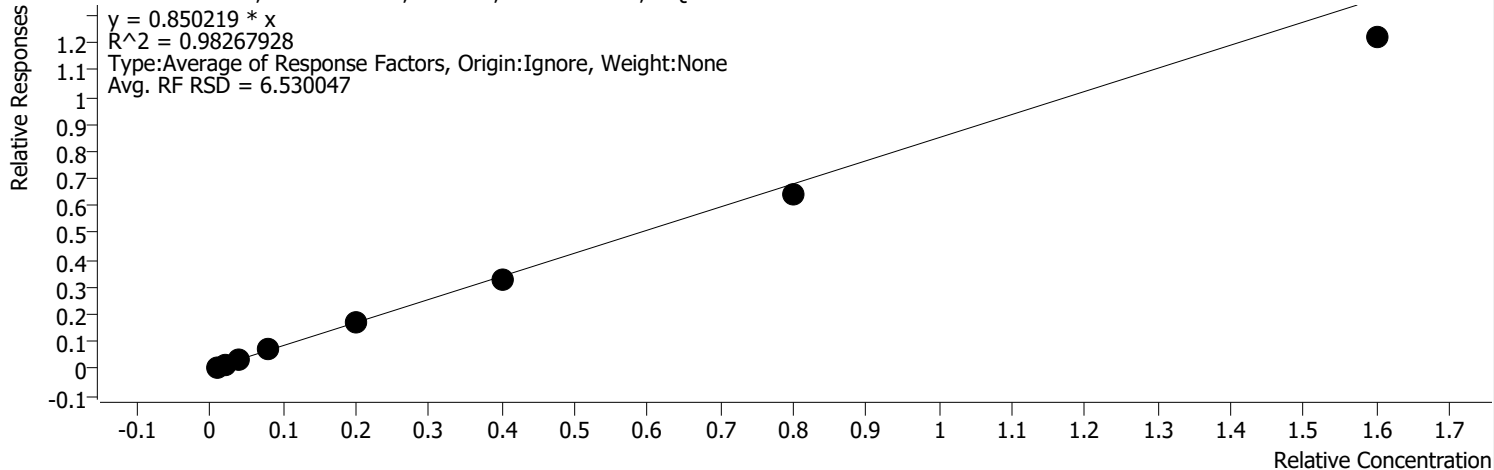
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-9\DATA\080823\080858.D	Calibration	1	x	102723	0.2000	1.4669	
D:\GC-9\DATA\080823\080859.D	Calibration	2	x	248719	0.5000	1.4148	
D:\GC-9\DATA\080823\080860.D	Calibration	3	x	485700	1.0000	1.3662	
D:\GC-9\DATA\080823\080861.D	Calibration	4	x	956903	2.0000	1.3606	
D:\GC-9\DATA\080823\080862.D	Calibration	5	x	2353899	5.0000	1.3712	
D:\GC-9\DATA\080823\080863.D	Calibration	6	x	4531988	10.0000	1.3209	
D:\GC-9\DATA\080823\080864.D	Calibration	7	x	8984634	20.0000	1.3170	
D:\GC-9\DATA\080823\080865.D	Calibration	8	x	15358663	40.0000	1.1331	

Calibration Report

Batch Path	D:\GC-9\DATA\080823\QuantResults\voc s cal.batch.bin		
Analysis Time	8/10/2023 4:55 PM	Analyst Name	FA\GC9
Report Time	8/10/2023 5:00:31 PM	Reporter Name	FA\GC9
Last Calib Update	8/10/2023 1:10 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

2-Chlorotoluene %RSE = 6.5

2-Chlorotoluene - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



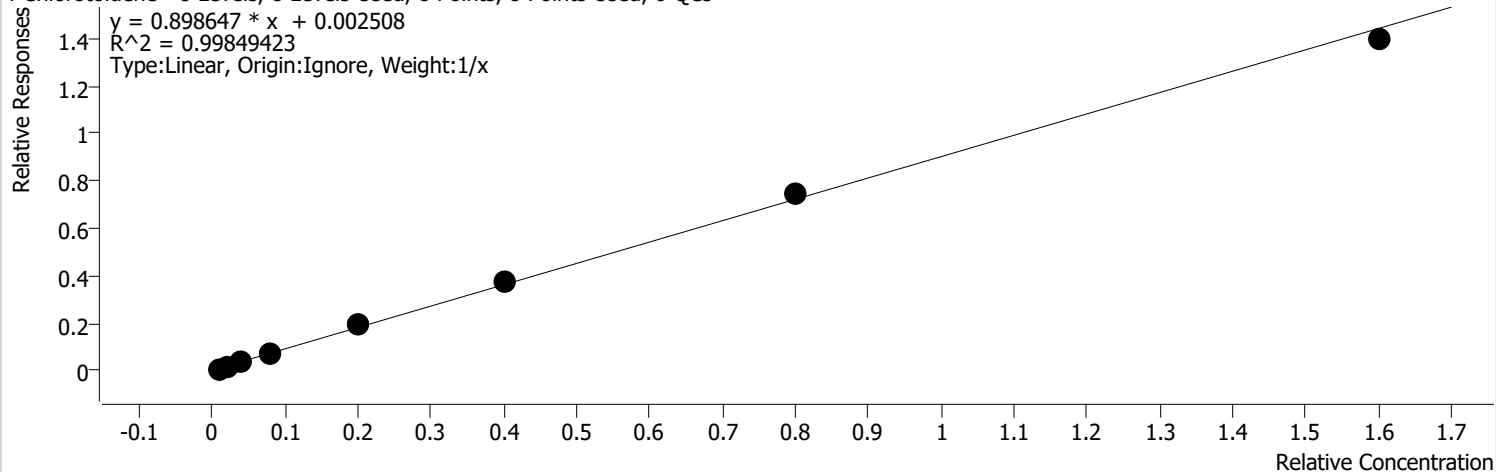
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-9\DATA\080823\080858.D	Calibration	1	x	64417	0.2000	0.9199	
D:\GC-9\DATA\080823\080859.D	Calibration	2	x	161426	0.5000	0.9182	
D:\GC-9\DATA\080823\080860.D	Calibration	3	x	310964	1.0000	0.8747	
D:\GC-9\DATA\080823\080861.D	Calibration	4	x	600576	2.0000	0.8539	
D:\GC-9\DATA\080823\080862.D	Calibration	5	x	1470864	5.0000	0.8568	
D:\GC-9\DATA\080823\080863.D	Calibration	6	x	2785297	10.0000	0.8118	
D:\GC-9\DATA\080823\080864.D	Calibration	7	x	5495331	20.0000	0.8055	
D:\GC-9\DATA\080823\080865.D	Calibration	8	x	10314538	40.0000	0.7610	

Calibration Report

Batch Path	D:\GC-9\DATA\080823\QuantResults\voc s cal.batch.bin		
Analysis Time	8/10/2023 4:55 PM	Analyst Name	FA\GC9
Report Time	8/10/2023 5:00:31 PM	Reporter Name	FA\GC9
Last Calib Update	8/10/2023 1:10 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

4-Chlorotoluene %RSE = 8.3

4-Chlorotoluene - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

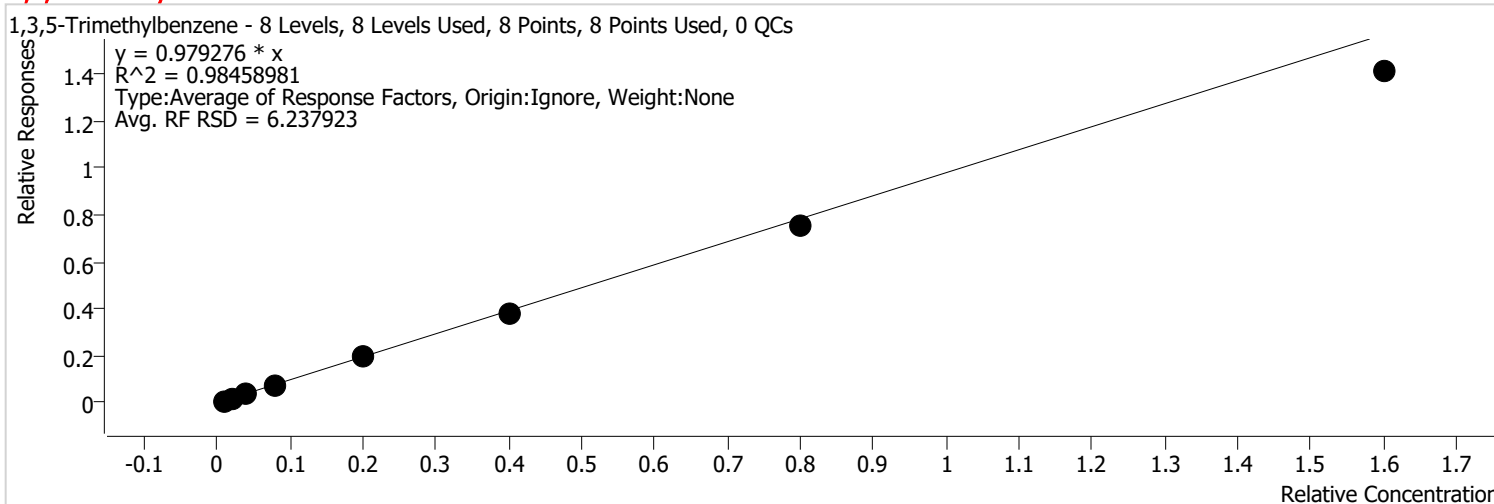


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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D:\GC-9\DATA\080823\080859.D	Calibration	2	x	182748	0.5000	1.0395	
D:\GC-9\DATA\080823\080860.D	Calibration	3	x	344223	1.0000	0.9683	
D:\GC-9\DATA\080823\080861.D	Calibration	4	x	682572	2.0000	0.9705	
D:\GC-9\DATA\080823\080862.D	Calibration	5	x	1680809	5.0000	0.9791	
D:\GC-9\DATA\080823\080863.D	Calibration	6	x	3209286	10.0000	0.9354	
D:\GC-9\DATA\080823\080864.D	Calibration	7	x	6314685	20.0000	0.9256	
D:\GC-9\DATA\080823\080865.D	Calibration	8	x	11800631	40.0000	0.8706	

Calibration Report

Batch Path	D:\GC-9\DATA\080823\QuantResults\voc s cal.batch.bin		
Analysis Time	8/10/2023 4:55 PM	Analyst Name	FA\GC9
Report Time	8/10/2023 5:00:31 PM	Reporter Name	FA\GC9
Last Calib Update	8/10/2023 1:10 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,3,5-Trimethylbenzene %RSE = 6.2

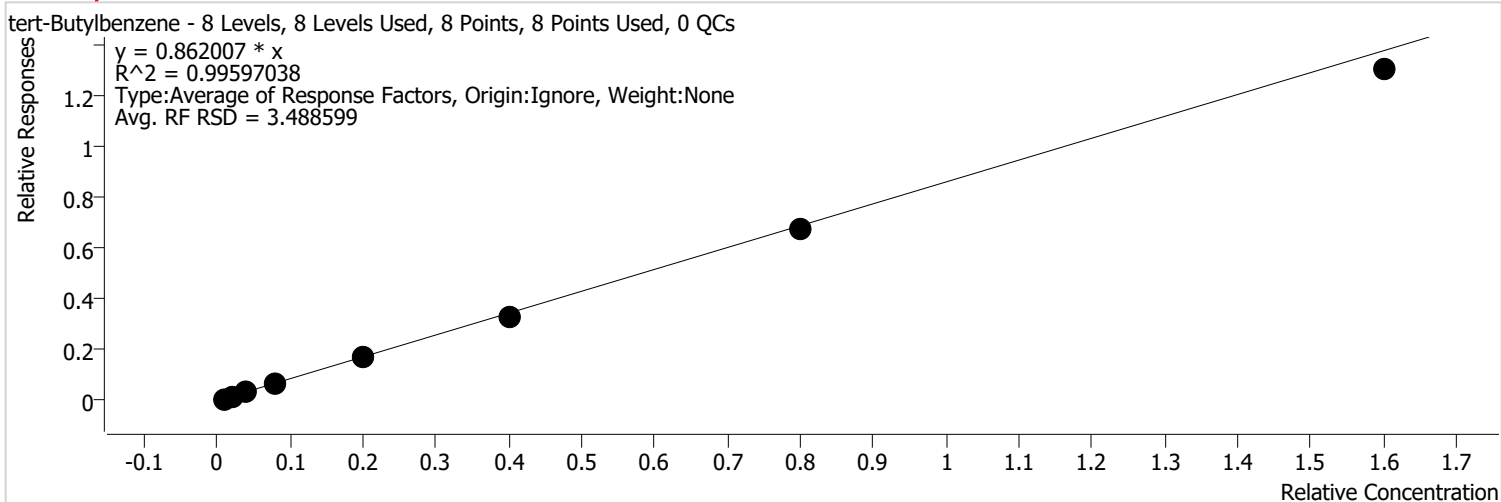


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-9\DATA\080823\080858.D	Calibration	1	x	74765	0.2000	1.0676	
D:\GC-9\DATA\080823\080859.D	Calibration	2	x	184804	0.5000	1.0512	
D:\GC-9\DATA\080823\080860.D	Calibration	3	x	352516	1.0000	0.9916	
D:\GC-9\DATA\080823\080861.D	Calibration	4	x	686585	2.0000	0.9762	
D:\GC-9\DATA\080823\080862.D	Calibration	5	x	1696007	5.0000	0.9879	
D:\GC-9\DATA\080823\080863.D	Calibration	6	x	3223139	10.0000	0.9394	
D:\GC-9\DATA\080823\080864.D	Calibration	7	x	6410618	20.0000	0.9397	
D:\GC-9\DATA\080823\080865.D	Calibration	8	x	11935830	40.0000	0.8806	

Calibration Report

Batch Path	D:\GC-9\DATA\080823\QuantResults\voc s cal.batch.bin		
Analysis Time	8/10/2023 4:55 PM	Analyst Name	FA\GC9
Report Time	8/10/2023 5:00:31 PM	Reporter Name	FA\GC9
Last Calib Update	8/10/2023 1:10 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

tert-Butylbenzene %RSE = 3.5

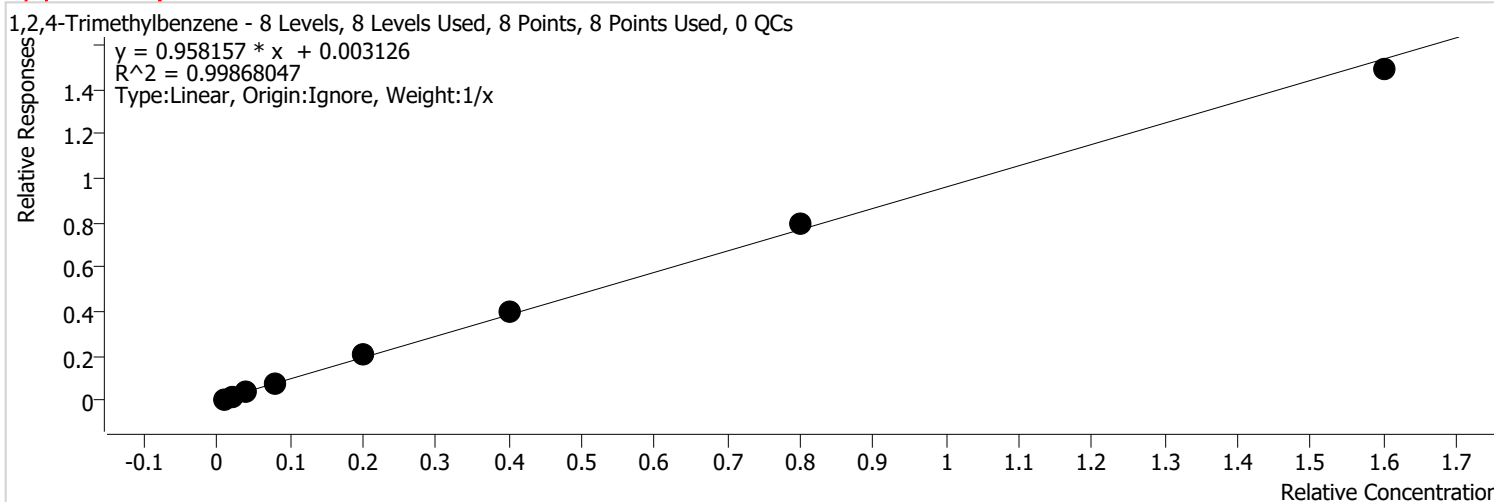


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-9\DATA\080823\080858.D	Calibration	1	x	62610	0.2000	0.8941	
D:\GC-9\DATA\080823\080859.D	Calibration	2	x	159591	0.5000	0.9078	
D:\GC-9\DATA\080823\080860.D	Calibration	3	x	308151	1.0000	0.8668	
D:\GC-9\DATA\080823\080861.D	Calibration	4	x	603328	2.0000	0.8578	
D:\GC-9\DATA\080823\080862.D	Calibration	5	x	1494684	5.0000	0.8707	
D:\GC-9\DATA\080823\080863.D	Calibration	6	x	2865942	10.0000	0.8353	
D:\GC-9\DATA\080823\080864.D	Calibration	7	x	5788262	20.0000	0.8484	
D:\GC-9\DATA\080823\080865.D	Calibration	8	x	11049456	40.0000	0.8152	

Calibration Report

Batch Path	D:\GC-9\DATA\080823\QuantResults\voc s cal.batch.bin		
Analysis Time	8/10/2023 4:55 PM	Analyst Name	FA\GC9
Report Time	8/10/2023 5:00:31 PM	Reporter Name	FA\GC9
Last Calib Update	8/10/2023 1:10 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,2,4-Trimethylbenzene %RSE = 6.9



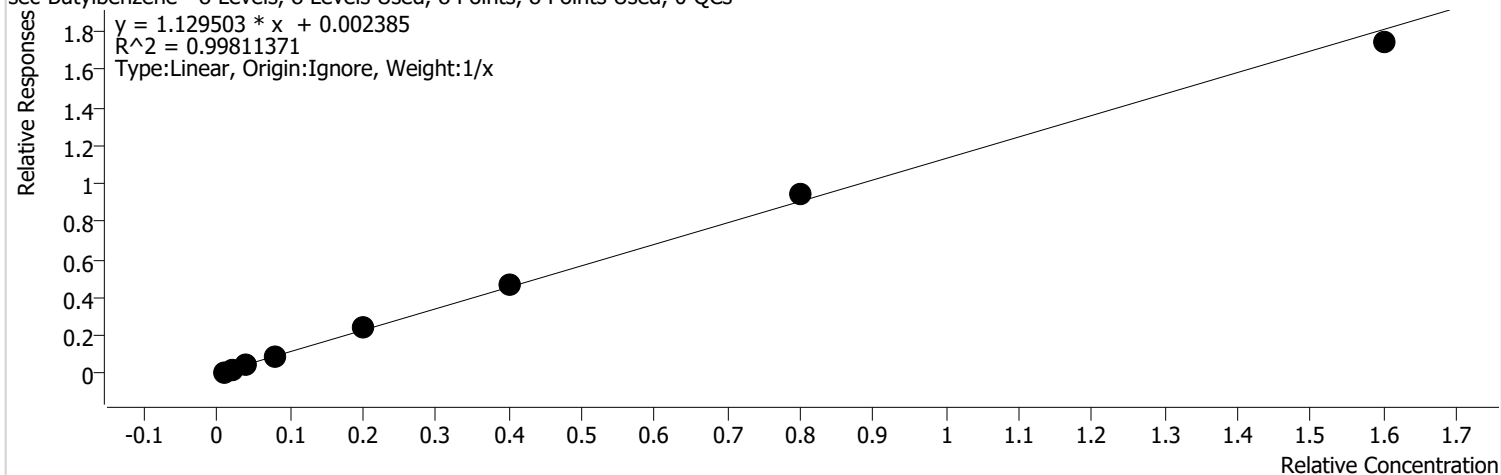
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-9\DATA\080823\080858.D	Calibration	1	x	85190	0.2000	1.2165	
D:\GC-9\DATA\080823\080859.D	Calibration	2	x	194974	0.5000	1.1090	
D:\GC-9\DATA\080823\080860.D	Calibration	3	x	371954	1.0000	1.0463	
D:\GC-9\DATA\080823\080861.D	Calibration	4	x	726901	2.0000	1.0335	
D:\GC-9\DATA\080823\080862.D	Calibration	5	x	1789365	5.0000	1.0423	
D:\GC-9\DATA\080823\080863.D	Calibration	6	x	3403319	10.0000	0.9919	
D:\GC-9\DATA\080823\080864.D	Calibration	7	x	6747450	20.0000	0.9890	
D:\GC-9\DATA\080823\080865.D	Calibration	8	x	12609159	40.0000	0.9302	

Calibration Report

Batch Path	D:\GC-9\DATA\080823\QuantResults\voc s cal.batch.bin		
Analysis Time	8/10/2023 4:55 PM	Analyst Name	FA\GC9
Report Time	8/10/2023 5:00:31 PM	Reporter Name	FA\GC9
Last Calib Update	8/10/2023 1:10 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

sec-Butylbenzene %RSE = 8.1

sec-Butylbenzene - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

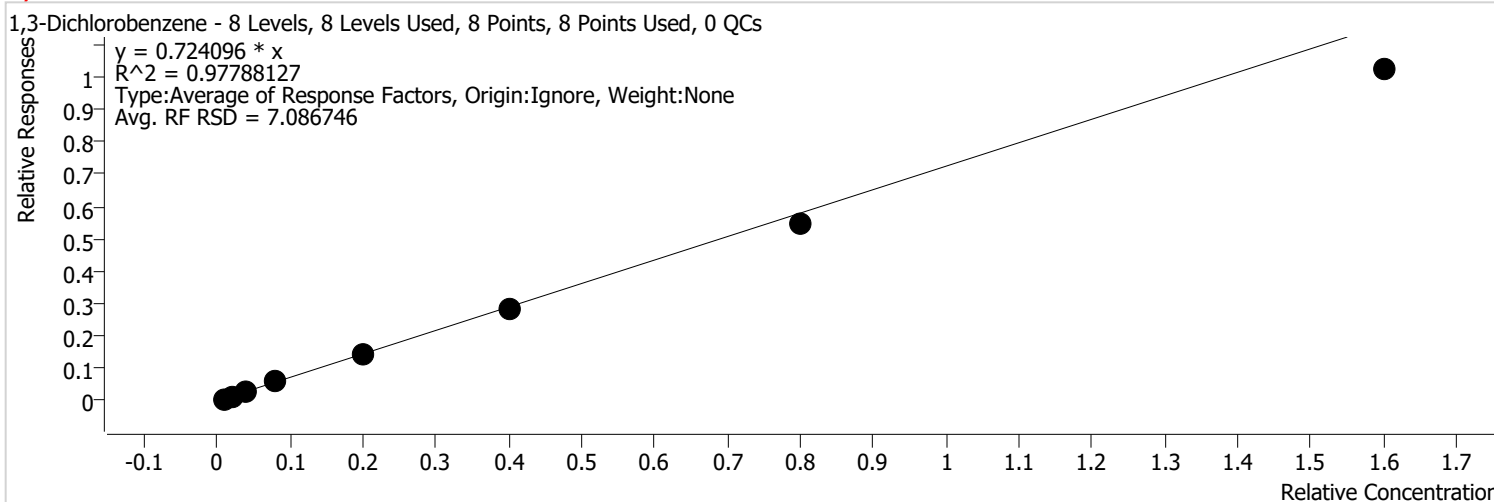


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-9\DATA\080823\080858.D	Calibration	1	x	86498	0.2000	1.2352	
D:\GC-9\DATA\080823\080859.D	Calibration	2	x	222503	0.5000	1.2656	
D:\GC-9\DATA\080823\080860.D	Calibration	3	x	434165	1.0000	1.2213	
D:\GC-9\DATA\080823\080861.D	Calibration	4	x	842496	2.0000	1.1979	
D:\GC-9\DATA\080823\080862.D	Calibration	5	x	2077893	5.0000	1.2104	
D:\GC-9\DATA\080823\080863.D	Calibration	6	x	3989814	10.0000	1.1628	
D:\GC-9\DATA\080823\080864.D	Calibration	7	x	8080712	20.0000	1.1845	
D:\GC-9\DATA\080823\080865.D	Calibration	8	x	14741549	40.0000	1.0876	

Calibration Report

Batch Path	D:\GC-9\DATA\080823\QuantResults\voc s cal.batch.bin		
Analysis Time	8/10/2023 4:55 PM	Analyst Name	FA\GC9
Report Time	8/10/2023 5:00:31 PM	Reporter Name	FA\GC9
Last Calib Update	8/10/2023 1:10 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,3-Dichlorobenzene %RSE = 7.1

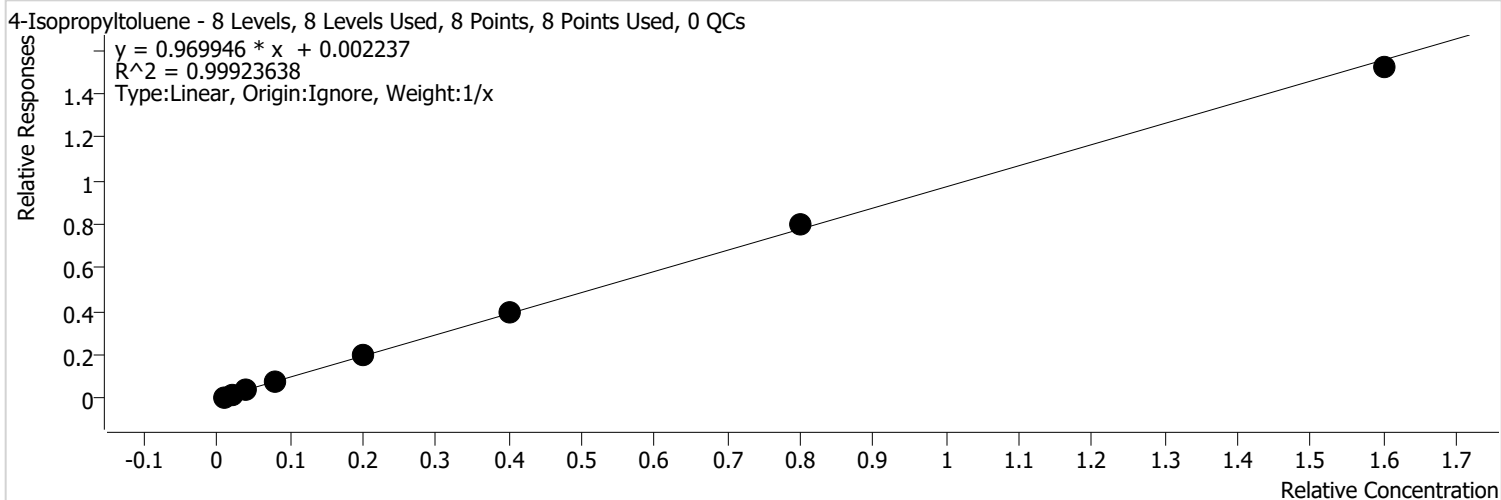


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-9\DATA\080823\080858.D	Calibration	1	x	47572	0.2000	0.7982	
D:\GC-9\DATA\080823\080859.D	Calibration	2	x	116081	0.5000	0.7801	
D:\GC-9\DATA\080823\080860.D	Calibration	3	x	223091	1.0000	0.7374	
D:\GC-9\DATA\080823\080861.D	Calibration	4	x	428689	2.0000	0.7167	
D:\GC-9\DATA\080823\080862.D	Calibration	5	x	1069031	5.0000	0.7368	
D:\GC-9\DATA\080823\080863.D	Calibration	6	x	2024683	10.0000	0.6987	
D:\GC-9\DATA\080823\080864.D	Calibration	7	x	4009907	20.0000	0.6863	
D:\GC-9\DATA\080823\080865.D	Calibration	8	x	7661290	40.0000	0.6385	

Calibration Report

Batch Path	D:\GC-9\DATA\080823\QuantResults\voc s cal.batch.bin		
Analysis Time	8/10/2023 4:55 PM	Analyst Name	FA\GC9
Report Time	8/10/2023 5:00:31 PM	Reporter Name	FA\GC9
Last Calib Update	8/10/2023 1:10 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

4-Isopropyltoluene %RSE = 5.1



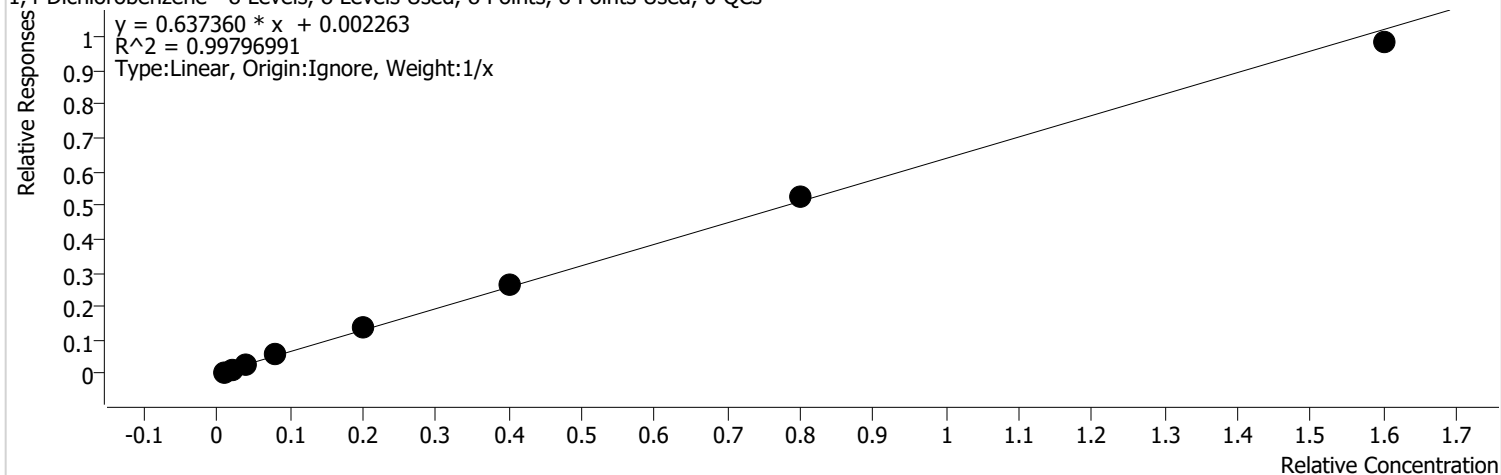
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-9\DATA\080823\080858.D	Calibration	1	x	80391	0.2000	1.1480	
D:\GC-9\DATA\080823\080859.D	Calibration	2	x	191581	0.5000	1.0897	
D:\GC-9\DATA\080823\080860.D	Calibration	3	x	371382	1.0000	1.0447	
D:\GC-9\DATA\080823\080861.D	Calibration	4	x	711135	2.0000	1.0111	
D:\GC-9\DATA\080823\080862.D	Calibration	5	x	1772252	5.0000	1.0324	
D:\GC-9\DATA\080823\080863.D	Calibration	6	x	3364387	10.0000	0.9806	
D:\GC-9\DATA\080823\080864.D	Calibration	7	x	6825637	20.0000	1.0005	
D:\GC-9\DATA\080823\080865.D	Calibration	8	x	12864637	40.0000	0.9491	

Calibration Report

Batch Path	D:\GC-9\DATA\080823\QuantResults\voc s cal.batch.bin		
Analysis Time	8/10/2023 4:55 PM	Analyst Name	FA\GC9
Report Time	8/10/2023 5:00:31 PM	Reporter Name	FA\GC9
Last Calib Update	8/10/2023 1:10 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,4-Dichlorobenzene %RSE = 10.6

1,4-Dichlorobenzene - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

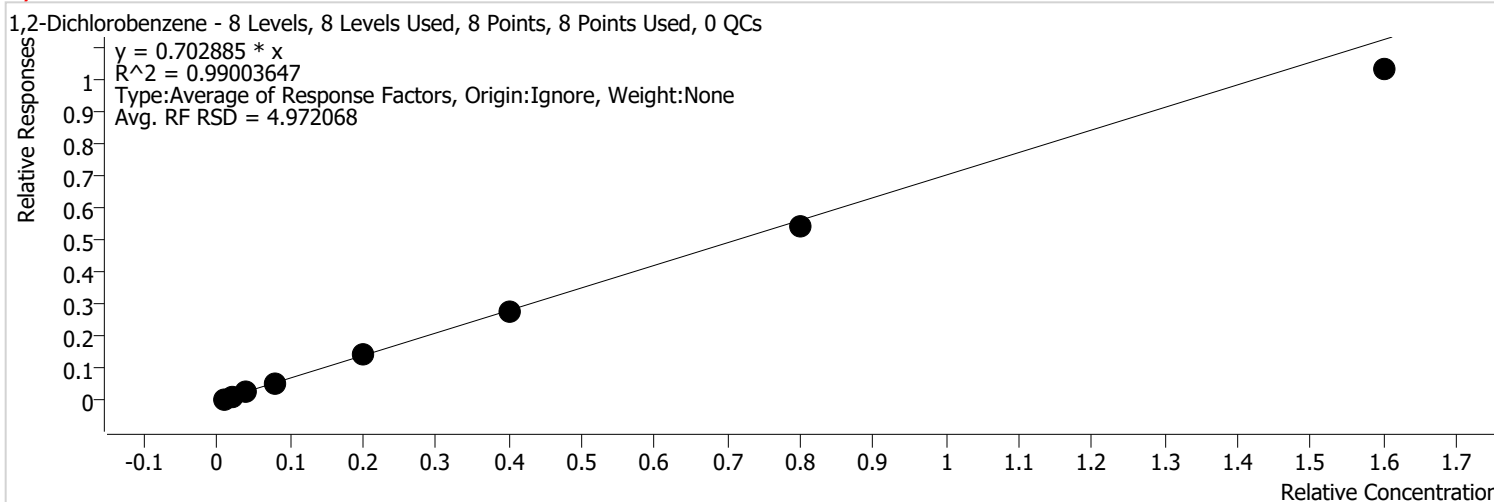


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-9\DATA\080823\080858.D	Calibration	1	x	46136	0.2000	0.7741	
D:\GC-9\DATA\080823\080859.D	Calibration	2	x	114528	0.5000	0.7697	
D:\GC-9\DATA\080823\080860.D	Calibration	3	x	217965	1.0000	0.7205	
D:\GC-9\DATA\080823\080861.D	Calibration	4	x	413538	2.0000	0.6914	
D:\GC-9\DATA\080823\080862.D	Calibration	5	x	1019656	5.0000	0.7028	
D:\GC-9\DATA\080823\080863.D	Calibration	6	x	1936247	10.0000	0.6682	
D:\GC-9\DATA\080823\080864.D	Calibration	7	x	3855883	20.0000	0.6600	
D:\GC-9\DATA\080823\080865.D	Calibration	8	x	7372083	40.0000	0.6144	

Calibration Report

Batch Path	D:\GC-9\DATA\080823\QuantResults\voc s cal.batch.bin		
Analysis Time	8/10/2023 4:55 PM	Analyst Name	FA\GC9
Report Time	8/10/2023 5:00:31 PM	Reporter Name	FA\GC9
Last Calib Update	8/10/2023 1:10 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,2-Dichlorobenzene %RSE = 5.0



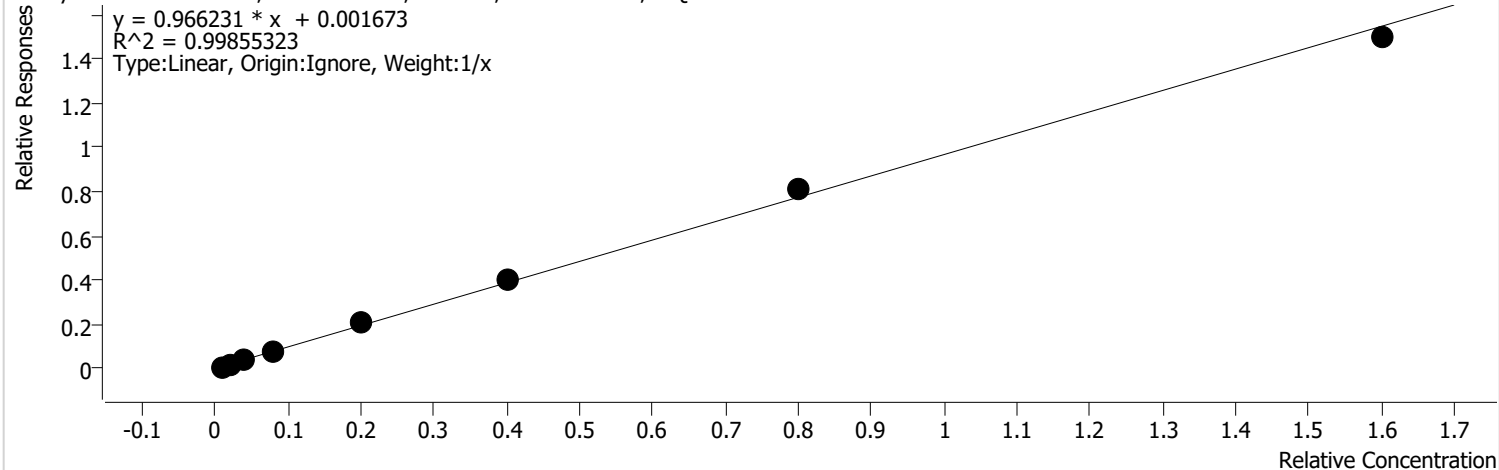
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-9\DATA\080823\080858.D	Calibration	1	x	44761	0.2000	0.7511	
D:\GC-9\DATA\080823\080859.D	Calibration	2	x	110848	0.5000	0.7449	
D:\GC-9\DATA\080823\080860.D	Calibration	3	x	214033	1.0000	0.7075	
D:\GC-9\DATA\080823\080861.D	Calibration	4	x	412125	2.0000	0.6890	
D:\GC-9\DATA\080823\080862.D	Calibration	5	x	1038999	5.0000	0.7161	
D:\GC-9\DATA\080823\080863.D	Calibration	6	x	1991610	10.0000	0.6873	
D:\GC-9\DATA\080823\080864.D	Calibration	7	x	3989507	20.0000	0.6828	
D:\GC-9\DATA\080823\080865.D	Calibration	8	x	7731983	40.0000	0.6444	

Calibration Report

Batch Path	D:\GC-9\DATA\080823\QuantResults\voc s cal.batch.bin		
Analysis Time	8/10/2023 4:55 PM	Analyst Name	FA\GC9
Report Time	8/10/2023 5:00:31 PM	Reporter Name	FA\GC9
Last Calib Update	8/10/2023 1:10 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

n-Butylbenzene %RSE = 6.1

n-Butylbenzene - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

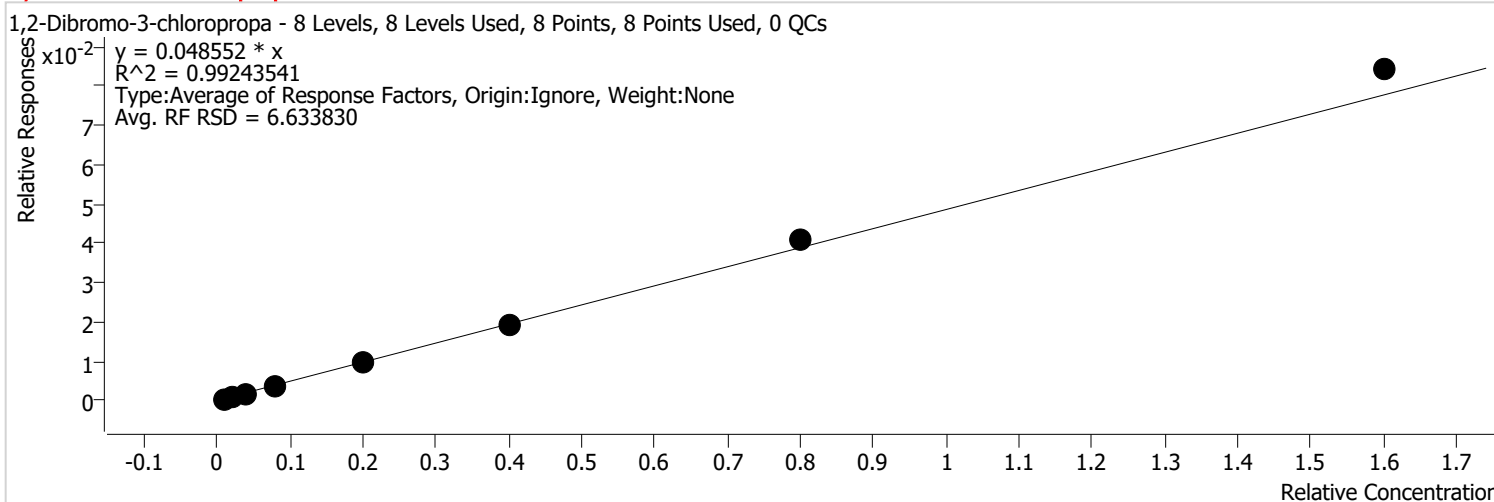


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-9\DATA\080823\080858.D	Calibration	1	x	63110	0.2000	1.0590	
D:\GC-9\DATA\080823\080859.D	Calibration	2	x	161637	0.5000	1.0863	
D:\GC-9\DATA\080823\080860.D	Calibration	3	x	303880	1.0000	1.0045	
D:\GC-9\DATA\080823\080861.D	Calibration	4	x	590481	2.0000	0.9872	
D:\GC-9\DATA\080823\080862.D	Calibration	5	x	1489390	5.0000	1.0265	
D:\GC-9\DATA\080823\080863.D	Calibration	6	x	2881390	10.0000	0.9943	
D:\GC-9\DATA\080823\080864.D	Calibration	7	x	5892189	20.0000	1.0085	
D:\GC-9\DATA\080823\080865.D	Calibration	8	x	11218605	40.0000	0.9349	

Calibration Report

Batch Path	D:\GC-9\DATA\080823\QuantResults\voc s cal.batch.bin		
Analysis Time	8/10/2023 4:55 PM	Analyst Name	FA\GC9
Report Time	8/10/2023 5:00:31 PM	Reporter Name	FA\GC9
Last Calib Update	8/10/2023 1:10 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,2-Dibromo-3-chloropropa %RSE = 6.6

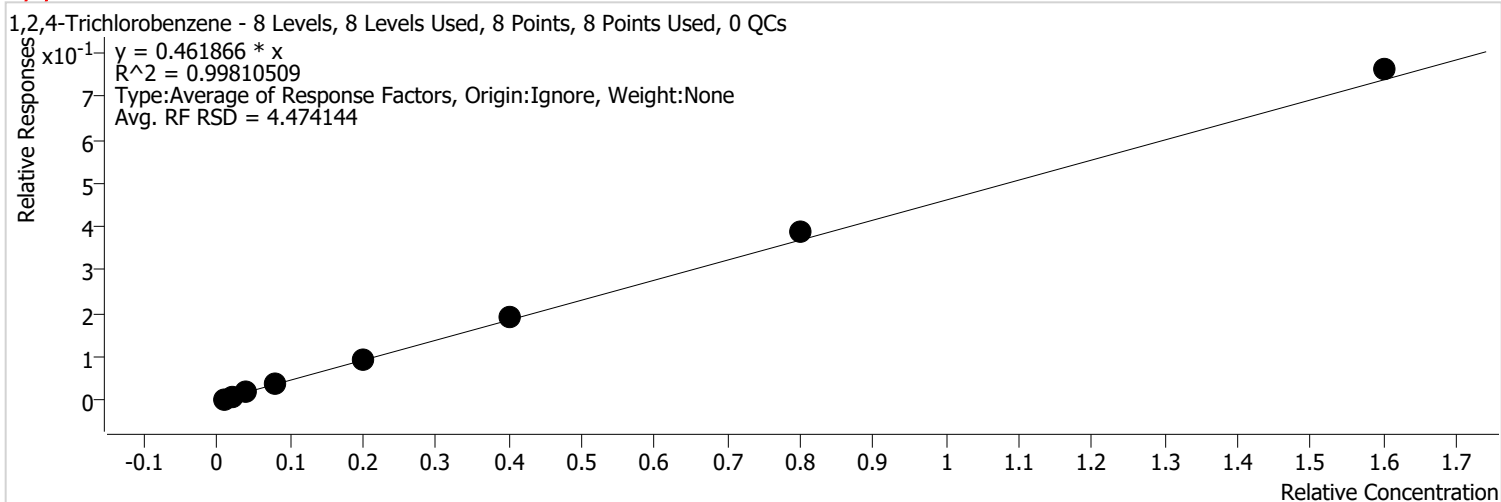


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-9\DATA\080823\080858.D	Calibration	1	x	2896	0.2000	0.0486	
D:\GC-9\DATA\080823\080859.D	Calibration	2	x	7737	0.5000	0.0520	
D:\GC-9\DATA\080823\080860.D	Calibration	3	x	13316	1.0000	0.0440	
D:\GC-9\DATA\080823\080861.D	Calibration	4	x	26597	2.0000	0.0445	
D:\GC-9\DATA\080823\080862.D	Calibration	5	x	68733	5.0000	0.0474	
D:\GC-9\DATA\080823\080863.D	Calibration	6	x	140307	10.0000	0.0484	
D:\GC-9\DATA\080823\080864.D	Calibration	7	x	297824	20.0000	0.0510	
D:\GC-9\DATA\080823\080865.D	Calibration	8	x	630866	40.0000	0.0526	

Calibration Report

Batch Path	D:\GC-9\DATA\080823\QuantResults\voc s cal.batch.bin		
Analysis Time	8/10/2023 4:55 PM	Analyst Name	FA\GC9
Report Time	8/10/2023 5:00:31 PM	Reporter Name	FA\GC9
Last Calib Update	8/10/2023 1:10 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,2,4-Trichlorobenzene %RSE = 4.5



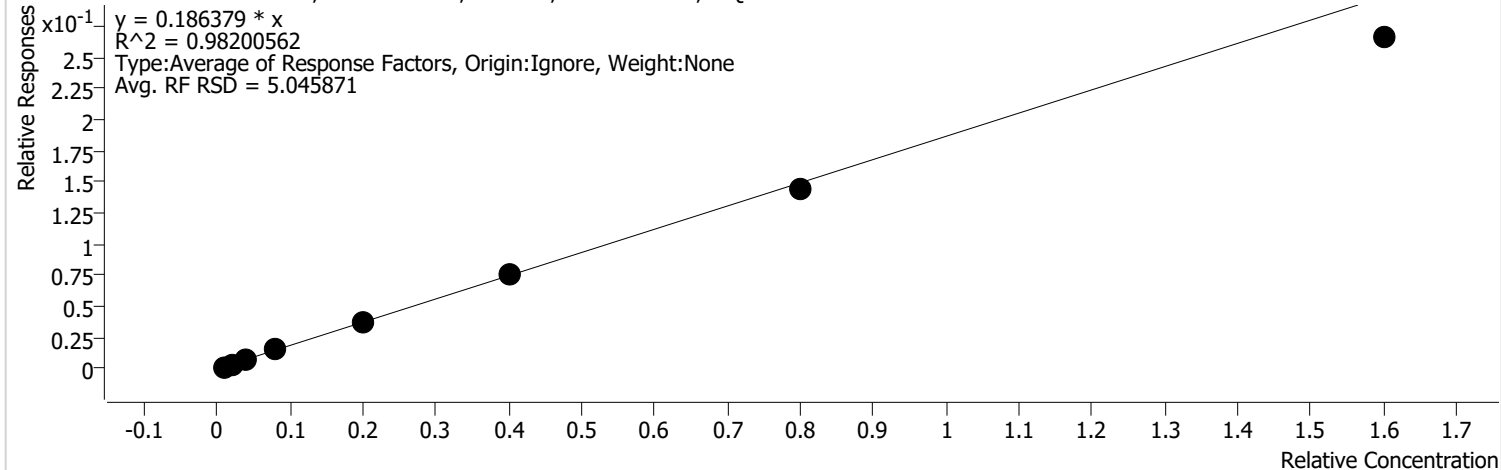
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-9\DATA\080823\080858.D	Calibration	1	x	26153	0.2000	0.4388	
D:\GC-9\DATA\080823\080859.D	Calibration	2	x	69704	0.5000	0.4684	
D:\GC-9\DATA\080823\080860.D	Calibration	3	x	129908	1.0000	0.4294	
D:\GC-9\DATA\080823\080861.D	Calibration	4	x	266872	2.0000	0.4462	
D:\GC-9\DATA\080823\080862.D	Calibration	5	x	688765	5.0000	0.4747	
D:\GC-9\DATA\080823\080863.D	Calibration	6	x	1378099	10.0000	0.4756	
D:\GC-9\DATA\080823\080864.D	Calibration	7	x	2835099	20.0000	0.4853	
D:\GC-9\DATA\080823\080865.D	Calibration	8	x	5718284	40.0000	0.4766	

Calibration Report

Batch Path	D:\GC-9\DATA\080823\QuantResults\voc s cal.batch.bin		
Analysis Time	8/10/2023 4:55 PM	Analyst Name	FA\GC9
Report Time	8/10/2023 5:00:31 PM	Reporter Name	FA\GC9
Last Calib Update	8/10/2023 1:10 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Hexachlorobutadiene %RSE = 5.0

Hexachlorobutadiene - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



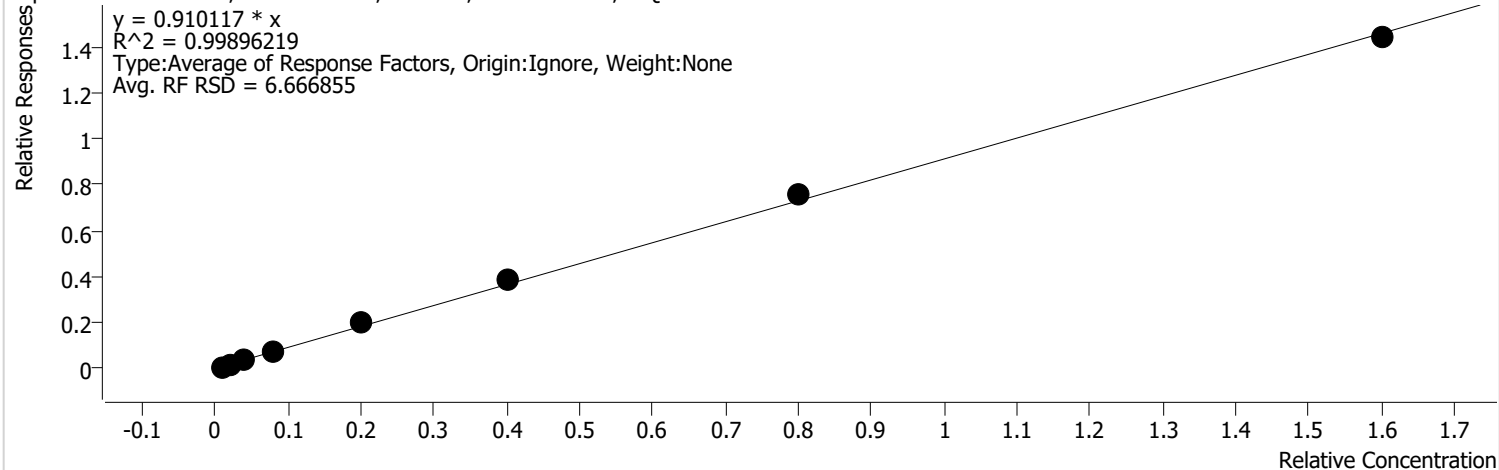
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-9\DATA\080823\080858.D	Calibration	1	x	11276	0.2000	0.1892	
D:\GC-9\DATA\080823\080859.D	Calibration	2	x	29257	0.5000	0.1966	
D:\GC-9\DATA\080823\080860.D	Calibration	3	x	58295	1.0000	0.1927	
D:\GC-9\DATA\080823\080861.D	Calibration	4	x	113615	2.0000	0.1899	
D:\GC-9\DATA\080823\080862.D	Calibration	5	x	273524	5.0000	0.1885	
D:\GC-9\DATA\080823\080863.D	Calibration	6	x	542282	10.0000	0.1871	
D:\GC-9\DATA\080823\080864.D	Calibration	7	x	1057669	20.0000	0.1810	
D:\GC-9\DATA\080823\080865.D	Calibration	8	x	1990537	40.0000	0.1659	

Calibration Report

Batch Path	D:\GC-9\DATA\080823\QuantResults\voc s cal.batch.bin		
Analysis Time	8/10/2023 4:55 PM	Analyst Name	FA\GC9
Report Time	8/10/2023 5:00:31 PM	Reporter Name	FA\GC9
Last Calib Update	8/10/2023 1:10 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Naphthalene %RSE = 6.7

Naphthalene - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

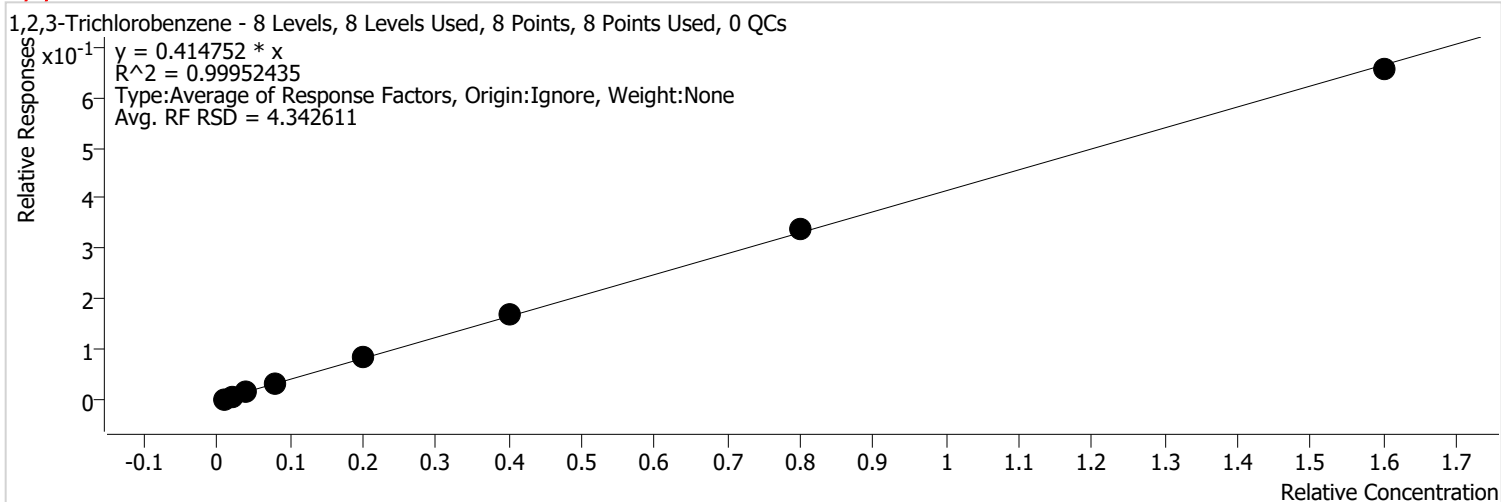


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-9\DATA\080823\080858.D	Calibration	1	x	49364	0.2000	0.8283	
D:\GC-9\DATA\080823\080859.D	Calibration	2	x	142136	0.5000	0.9552	
D:\GC-9\DATA\080823\080860.D	Calibration	3	x	251796	1.0000	0.8323	
D:\GC-9\DATA\080823\080861.D	Calibration	4	x	523240	2.0000	0.8748	
D:\GC-9\DATA\080823\080862.D	Calibration	5	x	1414368	5.0000	0.9748	
D:\GC-9\DATA\080823\080863.D	Calibration	6	x	2832135	10.0000	0.9773	
D:\GC-9\DATA\080823\080864.D	Calibration	7	x	5491798	20.0000	0.9400	
D:\GC-9\DATA\080823\080865.D	Calibration	8	x	10778180	40.0000	0.8982	

Calibration Report

Batch Path	D:\GC-9\DATA\080823\QuantResults\voc s cal.batch.bin		
Analysis Time	8/10/2023 4:55 PM	Analyst Name	FA\GC9
Report Time	8/10/2023 5:00:31 PM	Reporter Name	FA\GC9
Last Calib Update	8/10/2023 1:10 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,2,3-Trichlorobenzene %RSE = 4.3



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-9\DATA\080823\080858.D	Calibration	1	x	22734	0.2000	0.3815	
D:\GC-9\DATA\080823\080859.D	Calibration	2	x	64143	0.5000	0.4311	
D:\GC-9\DATA\080823\080860.D	Calibration	3	x	122688	1.0000	0.4055	
D:\GC-9\DATA\080823\080861.D	Calibration	4	x	242029	2.0000	0.4046	
D:\GC-9\DATA\080823\080862.D	Calibration	5	x	630474	5.0000	0.4345	
D:\GC-9\DATA\080823\080863.D	Calibration	6	x	1246119	10.0000	0.4300	
D:\GC-9\DATA\080823\080864.D	Calibration	7	x	2464673	20.0000	0.4218	
D:\GC-9\DATA\080823\080865.D	Calibration	8	x	4906485	40.0000	0.4089	

VOC Soil Calibration



Date: 8/11/2023

Analyst: MDS

Instrument: 6701

Cal	ICV
8260 Standard: <u>2500</u>	8260 Standard: <u>25052</u>

IS/Surrogate 25052

Cal Level	Spike Conc. (ppb)	Cal 8260 Spike (uL)	ICV 8260 Spike (uL)	Amount MeOH (mL)	Final Vol. (mL)	Comments
1	0.2	0.50	--	1.00	50	
2	0.5	1.25	--	1.00	50	
3	1	2.50	--	1.00	50	
4	2	5.00	--	1.00	50	
5	5	12.50	--	1.00	50	
6	10	25.00	--	1.00	50	
7	20	50.00	--	1.00	50	
8	40	100.00	--	1.00	50	
	ICV (20 ppb)	--	50.00	1.00	50	

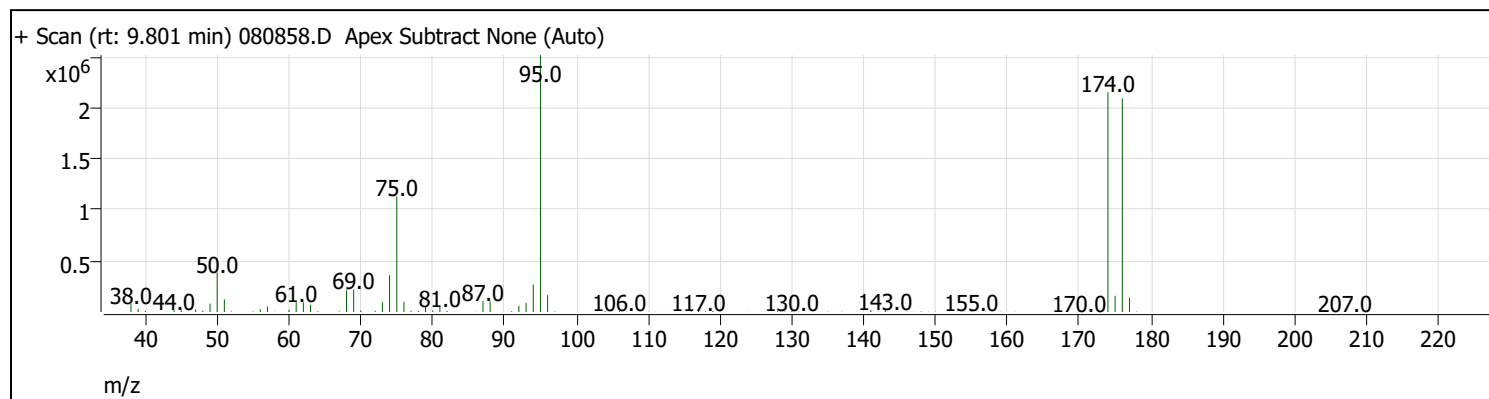
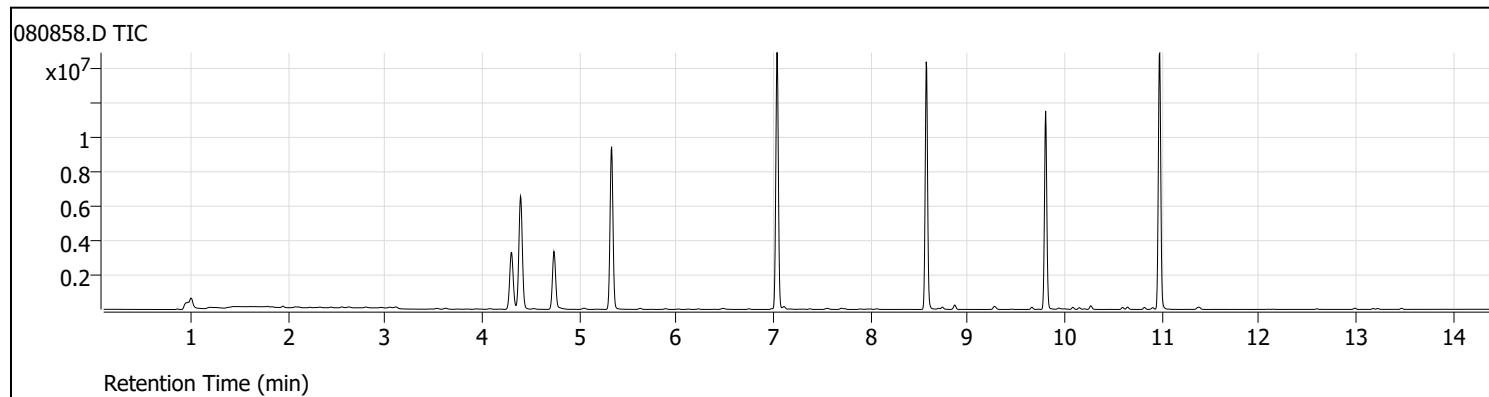
Signature and Date: *[Handwritten Signature]*



Tunes

Tune Evaluation Report

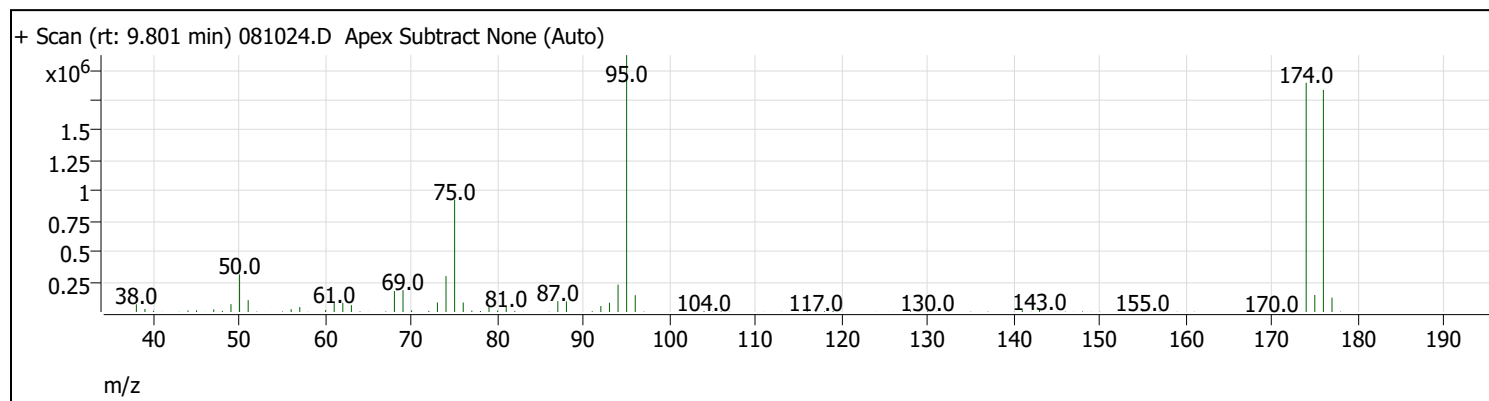
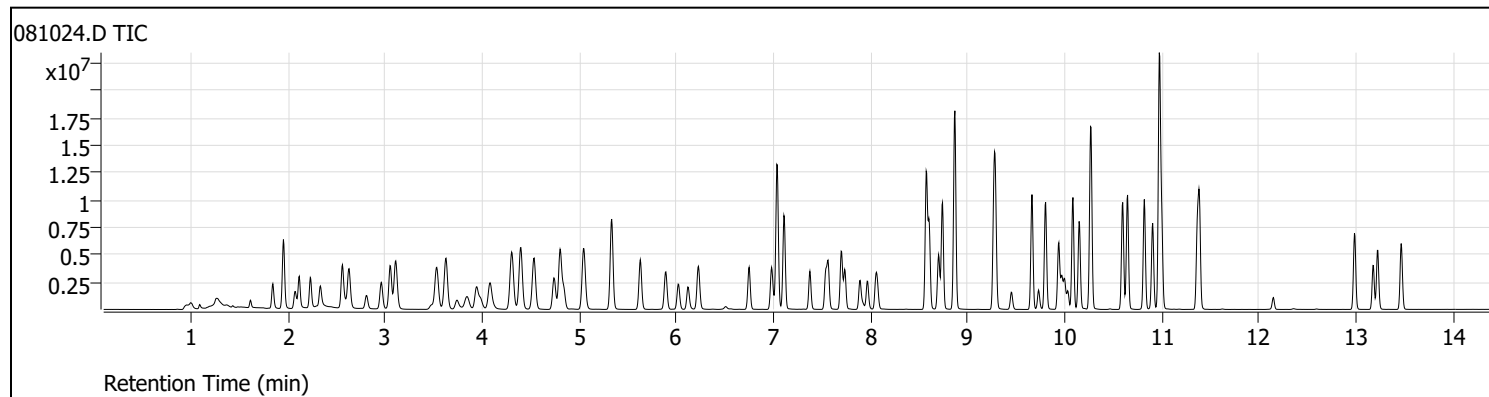
Data Path: D:\GC-9\DATA\080823\080858.D
 Acq on: 8/9/2023 9:27:06 PM
 Operator: FA\GC9
 Sample: VOC S CAL 1
 Inst Name: GC-9
 ALS Vial: 12
 Method: D:\MassHunter\Methods\Quant\BFB2021.m



Target Mass	Rel. To Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Pass/Fail
95	174	50	200	116.9	2516992	Pass
96	95	5	9	6.6	165120	Pass
173	174	0	2	0.0	0	Pass
174	95	50	200	85.6	2153984	Pass
175	174	5	9	7.4	158592	Pass
176	174	95	105	97.2	2094592	Pass
177	176	5	10	6.5	137088	Pass

Tune Evaluation Report

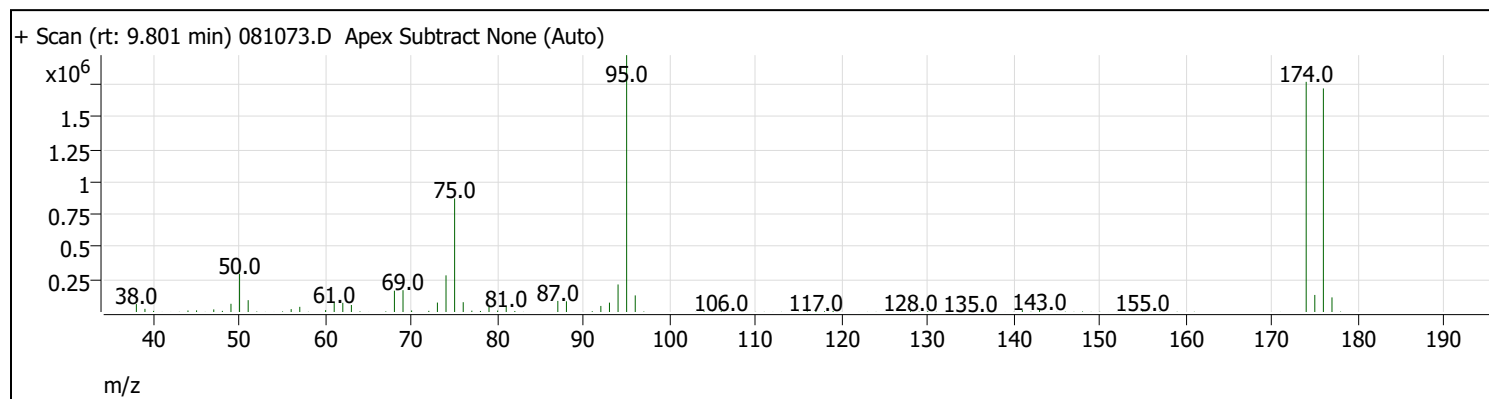
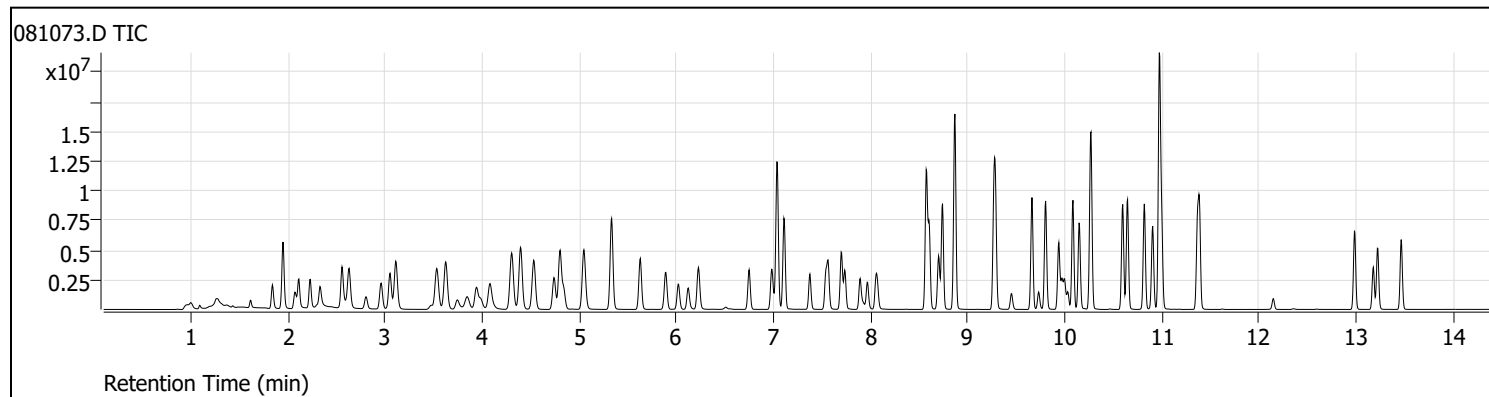
Data Path: D:\GC-9\DATA\081023\081024.D
 Acq on: 8/10/2023 10:32:13 PM
 Operator: FA\GC9
 Sample: VOC S CCV B
 Inst Name: GC-9
 ALS Vial: 22
 Method: D:\MassHunter\Methods\Quant\BFB2021.m



Target Mass	Rel. To Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Pass/Fail
95	174	50	200	112.0	2123776	Pass
96	95	5	9	6.5	138816	Pass
173	174	0	2	0.0	0	Pass
174	95	50	200	89.2	1895424	Pass
175	174	5	9	7.4	140480	Pass
176	174	95	105	96.9	1836032	Pass
177	176	5	10	6.5	119152	Pass

Tune Evaluation Report

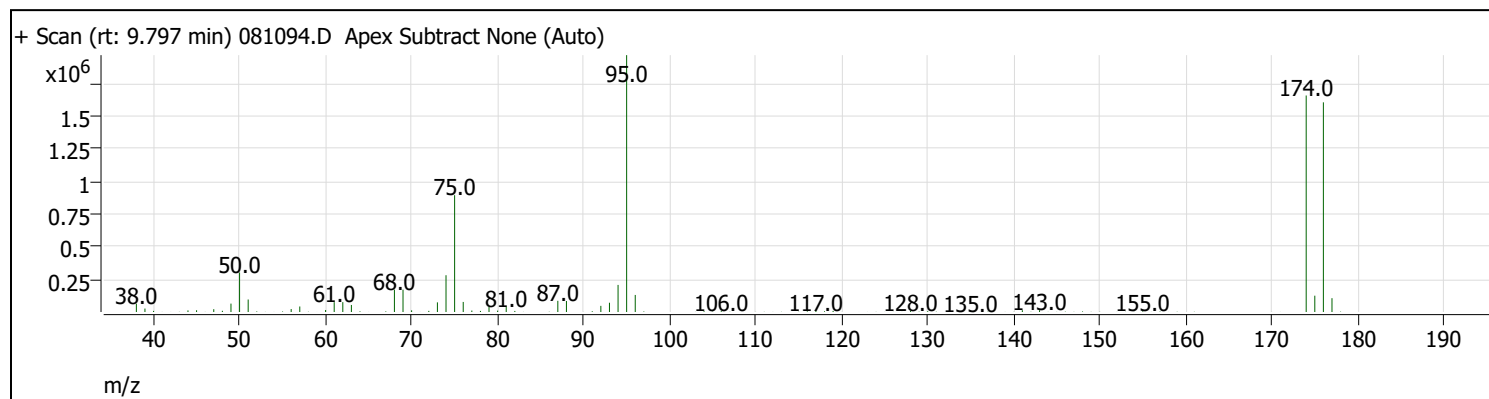
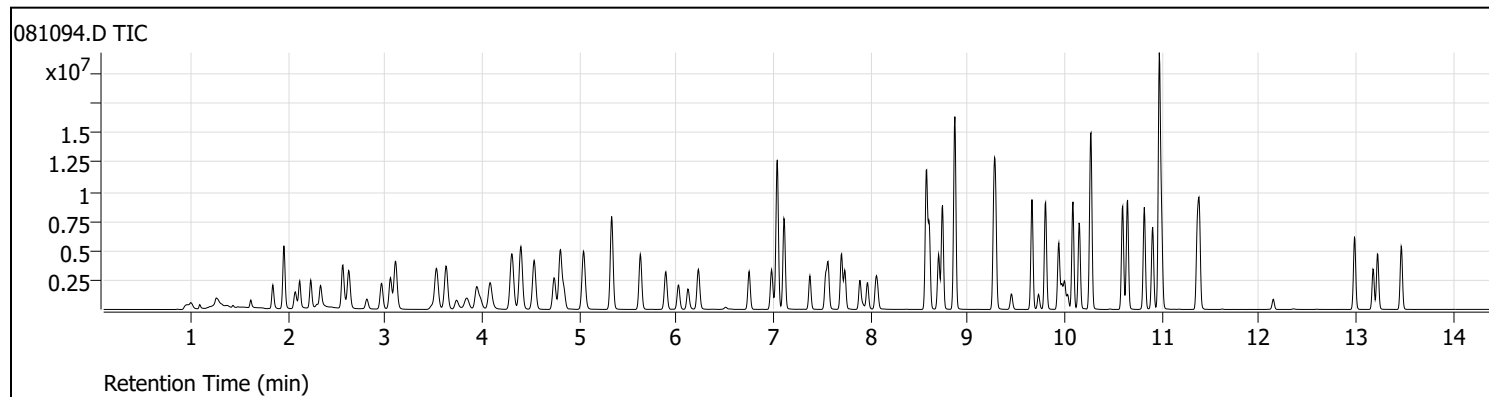
Data Path: D:\GC-9\DATA\081023\081073.D
 Acq on: 8/12/2023 12:34:19 AM
 Operator: FA\GC9
 Sample: CCV-41166C_41161C VOC
 Inst Name: GC-9
 ALS Vial: 19
 Method: D:\MassHunter\Methods\Quant\BFB2021.m



Target Mass	Rel. To Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Pass/Fail
95	174	50	200	111.6	1975296	Pass
96	95	5	9	6.5	127640	Pass
173	174	0	2	0.0	0	Pass
174	95	50	200	89.6	1769984	Pass
175	174	5	9	7.4	131072	Pass
176	174	95	105	97.1	1719296	Pass
177	176	5	10	6.5	112472	Pass

Tune Evaluation Report

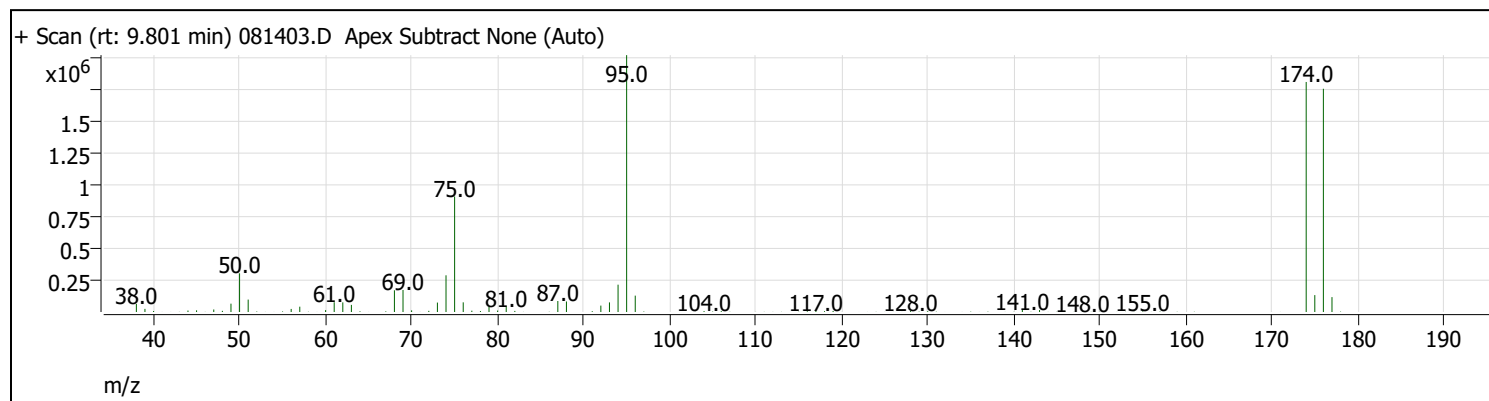
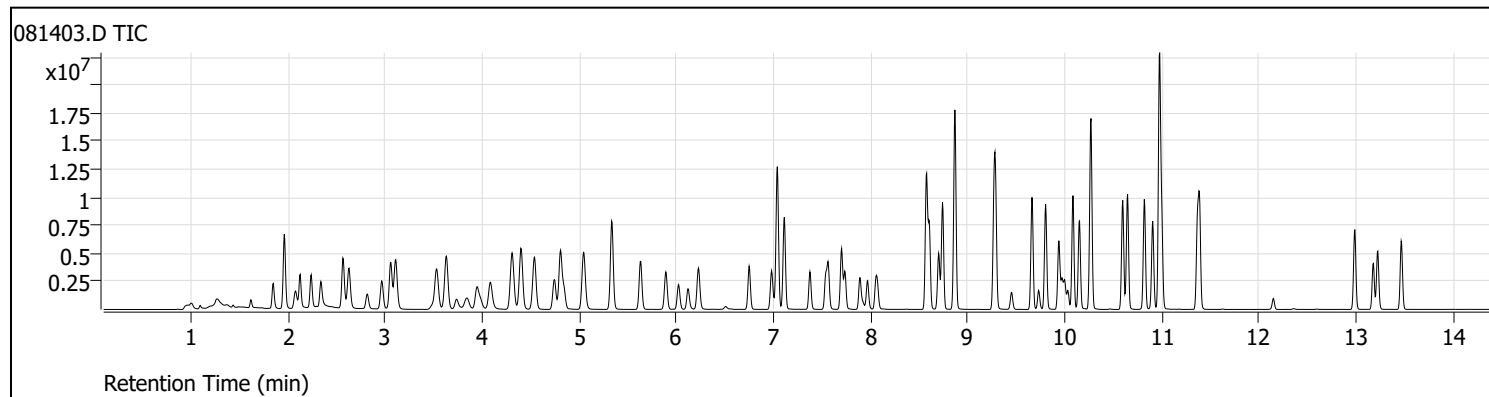
Data Path: D:\GC-9\DATA\081023\081094.D
 Acq on: 8/12/2023 11:40:49 AM
 Operator: FA\GC9
 Sample: CCV-41166D_41178D VOC
 Inst Name: GC-9
 ALS Vial: 38
 Method: D:\MassHunter\Methods\Quant\BFB2021.m



Target Mass	Rel. To Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Pass/Fail
95	174	50	200	118.6	1965056	Pass
96	95	5	9	6.6	130424	Pass
173	174	0	2	0.0	0	Pass
174	95	50	200	84.3	1656320	Pass
175	174	5	9	7.5	124848	Pass
176	174	95	105	96.8	1604096	Pass
177	176	5	10	6.6	105768	Pass

Tune Evaluation Report

Data Path: D:\GC-9\DATA\081423\081403.D
 Acq on: 8/14/2023 9:58:12 AM
 Operator: FA\GC9
 Sample: VOC S CCV A
 Inst Name: GC-9
 ALS Vial: 2
 Method: D:\MassHunter\Methods\Quant\BFB2021.m



Target Mass	Rel. To Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Pass/Fail
95	174	50	200	111.7	2014720	Pass
96	95	5	9	6.4	128376	Pass
173	174	0	2	0.0	0	Pass
174	95	50	200	89.6	1804288	Pass
175	174	5	9	7.3	132544	Pass
176	174	95	105	97.0	1751040	Pass
177	176	5	10	6.7	116848	Pass



Internal Standards

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-9 230811C CCV Name: R85858 MIDPOINT
 Run No: 85876 CCV SeqNo: 1792086
 Lab File ID (Standard): 080864.D Date Analyzed: 8/10/2023
 Instrument ID: GC-9 Time Analyzed: 0:40
 GC Column: ID (mm): Length (M):

	IS1 FBZ AREA #	RT #	IS2 (CBZ) AREA #	RT #	IS3 (14DCBZ) AREA #	RT #		
12 HOUR STD	5972491	4.395	8527769	8.571	7303192	10.972		
UPPER LIMIT	11944982	4.895	17055538	9.071	14606384	11.472		
LOWER LIMIT	2986246	3.895	4263885	8.071	3651596	10.472		
SAMPLE NO.								
01	CCV-41178A	5.46009e+006	4.395	7.75076e+006	8.571	6.65665e+006	10.972	
02	CCV-41178B	5.1239e+006	4.395	7.34527e+006	8.571	6.17568e+006	10.972	
03	CCV-41178C	5.23296e+006	4.395	7.48016e+006	8.576	6.35939e+006	10.972	

IS1 FBZ = Fluorobenzene

IS3 (14DCBZ) = 1,4-Dichlorobenzene-d4

IS2 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-9 230811C CCV Name: CCV-41178A
 Run No: 85876 CCV SeqNo: 1792084
 Lab File ID (Standard): 081024.D Date Analyzed: 8/10/2023
 Instrument ID: GC-9 Time Analyzed: 22:32
 GC Column: ID (mm): Length (M):

	IS1 FBZ AREA #	RT #	IS2 (CBZ) AREA #	RT #	IS3 (14DCBZ) AREA #	RT #		
12 HOUR STD	5460090	4.395	7750760	8.571	6656651	10.972		
UPPER LIMIT	10920180	4.895	15501520	9.071	13313302	11.472		
LOWER LIMIT	2730045	3.895	3875380	8.071	3328326	10.472		
SAMPLE NO.								
01 LCS-41178	5.46009e+006	4.395	7.75076e+006	8.571	6.65665e+006	10.972		
02 MB-41178	5.85914e+006	4.391	8.05875e+006	8.571	6.7274e+006	10.972		
03 2308159-001B	6.0998e+006	4.409	8.34384e+006	8.576	7.00314e+006	10.972		
04 2308159-001BDUP	5.96703e+006	4.409	8.21877e+006	8.576	6.83157e+006	10.972		
05 2308139-001B	5.68162e+006	4.4	7.79447e+006	8.571	6.4979e+006	10.973		
06 2308139-002B	5.58212e+006	4.4	7.713e+006	8.571	6.47847e+006	10.972		
07 2308139-003B	5.59434e+006	4.4	7.57459e+006	8.571	6.29085e+006	10.972		
08 2308139-002BMS	5.13344e+006	4.4	7.28723e+006	8.571	6.21103e+006	10.973		

IS1 FBZ = Fluorobenzene

IS3 (14DCBZ) = 1,4-Dichlorobenzene-d4

IS2 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-9 230811C CCV Name: CCV-41178B
 Run No: 85876 CCV SeqNo: 1792953
 Lab File ID (Standard): 081094.D Date Analyzed: 8/12/2023
 Instrument ID: GC-9 Time Analyzed: 11:40
 GC Column: ID (mm): Length (M):

	IS1 FBZ AREA #	RT #	IS2 (CBZ) AREA #	RT #	IS3 (14DCBZ) AREA #	RT #		
12 HOUR STD	5123896	4.395	7345270	8.571	6175675	10.972		
UPPER LIMIT	10247792	4.895	14690540	9.071	12351350	11.472		
LOWER LIMIT	2561948	3.895	3672635	8.071	3087838	10.472		
SAMPLE NO.								
01 2308151-009B	4.92076e+006	4.395	5.68774e+006	8.576	5.16641e+006	10.981		

IS1 FBZ = Fluorobenzene
 IS2 (CBZ) = Chlorobenzene-d5

IS3 (14DCBZ) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = -50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-9 230811C CCV Name: CCV-41178C
 Run No: 85876 CCV SeqNo: 1792970
 Lab File ID (Standard): 081403.D Date Analyzed: 8/14/2023
 Instrument ID: GC-9 Time Analyzed: 9:58
 GC Column: ID (mm): Length (M):

	IS1 FBZ AREA #	RT #	IS2 (CBZ) AREA #	RT #	IS3 (14DCBZ) AREA #	RT #		
12 HOUR STD	5232961	4.395	7480164	8.576	6359387	10.972		
UPPER LIMIT	10465922	4.895	14960328	9.076	12718774	11.472		
LOWER LIMIT	2616481	3.895	3740082	8.076	3179694	10.472		
SAMPLE NO.								
01 2308151-009B	5.61877e+006	4.409	7.56925e+006	8.576	6.2193e+006	10.972		

IS1 FBZ = Fluorobenzene

IS3 (14DCBZ) = 1,4-Dichlorobenzene-d4

IS2 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-9 230814A CCV Name: R85858 MIDPOINT
 Run No: 85899 CCV SeqNo: 1792691
 Lab File ID (Standard): 080864.D Date Analyzed: 8/10/2023
 Instrument ID: GC-9 Time Analyzed: 0:40
 GC Column: ID (mm): Length (M):

	IS1 FBZ AREA #	RT #	IS2 (CBZ) AREA #	RT #	IS3 (14DCBZ) AREA #	RT #		
12 HOUR STD	5972491	4.395	8527769	8.571	7303192	10.972		
UPPER LIMIT	11944982	4.895	17055538	9.071	14606384	11.472		
LOWER LIMIT	2986246	3.895	4263885	8.071	3651596	10.472		
SAMPLE NO.								
01	CCV-41166A	5.04707e+006	4.395	7.27631e+006	8.571	6.18776e+006	10.972	
02	CCV-41166B	5.1239e+006	4.395	7.34527e+006	8.571	6.17568e+006	10.972	
03	CCV-41166C	5.23296e+006	4.395	7.48016e+006	8.576	6.35939e+006	10.972	

IS1 FBZ = Fluorobenzene
 IS2 (CBZ) = Chlorobenzene-d5

IS3 (14DCBZ) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = -50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-9 230814A

CCV Name: CCV-41166A

Run No: 85899

CCV SeqNo: 1792692

Lab File ID (Standard): 081073.D

Date Analyzed: 8/12/2023

Instrument ID: GC-9

Time Analyzed: 0:34

GC Column:

ID (mm):

Length (M):

	IS1 FBZ AREA #	RT #	IS2 (CBZ) AREA #	RT #	IS3 (14DCBZ) AREA #	RT #		
12 HOUR STD	5047072	4.395	7276311	8.571	6187759	10.972		
UPPER LIMIT	10094144	4.895	14552622	9.071	12375518	11.472		
LOWER LIMIT	2523536	3.895	3638156	8.071	3093880	10.472		
SAMPLE NO.								
01	LCS-41166	5.04707e+006	4.395	7.27631e+006	8.571	6.18776e+006	10.972	
02	MB-41166	5.40538e+006	4.391	7.53092e+006	8.571	6.27958e+006	10.972	
03	2308044-005B	5.45123e+006	4.404	7.49339e+006	8.576	6.23025e+006	10.972	
04	2308044-006B	5.67587e+006	4.404	7.84614e+006	8.576	6.54148e+006	10.972	
05	2308044-007B	5.69062e+006	4.404	7.85722e+006	8.576	6.59355e+006	10.972	
06	2308044-008B	5.23405e+006	4.4	7.18807e+006	8.576	6.06673e+006	10.972	
07	2308044-009B	5.46108e+006	4.404	7.53618e+006	8.571	6.29944e+006	10.972	
08	2308044-010B	5.23641e+006	4.4	7.25966e+006	8.571	6.06476e+006	10.973	
09	2308044-011B	5.37773e+006	4.4	7.37553e+006	8.576	6.15468e+006	10.972	

IS1 FBZ = Fluorobenzene

IS3 (14DCBZ) = 1,4-Dichlorobenzene-d4

IS2 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-9 230814A CCV Name: CCV-41166B
 Run No: 85899 CCV SeqNo: 1792701
 Lab File ID (Standard): 081094.D Date Analyzed: 8/12/2023
 Instrument ID: GC-9 Time Analyzed: 11:40
 GC Column: ID (mm): Length (M):

	IS1 FBZ AREA #	RT #	IS2 (CBZ) AREA #	RT #	IS3 (14DCBZ) AREA #	RT #		
12 HOUR STD	5123896	4.395	7345270	8.571	6175675	10.972		
UPPER LIMIT	10247792	4.895	14690540	9.071	12351350	11.472		
LOWER LIMIT	2561948	3.895	3672635	8.071	3087838	10.472		
SAMPLE NO.								
01	2308044-014B	5.27533e+006	4.4	7.31051e+006	8.571	6.12292e+006	10.972	
02	2308044-014BDUP	5.31094e+006	4.4	7.38596e+006	8.571	6.1644e+006	10.972	
03	2308044-017B	5.26841e+006	4.4	7.38291e+006	8.576	6.13251e+006	10.972	
04	2308044-020B	5.26484e+006	4.4	7.31112e+006	8.571	6.10048e+006	10.973	
05	2308044-023B	5.1982e+006	4.4	7.23535e+006	8.571	6.05673e+006	10.973	
06	2308044-023BDUP	5.19972e+006	4.4	7.19812e+006	8.571	6.02772e+006	10.972	
07	2308151-002B	5.10976e+006	4.4	6.98216e+006	8.571	5.74816e+006	10.972	
08	2308151-003B	5.31514e+006	4.4	7.38347e+006	8.571	6.20426e+006	10.973	
09	2308151-005B	5.12501e+006	4.4	6.07722e+006	8.576	5.23903e+006	10.977	
10	2308151-006B	5.284e+006	4.4	7.28068e+006	8.571	6.06313e+006	10.972	
11	2308151-008B	5.39818e+006	4.4	7.42236e+006	8.571	6.21728e+006	10.973	
12	2308151-010B	5.39502e+006	4.395	7.272e+006	8.571	6.10498e+006	10.972	
13	2308151-011B	5.43572e+006	4.395	7.29341e+006	8.571	5.81341e+006	10.972	
14	2308151-012B	5.26822e+006	4.395	7.23723e+006	8.571	6.16754e+006	10.972	
15	2308111-001B	5.6783e+006	4.395	7.76191e+006	8.571	6.42881e+006	10.972	
16	2308044-017BMS	4.97369e+006	4.395	7.1407e+006	8.571	6.0662e+006	10.972	

IS1 FBZ = Fluorobenzene

IS3 (14DCBZ) = 1,4-Dichlorobenzene-d4

IS2 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-9 230814A CCV Name: CCV-41166C
 Run No: 85899 CCV SeqNo: 1792722
 Lab File ID (Standard): 081403.D Date Analyzed: 8/14/2023
 Instrument ID: GC-9 Time Analyzed: 9:58
 GC Column: ID (mm): Length (M):

	IS1 FBZ AREA #	RT #	IS2 (CBZ) AREA #	RT #	IS3 (14DCBZ) AREA #	RT #		
12 HOUR STD	5232961	4.395	7480164	8.576	6359387	10.972		
UPPER LIMIT	10465922	4.895	14960328	9.076	12718774	11.472		
LOWER LIMIT	2616481	3.895	3740082	8.076	3179694	10.472		
SAMPLE NO.								
01 2308151-010B	5.51424e+006	4.395	7.61617e+006	8.576	6.04722e+006	10.972		

IS1 FBZ = Fluorobenzene
 IS2 (CBZ) = Chlorobenzene-d5

IS3 (14DCBZ) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = -50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.



Fremont

Analytical

An Alliance Technical Group Company

3600 Fremont Ave. N.

Seattle, WA 98103

T: (206) 352-3790

F: (206) 352-7178

info@fremontanalytical.com

GeoEngineers

Robert Trahan
2101 4th Ave, Suite 950
Seattle, WA 98121

RE: 701 South Jackson
Work Order Number: 2308299

August 24, 2023

Attention Robert Trahan:

Fremont Analytical, Inc. received 5 sample(s) on 8/22/2023 for the analyses presented in the following report.

Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.
Gasoline by NWTPH-Gx
Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)
Sample Moisture (Percent Moisture)
Total Metals by EPA Method 6020B
Volatile Organic Compounds by EPA Method 8260D

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Bames
Project Manager

DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.3 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910

Revision v1

www.fremontanalytical.com

CLIENT: GeoEngineers
Project: 701 South Jackson
Work Order: 2308299

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2308299-001	R3-NSW-W-88	08/22/2023 7:40 AM	08/22/2023 1:44 PM
2308299-002	R3-WSW-S-88	08/22/2023 7:50 AM	08/22/2023 1:44 PM
2308299-003	R3-ESW-N-88	08/22/2023 12:45 PM	08/22/2023 1:44 PM
2308299-004	R3-WSW-N-88	08/22/2023 12:50 PM	08/22/2023 1:44 PM
2308299-005	EX-02-88	08/22/2023 8:05 AM	08/22/2023 1:44 PM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: GeoEngineers
Project: 701 South Jackson

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Rev 1: Sample ID modification per client request

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Analytical Report

Work Order: 2308299
Date Reported: 8/24/2023

Client: GeoEngineers
Project: 701 South Jackson
Lab ID: 2308299-001
Client Sample ID: R3-NSW-W-88

Collection Date: 8/22/2023 7:40:00 AM
Matrix: Soil

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Batch ID: 41279 Analyst: SK

Diesel Range Organics	ND	57.4		mg/Kg-dry	1	8/23/2023 2:14:37 PM
Heavy Oil	ND	115		mg/Kg-dry	1	8/23/2023 2:14:37 PM
Total Petroleum Hydrocarbons	ND	172		mg/Kg-dry	1	8/23/2023 2:14:37 PM
Surr: 2-Fluorobiphenyl	80.4	50 - 150		%Rec	1	8/23/2023 2:14:37 PM
Surr: o-Terphenyl	89.7	50 - 150		%Rec	1	8/23/2023 2:14:37 PM

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Batch ID: 41284 Analyst: RG

Naphthalene	ND	23.6		µg/Kg-dry	1	8/23/2023 7:52:38 PM
2-Methylnaphthalene	ND	23.6		µg/Kg-dry	1	8/23/2023 7:52:38 PM
1-Methylnaphthalene	ND	23.6		µg/Kg-dry	1	8/23/2023 7:52:38 PM
Surr: 2,4,6-Tribromophenol	110	27 - 142		%Rec	1	8/23/2023 7:52:38 PM
Surr: 2-Fluorobiphenyl	70.4	22.2 - 146		%Rec	1	8/23/2023 7:52:38 PM
Surr: Terphenyl-d14 (surr)	80.4	20.2 - 159		%Rec	1	8/23/2023 7:52:38 PM

Gasoline by NWTPH-Gx

Batch ID: 41276 Analyst: CC

Gasoline Range Organics	17.6	5.27		mg/Kg-dry	1	8/23/2023 1:21:44 PM
Surr: Toluene-d8	93.8	65 - 135		%Rec	1	8/23/2023 1:21:44 PM
Surr: 4-Bromofluorobenzene	102	65 - 135		%Rec	1	8/23/2023 1:21:44 PM

NOTES:

Chromatographic pattern indicates a material consistent with weathered gasoline or stoddard solvent

Volatile Organic Compounds by EPA Method 8260D

Batch ID: 41276 Analyst: CC

Benzene	ND	0.0184		mg/Kg-dry	1	8/23/2023 1:21:44 PM
Toluene	ND	0.0316		mg/Kg-dry	1	8/23/2023 1:21:44 PM
Ethylbenzene	ND	0.0263		mg/Kg-dry	1	8/23/2023 1:21:44 PM
m,p-Xylene	ND	0.0527		mg/Kg-dry	1	8/23/2023 1:21:44 PM
o-Xylene	ND	0.0263		mg/Kg-dry	1	8/23/2023 1:21:44 PM
Surr: Dibromofluoromethane	108	79.5 - 124		%Rec	1	8/23/2023 1:21:44 PM
Surr: Toluene-d8	103	77.5 - 124		%Rec	1	8/23/2023 1:21:44 PM
Surr: 1-Bromo-4-fluorobenzene	108	60.5 - 139		%Rec	1	8/23/2023 1:21:44 PM

Sample Moisture (Percent Moisture)

Batch ID: R86070 Analyst: MP

Percent Moisture	17.1	0.500		wt%	1	8/23/2023 8:36:39 AM
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Analytical Report

Work Order: 2308299
Date Reported: 8/24/2023

Client: GeoEngineers
Project: 701 South Jackson
Lab ID: 2308299-002
Client Sample ID: R3-WSW-S-88

Collection Date: 8/22/2023 7:50:00 AM
Matrix: Soil

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Batch ID: 41279 Analyst: SK

Diesel Range Organics	ND	61.4		mg/Kg-dry	1	8/23/2023 12:25:34 PM
Heavy Oil	ND	123		mg/Kg-dry	1	8/23/2023 12:25:34 PM
Total Petroleum Hydrocarbons	ND	184		mg/Kg-dry	1	8/23/2023 12:25:34 PM
Surr: 2-Fluorobiphenyl	89.2	50 - 150		%Rec	1	8/23/2023 12:25:34 PM
Surr: o-Terphenyl	93.3	50 - 150		%Rec	1	8/23/2023 12:25:34 PM

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Batch ID: 41284 Analyst: RG

Naphthalene	ND	24.4		µg/Kg-dry	1	8/23/2023 8:20:34 PM
2-Methylnaphthalene	ND	24.4		µg/Kg-dry	1	8/23/2023 8:20:34 PM
1-Methylnaphthalene	ND	24.4		µg/Kg-dry	1	8/23/2023 8:20:34 PM
Surr: 2,4,6-Tribromophenol	118	27 - 142		%Rec	1	8/23/2023 8:20:34 PM
Surr: 2-Fluorobiphenyl	78.9	22.2 - 146		%Rec	1	8/23/2023 8:20:34 PM
Surr: Terphenyl-d14 (surr)	89.7	20.2 - 159		%Rec	1	8/23/2023 8:20:34 PM

Gasoline by NWTPH-Gx

Batch ID: 41276 Analyst: CC

Gasoline Range Organics	ND	4.68		mg/Kg-dry	1	8/23/2023 1:51:59 PM
Surr: Toluene-d8	92.8	65 - 135		%Rec	1	8/23/2023 1:51:59 PM
Surr: 4-Bromofluorobenzene	104	65 - 135		%Rec	1	8/23/2023 1:51:59 PM

Volatile Organic Compounds by EPA Method 8260D

Batch ID: 41276 Analyst: CC

Benzene	ND	0.0164		mg/Kg-dry	1	8/23/2023 1:51:59 PM
Toluene	ND	0.0281		mg/Kg-dry	1	8/23/2023 1:51:59 PM
Ethylbenzene	ND	0.0234		mg/Kg-dry	1	8/23/2023 1:51:59 PM
m,p-Xylene	ND	0.0468		mg/Kg-dry	1	8/23/2023 1:51:59 PM
o-Xylene	ND	0.0234		mg/Kg-dry	1	8/23/2023 1:51:59 PM
Surr: Dibromofluoromethane	106	79.5 - 124		%Rec	1	8/23/2023 1:51:59 PM
Surr: Toluene-d8	105	77.5 - 124		%Rec	1	8/23/2023 1:51:59 PM
Surr: 1-Bromo-4-fluorobenzene	111	60.5 - 139		%Rec	1	8/23/2023 1:51:59 PM

Sample Moisture (Percent Moisture)

Batch ID: R86070 Analyst: MP

Percent Moisture	20.6	0.500		wt%	1	8/23/2023 8:36:39 AM
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Analytical Report

Work Order: 2308299
Date Reported: 8/24/2023

Client: GeoEngineers
Project: 701 South Jackson
Lab ID: 2308299-003
Client Sample ID: R3-ESW-N-88

Collection Date: 8/22/2023 12:45:00 PM
Matrix: Soil

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Batch ID: 41279 Analyst: SK

Diesel Range Organics	ND	52.6		mg/Kg-dry	1	8/23/2023 2:25:32 PM
Heavy Oil	ND	105		mg/Kg-dry	1	8/23/2023 2:25:32 PM
Total Petroleum Hydrocarbons	ND	158		mg/Kg-dry	1	8/23/2023 2:25:32 PM
Surr: 2-Fluorobiphenyl	98.8	50 - 150		%Rec	1	8/23/2023 2:25:32 PM
Surr: o-Terphenyl	103	50 - 150		%Rec	1	8/23/2023 2:25:32 PM

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Batch ID: 41284 Analyst: RG

Naphthalene	ND	19.6		µg/Kg-dry	1	8/23/2023 8:48:29 PM
2-Methylnaphthalene	ND	19.6		µg/Kg-dry	1	8/23/2023 8:48:29 PM
1-Methylnaphthalene	ND	19.6		µg/Kg-dry	1	8/23/2023 8:48:29 PM
Surr: 2,4,6-Tribromophenol	86.3	27 - 142		%Rec	1	8/23/2023 8:48:29 PM
Surr: 2-Fluorobiphenyl	57.0	22.2 - 146		%Rec	1	8/23/2023 8:48:29 PM
Surr: Terphenyl-d14 (surr)	64.4	20.2 - 159		%Rec	1	8/23/2023 8:48:29 PM

Gasoline by NWTPH-Gx

Batch ID: 41276 Analyst: CC

Gasoline Range Organics	ND	6.30		mg/Kg-dry	1	8/23/2023 2:22:05 PM
Surr: Toluene-d8	93.3	65 - 135		%Rec	1	8/23/2023 2:22:05 PM
Surr: 4-Bromofluorobenzene	104	65 - 135		%Rec	1	8/23/2023 2:22:05 PM

Volatile Organic Compounds by EPA Method 8260D

Batch ID: 41276 Analyst: CC

Benzene	ND	0.0220		mg/Kg-dry	1	8/23/2023 2:22:05 PM
Toluene	ND	0.0378		mg/Kg-dry	1	8/23/2023 2:22:05 PM
Ethylbenzene	ND	0.0315		mg/Kg-dry	1	8/23/2023 2:22:05 PM
m,p-Xylene	ND	0.0630		mg/Kg-dry	1	8/23/2023 2:22:05 PM
o-Xylene	ND	0.0315		mg/Kg-dry	1	8/23/2023 2:22:05 PM
Surr: Dibromofluoromethane	104	79.5 - 124		%Rec	1	8/23/2023 2:22:05 PM
Surr: Toluene-d8	104	77.5 - 124		%Rec	1	8/23/2023 2:22:05 PM
Surr: 1-Bromo-4-fluorobenzene	111	60.5 - 139		%Rec	1	8/23/2023 2:22:05 PM

Sample Moisture (Percent Moisture)

Batch ID: R86070 Analyst: MP

Percent Moisture	6.76	0.500		wt%	1	8/23/2023 8:36:39 AM
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Analytical Report

Work Order: 2308299
Date Reported: 8/24/2023

Client: GeoEngineers

Collection Date: 8/22/2023 12:50:00 PM

Project: 701 South Jackson

Lab ID: 2308299-004

Matrix: Soil

Client Sample ID: R3-WSW-N-88

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Batch ID: 41279 Analyst: SK

Diesel Range Organics	1,030	56.2		mg/Kg-dry	1	8/23/2023 12:47:19 PM
Heavy Oil	ND	112		mg/Kg-dry	1	8/23/2023 12:47:19 PM
Total Petroleum Hydrocarbons	1,050	169		mg/Kg-dry	1	8/23/2023 12:47:19 PM
Surr: 2-Fluorobiphenyl	106	50 - 150		%Rec	1	8/23/2023 12:47:19 PM
Surr: o-Terphenyl	112	50 - 150		%Rec	1	8/23/2023 12:47:19 PM

NOTES:

Detection is due to overlap with gasoline-range material

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Batch ID: 41284 Analyst: RG

Naphthalene	4,820	22.2		µg/Kg-dry	1	8/23/2023 9:16:26 PM
2-Methylnaphthalene	2,870	22.2		µg/Kg-dry	1	8/23/2023 9:16:26 PM
1-Methylnaphthalene	1,290	22.2		µg/Kg-dry	1	8/23/2023 9:16:26 PM
Surr: 2,4,6-Tribromophenol	116	27 - 142		%Rec	1	8/23/2023 9:16:26 PM
Surr: 2-Fluorobiphenyl	86.4	22.2 - 146		%Rec	1	8/23/2023 9:16:26 PM
Surr: Terphenyl-d14 (surr)	88.9	20.2 - 159		%Rec	1	8/23/2023 9:16:26 PM

Gasoline by NWTPH-Gx

Batch ID: 41276 Analyst: CC

Gasoline Range Organics	2,080	298	D	mg/Kg-dry	50	8/24/2023 11:22:30 AM
Surr: Toluene-d8	91.6	65 - 135	D	%Rec	50	8/24/2023 11:22:30 AM
Surr: 4-Bromofluorobenzene	103	65 - 135	D	%Rec	50	8/24/2023 11:22:30 AM

Volatile Organic Compounds by EPA Method 8260D

Batch ID: 41276 Analyst: CC

Benzene	0.0297	0.0209		mg/Kg-dry	1	8/23/2023 2:52:17 PM
Toluene	ND	0.0358		mg/Kg-dry	1	8/23/2023 2:52:17 PM
Ethylbenzene	8.55	1.49	D	mg/Kg-dry	50	8/24/2023 11:22:30 AM
m,p-Xylene	17.7	2.98	D	mg/Kg-dry	50	8/24/2023 11:22:30 AM
o-Xylene	0.347	0.0298		mg/Kg-dry	1	8/23/2023 2:52:17 PM
Surr: Dibromofluoromethane	89.5	79.5 - 124		%Rec	1	8/23/2023 2:52:17 PM
Surr: Toluene-d8	106	77.5 - 124		%Rec	1	8/23/2023 2:52:17 PM
Surr: 1-Bromo-4-fluorobenzene	86.4	60.5 - 139		%Rec	1	8/23/2023 2:52:17 PM

Sample Moisture (Percent Moisture)

Batch ID: R86070 Analyst: MP

Percent Moisture	11.3	0.500		wt%	1	8/23/2023 8:36:39 AM
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Analytical Report

Work Order: 2308299
Date Reported: 8/24/2023

Client: GeoEngineers
Project: 701 South Jackson
Lab ID: 2308299-005
Client Sample ID: EX-02-88

Collection Date: 8/22/2023 8:05:00 AM

Matrix: Soil

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Batch ID: 41279 Analyst: SK

Diesel Range Organics	ND	60.6		mg/Kg-dry	1	8/23/2023 2:36:26 PM
Heavy Oil	335	121		mg/Kg-dry	1	8/23/2023 2:36:26 PM
Total Petroleum Hydrocarbons	335	182		mg/Kg-dry	1	8/23/2023 2:36:26 PM
Surr: 2-Fluorobiphenyl	84.7	50 - 150		%Rec	1	8/23/2023 2:36:26 PM
Surr: o-Terphenyl	91.9	50 - 150		%Rec	1	8/23/2023 2:36:26 PM

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Batch ID: 41284 Analyst: RG

Naphthalene	ND	23.7		µg/Kg-dry	1	8/23/2023 9:44:17 PM
2-Methylnaphthalene	119	23.7		µg/Kg-dry	1	8/23/2023 9:44:17 PM
1-Methylnaphthalene	154	23.7		µg/Kg-dry	1	8/23/2023 9:44:17 PM
Acenaphthylene	36.3	23.7		µg/Kg-dry	1	8/23/2023 9:44:17 PM
Acenaphthene	ND	23.7		µg/Kg-dry	1	8/23/2023 9:44:17 PM
Fluorene	34.2	23.7		µg/Kg-dry	1	8/23/2023 9:44:17 PM
Phenanthrene	107	23.7		µg/Kg-dry	1	8/23/2023 9:44:17 PM
Anthracene	ND	23.7		µg/Kg-dry	1	8/23/2023 9:44:17 PM
Fluoranthene	59.4	23.7		µg/Kg-dry	1	8/23/2023 9:44:17 PM
Pyrene	93.3	47.5		µg/Kg-dry	1	8/23/2023 9:44:17 PM
Benz(a)anthracene	ND	23.7		µg/Kg-dry	1	8/23/2023 9:44:17 PM
Chrysene	72.9	23.7		µg/Kg-dry	1	8/23/2023 9:44:17 PM
Benzo(b)fluoranthene	ND	29.7		µg/Kg-dry	1	8/23/2023 9:44:17 PM
Benzo(k)fluoranthene	ND	29.7		µg/Kg-dry	1	8/23/2023 9:44:17 PM
Benzo(a)pyrene	ND	35.6		µg/Kg-dry	1	8/23/2023 9:44:17 PM
Indeno(1,2,3-cd)pyrene	ND	47.5		µg/Kg-dry	1	8/23/2023 9:44:17 PM
Dibenz(a,h)anthracene	ND	59.3		µg/Kg-dry	1	8/23/2023 9:44:17 PM
Benzo(g,h,i)perylene	ND	59.3		µg/Kg-dry	1	8/23/2023 9:44:17 PM
Surr: 2-Fluorobiphenyl	88.1	22.2 - 146		%Rec	1	8/23/2023 9:44:17 PM
Surr: Terphenyl-d14 (surr)	105	20.2 - 159		%Rec	1	8/23/2023 9:44:17 PM

Gasoline by NWTPH-Gx

Batch ID: 41276 Analyst: CC

Gasoline Range Organics	328	58.9	D	mg/Kg-dry	10	8/24/2023 3:53:15 PM
Surr: Toluene-d8	89.4	65 - 135	D	%Rec	10	8/24/2023 3:53:15 PM
Surr: 4-Bromofluorobenzene	107	65 - 135	D	%Rec	10	8/24/2023 3:53:15 PM

Volatile Organic Compounds by EPA Method 8260D

Batch ID: 41276 Analyst: CC

Benzene	0.0268	0.0206		mg/Kg-dry	1	8/23/2023 3:52:39 PM
Toluene	ND	0.0353		mg/Kg-dry	1	8/23/2023 3:52:39 PM



Analytical Report

Work Order: 2308299
Date Reported: 8/24/2023

Client: GeoEngineers
Project: 701 South Jackson
Lab ID: 2308299-005
Client Sample ID: EX-02-88

Collection Date: 8/22/2023 8:05:00 AM

Matrix: Soil

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 41276 Analyst: CC

Ethylbenzene	0.840	0.0294		mg/Kg-dry	1	8/23/2023 3:52:39 PM
m,p-Xylene	4.08	0.0589		mg/Kg-dry	1	8/23/2023 3:52:39 PM
o-Xylene	0.0439	0.0294		mg/Kg-dry	1	8/23/2023 3:52:39 PM
Surr: Dibromofluoromethane	93.2	79.5 - 124		%Rec	1	8/23/2023 3:52:39 PM
Surr: Toluene-d8	105	77.5 - 124		%Rec	1	8/23/2023 3:52:39 PM
Surr: 1-Bromo-4-fluorobenzene	133	60.5 - 139		%Rec	1	8/23/2023 3:52:39 PM

Total Metals by EPA Method 6020B

Batch ID: 41299 Analyst: SLL

Arsenic	3.42	0.251		mg/Kg-dry	1	8/24/2023 3:21:00 PM
Cadmium	0.0722	0.0200		mg/Kg-dry	1	8/24/2023 3:21:00 PM
Chromium	33.7	0.251		mg/Kg-dry	1	8/24/2023 3:21:00 PM
Lead	2.82	1.00		mg/Kg-dry	1	8/24/2023 3:21:00 PM
Mercury	ND	0.200		mg/Kg-dry	1	8/24/2023 3:21:00 PM

Sample Moisture (Percent Moisture)

Batch ID: R86070 Analyst: MP

Percent Moisture	20.2	0.500		wt%	1	8/23/2023 8:36:39 AM
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Work Order: 2308299
CLIENT: GeoEngineers
Project: 701 South Jackson

QC SUMMARY REPORT
Total Metals by EPA Method 6020B

Sample ID: ICB		SampType: ICB		Units: µg/L		Prep Date: 8/24/2023		RunNo: 86122			
Client ID: ICB		Batch ID: 41299				Analysis Date: 8/24/2023		SeqNo: 1797180			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.250									
Cadmium	ND	0.0200									
Chromium	ND	0.250									
Lead	ND	1.00									
Mercury	ND	0.200									

Sample ID: ICV		SampType: ICV		Units: µg/L		Prep Date: 8/24/2023		RunNo: 86122			
Client ID: ICV		Batch ID: 41299				Analysis Date: 8/24/2023		SeqNo: 1797181			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	103	0.250	100.0	0	103	90	110				
Cadmium	4.90	0.0200	5.000	0	97.9	90	110				
Chromium	108	0.250	100.0	0	108	90	110				
Lead	51.8	1.00	50.00	0	104	90	110				
Mercury	2.39	0.200	2.500	0	95.5	90	110				

Sample ID: CCV-41299A		SampType: CCV		Units: µg/L		Prep Date: 8/24/2023		RunNo: 86122			
Client ID: CCV		Batch ID: 41299				Analysis Date: 8/24/2023		SeqNo: 1797200			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	102	0.250	100.0	0	102	90	110				
Cadmium	5.01	0.0200	5.000	0	100	90	110				
Chromium	106	0.250	100.0	0	106	90	110				
Lead	53.8	1.00	50.00	0	108	90	110				
Mercury	2.55	0.200	2.500	0	102	90	110				

Work Order: 2308299
CLIENT: GeoEngineers
Project: 701 South Jackson

QC SUMMARY REPORT
Total Metals by EPA Method 6020B

Sample ID: CCB-41299A		SampType: CCB		Units: µg/L		Prep Date: 8/24/2023		RunNo: 86122			
Client ID: CCB		Batch ID: 41299				Analysis Date: 8/24/2023		SeqNo: 1797201			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.250									
Cadmium	ND	0.0200									
Chromium	ND	0.250									
Lead	ND	1.00									
Mercury	ND	0.200									

Sample ID: MB-41299		SampType: MBLK		Units: mg/Kg		Prep Date: 8/24/2023		RunNo: 86122			
Client ID: MBLKS		Batch ID: 41299				Analysis Date: 8/24/2023		SeqNo: 1797202			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.250									
Cadmium	ND	0.0200									
Chromium	ND	0.250									
Lead	ND	1.00									
Mercury	ND	0.200									

Sample ID: LCS-41299		SampType: LCS		Units: mg/Kg		Prep Date: 8/24/2023		RunNo: 86122			
Client ID: LCSS		Batch ID: 41299				Analysis Date: 8/24/2023		SeqNo: 1797203			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	41.0	0.198	39.68	0	103	80	120				
Cadmium	1.94	0.0159	1.984	0	97.7	80	120				
Chromium	43.8	0.198	39.68	0	110	80	120				
Lead	21.2	0.794	19.84	0	107	80	120				
Mercury	0.797	0.159	0.9921	0	80.3	80	120				

Work Order: 2308299
CLIENT: GeoEngineers
Project: 701 South Jackson

QC SUMMARY REPORT
Total Metals by EPA Method 6020B

Sample ID: 2308286-001AMS		SampType: MS		Units: mg/Kg-dry		Prep Date: 8/24/2023		RunNo: 86122			
Client ID: BATCH		Batch ID: 41299				Analysis Date: 8/24/2023		SeqNo: 1797206			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	41.5	0.216	43.17	0.5279	94.8	75	125				
Cadmium	2.12	0.0173	2.158	0.01856	97.2	75	125				
Chromium	54.9	0.216	43.17	12.36	98.5	75	125				
Lead	24.7	0.863	21.58	2.428	103	75	125				
Mercury	1.08	0.173	1.079	0	101	75	125				

Sample ID: 2308286-001AMSD		SampType: MSD		Units: mg/Kg-dry		Prep Date: 8/24/2023		RunNo: 86122			
Client ID: BATCH		Batch ID: 41299				Analysis Date: 8/24/2023		SeqNo: 1797207			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	37.9	0.208	41.52	0.5279	90.1	75	125	41.46	8.91	20	
Cadmium	1.93	0.0166	2.076	0.01856	92.1	75	125	2.116	9.19	20	
Chromium	49.5	0.208	41.52	12.36	89.4	75	125	54.88	10.3	20	
Lead	22.5	0.830	20.76	2.428	96.8	75	125	24.73	9.38	20	
Mercury	0.972	0.166	1.038	0	93.6	75	125	1.085	11.0	20	

Sample ID: CCV-41299B		SampType: CCV		Units: µg/L		Prep Date: 8/24/2023		RunNo: 86122			
Client ID: CCV		Batch ID: 41299				Analysis Date: 8/24/2023		SeqNo: 1797212			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	102	0.250	100.0	0	102	90	110				
Cadmium	5.12	0.0200	5.000	0	102	90	110				
Chromium	104	0.250	100.0	0	104	90	110				
Lead	52.2	1.00	50.00	0	104	90	110				
Mercury	2.51	0.200	2.500	0	100	90	110				

Work Order: 2308299
CLIENT: GeoEngineers
Project: 701 South Jackson

QC SUMMARY REPORT
Total Metals by EPA Method 6020B

Sample ID: CCB-41299B		SampType: CCB		Units: µg/L		Prep Date: 8/24/2023		RunNo: 86122			
Client ID: CCB		Batch ID: 41299				Analysis Date: 8/24/2023		SeqNo: 1797213			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.250									
Cadmium	ND	0.0200									
Chromium	ND	0.250									
Lead	ND	1.00									
Mercury	ND	0.200									

Sample ID: CCV-41299C		SampType: CCV		Units: µg/L		Prep Date: 8/24/2023		RunNo: 86122			
Client ID: CCV		Batch ID: 41299				Analysis Date: 8/24/2023		SeqNo: 1797224			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	102	0.250	100.0	0	102	90	110				
Cadmium	4.99	0.0200	5.000	0	99.7	90	110				
Chromium	106	0.250	100.0	0	106	90	110				
Lead	50.4	1.00	50.00	0	101	90	110				
Mercury	2.46	0.200	2.500	0	98.6	90	110				

Sample ID: CCB-41299C		SampType: CCB		Units: µg/L		Prep Date: 8/24/2023		RunNo: 86122			
Client ID: CCB		Batch ID: 41299				Analysis Date: 8/24/2023		SeqNo: 1797225			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.250									
Cadmium	ND	0.0200									
Chromium	ND	0.250									
Lead	ND	1.00									
Mercury	ND	0.200									

Work Order: 2308299
CLIENT: GeoEngineers
Project: 701 South Jackson

QC SUMMARY REPORT
Total Metals by EPA Method 6020B

Sample ID: CCV-41299D		SampType: CCV		Units: µg/L		Prep Date: 8/24/2023		RunNo: 86122			
Client ID: CCV		Batch ID: 41299				Analysis Date: 8/24/2023		SeqNo: 1797227			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	102	0.250	100.0	0	102	90	110				
Cadmium	4.96	0.0200	5.000	0	99.1	90	110				
Chromium	108	0.250	100.0	0	108	90	110				
Lead	51.8	1.00	50.00	0	104	90	110				
Mercury	2.52	0.200	2.500	0	101	90	110				

Sample ID: CCB-41299D		SampType: CCB		Units: µg/L		Prep Date: 8/24/2023		RunNo: 86122			
Client ID: CCB		Batch ID: 41299				Analysis Date: 8/24/2023		SeqNo: 1797228			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.250									
Cadmium	ND	0.0200									
Chromium	ND	0.250									
Lead	ND	1.00									
Mercury	ND	0.200									

Work Order: 2308299
CLIENT: GeoEngineers
Project: 701 South Jackson

QC SUMMARY REPORT

Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Sample ID: HO ICV		SampType: ICV		Units: mg/Kg		Prep Date: 7/27/2023		RunNo: 85547			
Client ID: ICV		Batch ID: 41279				Analysis Date: 7/27/2023		SeqNo: 1784893			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Heavy Oil	515	100	500.0	0	103	70	130				
Surr: 2-Fluorobiphenyl	10.5		10.00		105	50	150				
Surr: o-Terphenyl	10.8		10.00		108	50	150				

Sample ID: HO ICB		SampType: ICB		Units: mg/Kg		Prep Date: 7/27/2023		RunNo: 85547			
Client ID: ICB		Batch ID: 41279				Analysis Date: 7/27/2023		SeqNo: 1784901			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Heavy Oil	ND	100									
Surr: 2-Fluorobiphenyl	9.91		10.00		99.1	50	150				
Surr: o-Terphenyl	9.84		10.00		98.4	50	150				

Sample ID: DX ICB		SampType: ICB		Units: mg/Kg		Prep Date: 7/27/2023		RunNo: 85547			
Client ID: ICB		Batch ID: 41279				Analysis Date: 7/27/2023		SeqNo: 1784903			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics	ND	50.0									
Surr: 2-Fluorobiphenyl	10.0		10.00		100	50	150				
Surr: o-Terphenyl	10.0		10.00		100	50	150				

Sample ID: DX ICV		SampType: ICV		Units: mg/Kg		Prep Date: 7/27/2023		RunNo: 85547			
Client ID: ICV		Batch ID: 41279				Analysis Date: 7/27/2023		SeqNo: 1784904			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics	479	50.0	500.0	0	95.8	70	130				
Surr: 2-Fluorobiphenyl	10.5		10.00		105	50	150				
Surr: o-Terphenyl	11.0		10.00		110	50	150				

Work Order: 2308299
CLIENT: GeoEngineers
Project: 701 South Jackson

QC SUMMARY REPORT

Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Sample ID: OIL-CCV-41279A		SampType: CCV		Units: mg/Kg		Prep Date: 8/23/2023		RunNo: 86087			
Client ID: CCV		Batch ID: 41279				Analysis Date: 8/23/2023		SeqNo: 1796314			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Heavy Oil	498	100	500.0	0	99.7	85	115				
Surr: 2-Fluorobiphenyl	10.8		10.00		108	50	150				
Surr: o-Terphenyl	11.5		10.00		115	50	150				

Sample ID: DX-CCV-41279A		SampType: CCV		Units: mg/Kg		Prep Date: 8/23/2023		RunNo: 86087			
Client ID: CCV		Batch ID: 41279				Analysis Date: 8/23/2023		SeqNo: 1796315			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics	490	50.0	500.0	0	97.9	85	115				
Surr: 2-Fluorobiphenyl	11.2		10.00		112	50	150				
Surr: o-Terphenyl	13.4		10.00		134	50	150				

Sample ID: MB-41279		SampType: MBLK		Units: mg/Kg		Prep Date: 8/22/2023		RunNo: 86087			
Client ID: MBLKS		Batch ID: 41279				Analysis Date: 8/23/2023		SeqNo: 1796316			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics	ND	50.0									
Heavy Oil	ND	100									
Total Petroleum Hydrocarbons	ND	150									
Surr: 2-Fluorobiphenyl	11.0		10.00		110	50	150				
Surr: o-Terphenyl	11.2		10.00		112	50	150				

Sample ID: LCS-41279		SampType: LCS		Units: mg/Kg		Prep Date: 8/22/2023		RunNo: 86087			
Client ID: LCSS		Batch ID: 41279				Analysis Date: 8/23/2023		SeqNo: 1796317			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Petroleum Hydrocarbons	501	150	500.0	0	100	76.8	124				
Surr: 2-Fluorobiphenyl	10.5		10.00		105	50	150				
Surr: o-Terphenyl	12.8		10.00		128	50	150				

Work Order: 2308299
CLIENT: GeoEngineers
Project: 701 South Jackson

QC SUMMARY REPORT

Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Sample ID: 2308299-002ADUP		SampType: DUP		Units: mg/Kg-dry		Prep Date: 8/22/2023		RunNo: 86087			
Client ID: R3-WSW-S-88		Batch ID: 41279				Analysis Date: 8/23/2023		SeqNo: 1796323			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics	ND	61.6						0		30	
Heavy Oil	ND	123						0		30	
Total Petroleum Hydrocarbons	ND	185						0		30	
Surr: 2-Fluorobiphenyl	13.3		12.32		108	50	150		0		
Surr: o-Terphenyl	13.7		12.32		111	50	150		0		

Sample ID: 2308299-004AMS		SampType: MS		Units: mg/Kg-dry		Prep Date: 8/22/2023		RunNo: 86087			
Client ID: R3-WSW-N-88		Batch ID: 41279				Analysis Date: 8/23/2023		SeqNo: 1796325			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Petroleum Hydrocarbons	1,610	168	560.2	1,050	101	21.8	165				
Surr: 2-Fluorobiphenyl	10.5		11.20		93.3	50	150				
Surr: o-Terphenyl	14.5		11.20		129	50	150				

Sample ID: 2308299-004AMSD		SampType: MSD		Units: mg/Kg-dry		Prep Date: 8/22/2023		RunNo: 86087			
Client ID: R3-WSW-N-88		Batch ID: 41279				Analysis Date: 8/23/2023		SeqNo: 1796326			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Petroleum Hydrocarbons	1,240	169	561.9	1,050	34.0	21.8	165	1,614	26.1	30	
Surr: 2-Fluorobiphenyl	10.2		11.24		90.6	50	150		0		
Surr: o-Terphenyl	14.3		11.24		127	50	150		0		

Sample ID: OIL-CCV-41279B		SampType: CCV		Units: mg/Kg		Prep Date: 8/23/2023		RunNo: 86087			
Client ID: CCV		Batch ID: 41279				Analysis Date: 8/23/2023		SeqNo: 1796327			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Heavy Oil	498	100	500.0	0	99.6	85	115				
Surr: 2-Fluorobiphenyl	11.1		10.00		111	50	150				
Surr: o-Terphenyl	11.8		10.00		118	50	150				

Work Order: 2308299
CLIENT: GeoEngineers
Project: 701 South Jackson

QC SUMMARY REPORT

Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Sample ID: DX-CCV-41279B		SampType: CCV		Units: mg/Kg		Prep Date: 8/23/2023		RunNo: 86087			
Client ID: CCV		Batch ID: 41279				Analysis Date: 8/23/2023		SeqNo: 1796328			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics	494	50.0	500.0	0	98.8	85	115				
Surr: 2-Fluorobiphenyl	11.2		10.00		112	50	150				
Surr: o-Terphenyl	13.4		10.00		134	50	150				

Sample ID: OIL-CCV-41279C		SampType: CCV		Units: mg/Kg		Prep Date: 8/23/2023		RunNo: 86087			
Client ID: CCV		Batch ID: 41279				Analysis Date: 8/23/2023		SeqNo: 1796533			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Heavy Oil	491	100	500.0	0	98.2	85	115				
Surr: 2-Fluorobiphenyl	11.3		10.00		113	50	150				
Surr: o-Terphenyl	11.9		10.00		119	50	150				

Sample ID: DX-CCV-41279C		SampType: CCV		Units: mg/Kg		Prep Date: 8/23/2023		RunNo: 86087			
Client ID: CCV		Batch ID: 41279				Analysis Date: 8/23/2023		SeqNo: 1796534			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics	494	50.0	500.0	0	98.8	85	115				
Surr: 2-Fluorobiphenyl	10.1		10.00		101	50	150				
Surr: o-Terphenyl	13.7		10.00		137	50	150				

Sample ID: OIL-CCV-41279D		SampType: CCV		Units: mg/Kg		Prep Date: 8/23/2023		RunNo: 86087			
Client ID: CCV		Batch ID: 41279				Analysis Date: 8/23/2023		SeqNo: 1796915			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Heavy Oil	514	100	500.0	0	103	85	115				
Surr: 2-Fluorobiphenyl	11.3		10.00		113	50	150				
Surr: o-Terphenyl	11.9		10.00		119	50	150				

Work Order: 2308299
CLIENT: GeoEngineers
Project: 701 South Jackson

QC SUMMARY REPORT
Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Sample ID: DX-CCV-41279D	SampType: CCV	Units: mg/Kg	Prep Date: 8/23/2023	RunNo: 86087							
Client ID: CCV	Batch ID: 41279	Analysis Date: 8/23/2023	SeqNo: 1796916								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel Range Organics	493	50.0	500.0	0	98.6	85	115				
Surr: 2-Fluorobiphenyl	11.3		10.00		113	50	150				
Surr: o-Terphenyl	13.9		10.00		139	50	150				

Work Order: 2308299
CLIENT: GeoEngineers
Project: 701 South Jackson

QC SUMMARY REPORT

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Sample ID: PAH ICV	SampType: ICV	Units: µg/L			Prep Date: 8/15/2023	RunNo: 85940					
Client ID: ICV	Batch ID: 41284				Analysis Date: 8/15/2023	SeqNo: 1793530					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	1,030	20.0	1,000	0	103	70	130				
2-Methylnaphthalene	930	20.0	1,000	0	93.0	70	130				
1-Methylnaphthalene	958	20.0	1,000	0	95.8	70	130				
Acenaphthene	991	20.0	1,000	0	99.1	70	130				
Acenaphthylene	980	20.0	1,000	0	98.0	70	130				
Phenanthrene	965	20.0	1,000	0	96.5	70	130				
Fluorene	976	20.0	1,000	0	97.6	70	130				
Anthracene	943	20.0	1,000	0	94.3	70	130				
Fluoranthene	929	20.0	1,000	0	92.9	70	130				
Pyrene	955	40.0	1,000	0	95.5	70	130				
Benz(a)anthracene	934	20.0	1,000	0	93.4	70	130				
Chrysene	975	20.0	1,000	0	97.5	70	130				
Benzo(b)fluoranthene	922	25.0	1,000	0	92.2	70	130				
Benzo(k)fluoranthene	956	25.0	1,000	0	95.6	70	130				
Benzo(a)pyrene	994	30.0	1,000	0	99.4	70	130				
Indeno(1,2,3-cd)pyrene	960	40.0	1,000	0	96.0	70	130				
Dibenz(a,h)anthracene	952	50.0	1,000	0	95.2	70	130				
Benzo(g,h,i)perylene	925	50.0	1,000	0	92.5	70	130				
Surr: 2,4,6-Tribromophenol	1,010		1,000		101	14	136				
Surr: 2-Fluorobiphenyl	495		500.0		98.9	69.5	150				
Surr: Terphenyl-d14 (surr)	508		500.0		102	71.6	145				

Sample ID: PAH ICB	SampType: ICB	Units: µg/L			Prep Date: 8/15/2023	RunNo: 85940					
Client ID: ICB	Batch ID: 41284				Analysis Date: 8/15/2023	SeqNo: 1793531					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	ND	20.0									
2-Methylnaphthalene	ND	20.0									
1-Methylnaphthalene	ND	20.0									
Acenaphthene	ND	20.0									
Acenaphthylene	ND	20.0									

Work Order: 2308299
CLIENT: GeoEngineers
Project: 701 South Jackson

QC SUMMARY REPORT

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Sample ID: PAH ICB	SampType: ICB	Units: µg/L			Prep Date: 8/15/2023	RunNo: 85940					
Client ID: ICB	Batch ID: 41284				Analysis Date: 8/15/2023	SeqNo: 1793531					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenanthrene	ND	20.0									
Fluorene	ND	20.0									
Anthracene	ND	20.0									
Fluoranthene	ND	20.0									
Pyrene	ND	40.0									
Benz(a)anthracene	ND	20.0									
Chrysene	ND	20.0									
Benzo(b)fluoranthene	ND	25.0									
Benzo(k)fluoranthene	ND	25.0									
Benzo(a)pyrene	ND	30.0									
Indeno(1,2,3-cd)pyrene	ND	40.0									
Dibenz(a,h)anthracene	ND	50.0									
Benzo(g,h,i)perylene	ND	50.0									
Surr: 2,4,6-Tribromophenol	767		1,000		76.7	14	136				
Surr: 2-Fluorobiphenyl	387		500.0		77.4	50.4	142				
Surr: Terphenyl-d14 (surr)	393		500.0		78.5	48.8	157				

Sample ID: CCV-41284	SampType: CCV	Units: µg/L			Prep Date: 8/23/2023	RunNo: 86090					
Client ID: CCV	Batch ID: 41284				Analysis Date: 8/23/2023	SeqNo: 1796514					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	1,100	20.0	1,000	0	110	80	120				
2-Methylnaphthalene	940	20.0	1,000	0	94.0	80	120				
1-Methylnaphthalene	945	20.0	1,000	0	94.5	80	120				
Acenaphthene	1,010	20.0	1,000	0	101	80	120				
Acenaphthylene	964	20.0	1,000	0	96.4	80	120				
Phenanthrene	977	20.0	1,000	0	97.7	80	120				
Fluorene	1,020	20.0	1,000	0	102	80	120				
Anthracene	974	20.0	1,000	0	97.4	80	120				
Fluoranthene	994	20.0	1,000	0	99.4	80	120				
Pyrene	1,010	40.0	1,000	0	101	80	120				

Work Order: 2308299
CLIENT: GeoEngineers
Project: 701 South Jackson

QC SUMMARY REPORT

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Sample ID: CCV-41284	SampType: CCV	Units: µg/L			Prep Date: 8/23/2023	RunNo: 86090					
Client ID: CCV	Batch ID: 41284				Analysis Date: 8/23/2023	SeqNo: 1796514					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benz(a)anthracene	1,050	20.0	1,000	0	105	80	120				
Chrysene	958	20.0	1,000	0	95.8	80	120				
Benzo(b)fluoranthene	1,060	25.0	1,000	0	106	80	120				
Benzo(k)fluoranthene	1,020	25.0	1,000	0	102	80	120				
Benzo(a)pyrene	1,070	30.0	1,000	0	107	80	120				
Indeno(1,2,3-cd)pyrene	1,030	40.0	1,000	0	103	80	120				
Dibenz(a,h)anthracene	1,020	50.0	1,000	0	102	80	120				
Benzo(g,h,i)perylene	1,010	50.0	1,000	0	101	80	120				
Surr: 2-Fluorobiphenyl	486		500.0		97.3	69.5	150				
Surr: Terphenyl-d14 (surr)	557		500.0		111	71.6	145				

Sample ID: MB-41284	SampType: MBLK	Units: µg/Kg			Prep Date: 8/23/2023	RunNo: 86090					
Client ID: MBLKS	Batch ID: 41284				Analysis Date: 8/23/2023	SeqNo: 1796515					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	ND	20.0									
2-Methylnaphthalene	ND	20.0									
1-Methylnaphthalene	ND	20.0									
Acenaphthene	ND	20.0									
Acenaphthylene	ND	20.0									
Phenanthrene	ND	20.0									
Fluorene	ND	20.0									
Anthracene	ND	20.0									
Fluoranthene	ND	20.0									
Pyrene	ND	40.0									
Benzo(a)anthracene	ND	20.0									
Chrysene	ND	20.0									
Benzo(b)fluoranthene	ND	25.0									
Benzo(k)fluoranthene	ND	25.0									
Benzo(a)pyrene	ND	30.0									
Indeno(1,2,3-cd)pyrene	ND	40.0									

Work Order: 2308299
CLIENT: GeoEngineers
Project: 701 South Jackson

QC SUMMARY REPORT

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Sample ID: MB-41284	SampType: MBLK	Units: µg/Kg	Prep Date: 8/23/2023	RunNo: 86090							
Client ID: MBLKS	Batch ID: 41284		Analysis Date: 8/23/2023	SeqNo: 1796515							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dibenz(a,h)anthracene	ND	50.0									
Benzo(g,h,i)perylene	ND	50.0									
Surr: 2,4,6-Tribromophenol	2,300		2,000		115	27	142				
Surr: 2-Fluorobiphenyl	721		1,000		72.1	22.2	146				
Surr: Terphenyl-d14 (surr)	943		1,000		94.3	20.2	159				

Sample ID: LCS-41284	SampType: LCS	Units: µg/Kg	Prep Date: 8/23/2023	RunNo: 86090							
Client ID: LCSS	Batch ID: 41284		Analysis Date: 8/23/2023	SeqNo: 1796516							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	1,580	20.0	2,000	0	78.8	59.3	114				
2-Methylnaphthalene	1,410	20.0	2,000	0	70.3	55.5	115				
1-Methylnaphthalene	1,410	20.0	2,000	0	70.3	57.2	116				
Acenaphthene	1,460	20.0	2,000	0	73.1	56.6	114				
Acenaphthylene	1,500	20.0	2,000	0	75.2	58.2	120				
Phenanthrene	1,420	20.0	2,000	0	71.0	53.2	118				
Fluorene	1,500	20.0	2,000	0	75.2	57.7	117				
Anthracene	1,450	20.0	2,000	0	72.4	54.7	118				
Fluoranthene	1,510	20.0	2,000	0	75.3	56	120				
Pyrene	1,530	40.0	2,000	0	76.6	56.9	120				
Benz(a)anthracene	1,580	20.0	2,000	0	79.1	59.5	123				
Chrysene	1,500	20.0	2,000	0	75.0	51.5	115				
Benzo(b)fluoranthene	1,540	25.0	2,000	0	77.1	50	122				
Benzo(k)fluoranthene	1,600	25.0	2,000	0	80.1	51	117				
Benzo(a)pyrene	1,760	30.0	2,000	0	88.0	53.2	123				
Indeno(1,2,3-cd)pyrene	1,510	40.0	2,000	0	75.7	49.5	122				
Dibenz(a,h)anthracene	1,520	50.0	2,000	0	75.9	51	120				
Benzo(g,h,i)perylene	1,500	50.0	2,000	0	75.0	46.8	122				
Surr: 2,4,6-Tribromophenol	2,790		2,000		140	27	142				
Surr: 2-Fluorobiphenyl	895		1,000		89.5	22.2	146				
Surr: Terphenyl-d14 (surr)	1,030		1,000		103	20.2	159				

Work Order: 2308299
CLIENT: GeoEngineers
Project: 701 South Jackson

QC SUMMARY REPORT

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Sample ID: LCS-41284	SampType: LCS	Units: µg/Kg	Prep Date: 8/23/2023	RunNo: 86090							
Client ID: LCSS	Batch ID: 41284		Analysis Date: 8/23/2023	SeqNo: 1796516							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sample ID: 2308301-001AMS	SampType: MS	Units: µg/Kg-dry	Prep Date: 8/23/2023	RunNo: 86090							
Client ID: BATCH	Batch ID: 41284		Analysis Date: 8/23/2023	SeqNo: 1796995							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	2,760	24.7	2,467	941.9	73.8	48.9	121				
2-Methylnaphthalene	1,980	24.7	2,467	230.1	70.8	45.9	118				
1-Methylnaphthalene	1,940	24.7	2,467	158.2	72.2	48.5	121				
Acenaphthene	2,170	24.7	2,467	332.9	74.4	46	122				
Acenaphthylene	1,850	24.7	2,467	4.732	74.9	49.2	126				
Phenanthrene	2,660	24.7	2,467	679.3	80.3	40.5	126				
Fluorene	2,220	24.7	2,467	290.6	78.4	49	123				
Anthracene	1,930	24.7	2,467	67.97	75.4	46.3	124				
Fluoranthene	2,320	24.7	2,467	300.1	81.9	49.1	129				
Pyrene	2,200	49.3	2,467	182.3	81.9	48.8	130				
Benzo(a)anthracene	2,050	24.7	2,467	72.86	80.0	53.9	130				
Chrysene	1,930	24.7	2,467	76.14	75.2	41.2	126				
Benzo(b)fluoranthene	1,990	30.8	2,467	53.19	78.4	37.2	132				
Benzo(k)fluoranthene	1,990	30.8	2,467	14.48	80.2	32.8	131				
Benzo(a)pyrene	2,230	37.0	2,467	31.65	89.1	28.8	145				
Indeno(1,2,3-cd)pyrene	1,900	49.3	2,467	11.32	76.5	3.36	151				
Dibenz(a,h)anthracene	1,880	61.7	2,467	0	76.0	6.99	152				
Benzo(g,h,i)perylene	1,850	61.7	2,467	0	75.1	5.86	143				
Surr: 2,4,6-Tribromophenol	3,490		2,467		141	27	142				
Surr: 2-Fluorobiphenyl	1,110		1,234		89.7	22.2	146				
Surr: Terphenyl-d14 (surr)	1,290		1,234		105	20.2	159				

Work Order: 2308299
 CLIENT: GeoEngineers
 Project: 701 South Jackson

QC SUMMARY REPORT

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Sample ID: 2308301-001AMSD	SampType: MSD	Units: µg/Kg-dry				Prep Date: 8/23/2023	RunNo: 86090				
Client ID: BATCH	Batch ID: 41284					Analysis Date: 8/23/2023	SeqNo: 1796996				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	2,860	24.6	2,465	941.9	77.7	48.9	121	2,762	3.37	30	
2-Methylnaphthalene	1,920	24.6	2,465	230.1	68.6	45.9	118	1,976	2.79	30	
1-Methylnaphthalene	1,860	24.6	2,465	158.2	68.9	48.5	121	1,939	4.39	30	
Acenaphthene	2,090	24.6	2,465	332.9	71.4	46	122	2,170	3.58	30	
Acenaphthylene	1,770	24.6	2,465	4.732	71.6	49.2	126	1,854	4.60	30	
Phenanthrene	2,610	24.6	2,465	679.3	78.4	40.5	126	2,661	1.82	30	
Fluorene	2,150	24.6	2,465	290.6	75.5	49	123	2,224	3.36	30	
Anthracene	1,840	24.6	2,465	67.97	71.9	46.3	124	1,928	4.69	30	
Fluoranthene	2,330	24.6	2,465	300.1	82.3	49.1	129	2,321	0.325	30	
Pyrene	2,170	49.3	2,465	182.3	80.6	48.8	130	2,203	1.51	30	
Benz(a)anthracene	1,980	24.6	2,465	72.86	77.2	53.9	130	2,046	3.44	30	
Chrysene	1,850	24.6	2,465	76.14	72.0	41.2	126	1,932	4.23	30	
Benzo(b)fluoranthene	1,860	30.8	2,465	53.19	73.4	37.2	132	1,987	6.48	30	
Benzo(k)fluoranthene	1,910	30.8	2,465	14.48	76.8	32.8	131	1,993	4.36	30	
Benzo(a)pyrene	2,110	37.0	2,465	31.65	84.2	28.8	145	2,230	5.65	30	
Indeno(1,2,3-cd)pyrene	1,800	49.3	2,465	11.32	72.6	3.36	151	1,898	5.29	30	
Dibenz(a,h)anthracene	1,790	61.6	2,465	0	72.6	6.99	152	1,875	4.62	30	
Benzo(g,h,i)perylene	1,740	61.6	2,465	0	70.8	5.86	143	1,854	6.08	30	
Surr: 2,4,6-Tribromophenol	3,340		2,465		135	27	142		0		
Surr: 2-Fluorobiphenyl	1,040		1,232		84.5	22.2	146		0		
Surr: Terphenyl-d14 (surr)	1,230		1,232		99.5	20.2	159		0		

Sample ID: CCV-41284B	SampType: CCV	Units: µg/L				Prep Date: 8/23/2023	RunNo: 86090				
Client ID: CCV	Batch ID: 41284					Analysis Date: 8/23/2023	SeqNo: 1796994				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	1,100	20.0	1,000	0	110	80	120				
2-Methylnaphthalene	919	20.0	1,000	0	91.9	80	120				
1-Methylnaphthalene	924	20.0	1,000	0	92.4	80	120				
Acenaphthene	1,010	20.0	1,000	0	101	80	120				
Acenaphthylene	935	20.0	1,000	0	93.5	80	120				

Work Order: 2308299
CLIENT: GeoEngineers
Project: 701 South Jackson

QC SUMMARY REPORT

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Sample ID: CCV-41284B	SampType: CCV	Units: µg/L			Prep Date: 8/23/2023	RunNo: 86090					
Client ID: CCV	Batch ID: 41284				Analysis Date: 8/23/2023	SeqNo: 1796994					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenanthrene	965	20.0	1,000	0	96.5	80	120				
Fluorene	1,020	20.0	1,000	0	102	80	120				
Anthracene	965	20.0	1,000	0	96.5	80	120				
Fluoranthene	980	20.0	1,000	0	98.0	80	120				
Pyrene	993	40.0	1,000	0	99.3	80	120				
Benzo(a)anthracene	1,050	20.0	1,000	0	105	80	120				
Chrysene	955	20.0	1,000	0	95.5	80	120				
Benzo(b)fluoranthene	1,070	25.0	1,000	0	107	80	120				
Benzo(k)fluoranthene	1,040	25.0	1,000	0	104	80	120				
Benzo(a)pyrene	1,090	30.0	1,000	0	109	80	120				
Indeno(1,2,3-cd)pyrene	1,060	40.0	1,000	0	106	80	120				
Dibenz(a,h)anthracene	1,050	50.0	1,000	0	105	80	120				
Benzo(g,h,i)perylene	1,040	50.0	1,000	0	104	80	120				
Surr: 2,4,6-Tribromophenol	1,520		1,000		152	14	136				S
Surr: 2-Fluorobiphenyl	475		500.0		95.0	69.5	150				
Surr: Terphenyl-d14 (surr)	542		500.0		108	71.6	145				

NOTES:

S - Outlying surrogate recovery(ies) observed.

Work Order: 2308299
CLIENT: GeoEngineers
Project: 701 South Jackson

QC SUMMARY REPORT

Gasoline by NWTPH-Gx

Sample ID: ICB		SampType: ICB		Units: mg/Kg		Prep Date: 8/22/2023		RunNo: 86064			
Client ID: ICB		Batch ID: 41276				Analysis Date: 8/22/2023		SeqNo: 1795907			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	ND	5.00									
Surr: Toluene-d8	23.6		25.00		94.4	65	135				
Surr: 4-Bromofluorobenzene	25.8		25.00		103	65	135				

Sample ID: ICV		SampType: ICV		Units: mg/Kg		Prep Date: 8/22/2023		RunNo: 86064			
Client ID: ICV		Batch ID: 41276				Analysis Date: 8/22/2023		SeqNo: 1795906			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	525	5.00	500.0	0	105	80	120				
Surr: Toluene-d8	25.3		25.00		101	65	135				
Surr: 4-Bromofluorobenzene	24.5		25.00		98.0	65	135				

Sample ID: CCV-41276A		SampType: CCV		Units: mg/Kg		Prep Date: 8/23/2023		RunNo: 86089			
Client ID: CCV		Batch ID: 41276				Analysis Date: 8/23/2023		SeqNo: 1796411			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	434	5.00	500.0	0	86.8	80	120				
Surr: Toluene-d8	24.2		25.00		96.9	65	135				
Surr: 4-Bromofluorobenzene	25.1		25.00		100	65	135				

Sample ID: LCS-41276		SampType: LCS		Units: mg/Kg		Prep Date: 8/22/2023		RunNo: 86089			
Client ID: LCSS		Batch ID: 41276				Analysis Date: 8/23/2023		SeqNo: 1796414			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	21.7	5.00	25.00	0	86.8	65	135				
Surr: Toluene-d8	1.21		1.250		96.9	65	135				
Surr: 4-Bromofluorobenzene	1.25		1.250		100	65	135				

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QC SUMMARY REPORT

Gasoline by NWTPH-Gx

Sample ID: MB-41276	SampType: MBLK	Units: mg/Kg	Prep Date: 8/22/2023	RunNo: 86089							
Client ID: MBLKS	Batch ID: 41276		Analysis Date: 8/23/2023	SeqNo: 1796413							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline Range Organics	ND	5.00									
Surr: Toluene-d8	1.21		1.250		96.9	65	135				
Surr: 4-Bromofluorobenzene	1.11		1.250		89.1	65	135				

Sample ID: 2308233-002BDUP	SampType: DUP	Units: mg/Kg-dry	Prep Date: 8/22/2023	RunNo: 86089							
Client ID: BATCH	Batch ID: 41276		Analysis Date: 8/23/2023	SeqNo: 1796400							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline Range Organics	ND	4.58						0		30	
Surr: Toluene-d8	1.08		1.145		94.2	65	135		0		
Surr: 4-Bromofluorobenzene	1.18		1.145		103	65	135		0		

Sample ID: 2308263-002BDUP	SampType: DUP	Units: mg/Kg-dry	Prep Date: 8/22/2023	RunNo: 86089							
Client ID: BATCH	Batch ID: 41276		Analysis Date: 8/23/2023	SeqNo: 1796404							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline Range Organics	ND	5.72						0		30	
Surr: Toluene-d8	1.34		1.431		93.7	65	135		0		
Surr: 4-Bromofluorobenzene	1.49		1.431		104	65	135		0		

Sample ID: CCV-41276A	SampType: CCV	Units: mg/Kg	Prep Date: 8/23/2023	RunNo: 86089							
Client ID: CCV	Batch ID: 41276		Analysis Date: 8/23/2023	SeqNo: 1796412							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline Range Organics	453	5.00	500.0	0	90.5	80	120				
Surr: Toluene-d8	23.8		25.00		95.3	65	135				
Surr: 4-Bromofluorobenzene	25.0		25.00		99.9	65	135				

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QC SUMMARY REPORT

Gasoline by NWTPH-Gx

Sample ID: 2308263-001BMS	SampType: MS	Units: mg/Kg-dry	Prep Date: 8/22/2023	RunNo: 86089							
Client ID: BATCH	Batch ID: 41276		Analysis Date: 8/23/2023	SeqNo: 1796861							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline Range Organics	20.7	5.49	27.47	0	75.4	65	135				
Surr: Toluene-d8	1.33		1.373		96.5	65	135				
Surr: 4-Bromofluorobenzene	1.37		1.373		99.9	65	135				

Sample ID: CCV-41276B	SampType: CCV	Units: mg/Kg	Prep Date: 8/23/2023	RunNo: 86089							
Client ID: CCV	Batch ID: 41276		Analysis Date: 8/23/2023	SeqNo: 1796877							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline Range Organics	478	5.00	500.0	0	95.5	80	120				
Surr: Toluene-d8	23.7		25.00		95.0	65	135				
Surr: 4-Bromofluorobenzene	25.4		25.00		101	65	135				

Sample ID: CCV-41276C	SampType: CCV	Units: mg/Kg	Prep Date: 8/24/2023	RunNo: 86089							
Client ID: CCV	Batch ID: 41276		Analysis Date: 8/24/2023	SeqNo: 1797528							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline Range Organics	468	5.00	500.0	0	93.6	80	120				
Surr: Toluene-d8	23.5		25.00		93.9	65	135				
Surr: 4-Bromofluorobenzene	25.1		25.00		101	65	135				

Sample ID: CCV-41276D	SampType: CCV	Units: mg/Kg	Prep Date: 8/24/2023	RunNo: 86089							
Client ID: CCV	Batch ID: 41276		Analysis Date: 8/24/2023	SeqNo: 1797530							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline Range Organics	527	5.00	500.0	0	105	80	120				
Surr: Toluene-d8	23.1		25.00		92.4	65	135				
Surr: 4-Bromofluorobenzene	25.2		25.00		101	65	135				

Work Order: 2308299
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Project: 701 South Jackson

QC SUMMARY REPORT
Gasoline by NWTPH-Gx

Sample ID: CCV-41276E	SampType: CCV	Units: mg/Kg	Prep Date: 8/24/2023	RunNo: 86089							
Client ID: CCV	Batch ID: 41276		Analysis Date: 8/24/2023	SeqNo: 1797529							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline Range Organics	448	5.00	500.0	0	89.6	80	120				
Surr: Toluene-d8	22.9		25.00		91.6	65	135				
Surr: 4-Bromofluorobenzene	26.0		25.00		104	65	135				

Work Order: 2308299
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Project: 701 South Jackson

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260D

Sample ID: ICB		SampType: ICB		Units: µg/L		Prep Date: 8/21/2023		RunNo: 86065			
Client ID: ICB		Batch ID: 41276				Analysis Date: 8/21/2023		SeqNo: 1795823			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	0.0223	0.0175									
Toluene	ND	0.0300									
Ethylbenzene	0.0458	0.0250									
m,p-Xylene	ND	0.0500									
o-Xylene	0.0370	0.0250									
Surr: Dibromofluoromethane	24.7		25.00		98.7	80	120				
Surr: Toluene-d8	24.7		25.00		98.9	80	120				
Surr: 1-Bromo-4-fluorobenzene	27.7		25.00		111	80	120				

Sample ID: VOC S ICB		SampType: ICV		Units: µg/L		Prep Date: 8/22/2023		RunNo: 86065			
Client ID: ICV		Batch ID: 41276				Analysis Date: 8/22/2023		SeqNo: 1795850			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	20.1	0.0175	20.00	0	101	70	130				
Toluene	20.1	0.0300	20.00	0	100	70	130				
Ethylbenzene	19.1	0.0250	20.00	0	95.5	70	130				
m,p-Xylene	40.4	0.0500	40.00	0	101	70	130				
o-Xylene	19.3	0.0250	20.00	0	96.7	70	130				
Surr: Dibromofluoromethane	24.7		25.00		98.8	80	120				
Surr: Toluene-d8	25.4		25.00		102	80	120				
Surr: 1-Bromo-4-fluorobenzene	22.5		25.00		90.1	80	120				

Sample ID: CCV-41276A		SampType: CCV		Units: µg/L		Prep Date: 8/23/2023		RunNo: 86084			
Client ID: CCV		Batch ID: 41276				Analysis Date: 8/23/2023		SeqNo: 1796280			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	19.9	0.0175	20.00	0	99.5	80	120				
Toluene	20.1	0.0300	20.00	0	101	80	120				
Ethylbenzene	19.0	0.0250	20.00	0	94.8	80	120				
m,p-Xylene	40.2	0.0500	40.00	0	100	80	120				
o-Xylene	19.1	0.0250	20.00	0	95.4	80	120				

Work Order: 2308299
CLIENT: GeoEngineers
Project: 701 South Jackson

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260D

Sample ID: CCV-41276A		SampType: CCV		Units: µg/L		Prep Date: 8/23/2023		RunNo: 86084			
Client ID: CCV		Batch ID: 41276				Analysis Date: 8/23/2023		SeqNo: 1796280			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	24.9		25.00		99.6	80	120				
Surr: Toluene-d8	24.9		25.00		99.8	80	120				
Surr: 1-Bromo-4-fluorobenzene	25.7		25.00		103	80	120				

Sample ID: LCS-41276		SampType: LCS		Units: µg/L		Prep Date: 8/22/2023		RunNo: 86084			
Client ID: LCSS		Batch ID: 41276				Analysis Date: 8/23/2023		SeqNo: 1796295			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	0.995	0.0175	1.000	0	99.5	80	120				
Toluene	1.01	0.0300	1.000	0	101	80	120				
Ethylbenzene	0.948	0.0250	1.000	0	94.8	80	120				
m,p-Xylene	2.01	0.0500	2.000	0	100	80	120				
o-Xylene	0.954	0.0250	1.000	0	95.4	80	120				
Surr: Dibromofluoromethane	1.24		1.250		99.6	79.5	124				
Surr: Toluene-d8	1.25		1.250		99.8	77.5	124				
Surr: 1-Bromo-4-fluorobenzene	1.28		1.250		103	60.5	139				

Sample ID: MB-41276		SampType: MBLK		Units: mg/Kg		Prep Date: 8/22/2023		RunNo: 86084			
Client ID: MBLKS		Batch ID: 41276				Analysis Date: 8/23/2023		SeqNo: 1796294			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.0175									
Toluene	ND	0.0300									
Ethylbenzene	ND	0.0250									
m,p-Xylene	ND	0.0500									
o-Xylene	ND	0.0250									
Surr: Dibromofluoromethane	1.26		1.250		101	79.5	124				
Surr: Toluene-d8	1.27		1.250		102	77.5	124				
Surr: 1-Bromo-4-fluorobenzene	1.19		1.250		94.9	60.5	139				

Work Order: 2308299
CLIENT: GeoEngineers
Project: 701 South Jackson

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260D

Sample ID: 2308233-002BDUP		SampType: DUP		Units: mg/Kg-dry		Prep Date: 8/22/2023		RunNo: 86084			
Client ID: BATCH		Batch ID: 41276				Analysis Date: 8/23/2023		SeqNo: 1796283			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.0160						0		30	
Toluene	ND	0.0275						0		30	
Ethylbenzene	ND	0.0229						0		30	
m,p-Xylene	ND	0.0458						0		30	
o-Xylene	ND	0.0229						0		30	
Surr: Dibromofluoromethane	1.24		1.145		108	79.5	124		0		
Surr: Toluene-d8	1.18		1.145		103	77.5	124		0		
Surr: 1-Bromo-4-fluorobenzene	1.26		1.145		110	60.5	139		0		

Sample ID: 2308263-002BDUP		SampType: DUP		Units: mg/Kg-dry		Prep Date: 8/22/2023		RunNo: 86084			
Client ID: BATCH		Batch ID: 41276				Analysis Date: 8/23/2023		SeqNo: 1796287			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.0200						0		30	
Toluene	ND	0.0343						0		30	
Ethylbenzene	ND	0.0286						0		30	
m,p-Xylene	ND	0.0572						0		30	
o-Xylene	ND	0.0286						0		30	
Surr: Dibromofluoromethane	1.50		1.431		105	79.5	124		0		
Surr: Toluene-d8	1.48		1.431		104	77.5	124		0		
Surr: 1-Bromo-4-fluorobenzene	1.59		1.431		111	60.5	139		0		

Sample ID: CCV-41276B		SampType: CCV		Units: µg/L		Prep Date: 8/23/2023		RunNo: 86084			
Client ID: CCV		Batch ID: 41276				Analysis Date: 8/23/2023		SeqNo: 1796851			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	20.0	0.0175	20.00	0	99.9	80	120				
Toluene	20.3	0.0300	20.00	0	101	80	120				
Ethylbenzene	18.3	0.0250	20.00	0	91.6	80	120				
m,p-Xylene	39.0	0.0500	40.00	0	97.5	80	120				
o-Xylene	18.6	0.0250	20.00	0	93.1	80	120				

Work Order: 2308299
CLIENT: GeoEngineers
Project: 701 South Jackson

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: CCV-41276B		SampType: CCV		Units: µg/L		Prep Date: 8/23/2023		RunNo: 86084			
Client ID: CCV		Batch ID: 41276				Analysis Date: 8/23/2023		SeqNo: 1796851			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	25.4		25.00		101	80	120				
Surr: Toluene-d8	25.7		25.00		103	80	120				
Surr: 1-Bromo-4-fluorobenzene	26.4		25.00		106	80	120				

Sample ID: 2308233-001BMS		SampType: MS		Units: mg/Kg-dry		Prep Date: 8/22/2023		RunNo: 86084			
Client ID: BATCH		Batch ID: 41276				Analysis Date: 8/23/2023		SeqNo: 1796853			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	0.854	0.0157	0.8950	0	95.4	52.3	147				
Toluene	0.858	0.0268	0.8950	0	95.8	50.1	147				
Ethylbenzene	0.763	0.0224	0.8950	0	85.3	51.7	143				
m,p-Xylene	1.60	0.0447	1.790	0	89.5	54.5	144				
o-Xylene	0.765	0.0224	0.8950	0	85.4	57.1	141				
Surr: Dibromofluoromethane	1.18		1.119		105	79.5	124				
Surr: Toluene-d8	1.18		1.119		106	77.5	124				
Surr: 1-Bromo-4-fluorobenzene	1.17		1.119		105	60.5	139				

Sample ID: CCV-41276C		SampType: CCV		Units: µg/L		Prep Date: 8/24/2023		RunNo: 86084			
Client ID: CCV		Batch ID: 41276				Analysis Date: 8/24/2023		SeqNo: 1797415			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	23.7	0.0175	20.00	0	118	80	120				
Toluene	25.0	0.0300	20.00	0	125	80	120				S
Ethylbenzene	19.0	0.0250	20.00	0	95.1	80	120				
m,p-Xylene	40.6	0.0500	40.00	0	102	80	120				
o-Xylene	19.2	0.0250	20.00	0	95.8	80	120				
Surr: Dibromofluoromethane	25.9		25.00		104	80	120				
Surr: Toluene-d8	28.7		25.00		115	80	120				
Surr: 1-Bromo-4-fluorobenzene	25.9		25.00		104	80	120				

NOTES:

S - Outlying spike recovery observed (high bias). Detections will be qualified with a Q.

Client Name: GEI	Work Order Number: 2308299
Logged by: Matt Langston	Date Received: 8/22/2023 1:50:00 PM

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
2. How was the sample delivered? Client

Log In

3. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes No Not Present
4. Was an attempt made to cool the samples? Yes No NA
5. Were all items received at a temperature of >2°C to 6°C * Yes No NA
6. Sample(s) in proper container(s)? Yes No
7. Sufficient sample volume for indicated test(s)? Yes No
8. Are samples properly preserved? Yes No
9. Was preservative added to bottles? Yes No NA
10. Is there headspace in the VOA vials? Yes No NA
11. Did all samples containers arrive in good condition(unbroken)? Yes No
12. Does paperwork match bottle labels? Yes No
13. Are matrices correctly identified on Chain of Custody? Yes No
14. Is it clear what analyses were requested? Yes No
15. Were all hold times (except field parameters, pH e.g.) able to be met? Yes No

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

17. Additional remarks:

Item Information

Item #	Temp °C
Sample	5.7

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C



Fremont
ANALYTICAL
AN ALLIED TECHNICAL SERVICE COMPANY

3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790

Chain of Custody Record & Laboratory Services Agreement

Date: 8/22/23 Page: 1 of 1
Project Name: 701 South Jackson
Project No: 24504-001-03
Collected by: Robert Trehon
Location: Seattle
Report to (PM): Robert Trehon

Laboratory Project No (Internal): 1308299
Special Remarks: Low 1 203 Data Package

Disposal: Samples will be disposed in 30 days unless otherwise requested.
 Retain volume (specify above) Return to client

Client: Fred Engineers
Address: 2101 4th Ave
City, State, Zip: Seattle WA 98121
Telephone: 206-720-2674
Email: rtrahan@fredengineers.com

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	# of Cont.	Analytes										Comments		
					VOCs (EPA 8260 / 624)	BTX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (DX)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T) Dissolved (D)		Anions (IC)**	EDB (8011)
1 R3-NW-SW-00	8/22	7:40	S	3	X	X	X	X	X	X	X	X	X	X	X	X	
2 R3-SW-SW-00		7:50	S	1	X	X	X	X	X	X	X	X	X	X	X	X	
3 R3-NW-SW-00		12:45	S	1	X	X	X	X	X	X	X	X	X	X	X	X	
4 R3-NW-SW-00		12:50	S	1	X	X	X	X	X	X	X	X	X	X	X	X	
5 EX-02-00		2:05	S	1													HOLD
6																	
7																	
8																	
9																	
10																	

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water

**Metals (Circle): MICA-5 RCRA-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Tl V Zn

***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished (Signature) Print Name Robert Trehon Date/Time 8/22/23 1344

Received (Signature) Print Name Robert Trehon Date/Time 8/22/23 1344



3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790

Chain of Custody Record & Laboratory Services Agreement

Date: 8/22/23 Page: 1 of 1
Project Name: 701 South Jackson
Project No: 24504-001-03
Collected by: Robert Trahan
Location: Seattle
Report To (PM): Robert Trahan

Laboratory Project No (internal): 2308299
Special Remarks: Level 2B Data Package
Disposal: Samples will be disposed in 30 days unless otherwise requested.
 Retain volume (specify above) Return to client

Client: GeoEngineers
Address: 2101 4th Ave
City, State, Zip: Seattle WA 98121
Telephone: 206-720-2674
Email(s): rtrahan@geoengineers.com

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	# of Cont.	Analytes												Comments		
					VOCs (EPA 8260 / 624)	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T) Dissolved (D)	Anions (IC)***	EOB (8011)	Asphthalenes			
1 R3-NSW-E-88	8/22	7:40	S	3	X	X	X											X	
2 R3-WSW-S-88	8/22	7:50	S	1	X	X	X											X	
3 R3-ESW-N-88	8/22	12:45	S	1	X	X	X											X	
4 R3-WSW-N-88	8/22	12:50	S	1	X	X	X											X	
5 EX-02-20	8/22	2:05	S	1		X	X	X	X	X									3-day TAT
6																			
7																			
8																			
9																			
10																			

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water
 **Metals (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Ti Tl V Zn
 ***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite
 Turn-around Time:
 Standard Next Day
 3 Day Same Day
 2 Day (specify)

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished (Signature) x	Print Name Robert Trahan	Date/Time 8/22 13:40	Received (Signature) x	Print Name [Name]	Date/Time 8/22/23 1344
Relinquished (Signature) x	Print Name	Date/Time	Received (Signature) x	Print Name	Date/Time



3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790

Chain of Custody Record & Laboratory Services Agreement

Date: 8/22/23 Page: 1 of 1
 Project Name: 701 South Jackson
 Project No: 24504-001-03
 Collected by: Robert Trahan
 Location: Seattle
 Report To (PM): Robert Trahan

Laboratory Project No (internal): 2308299
 Special Remarks:
 Level 2B Data Package
 Updated per RT 8/22/2023 BB
 Updated per RT 11/20/2023 LR
 Disposal: Samples will be disposed in 30 days unless otherwise requested.
 Retain volume (specify above) Return to client

Client: GeoEngineers
 Address: 2101 4th Ave
 City, State, Zip: Seattle WA 98121
 Telephone: 206-720-2674
 Email(s): rtrahan@geoengineers.com

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	# of Cont.	Analytes											Comments							
					VOCs (EPA 8260 / 624)	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T) Dissolved (D)	Anions (IC)**	EOB (8011)		Asphthalenes						
R3-NSW-E-88	8/22	7:40	S	3	X	X	X																R3-NSW-W-88
R3-WSW-S-88	8/22	7:50	S	1	X	X	X																
R3-ESW-N-88	8/22	12:45	S	1	X	X	X																
R3-WSW-N-88	8/22	12:50	S	1	X	X	X																
EX-02-20	8/22	2:05	S	1	X	X	X	X	X														3-day TAT

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water

**Metals (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Ti Tl V Zn

***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite

Turn-around Time:
 Standard Next Day
 3 Day Same Day
 2 Day (specify)

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished (Signature) x	Print Name Robert Trahan	Date/Time 8/22 13:40	Received (Signature) x	Print Name [Signature]	Date/Time 8/22/23 1344
Relinquished (Signature) x	Print Name	Date/Time	Received (Signature) x	Print Name	Date/Time



3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

GeoEngineers

Robert Trahan
2101 4th Ave, Suite 950
Seattle, WA 98121

RE: 701 South Jackson
Work Order Number: 2308316

August 28, 2023

Attention Robert Trahan:

Fremont Analytical, Inc. received 4 sample(s) on 8/23/2023 for the analyses presented in the following report.

Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.
Gasoline by NWTPH-Gx
Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)
Sample Moisture (Percent Moisture)
Total Metals by EPA Method 6020B
Volatile Organic Compounds by EPA Method 8260D

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager

DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.3 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910

Revision v1

www.fremontanalytical.com

CLIENT: GeoEngineers
Project: 701 South Jackson
Work Order: 2308316

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2308316-001	R3-SSW-E-88	08/23/2023 12:00 PM	08/23/2023 2:45 PM
2308316-002	R3-SSW-W-88	08/23/2023 11:00 AM	08/23/2023 2:45 PM
2308316-003	EX-03-91	08/23/2023 11:10 AM	08/23/2023 2:45 PM
2308316-004	R3-DUP-01	08/23/2023 12:00 AM	08/23/2023 2:45 PM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: GeoEngineers
Project: 701 South Jackson

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

8/29/2023: Revision 1 includes level 2B data.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Analytical Report

Work Order: 2308316
Date Reported: 8/28/2023

Client: GeoEngineers

Collection Date: 8/23/2023 12:00:00 PM

Project: 701 South Jackson

Lab ID: 2308316-001

Matrix: Soil

Client Sample ID: R3-SSW-E-88

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Batch ID: 41298 Analyst: SK

Diesel Range Organics	ND	50.6		mg/Kg-dry	1	8/24/2023 12:50:01 PM
Heavy Oil	ND	101		mg/Kg-dry	1	8/24/2023 12:50:01 PM
Total Petroleum Hydrocarbons	ND	152		mg/Kg-dry	1	8/24/2023 12:50:01 PM
Surr: 2-Fluorobiphenyl	124	50 - 150		%Rec	1	8/24/2023 12:50:01 PM
Surr: o-Terphenyl	127	50 - 150		%Rec	1	8/24/2023 12:50:01 PM

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Batch ID: 41297 Analyst: SH

Naphthalene	ND	19.6		µg/Kg-dry	1	8/24/2023 12:12:53 PM
2-Methylnaphthalene	ND	19.6		µg/Kg-dry	1	8/24/2023 12:12:53 PM
1-Methylnaphthalene	ND	19.6		µg/Kg-dry	1	8/24/2023 12:12:53 PM
Surr: 2-Fluorobiphenyl	91.7	22.2 - 146		%Rec	1	8/24/2023 12:12:53 PM
Surr: Terphenyl-d14 (surr)	110	20.2 - 159		%Rec	1	8/24/2023 12:12:53 PM

Gasoline by NWTPH-Gx

Batch ID: 41291 Analyst: CC

Gasoline Range Organics	ND	5.43		mg/Kg-dry	1	8/25/2023 12:44:58 AM
Surr: Toluene-d8	87.3	65 - 135		%Rec	1	8/25/2023 12:44:58 AM
Surr: 4-Bromofluorobenzene	107	65 - 135		%Rec	1	8/25/2023 12:44:58 AM

Volatile Organic Compounds by EPA Method 8260D

Batch ID: 41291 Analyst: CC

Benzene	ND	0.0190		mg/Kg-dry	1	8/25/2023 12:44:58 AM
Toluene	ND	0.0326		mg/Kg-dry	1	8/25/2023 12:44:58 AM
Ethylbenzene	ND	0.0271		mg/Kg-dry	1	8/25/2023 12:44:58 AM
m,p-Xylene	ND	0.0543		mg/Kg-dry	1	8/25/2023 12:44:58 AM
o-Xylene	ND	0.0271		mg/Kg-dry	1	8/25/2023 12:44:58 AM
Surr: Dibromofluoromethane	109	79.5 - 124		%Rec	1	8/25/2023 12:44:58 AM
Surr: Toluene-d8	118	77.5 - 124		%Rec	1	8/25/2023 12:44:58 AM
Surr: 1-Bromo-4-fluorobenzene	114	60.5 - 139		%Rec	1	8/25/2023 12:44:58 AM

Sample Moisture (Percent Moisture)

Batch ID: R86104 Analyst: MP

Percent Moisture	4.91	0.500		wt%	1	8/24/2023 8:59:49 AM
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Analytical Report

Work Order: 2308316
Date Reported: 8/28/2023

Client: GeoEngineers

Collection Date: 8/23/2023 11:00:00 AM

Project: 701 South Jackson

Lab ID: 2308316-002

Matrix: Soil

Client Sample ID: R3-SSW-W-88

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Batch ID: 41279 Analyst: SK

Diesel Range Organics	ND	45.5		mg/Kg-dry	1	8/23/2023 4:32:48 PM
Heavy Oil	ND	90.9		mg/Kg-dry	1	8/23/2023 4:32:48 PM
Total Petroleum Hydrocarbons	ND	136		mg/Kg-dry	1	8/23/2023 4:32:48 PM
Surr: 2-Fluorobiphenyl	126	50 - 150		%Rec	1	8/23/2023 4:32:48 PM
Surr: o-Terphenyl	128	50 - 150		%Rec	1	8/23/2023 4:32:48 PM

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Batch ID: 41297 Analyst: SH

Naphthalene	ND	20.4		µg/Kg-dry	1	8/24/2023 11:44:34 AM
2-Methylnaphthalene	ND	20.4		µg/Kg-dry	1	8/24/2023 11:44:34 AM
1-Methylnaphthalene	ND	20.4		µg/Kg-dry	1	8/24/2023 11:44:34 AM
Surr: 2-Fluorobiphenyl	94.8	22.2 - 146		%Rec	1	8/24/2023 11:44:34 AM
Surr: Terphenyl-d14 (surr)	114	20.2 - 159		%Rec	1	8/24/2023 11:44:34 AM

Gasoline by NWTPH-Gx

Batch ID: 41291 Analyst: CC

Gasoline Range Organics	ND	5.48		mg/Kg-dry	1	8/24/2023 9:23:08 AM
Surr: Toluene-d8	90.1	65 - 135		%Rec	1	8/24/2023 9:23:08 AM
Surr: 4-Bromofluorobenzene	107	65 - 135		%Rec	1	8/24/2023 9:23:08 AM

Volatile Organic Compounds by EPA Method 8260D

Batch ID: 41291 Analyst: CC

Benzene	ND	0.0192		mg/Kg-dry	1	8/24/2023 9:23:08 AM
Toluene	ND	0.0329		mg/Kg-dry	1	8/24/2023 9:23:08 AM
Ethylbenzene	ND	0.0274		mg/Kg-dry	1	8/24/2023 9:23:08 AM
m,p-Xylene	ND	0.0548		mg/Kg-dry	1	8/24/2023 9:23:08 AM
o-Xylene	ND	0.0274		mg/Kg-dry	1	8/24/2023 9:23:08 AM
Surr: Dibromofluoromethane	110	79.5 - 124		%Rec	1	8/24/2023 9:23:08 AM
Surr: Toluene-d8	110	77.5 - 124		%Rec	1	8/24/2023 9:23:08 AM
Surr: 1-Bromo-4-fluorobenzene	114	60.5 - 139		%Rec	1	8/24/2023 9:23:08 AM

Sample Moisture (Percent Moisture)

Batch ID: R86104 Analyst: MP

Percent Moisture	4.52	0.500		wt%	1	8/24/2023 8:59:49 AM
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Analytical Report

Work Order: 2308316
Date Reported: 8/28/2023

Client: GeoEngineers

Collection Date: 8/23/2023 11:10:00 AM

Project: 701 South Jackson

Lab ID: 2308316-003

Matrix: Soil

Client Sample ID: EX-03-91

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Batch ID: 41298 Analyst: SK

Diesel Range Organics	ND	50.9		mg/Kg-dry	1	8/24/2023 12:06:01 PM
Heavy Oil	ND	102		mg/Kg-dry	1	8/24/2023 12:06:01 PM
Total Petroleum Hydrocarbons	ND	153		mg/Kg-dry	1	8/24/2023 12:06:01 PM
Surr: 2-Fluorobiphenyl	110	50 - 150		%Rec	1	8/24/2023 12:06:01 PM
Surr: o-Terphenyl	113	50 - 150		%Rec	1	8/24/2023 12:06:01 PM

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Batch ID: 41297 Analyst: SH

Naphthalene	ND	21.1		µg/Kg-dry	1	8/24/2023 1:37:37 PM
2-Methylnaphthalene	ND	21.1		µg/Kg-dry	1	8/24/2023 1:37:37 PM
1-Methylnaphthalene	ND	21.1		µg/Kg-dry	1	8/24/2023 1:37:37 PM
Acenaphthylene	ND	21.1		µg/Kg-dry	1	8/24/2023 1:37:37 PM
Acenaphthene	ND	21.1		µg/Kg-dry	1	8/24/2023 1:37:37 PM
Fluorene	ND	21.1		µg/Kg-dry	1	8/24/2023 1:37:37 PM
Phenanthrene	ND	21.1		µg/Kg-dry	1	8/24/2023 1:37:37 PM
Anthracene	ND	21.1		µg/Kg-dry	1	8/24/2023 1:37:37 PM
Fluoranthene	ND	21.1		µg/Kg-dry	1	8/24/2023 1:37:37 PM
Pyrene	ND	42.2		µg/Kg-dry	1	8/24/2023 1:37:37 PM
Benz(a)anthracene	ND	21.1		µg/Kg-dry	1	8/24/2023 1:37:37 PM
Chrysene	ND	21.1		µg/Kg-dry	1	8/24/2023 1:37:37 PM
Benzo(b)fluoranthene	ND	26.4		µg/Kg-dry	1	8/24/2023 1:37:37 PM
Benzo(k)fluoranthene	ND	26.4		µg/Kg-dry	1	8/24/2023 1:37:37 PM
Benzo(a)pyrene	ND	31.6		µg/Kg-dry	1	8/24/2023 1:37:37 PM
Indeno(1,2,3-cd)pyrene	ND	42.2		µg/Kg-dry	1	8/24/2023 1:37:37 PM
Dibenz(a,h)anthracene	ND	52.7		µg/Kg-dry	1	8/24/2023 1:37:37 PM
Benzo(g,h,i)perylene	ND	52.7		µg/Kg-dry	1	8/24/2023 1:37:37 PM
Surr: 2-Fluorobiphenyl	95.3	22.2 - 146		%Rec	1	8/24/2023 1:37:37 PM
Surr: Terphenyl-d14 (surr)	116	20.2 - 159		%Rec	1	8/24/2023 1:37:37 PM

Gasoline by NWTPH-Gx

Batch ID: 41291 Analyst: CC

Gasoline Range Organics	ND	4.82		mg/Kg-dry	1	8/25/2023 1:15:08 AM
Surr: Toluene-d8	87.6	65 - 135		%Rec	1	8/25/2023 1:15:08 AM
Surr: 4-Bromofluorobenzene	106	65 - 135		%Rec	1	8/25/2023 1:15:08 AM

Volatile Organic Compounds by EPA Method 8260D

Batch ID: 41291 Analyst: CC

Benzene	ND	0.0169		mg/Kg-dry	1	8/25/2023 1:15:08 AM
Toluene	ND	0.0289		mg/Kg-dry	1	8/25/2023 1:15:08 AM



Analytical Report

Work Order: 2308316
Date Reported: 8/28/2023

Client: GeoEngineers

Collection Date: 8/23/2023 11:10:00 AM

Project: 701 South Jackson

Lab ID: 2308316-003

Matrix: Soil

Client Sample ID: EX-03-91

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 41291 Analyst: CC

Ethylbenzene	ND	0.0241		mg/Kg-dry	1	8/25/2023 1:15:08 AM
m,p-Xylene	ND	0.0482		mg/Kg-dry	1	8/25/2023 1:15:08 AM
o-Xylene	ND	0.0241		mg/Kg-dry	1	8/25/2023 1:15:08 AM
Surr: Dibromofluoromethane	111	79.5 - 124		%Rec	1	8/25/2023 1:15:08 AM
Surr: Toluene-d8	116	77.5 - 124		%Rec	1	8/25/2023 1:15:08 AM
Surr: 1-Bromo-4-fluorobenzene	113	60.5 - 139		%Rec	1	8/25/2023 1:15:08 AM

Total Metals by EPA Method 6020B

Batch ID: 41299 Analyst: SLL

Arsenic	1.83	0.214		mg/Kg-dry	1	8/24/2023 3:30:00 PM
Cadmium	0.0762	0.0171		mg/Kg-dry	1	8/24/2023 3:30:00 PM
Chromium	21.2	0.214		mg/Kg-dry	1	8/24/2023 3:30:00 PM
Lead	2.37	0.856		mg/Kg-dry	1	8/24/2023 3:30:00 PM
Mercury	ND	0.171		mg/Kg-dry	1	8/24/2023 3:30:00 PM

Sample Moisture (Percent Moisture)

Batch ID: R86104 Analyst: MP

Percent Moisture	8.73	0.500		wt%	1	8/24/2023 8:59:49 AM
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Analytical Report

Work Order: 2308316
Date Reported: 8/28/2023

Client: GeoEngineers

Collection Date: 8/23/2023

Project: 701 South Jackson

Lab ID: 2308316-004

Matrix: Soil

Client Sample ID: R3-DUP-01

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Batch ID: 41298 Analyst: SK

Diesel Range Organics	ND	50.8		mg/Kg-dry	1	8/24/2023 12:38:54 PM
Heavy Oil	ND	102		mg/Kg-dry	1	8/24/2023 12:38:54 PM
Total Petroleum Hydrocarbons	ND	152		mg/Kg-dry	1	8/24/2023 12:38:54 PM
Surr: 2-Fluorobiphenyl	121	50 - 150		%Rec	1	8/24/2023 12:38:54 PM
Surr: o-Terphenyl	125	50 - 150		%Rec	1	8/24/2023 12:38:54 PM

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Batch ID: 41297 Analyst: SH

Naphthalene	ND	19.5		µg/Kg-dry	1	8/24/2023 2:05:46 PM
2-Methylnaphthalene	ND	19.5		µg/Kg-dry	1	8/24/2023 2:05:46 PM
1-Methylnaphthalene	ND	19.5		µg/Kg-dry	1	8/24/2023 2:05:46 PM
Surr: 2-Fluorobiphenyl	101	22.2 - 146		%Rec	1	8/24/2023 2:05:46 PM
Surr: Terphenyl-d14 (surr)	125	20.2 - 159		%Rec	1	8/24/2023 2:05:46 PM

Gasoline by NWTPH-Gx

Batch ID: 41291 Analyst: CC

Gasoline Range Organics	ND	5.51		mg/Kg-dry	1	8/25/2023 1:45:17 AM
Surr: Toluene-d8	87.2	65 - 135		%Rec	1	8/25/2023 1:45:17 AM
Surr: 4-Bromofluorobenzene	107	65 - 135		%Rec	1	8/25/2023 1:45:17 AM

Volatile Organic Compounds by EPA Method 8260D

Batch ID: 41291 Analyst: CC

Benzene	ND	0.0193		mg/Kg-dry	1	8/25/2023 1:45:17 AM
Toluene	ND	0.0330		mg/Kg-dry	1	8/25/2023 1:45:17 AM
Ethylbenzene	ND	0.0275		mg/Kg-dry	1	8/25/2023 1:45:17 AM
m,p-Xylene	ND	0.0551		mg/Kg-dry	1	8/25/2023 1:45:17 AM
o-Xylene	ND	0.0275		mg/Kg-dry	1	8/25/2023 1:45:17 AM
Surr: Dibromofluoromethane	110	79.5 - 124		%Rec	1	8/25/2023 1:45:17 AM
Surr: Toluene-d8	116	77.5 - 124		%Rec	1	8/25/2023 1:45:17 AM
Surr: 1-Bromo-4-fluorobenzene	114	60.5 - 139		%Rec	1	8/25/2023 1:45:17 AM

Sample Moisture (Percent Moisture)

Batch ID: R86104 Analyst: MP

Percent Moisture	4.92	0.500		wt%	1	8/24/2023 8:59:49 AM
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Work Order: 2308316
CLIENT: GeoEngineers
Project: 701 South Jackson

QC SUMMARY REPORT
Total Metals by EPA Method 6020B

Sample ID: ICB	SampType: ICB	Units: µg/L	Prep Date: 8/24/2023	RunNo: 86122							
Client ID: ICB	Batch ID: 41299		Analysis Date: 8/24/2023	SeqNo: 1797180							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.250
Cadmium	ND	0.0200
Chromium	ND	0.250
Lead	ND	1.00
Mercury	ND	0.200

Sample ID: ICV	SampType: ICV	Units: µg/L	Prep Date: 8/24/2023	RunNo: 86122							
Client ID: ICV	Batch ID: 41299		Analysis Date: 8/24/2023	SeqNo: 1797181							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	103	0.250	100.0	0	103	90	110
Cadmium	4.90	0.0200	5.000	0	97.9	90	110
Chromium	108	0.250	100.0	0	108	90	110
Lead	51.8	1.00	50.00	0	104	90	110
Mercury	2.39	0.200	2.500	0	95.5	90	110

Sample ID: CCV-41299A	SampType: CCV	Units: µg/L	Prep Date: 8/24/2023	RunNo: 86122							
Client ID: CCV	Batch ID: 41299		Analysis Date: 8/24/2023	SeqNo: 1797200							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	102	0.250	100.0	0	102	90	110
Cadmium	5.01	0.0200	5.000	0	100	90	110
Chromium	106	0.250	100.0	0	106	90	110
Lead	53.8	1.00	50.00	0	108	90	110
Mercury	2.55	0.200	2.500	0	102	90	110

Work Order: 2308316
CLIENT: GeoEngineers
Project: 701 South Jackson

QC SUMMARY REPORT
Total Metals by EPA Method 6020B

Sample ID: CCB-41299A	SampType: CCB	Units: µg/L	Prep Date: 8/24/2023	RunNo: 86122							
Client ID: CCB	Batch ID: 41299		Analysis Date: 8/24/2023	SeqNo: 1797201							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.250
Cadmium	ND	0.0200
Chromium	ND	0.250
Lead	ND	1.00
Mercury	ND	0.200

Sample ID: MB-41299	SampType: MBLK	Units: mg/Kg	Prep Date: 8/24/2023	RunNo: 86122							
Client ID: MBLKS	Batch ID: 41299		Analysis Date: 8/24/2023	SeqNo: 1797202							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.250
Cadmium	ND	0.0200
Chromium	ND	0.250
Lead	ND	1.00
Mercury	ND	0.200

Sample ID: LCS-41299	SampType: LCS	Units: mg/Kg	Prep Date: 8/24/2023	RunNo: 86122							
Client ID: LCSS	Batch ID: 41299		Analysis Date: 8/24/2023	SeqNo: 1797203							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	41.0	0.198	39.68	0	103	80	120
Cadmium	1.94	0.0159	1.984	0	97.7	80	120
Chromium	43.8	0.198	39.68	0	110	80	120
Lead	21.2	0.794	19.84	0	107	80	120
Mercury	0.797	0.159	0.9921	0	80.3	80	120

Work Order: 2308316
CLIENT: GeoEngineers
Project: 701 South Jackson

QC SUMMARY REPORT
Total Metals by EPA Method 6020B

Sample ID: 2308286-001AMS	SampType: MS	Units: mg/Kg-dry	Prep Date: 8/24/2023	RunNo: 86122							
Client ID: BATCH	Batch ID: 41299	Analysis Date: 8/24/2023	SeqNo: 1797206								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	41.5	0.216	43.17	0.5279	94.8	75	125				
Cadmium	2.12	0.0173	2.158	0.01856	97.2	75	125				
Chromium	54.9	0.216	43.17	12.36	98.5	75	125				
Lead	24.7	0.863	21.58	2.428	103	75	125				
Mercury	1.08	0.173	1.079	0	101	75	125				

Sample ID: 2308286-001AMSD	SampType: MSD	Units: mg/Kg-dry	Prep Date: 8/24/2023	RunNo: 86122							
Client ID: BATCH	Batch ID: 41299	Analysis Date: 8/24/2023	SeqNo: 1797207								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	37.9	0.208	41.52	0.5279	90.1	75	125	41.46	8.91	20
Cadmium	1.93	0.0166	2.076	0.01856	92.1	75	125	2.116	9.19	20
Chromium	49.5	0.208	41.52	12.36	89.4	75	125	54.88	10.3	20
Lead	22.5	0.830	20.76	2.428	96.8	75	125	24.73	9.38	20
Mercury	0.972	0.166	1.038	0	93.6	75	125	1.085	11.0	20

Sample ID: CCV-41299B	SampType: CCV	Units: µg/L	Prep Date: 8/24/2023	RunNo: 86122							
Client ID: CCV	Batch ID: 41299	Analysis Date: 8/24/2023	SeqNo: 1797212								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	102	0.250	100.0	0	102	90	110				
Cadmium	5.12	0.0200	5.000	0	102	90	110				
Chromium	104	0.250	100.0	0	104	90	110				
Lead	52.2	1.00	50.00	0	104	90	110				
Mercury	2.51	0.200	2.500	0	100	90	110				

Work Order: 2308316
CLIENT: GeoEngineers
Project: 701 South Jackson

QC SUMMARY REPORT
Total Metals by EPA Method 6020B

Sample ID: CCB-41299B		SampType: CCB		Units: µg/L		Prep Date: 8/24/2023		RunNo: 86122			
Client ID: CCB		Batch ID: 41299				Analysis Date: 8/24/2023		SeqNo: 1797213			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.250									
Cadmium	ND	0.0200									
Chromium	ND	0.250									
Lead	ND	1.00									
Mercury	ND	0.200									

Sample ID: CCV-41299C		SampType: CCV		Units: µg/L		Prep Date: 8/24/2023		RunNo: 86122			
Client ID: CCV		Batch ID: 41299				Analysis Date: 8/24/2023		SeqNo: 1797224			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	102	0.250	100.0	0	102	90	110				
Cadmium	4.99	0.0200	5.000	0	99.7	90	110				
Chromium	106	0.250	100.0	0	106	90	110				
Lead	50.4	1.00	50.00	0	101	90	110				
Mercury	2.46	0.200	2.500	0	98.6	90	110				

Sample ID: CCB-41299C		SampType: CCB		Units: µg/L		Prep Date: 8/24/2023		RunNo: 86122			
Client ID: CCB		Batch ID: 41299				Analysis Date: 8/24/2023		SeqNo: 1797225			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.250									
Cadmium	ND	0.0200									
Chromium	ND	0.250									
Lead	ND	1.00									
Mercury	ND	0.200									

Work Order: 2308316
CLIENT: GeoEngineers
Project: 701 South Jackson

QC SUMMARY REPORT
Total Metals by EPA Method 6020B

Sample ID: CCV-41299D		SampType: CCV		Units: µg/L		Prep Date: 8/24/2023		RunNo: 86122			
Client ID: CCV		Batch ID: 41299				Analysis Date: 8/24/2023		SeqNo: 1797227			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	102	0.250	100.0	0	102	90	110				
Cadmium	4.96	0.0200	5.000	0	99.1	90	110				
Chromium	108	0.250	100.0	0	108	90	110				
Lead	51.8	1.00	50.00	0	104	90	110				
Mercury	2.52	0.200	2.500	0	101	90	110				

Sample ID: CCB-41299D		SampType: CCB		Units: µg/L		Prep Date: 8/24/2023		RunNo: 86122			
Client ID: CCB		Batch ID: 41299				Analysis Date: 8/24/2023		SeqNo: 1797228			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.250									
Cadmium	ND	0.0200									
Chromium	ND	0.250									
Lead	ND	1.00									
Mercury	ND	0.200									

Work Order: 2308316
CLIENT: GeoEngineers
Project: 701 South Jackson

QC SUMMARY REPORT

Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Sample ID: HO ICV		SampType: ICV		Units: mg/Kg		Prep Date: 7/27/2023		RunNo: 85547			
Client ID: ICV		Batch ID: 41298				Analysis Date: 7/27/2023		SeqNo: 1784893			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Heavy Oil	515	100	500.0	0	103	70	130				
Surr: 2-Fluorobiphenyl	10.5		10.00		105	50	150				
Surr: o-Terphenyl	10.8		10.00		108	50	150				

Sample ID: HO ICB		SampType: ICB		Units: mg/Kg		Prep Date: 7/27/2023		RunNo: 85547			
Client ID: ICB		Batch ID: 41298				Analysis Date: 7/27/2023		SeqNo: 1784901			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Heavy Oil	ND	100									
Surr: 2-Fluorobiphenyl	9.91		10.00		99.1	50	150				
Surr: o-Terphenyl	9.84		10.00		98.4	50	150				

Sample ID: DX ICB		SampType: ICB		Units: mg/Kg		Prep Date: 7/27/2023		RunNo: 85547			
Client ID: ICB		Batch ID: 41298				Analysis Date: 7/27/2023		SeqNo: 1784903			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics	ND	50.0									
Surr: 2-Fluorobiphenyl	10.0		10.00		100	50	150				
Surr: o-Terphenyl	10.0		10.00		100	50	150				

Sample ID: DX ICV		SampType: ICV		Units: mg/Kg		Prep Date: 7/27/2023		RunNo: 85547			
Client ID: ICV		Batch ID: 41298				Analysis Date: 7/27/2023		SeqNo: 1784904			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics	479	50.0	500.0	0	95.8	70	130				
Surr: 2-Fluorobiphenyl	10.5		10.00		105	50	150				
Surr: o-Terphenyl	11.0		10.00		110	50	150				

Work Order: 2308316
CLIENT: GeoEngineers
Project: 701 South Jackson

QC SUMMARY REPORT
Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Sample ID: OIL-CCV-41279A		SampType: CCV		Units: mg/Kg		Prep Date: 8/23/2023		RunNo: 86087			
Client ID: CCV		Batch ID: 41279				Analysis Date: 8/23/2023		SeqNo: 1796314			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Heavy Oil	498	100	500.0	0	99.7	85	115				
Surr: 2-Fluorobiphenyl	10.8		10.00		108	50	150				
Surr: o-Terphenyl	11.5		10.00		115	50	150				

Sample ID: DX-CCV-41279A		SampType: CCV		Units: mg/Kg		Prep Date: 8/23/2023		RunNo: 86087			
Client ID: CCV		Batch ID: 41279				Analysis Date: 8/23/2023		SeqNo: 1796315			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics	490	50.0	500.0	0	97.9	85	115				
Surr: 2-Fluorobiphenyl	11.2		10.00		112	50	150				
Surr: o-Terphenyl	13.4		10.00		134	50	150				

Sample ID: MB-41279		SampType: MBLK		Units: mg/Kg		Prep Date: 8/22/2023		RunNo: 86087			
Client ID: MBLKS		Batch ID: 41279				Analysis Date: 8/23/2023		SeqNo: 1796316			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics	ND	50.0									
Heavy Oil	ND	100									
Total Petroleum Hydrocarbons	ND	150									
Surr: 2-Fluorobiphenyl	11.0		10.00		110	50	150				
Surr: o-Terphenyl	11.2		10.00		112	50	150				

Sample ID: LCS-41279		SampType: LCS		Units: mg/Kg		Prep Date: 8/22/2023		RunNo: 86087			
Client ID: LCSS		Batch ID: 41279				Analysis Date: 8/23/2023		SeqNo: 1796317			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Petroleum Hydrocarbons	501	150	500.0	0	100	76.8	124				
Surr: 2-Fluorobiphenyl	10.5		10.00		105	50	150				
Surr: o-Terphenyl	12.8		10.00		128	50	150				

Work Order: 2308316
CLIENT: GeoEngineers
Project: 701 South Jackson

QC SUMMARY REPORT
Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Sample ID: 2308299-002ADUP		SampType: DUP		Units: mg/Kg-dry		Prep Date: 8/22/2023		RunNo: 86087			
Client ID: BATCH		Batch ID: 41279				Analysis Date: 8/23/2023		SeqNo: 1796323			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics	ND	61.6						0		30	
Heavy Oil	ND	123						0		30	
Total Petroleum Hydrocarbons	ND	185						0		30	
Surr: 2-Fluorobiphenyl	13.3		12.32		108	50	150		0		
Surr: o-Terphenyl	13.7		12.32		111	50	150		0		

Sample ID: 2308299-004AMS		SampType: MS		Units: mg/Kg-dry		Prep Date: 8/22/2023		RunNo: 86087			
Client ID: BATCH		Batch ID: 41279				Analysis Date: 8/23/2023		SeqNo: 1796325			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Petroleum Hydrocarbons	1,610	168	560.2	1,050	101	21.8	165				
Surr: 2-Fluorobiphenyl	10.5		11.20		93.3	50	150				
Surr: o-Terphenyl	14.5		11.20		129	50	150				

Sample ID: 2308299-004AMSD		SampType: MSD		Units: mg/Kg-dry		Prep Date: 8/22/2023		RunNo: 86087			
Client ID: BATCH		Batch ID: 41279				Analysis Date: 8/23/2023		SeqNo: 1796326			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Petroleum Hydrocarbons	1,240	169	561.9	1,050	34.0	21.8	165	1,614	26.1	30	
Surr: 2-Fluorobiphenyl	10.2		11.24		90.6	50	150		0		
Surr: o-Terphenyl	14.3		11.24		127	50	150		0		

Sample ID: OIL-CCV-41279B		SampType: CCV		Units: mg/Kg		Prep Date: 8/23/2023		RunNo: 86087			
Client ID: CCV		Batch ID: 41279				Analysis Date: 8/23/2023		SeqNo: 1796327			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Heavy Oil	498	100	500.0	0	99.6	85	115				
Surr: 2-Fluorobiphenyl	11.1		10.00		111	50	150				
Surr: o-Terphenyl	11.8		10.00		118	50	150				

Work Order: 2308316
CLIENT: GeoEngineers
Project: 701 South Jackson

QC SUMMARY REPORT

Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Sample ID: DX-CCV-41279B		SampType: CCV		Units: mg/Kg		Prep Date: 8/23/2023		RunNo: 86087			
Client ID: CCV		Batch ID: 41279				Analysis Date: 8/23/2023		SeqNo: 1796328			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics	494	50.0	500.0	0	98.8	85	115				
Surr: 2-Fluorobiphenyl	11.2		10.00		112	50	150				
Surr: o-Terphenyl	13.4		10.00		134	50	150				

Sample ID: OIL-CCV-41279C		SampType: CCV		Units: mg/Kg		Prep Date: 8/23/2023		RunNo: 86087			
Client ID: CCV		Batch ID: 41279				Analysis Date: 8/23/2023		SeqNo: 1796533			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Heavy Oil	491	100	500.0	0	98.2	85	115				
Surr: 2-Fluorobiphenyl	11.3		10.00		113	50	150				
Surr: o-Terphenyl	11.9		10.00		119	50	150				

Sample ID: DX-CCV-41279C		SampType: CCV		Units: mg/Kg		Prep Date: 8/23/2023		RunNo: 86087			
Client ID: CCV		Batch ID: 41279				Analysis Date: 8/23/2023		SeqNo: 1796534			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics	494	50.0	500.0	0	98.8	85	115				
Surr: 2-Fluorobiphenyl	10.1		10.00		101	50	150				
Surr: o-Terphenyl	13.7		10.00		137	50	150				

Sample ID: OIL-CCV-41279D		SampType: CCV		Units: mg/Kg		Prep Date: 8/23/2023		RunNo: 86087			
Client ID: CCV		Batch ID: 41279				Analysis Date: 8/23/2023		SeqNo: 1796915			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Heavy Oil	514	100	500.0	0	103	85	115				
Surr: 2-Fluorobiphenyl	11.3		10.00		113	50	150				
Surr: o-Terphenyl	11.9		10.00		119	50	150				

Work Order: 2308316
CLIENT: GeoEngineers
Project: 701 South Jackson

QC SUMMARY REPORT
Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Sample ID: DX-CCV-41279D	SampType: CCV	Units: mg/Kg				Prep Date: 8/23/2023	RunNo: 86087				
Client ID: CCV	Batch ID: 41279					Analysis Date: 8/23/2023	SeqNo: 1796916				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics	493	50.0	500.0	0	98.6	85	115				
Surr: 2-Fluorobiphenyl	11.3		10.00		113	50	150				
Surr: o-Terphenyl	13.9		10.00		139	50	150				

Sample ID: OIL-CCV-41298A	SampType: CCV	Units: mg/Kg				Prep Date: 8/24/2023	RunNo: 86169				
Client ID: CCV	Batch ID: 41298					Analysis Date: 8/24/2023	SeqNo: 1798250				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Heavy Oil	552	100	500.0	0	110	85	115				
Surr: 2-Fluorobiphenyl	11.8		10.00		118	50	150				
Surr: o-Terphenyl	12.4		10.00		124	50	150				

Sample ID: DX-CCV-41298A	SampType: CCV	Units: mg/Kg				Prep Date: 8/24/2023	RunNo: 86169				
Client ID: CCV	Batch ID: 41298					Analysis Date: 8/24/2023	SeqNo: 1798251				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics	509	50.0	500.0	0	102	85	115				
Surr: 2-Fluorobiphenyl	12.1		10.00		121	50	150				
Surr: o-Terphenyl	13.4		10.00		134	50	150				

Sample ID: MB-41298	SampType: MBLK	Units: mg/Kg				Prep Date: 8/24/2023	RunNo: 86169				
Client ID: MBLKS	Batch ID: 41298					Analysis Date: 8/24/2023	SeqNo: 1798252				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics	ND	50.0									
Heavy Oil	ND	100									
Total Petroleum Hydrocarbons	ND	150									
Surr: 2-Fluorobiphenyl	11.1		10.00		111	50	150				
Surr: o-Terphenyl	11.4		10.00		114	50	150				

Work Order: 2308316
CLIENT: GeoEngineers
Project: 701 South Jackson

QC SUMMARY REPORT

Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Sample ID: LCS-41298		SampType: LCS		Units: mg/Kg		Prep Date: 8/24/2023		RunNo: 86169			
Client ID: LCSS		Batch ID: 41298				Analysis Date: 8/24/2023		SeqNo: 1798253			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Petroleum Hydrocarbons	490	150	500.0	0	98.0	76.8	124				
Surr: 2-Fluorobiphenyl	11.2		10.00		112	50	150				
Surr: o-Terphenyl	13.4		10.00		134	50	150				

Sample ID: 2308316-003AMS		SampType: MS		Units: mg/Kg-dry		Prep Date: 8/24/2023		RunNo: 86169			
Client ID: EX-03-91		Batch ID: 41298				Analysis Date: 8/24/2023		SeqNo: 1798255			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Petroleum Hydrocarbons	495	153	509.6	0	97.2	21.8	165				
Surr: 2-Fluorobiphenyl	10.6		10.19		104	50	150				
Surr: o-Terphenyl	12.9		10.19		127	50	150				

Sample ID: 2308316-003AMSD		SampType: MSD		Units: mg/Kg-dry		Prep Date: 8/24/2023		RunNo: 86169			
Client ID: EX-03-91		Batch ID: 41298				Analysis Date: 8/24/2023		SeqNo: 1798256			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Petroleum Hydrocarbons	573	153	509.6	0	112	21.8	165	495.2	14.5	30	
Surr: 2-Fluorobiphenyl	12.1		10.19		119	50	150		0		
Surr: o-Terphenyl	14.5		10.19		142	50	150		0		

Sample ID: OIL-CCV-41298B		SampType: CCV		Units: mg/Kg		Prep Date: 8/24/2023		RunNo: 86169			
Client ID: CCV		Batch ID: 41298				Analysis Date: 8/24/2023		SeqNo: 1798261			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Heavy Oil	560	100	500.0	0	112	85	115				
Surr: 2-Fluorobiphenyl	12.6		10.00		126	50	150				
Surr: o-Terphenyl	13.3		10.00		133	50	150				

Work Order: 2308316
CLIENT: GeoEngineers
Project: 701 South Jackson

QC SUMMARY REPORT

Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Sample ID: DX-CCV-41298B		SampType: CCV		Units: mg/Kg		Prep Date: 8/24/2023		RunNo: 86169			
Client ID: CCV		Batch ID: 41298				Analysis Date: 8/24/2023		SeqNo: 1798262			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics	510	50.0	500.0	0	102	85	115				
Surr: 2-Fluorobiphenyl	11.5		10.00		115	50	150				
Surr: o-Terphenyl	14.0		10.00		140	50	150				

Sample ID: 2308286-010ADUP		SampType: DUP		Units: mg/Kg-dry		Prep Date: 8/24/2023		RunNo: 86169			
Client ID: BATCH		Batch ID: 41298				Analysis Date: 8/24/2023		SeqNo: 1798268			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics	ND	54.6						0		30	
Heavy Oil	ND	109						0		30	
Total Petroleum Hydrocarbons	ND	164						0		30	
Surr: 2-Fluorobiphenyl	12.0		10.92		110	50	150		0		
Surr: o-Terphenyl	12.4		10.92		114	50	150		0		

Sample ID: OIL-CCV-41298C		SampType: CCV		Units: mg/Kg		Prep Date: 8/24/2023		RunNo: 86169			
Client ID: CCV		Batch ID: 41298				Analysis Date: 8/24/2023		SeqNo: 1798272			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Heavy Oil	509	100	500.0	0	102	85	115				
Surr: 2-Fluorobiphenyl	11.1		10.00		111	50	150				
Surr: o-Terphenyl	11.6		10.00		116	50	150				

Sample ID: DX-CCV-41298C		SampType: CCV		Units: mg/Kg		Prep Date: 8/24/2023		RunNo: 86169			
Client ID: CCV		Batch ID: 41298				Analysis Date: 8/24/2023		SeqNo: 1798273			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics	518	50.0	500.0	0	104	85	115				
Surr: 2-Fluorobiphenyl	11.4		10.00		114	50	150				
Surr: o-Terphenyl	13.4		10.00		134	50	150				

Work Order: 2308316
CLIENT: GeoEngineers
Project: 701 South Jackson

QC SUMMARY REPORT

Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Sample ID: OIL-CCV-41298D		SampType: CCV		Units: mg/Kg		Prep Date: 8/25/2023		RunNo: 86169			
Client ID: CCV		Batch ID: 41298				Analysis Date: 8/25/2023		SeqNo: 1798274			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Heavy Oil	556	100	500.0	0	111	85	115				
Surr: 2-Fluorobiphenyl	12.8		10.00		128	50	150				
Surr: o-Terphenyl	13.4		10.00		134	50	150				

Sample ID: DX-CCV-41298D		SampType: CCV		Units: mg/Kg		Prep Date: 8/25/2023		RunNo: 86169			
Client ID: CCV		Batch ID: 41298				Analysis Date: 8/25/2023		SeqNo: 1798275			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics	560	50.0	500.0	0	112	85	115				
Surr: 2-Fluorobiphenyl	11.5		10.00		115	50	150				
Surr: o-Terphenyl	14.5		10.00		145	50	150				

Sample ID: OIL-CCV-41298E		SampType: CCV		Units: mg/Kg		Prep Date: 8/25/2023		RunNo: 86169			
Client ID: CCV		Batch ID: 41298				Analysis Date: 8/25/2023		SeqNo: 1798287			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Heavy Oil	563	100	500.0	0	113	85	115				
Surr: 2-Fluorobiphenyl	12.9		10.00		129	50	150				
Surr: o-Terphenyl	13.6		10.00		136	50	150				

Sample ID: DX-CCV-41298E		SampType: CCV		Units: mg/Kg		Prep Date: 8/25/2023		RunNo: 86169			
Client ID: CCV		Batch ID: 41298				Analysis Date: 8/25/2023		SeqNo: 1798288			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics	536	50.0	500.0	0	107	85	115				
Surr: 2-Fluorobiphenyl	11.8		10.00		118	50	150				
Surr: o-Terphenyl	13.8		10.00		138	50	150				

Work Order: 2308316
CLIENT: GeoEngineers
Project: 701 South Jackson

QC SUMMARY REPORT

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Sample ID: PAH ICV	SampType: ICV	Units: µg/L	Prep Date: 8/15/2023	RunNo: 85940							
Client ID: ICV	Batch ID: 41297		Analysis Date: 8/15/2023	SeqNo: 1793530							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Naphthalene	1,030	20.0	1,000	0	103	70	130				
2-Methylnaphthalene	930	20.0	1,000	0	93.0	70	130				
1-Methylnaphthalene	958	20.0	1,000	0	95.8	70	130				
Acenaphthene	991	20.0	1,000	0	99.1	70	130				
Acenaphthylene	980	20.0	1,000	0	98.0	70	130				
Phenanthrene	965	20.0	1,000	0	96.5	70	130				
Fluorene	976	20.0	1,000	0	97.6	70	130				
Anthracene	943	20.0	1,000	0	94.3	70	130				
Fluoranthene	929	20.0	1,000	0	92.9	70	130				
Pyrene	955	40.0	1,000	0	95.5	70	130				
Benz(a)anthracene	934	20.0	1,000	0	93.4	70	130				
Chrysene	975	20.0	1,000	0	97.5	70	130				
Benzo(b)fluoranthene	922	25.0	1,000	0	92.2	70	130				
Benzo(k)fluoranthene	956	25.0	1,000	0	95.6	70	130				
Benzo(a)pyrene	994	30.0	1,000	0	99.4	70	130				
Indeno(1,2,3-cd)pyrene	960	40.0	1,000	0	96.0	70	130				
Dibenz(a,h)anthracene	952	50.0	1,000	0	95.2	70	130				
Benzo(g,h,i)perylene	925	50.0	1,000	0	92.5	70	130				
Surr: 2-Fluorobiphenyl	495		500.0		98.9	69.5	150				
Surr: Terphenyl-d14 (surr)	508		500.0		102	71.6	145				

Sample ID: PAH ICB	SampType: ICB	Units: µg/L	Prep Date: 8/15/2023	RunNo: 85940							
Client ID: ICB	Batch ID: 41297		Analysis Date: 8/15/2023	SeqNo: 1793531							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Naphthalene	ND	20.0									
2-Methylnaphthalene	ND	20.0									
1-Methylnaphthalene	ND	20.0									
Acenaphthene	ND	20.0									
Acenaphthylene	ND	20.0									
Phenanthrene	ND	20.0									

Work Order: 2308316
CLIENT: GeoEngineers
Project: 701 South Jackson

QC SUMMARY REPORT

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Sample ID: PAH ICB	SampType: ICB	Units: µg/L	Prep Date: 8/15/2023	RunNo: 85940							
Client ID: ICB	Batch ID: 41297		Analysis Date: 8/15/2023	SeqNo: 1793531							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluorene	ND	20.0									
Anthracene	ND	20.0									
Fluoranthene	ND	20.0									
Pyrene	ND	40.0									
Benz(a)anthracene	ND	20.0									
Chrysene	ND	20.0									
Benzo(b)fluoranthene	ND	25.0									
Benzo(k)fluoranthene	ND	25.0									
Benzo(a)pyrene	ND	30.0									
Indeno(1,2,3-cd)pyrene	ND	40.0									
Dibenz(a,h)anthracene	ND	50.0									
Benzo(g,h,i)perylene	ND	50.0									
Surr: 2-Fluorobiphenyl	387		500.0		77.4	50.4	142				
Surr: Terphenyl-d14 (surr)	393		500.0		78.5	48.8	157				

Sample ID: CCV-41297A	SampType: CCV	Units: µg/L	Prep Date: 8/24/2023	RunNo: 86117							
Client ID: CCV	Batch ID: 41297		Analysis Date: 8/24/2023	SeqNo: 1797059							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	1,080	20.0	1,000	0	108	80	120				
2-Methylnaphthalene	909	20.0	1,000	0	90.9	80	120				
1-Methylnaphthalene	909	20.0	1,000	0	90.9	80	120				
Acenaphthene	983	20.0	1,000	0	98.3	80	120				
Acenaphthylene	923	20.0	1,000	0	92.3	80	120				
Phenanthrene	949	20.0	1,000	0	94.9	80	120				
Fluorene	995	20.0	1,000	0	99.5	80	120				
Anthracene	937	20.0	1,000	0	93.7	80	120				
Fluoranthene	958	20.0	1,000	0	95.8	80	120				
Pyrene	966	40.0	1,000	0	96.6	80	120				
Benz(a)anthracene	1,020	20.0	1,000	0	102	80	120				
Chrysene	930	20.0	1,000	0	93.0	80	120				

Work Order: 2308316
CLIENT: GeoEngineers
Project: 701 South Jackson

QC SUMMARY REPORT

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Sample ID: CCV-41297A	SampType: CCV	Units: µg/L			Prep Date: 8/24/2023	RunNo: 86117					
Client ID: CCV	Batch ID: 41297				Analysis Date: 8/24/2023	SeqNo: 1797059					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(b)fluoranthene	1,020	25.0	1,000	0	102	80	120				
Benzo(k)fluoranthene	1,030	25.0	1,000	0	103	80	120				
Benzo(a)pyrene	1,050	30.0	1,000	0	105	80	120				
Indeno(1,2,3-cd)pyrene	1,020	40.0	1,000	0	102	80	120				
Dibenz(a,h)anthracene	1,010	50.0	1,000	0	101	80	120				
Benzo(g,h,i)perylene	1,000	50.0	1,000	0	100	80	120				
Surr: 2-Fluorobiphenyl	469		500.0		93.8	69.5	150				
Surr: Terphenyl-d14 (surr)	529		500.0		106	71.6	145				

Sample ID: MB-41297	SampType: MBLK	Units: µg/Kg			Prep Date: 8/24/2023	RunNo: 86117					
Client ID: MBLKS	Batch ID: 41297				Analysis Date: 8/24/2023	SeqNo: 1797060					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	ND	20.0									
2-Methylnaphthalene	ND	20.0									
1-Methylnaphthalene	ND	20.0									
Acenaphthene	ND	20.0									
Acenaphthylene	ND	20.0									
Phenanthrene	ND	20.0									
Fluorene	ND	20.0									
Anthracene	ND	20.0									
Fluoranthene	ND	20.0									
Pyrene	ND	40.0									
Benz(a)anthracene	ND	20.0									
Chrysene	ND	20.0									
Benzo(b)fluoranthene	ND	25.0									
Benzo(k)fluoranthene	ND	25.0									
Benzo(a)pyrene	ND	30.0									
Indeno(1,2,3-cd)pyrene	ND	40.0									
Dibenz(a,h)anthracene	ND	50.0									
Benzo(g,h,i)perylene	ND	50.0									

Work Order: 2308316
CLIENT: GeoEngineers
Project: 701 South Jackson

QC SUMMARY REPORT

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Sample ID: MB-41297	SampType: MBLK	Units: µg/Kg	Prep Date: 8/24/2023	RunNo: 86117							
Client ID: MBLKS	Batch ID: 41297		Analysis Date: 8/24/2023	SeqNo: 1797060							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Surr: 2-Fluorobiphenyl	892		1,000		89.2	22.2	146				
Surr: Terphenyl-d14 (surr)	1,200		1,000		120	20.2	159				

Sample ID: LCS-41297	SampType: LCS	Units: µg/Kg	Prep Date: 8/24/2023	RunNo: 86117							
Client ID: LCSS	Batch ID: 41297		Analysis Date: 8/24/2023	SeqNo: 1797061							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Naphthalene	1,890	20.0	2,000	0	94.7	59.3	114				
2-Methylnaphthalene	1,660	20.0	2,000	0	83.1	55.5	115				
1-Methylnaphthalene	1,680	20.0	2,000	0	84.1	57.2	116				
Acenaphthene	1,780	20.0	2,000	0	89.1	56.6	114				
Acenaphthylene	1,770	20.0	2,000	0	88.6	58.2	120				
Phenanthrene	1,730	20.0	2,000	0	86.7	53.2	118				
Fluorene	1,830	20.0	2,000	0	91.5	57.7	117				
Anthracene	1,770	20.0	2,000	0	88.7	54.7	118				
Fluoranthene	1,840	20.0	2,000	0	92.2	56	120				
Pyrene	1,880	40.0	2,000	0	94.2	56.9	120				
Benz(a)anthracene	1,920	20.0	2,000	0	96.0	59.5	123				
Chrysene	1,840	20.0	2,000	0	91.9	51.5	115				
Benzo(b)fluoranthene	1,840	25.0	2,000	0	92.2	50	122				
Benzo(k)fluoranthene	1,960	25.0	2,000	0	97.9	51	117				
Benzo(a)pyrene	2,120	30.0	2,000	0	106	53.2	123				
Indeno(1,2,3-cd)pyrene	1,820	40.0	2,000	0	91.1	49.5	122				
Dibenz(a,h)anthracene	1,830	50.0	2,000	0	91.3	51	120				
Benzo(g,h,i)perylene	1,790	50.0	2,000	0	89.4	46.8	122				
Surr: 2-Fluorobiphenyl	1,040		1,000		104	22.2	146				
Surr: Terphenyl-d14 (surr)	1,250		1,000		125	20.2	159				

Work Order: 2308316
CLIENT: GeoEngineers
Project: 701 South Jackson

QC SUMMARY REPORT

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Sample ID: 2308316-001AMS		SampType: MS		Units: µg/Kg-dry		Prep Date: 8/24/2023		RunNo: 86117			
Client ID: R3-SSW-E-88		Batch ID: 41297				Analysis Date: 8/24/2023		SeqNo: 1797064			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	1,950	19.5	1,955	0	99.6	48.9	121				
2-Methylnaphthalene	1,660	19.5	1,955	0	84.9	45.9	118				
1-Methylnaphthalene	1,690	19.5	1,955	0	86.5	48.5	121				
Acenaphthene	1,830	19.5	1,955	0	93.6	46	122				
Acenaphthylene	1,770	19.5	1,955	0	90.4	49.2	126				
Phenanthrene	1,760	19.5	1,955	0	90.2	40.5	126				
Fluorene	1,880	19.5	1,955	0	96.2	49	123				
Anthracene	1,800	19.5	1,955	0	92.1	46.3	124				
Fluoranthene	1,880	19.5	1,955	0	96.4	49.1	129				
Pyrene	1,950	39.1	1,955	0	99.8	48.8	130				
Benz(a)anthracene	2,010	19.5	1,955	0	103	53.9	130				
Chrysene	1,840	19.5	1,955	0	93.9	41.2	126				
Benzo(b)fluoranthene	1,850	24.4	1,955	0	94.7	37.2	132				
Benzo(k)fluoranthene	1,980	24.4	1,955	0	101	32.8	131				
Benzo(a)pyrene	2,110	29.3	1,955	0	108	28.8	145				
Indeno(1,2,3-cd)pyrene	1,850	39.1	1,955	0	94.5	3.36	151				
Dibenz(a,h)anthracene	1,860	48.9	1,955	0	95.0	6.99	152				
Benzo(g,h,i)perylene	1,780	48.9	1,955	0	91.2	5.86	143				
Surr: 2-Fluorobiphenyl	1,010		977.3		103	22.2	146				
Surr: Terphenyl-d14 (surr)	1,260		977.3		129	20.2	159				

Sample ID: 2308316-001AMSD		SampType: MSD		Units: µg/Kg-dry		Prep Date: 8/24/2023		RunNo: 86117			
Client ID: R3-SSW-E-88		Batch ID: 41297				Analysis Date: 8/24/2023		SeqNo: 1797065			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	1,970	19.6	1,958	0	101	48.9	121	1,946	1.32	30	
2-Methylnaphthalene	1,670	19.6	1,958	0	85.5	45.9	118	1,660	0.887	30	
1-Methylnaphthalene	1,710	19.6	1,958	0	87.4	48.5	121	1,692	1.12	30	
Acenaphthene	1,840	19.6	1,958	0	94.1	46	122	1,829	0.743	30	
Acenaphthylene	1,770	19.6	1,958	0	90.4	49.2	126	1,768	0.110	30	
Phenanthrene	1,780	19.6	1,958	0	91.0	40.5	126	1,763	1.10	30	

Work Order: 2308316
 CLIENT: GeoEngineers
 Project: 701 South Jackson

QC SUMMARY REPORT

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Sample ID: 2308316-001AMSD	SampType: MSD	Units: µg/Kg-dry	Prep Date: 8/24/2023	RunNo: 86117							
Client ID: R3-SSW-E-88	Batch ID: 41297	Analysis Date: 8/24/2023	SeqNo: 1797065								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluorene	1,890	19.6	1,958	0	96.3	49	123	1,879	0.385	30	
Anthracene	1,810	19.6	1,958	0	92.5	46.3	124	1,799	0.613	30	
Fluoranthene	1,880	19.6	1,958	0	96.2	49.1	129	1,884	0.0137	30	
Pyrene	1,950	39.2	1,958	0	99.7	48.8	130	1,951	0.0591	30	
Benz(a)anthracene	2,000	19.6	1,958	0	102	53.9	130	2,013	0.409	30	
Chrysene	1,870	19.6	1,958	0	95.4	41.2	126	1,835	1.81	30	
Benzo(b)fluoranthene	1,920	24.5	1,958	0	98.2	37.2	132	1,852	3.74	30	
Benzo(k)fluoranthene	1,950	24.5	1,958	0	99.7	32.8	131	1,981	1.50	30	
Benzo(a)pyrene	2,130	29.4	1,958	0	109	28.8	145	2,113	0.982	30	
Indeno(1,2,3-cd)pyrene	1,890	39.2	1,958	0	96.6	3.36	151	1,846	2.45	30	
Dibenz(a,h)anthracene	1,900	49.0	1,958	0	97.2	6.99	152	1,858	2.40	30	
Benzo(g,h,i)perylene	1,840	49.0	1,958	0	94.0	5.86	143	1,783	3.15	30	
Surr: 2-Fluorobiphenyl	1,020		979.1		104	22.2	146		0		
Surr: Terphenyl-d14 (surr)	1,270		979.1		129	20.2	159		0		

Sample ID: CCV-41297B	SampType: CCV	Units: µg/L	Prep Date: 8/24/2023	RunNo: 86117							
Client ID: CCV	Batch ID: 41297	Analysis Date: 8/24/2023	SeqNo: 1797614								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	1,080	20.0	1,000	0	108	80	120				
2-Methylnaphthalene	894	20.0	1,000	0	89.4	80	120				
1-Methylnaphthalene	895	20.0	1,000	0	89.5	80	120				
Acenaphthene	992	20.0	1,000	0	99.2	80	120				
Acenaphthylene	902	20.0	1,000	0	90.2	80	120				
Phenanthrene	928	20.0	1,000	0	92.8	80	120				
Fluorene	1,000	20.0	1,000	0	100	80	120				
Anthracene	926	20.0	1,000	0	92.6	80	120				
Fluoranthene	955	20.0	1,000	0	95.5	80	120				
Pyrene	958	40.0	1,000	0	95.8	80	120				
Benz(a)anthracene	1,050	20.0	1,000	0	105	80	120				
Chrysene	923	20.0	1,000	0	92.3	80	120				

Work Order: 2308316
CLIENT: GeoEngineers
Project: 701 South Jackson

QC SUMMARY REPORT

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Sample ID: CCV-41297B	SampType: CCV	Units: µg/L	Prep Date: 8/24/2023	RunNo: 86117							
Client ID: CCV	Batch ID: 41297		Analysis Date: 8/24/2023	SeqNo: 1797614							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(b)fluoranthene	1,060	25.0	1,000	0	106	80	120				
Benzo(k)fluoranthene	988	25.0	1,000	0	98.8	80	120				
Benzo(a)pyrene	1,050	30.0	1,000	0	105	80	120				
Indeno(1,2,3-cd)pyrene	1,030	40.0	1,000	0	103	80	120				
Dibenz(a,h)anthracene	1,010	50.0	1,000	0	101	80	120				
Benzo(g,h,i)perylene	996	50.0	1,000	0	99.6	80	120				
Surr: 2-Fluorobiphenyl	460		500.0		91.9	69.5	150				
Surr: Terphenyl-d14 (surr)	527		500.0		105	71.6	145				

Work Order: 2308316
CLIENT: GeoEngineers
Project: 701 South Jackson

QC SUMMARY REPORT
Gasoline by NWTPH-Gx

Sample ID: ICB		SampType: ICB		Units: mg/Kg		Prep Date: 8/22/2023		RunNo: 86064			
Client ID: ICB		Batch ID: 41291				Analysis Date: 8/22/2023		SeqNo: 1795907			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	ND	5.00									
Surr: Toluene-d8	23.6		25.00		94.4	65	135				
Surr: 4-Bromofluorobenzene	25.8		25.00		103	65	135				

Sample ID: ICV		SampType: ICV		Units: mg/Kg		Prep Date: 8/22/2023		RunNo: 86064			
Client ID: ICV		Batch ID: 41291				Analysis Date: 8/22/2023		SeqNo: 1795906			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	525	5.00	500.0	0	105	80	120				
Surr: Toluene-d8	25.3		25.00		101	65	135				
Surr: 4-Bromofluorobenzene	24.5		25.00		98.0	65	135				

Sample ID: CCV-41291A		SampType: CCV		Units: mg/Kg		Prep Date: 8/24/2023		RunNo: 86134			
Client ID: CCV		Batch ID: 41291				Analysis Date: 8/24/2023		SeqNo: 1797534			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	468	5.00	500.0	0	93.6	80	120				
Surr: Toluene-d8	23.5		25.00		93.9	65	135				
Surr: 4-Bromofluorobenzene	25.1		25.00		101	65	135				

Sample ID: LCS-41291		SampType: LCS		Units: mg/Kg		Prep Date: 8/23/2023		RunNo: 86134			
Client ID: LCSS		Batch ID: 41291				Analysis Date: 8/24/2023		SeqNo: 1797537			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	23.4	5.00	25.00	0	93.6	65	135				
Surr: Toluene-d8	1.17		1.250		93.9	65	135				
Surr: 4-Bromofluorobenzene	1.26		1.250		101	65	135				

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QC SUMMARY REPORT

Gasoline by NWTPH-Gx

Sample ID: MB-41291		SampType: MBLK		Units: mg/Kg		Prep Date: 8/23/2023		RunNo: 86134			
Client ID: MBLKS		Batch ID: 41291				Analysis Date: 8/24/2023		SeqNo: 1797536			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	ND	5.00									
Surr: Toluene-d8	1.13		1.250		90.6	65	135				
Surr: 4-Bromofluorobenzene	1.16		1.250		92.7	65	135				

Sample ID: CCV-41291B		SampType: CCV		Units: mg/Kg		Prep Date: 8/24/2023		RunNo: 86134			
Client ID: CCV		Batch ID: 41291				Analysis Date: 8/24/2023		SeqNo: 1797535			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	448	5.00	500.0	0	89.6	80	120				
Surr: Toluene-d8	22.9		25.00		91.6	65	135				
Surr: 4-Bromofluorobenzene	26.0		25.00		104	65	135				

Sample ID: 2308286-001BDUP		SampType: DUP		Units: mg/Kg-dry		Prep Date: 8/23/2023		RunNo: 86134			
Client ID: BATCH		Batch ID: 41291				Analysis Date: 8/24/2023		SeqNo: 1797799			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	ND	5.06						0		30	
Surr: Toluene-d8	1.13		1.264		89.2	65	135		0		
Surr: 4-Bromofluorobenzene	1.33		1.264		105	65	135		0		

Sample ID: 2308286-007BMS		SampType: MS		Units: mg/Kg-dry		Prep Date: 8/23/2023		RunNo: 86134			
Client ID: BATCH		Batch ID: 41291				Analysis Date: 8/25/2023		SeqNo: 1797814			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	27.1	6.27	31.34	0	86.5	65	135				
Surr: Toluene-d8	1.42		1.567		90.5	65	135				
Surr: 4-Bromofluorobenzene	1.61		1.567		102	65	135				

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CLIENT: GeoEngineers
Project: 701 South Jackson

QC SUMMARY REPORT

Gasoline by NWTPH-Gx

Sample ID: CCV-41291C	SampType: CCV	Units: mg/Kg	Prep Date: 8/25/2023	RunNo: 86134							
Client ID: CCV	Batch ID: 41291		Analysis Date: 8/25/2023	SeqNo: 1797817							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline Range Organics	467	5.00	500.0	0	93.4	80	120				
Surr: Toluene-d8	22.5		25.00		89.8	65	135				
Surr: 4-Bromofluorobenzene	26.0		25.00		104	65	135				

Work Order: 2308316
CLIENT: GeoEngineers
Project: 701 South Jackson

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: ICB		SampType: ICB		Units: µg/L		Prep Date: 8/21/2023		RunNo: 86065			
Client ID: ICB		Batch ID: 41291				Analysis Date: 8/21/2023		SeqNo: 1795823			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	0.0223	0.0175									
Toluene	ND	0.0300									
Ethylbenzene	0.0458	0.0250									
m,p-Xylene	ND	0.0500									
o-Xylene	0.0370	0.0250									
Surr: Dibromofluoromethane	24.7		25.00		98.7	80	120				
Surr: Toluene-d8	24.7		25.00		98.9	80	120				
Surr: 1-Bromo-4-fluorobenzene	27.7		25.00		111	80	120				

Sample ID: VOC S ICV		SampType: ICV		Units: µg/L		Prep Date: 8/22/2023		RunNo: 86065			
Client ID: ICV		Batch ID: 41291				Analysis Date: 8/22/2023		SeqNo: 1795850			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	20.1	0.0175	20.00	0	101	70	130				
Toluene	20.1	0.0300	20.00	0	100	70	130				
Ethylbenzene	19.1	0.0250	20.00	0	95.5	70	130				
m,p-Xylene	40.4	0.0500	40.00	0	101	70	130				
o-Xylene	19.3	0.0250	20.00	0	96.7	70	130				
Surr: Dibromofluoromethane	24.7		25.00		98.8	80	120				
Surr: Toluene-d8	25.4		25.00		102	80	120				
Surr: 1-Bromo-4-fluorobenzene	22.5		25.00		90.1	80	120				

Sample ID: CCV-41291A		SampType: CCV		Units: µg/L		Prep Date: 8/24/2023		RunNo: 86120			
Client ID: CCV		Batch ID: 41291				Analysis Date: 8/24/2023		SeqNo: 1797157			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	23.7	0.0175	20.00	0	118	80	120				
Toluene	25.0	0.0300	20.00	0	125	80	120				S
Ethylbenzene	19.0	0.0250	20.00	0	95.1	80	120				
m,p-Xylene	40.6	0.0500	40.00	0	102	80	120				
o-Xylene	19.2	0.0250	20.00	0	95.8	80	120				

Work Order: 2308316
CLIENT: GeoEngineers
Project: 701 South Jackson

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: CCV-41291A	SampType: CCV	Units: µg/L	Prep Date: 8/24/2023	RunNo: 86120							
Client ID: CCV	Batch ID: 41291		Analysis Date: 8/24/2023	SeqNo: 1797157							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	25.9		25.00		104	80	120				
Surr: Toluene-d8	28.7		25.00		115	80	120				
Surr: 1-Bromo-4-fluorobenzene	25.9		25.00		104	80	120				

NOTES:

S - Outlying spike recovery observed (high bias). Detections will be qualified with a Q.

Sample ID: LCS-41291	SampType: LCS	Units: µg/L	Prep Date: 8/23/2023	RunNo: 86120							
Client ID: LCSS	Batch ID: 41291		Analysis Date: 8/24/2023	SeqNo: 1797164							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	1.18	0.0175	1.000	0	118	80	120				
Toluene	1.25	0.0300	1.000	0	125	80	120				S
Ethylbenzene	0.951	0.0250	1.000	0	95.1	80	120				
m,p-Xylene	2.03	0.0500	2.000	0	102	80	120				
o-Xylene	0.958	0.0250	1.000	0	95.8	80	120				
Surr: Dibromofluoromethane	1.29		1.250		104	79.5	124				
Surr: Toluene-d8	1.44		1.250		115	77.5	124				
Surr: 1-Bromo-4-fluorobenzene	1.29		1.250		104	60.5	139				

NOTES:

S - Outlying spike recovery observed (high bias). Detections will be qualified with a Q.

Sample ID: MB-41291	SampType: MBLK	Units: mg/Kg	Prep Date: 8/23/2023	RunNo: 86120							
Client ID: MBLKS	Batch ID: 41291		Analysis Date: 8/24/2023	SeqNo: 1797156							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.0175									
Toluene	ND	0.0300									
Ethylbenzene	ND	0.0250									
m,p-Xylene	ND	0.0500									
o-Xylene	ND	0.0250									
Surr: Dibromofluoromethane	1.35		1.250		108	79.5	124				
Surr: Toluene-d8	1.37		1.250		110	77.5	124				
Surr: 1-Bromo-4-fluorobenzene	1.23		1.250		98.8	60.5	139				

Work Order: 2308316
CLIENT: GeoEngineers
Project: 701 South Jackson

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260D

Sample ID: MB-41291	SampType: MBLK	Units: mg/Kg	Prep Date: 8/23/2023	RunNo: 86120							
Client ID: MBLKS	Batch ID: 41291		Analysis Date: 8/24/2023	SeqNo: 1797156							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sample ID: 2308316-002BDUP	SampType: DUP	Units: mg/Kg-dry	Prep Date: 8/23/2023	RunNo: 86120							
Client ID: R3-SSW-W-88	Batch ID: 41291		Analysis Date: 8/24/2023	SeqNo: 1797155							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.0183						0		30	
Toluene	ND	0.0314						0		30	
Ethylbenzene	ND	0.0262						0		30	
m,p-Xylene	ND	0.0524						0		30	
o-Xylene	ND	0.0262						0		30	
Surr: Dibromofluoromethane	1.39		1.309		106	79.5	124		0		
Surr: Toluene-d8	1.45		1.309		111	77.5	124		0		
Surr: 1-Bromo-4-fluorobenzene	1.51		1.309		115	60.5	139		0		

Sample ID: CCV-41291B	SampType: CCV	Units: µg/L	Prep Date: 8/24/2023	RunNo: 86120							
Client ID: CCV	Batch ID: 41291		Analysis Date: 8/24/2023	SeqNo: 1797797							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	23.1	0.0175	20.00	0	116	80	120				
Toluene	23.8	0.0300	20.00	0	119	80	120				
Ethylbenzene	19.1	0.0250	20.00	0	95.6	80	120				
m,p-Xylene	39.7	0.0500	40.00	0	99.2	80	120				
o-Xylene	18.7	0.0250	20.00	0	93.3	80	120				
Surr: Dibromofluoromethane	25.8		25.00		103	80	120				
Surr: Toluene-d8	27.7		25.00		111	80	120				
Surr: 1-Bromo-4-fluorobenzene	26.8		25.00		107	80	120				

Work Order: 2308316
CLIENT: GeoEngineers
Project: 701 South Jackson

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: 2308286-001BDUP	SampType: DUP	Units: mg/Kg-dry	Prep Date: 8/23/2023	RunNo: 86120							
Client ID: BATCH	Batch ID: 41291	Analysis Date: 8/24/2023	SeqNo: 1797779								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	ND	0.0177						0		30	
Toluene	ND	0.0303						0		30	
Ethylbenzene	ND	0.0253						0		30	
m,p-Xylene	ND	0.0506						0		30	
o-Xylene	ND	0.0253						0		30	
Surr: Dibromofluoromethane	1.40		1.264		111	79.5	124		0		
Surr: Toluene-d8	1.45		1.264		115	77.5	124		0		
Surr: 1-Bromo-4-fluorobenzene	1.42		1.264		112	60.5	139		0		

Client Name: GEI	Work Order Number: 2308316
Logged by: Morgan Wilson	Date Received: 8/23/2023 2:45:00 PM

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
2. How was the sample delivered? Client

Log In

3. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes No Not Present
4. Was an attempt made to cool the samples? Yes No NA
5. Were all items received at a temperature of >2°C to 6°C * Yes No NA
- Samples were collected the same day and chilled.
6. Sample(s) in proper container(s)? Yes No
7. Sufficient sample volume for indicated test(s)? Yes No
8. Are samples properly preserved? Yes No
9. Was preservative added to bottles? Yes No NA
10. Is there headspace in the VOA vials? Yes No NA
11. Did all samples containers arrive in good condition(unbroken)? Yes No
12. Does paperwork match bottle labels? Yes No
13. Are matrices correctly identified on Chain of Custody? Yes No
14. Is it clear what analyses were requested? Yes No
15. Were all holding times able to be met? Yes No

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

17. Additional remarks:

Item Information

Item #	Temp °C
Sample	7.0

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C



Chain of Custody Record & Laboratory Services Agreement

Client: **GeoEngineers**
 Address: **2101 Ulen Ave**
 City, State, Zip: **Seattle WA 98121**
 Telephone: **206-728-2674**
 Email(s): **frank@geoengineers.com**

Date: **2/23/23** Page: **1** of **1**
 Project Name: **701 Soth Jackson**
 Project No: **24504-001-03**
 Collected by: **Robert Trehar**
 Location: **Seattle**
 Report To (PM): **Robert Trehar**

Laboratory Project No (Internal): **23088316**
 Special Remarks: **Level 2B Package**
 Disposal: Samples will be disposed in 30 days unless otherwise requested.
 Retain volume (specify above) Return to client

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	# of Cont.	Analytes											Comments	
					VOCS (EPA 8260 / 624)	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HClD)	Diesel/Heavy Oil Range Organics (DOR)	SVOCs (EPA 8270 - SIM)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8270 - SIM)	Metals** (EPA 6020 / 200.8)	Total (T) Dissolved (D)	Anions (IC)***		EDB (801)
1 R3-SSW-E-00	2/23	1200	S	3	X	X	X	X	X	X	X	X	X	X	X	X	3-Day TAT
2 R3-SSW-W-00		1100	S	3	X	X	X	X	X	X	X	X	X	X	X	X	1-Day TAT
3 EX-03-a1		1100	S	3	X	X	X	X	X	X	X	X	X	X	X	X	3-Day TAT
4 R3-DWP-01			S	3	X	X	X	X	X	X	X	X	X	X	X	X	3-Day TAT
5																	
6																	
7																	
8																	
9																	
10																	

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water
 Metals (Circle): **MICA-5 RCRA-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Tl Tl V Zn
 ***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide Iodide Phosphate Fluoride Nitrate+Nitrite
 Turn-around Time: Standard Next Day 3 Day Same Day 2 Day (specify)

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Print Name: **Robert Trehar** Date/Time: **2/23/23 14:45**
 Received (Signature): *[Signature]*
 Print Name: **Emma Trehar** Date/Time: **2/23/23 14:45**
 Relinquished (Signature): *[Signature]*
 Print Name: **Robert Trehar** Date/Time: **2/23/23 14:45**

DATA SET for Review - Deliverable Requirements

Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Fremont Analytical Work Order No. 2308316

GeoEngineers

Project Name: S Jackson Street

Project Number: 24504-001-01

This data set contains the following:

- Analytical Sequence Summary
- Calibration Information

Data Directory: D:\GC-24\Data\2023\230727FRONT\

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) 07270002.D CO	DX_220112.M	150	1.000	27 Jul 2023 10:39 am
2) 07270004.D HO 20	DX_220112.M	21	1.000	27 Jul 2023 10:50 am
3) 07270006.D HO 100	DX_220112.M	22	1.000	27 Jul 2023 11:01 am
4) 07270008.D HO 500	DX_220112.M	23	1.000	27 Jul 2023 11:12 am
5) 07270010.D HO 1000	DX_220112.M	24	1.000	27 Jul 2023 11:23 am
6) 07270012.D HO 2000	DX_220112.M	25	1.000	27 Jul 2023 11:34 am
7) 07270014.D HO 5000	DX_220112.M	26	1.000	27 Jul 2023 11:45 am
8) 07270016.D HO 10000	DX_220112.M	27	1.000	27 Jul 2023 11:56 am
9) 07270018.D CO	DX_220112.M	150	1.000	27 Jul 2023 12:07 pm
10) 07270020.D CO	DX_220112.M	150	1.000	27 Jul 2023 12:18 pm
11) 07270022.D CO	DX_220112.M	148	1.000	27 Jul 2023 12:29 pm
12) 07270024.D HO ICB	DX_220112.M	28	1.000	27 Jul 2023 12:40 pm
13) 07270026.D HO 20	DX_220112.M	21	1.000	27 Jul 2023 12:51 pm
14) 07270028.D HO ICV	DX_220112.M	29	1.000	27 Jul 2023 01:02 pm
15) 07270030.D CO	DX_220112.M	150	1.000	27 Jul 2023 01:13 pm
16) 07270032.D DX 20	DX_220112.M	11	1.000	27 Jul 2023 01:23 pm
17) 07270034.D DX 100	DX_220112.M	12	1.000	27 Jul 2023 01:34 pm
18) 07270036.D DX 500	DX_220112.M	13	1.000	27 Jul 2023 01:46 pm
19) 07270038.D DX 1000	DX_220112.M	14	1.000	27 Jul 2023 01:57 pm
20) 07270040.D DX 2000	DX_220112.M	15	1.000	27 Jul 2023 02:08 pm
21) 07270042.D DX 5000	DX_220112.M	16	1.000	27 Jul 2023 02:19 pm

22) 07270044.D DX 10000	DX_220112.M	17	1.000	27 Jul 2023	02:30 pm
23) 07270046.D HO ICB	DX_220112.M	28	1.000	27 Jul 2023	02:41 pm
24) 07270048.D HO 20	DX_220112.M	21	1.000	27 Jul 2023	02:52 pm
25) 07270050.D CO	DX_220112.M	150	1.000	27 Jul 2023	03:03 pm
26) 07270052.D CO	DX_220112.M	150	1.000	27 Jul 2023	03:14 pm
27) 07270054.D DX ICB	DX_220112.M	18	1.000	27 Jul 2023	03:25 pm
28) 07270056.D DX ICV	DX_220112.M	19	1.000	27 Jul 2023	03:42 pm
29) 07270058.D CO	DX_220112.M	150	1.000	27 Jul 2023	03:53 pm
30) 07270060.D CO	DX_220112.M	150	1.000	27 Jul 2023	04:04 pm
31) 07270062.D CO	DX_220112.M	150	1.000	27 Jul 2023	04:15 pm
32) 07270064.D CO	DX_220112.M	150	1.000	27 Jul 2023	04:26 pm
33) 07270066.D OIL-CCV	DX_220112.M	2	1.000	27 Jul 2023	04:37 pm
34) 07270068.D DX-CCV	DX_220112.M	1	1.000	27 Jul 2023	04:48 pm
35) 07270070.D CO	DX_220112.M	150	1.000	27 Jul 2023	04:59 pm
36) 07270072.D MB-40979	DX_220112.M	61	1.000	27 Jul 2023	05:10 pm
37) 07270074.D LCS-40979	DX_220112.M	62	1.000	27 Jul 2023	05:21 pm
38) 07270076.D LCSD-40979	DX_220112.M	63	1.000	27 Jul 2023	05:32 pm
39) 07270078.D Dx MDL	DX_220112.M	73	1.000	27 Jul 2023	05:43 pm
40) 07270080.D RRO MDL	DX_220112.M	74	1.000	27 Jul 2023	05:54 pm
41) 07270082.D CO	DX_220112.M	150	1.000	27 Jul 2023	06:05 pm
42) 07270084.D CO	DX_220112.M	150	1.000	27 Jul 2023	06:16 pm
43) 07270086.D OIL-CCV	DX_220112.M	2	1.000	27 Jul 2023	06:27 pm
44) 07270088.D DX-CCV	DX_220112.M	1	1.000	27 Jul 2023	06:38 pm
45) 07270090.D	DX_220112.M				

CO			150	1.000	27 Jul 2023	06:49	pm
46)	07270092.D MB-41004	DX_220112.M	111	1.000	27 Jul 2023	07:00	pm
47)	07270094.D LCS-41004	DX_220112.M	112	1.000	27 Jul 2023	07:11	pm
48)	07270096.D 2307262-001B	DX_220112.M	113	1.000	27 Jul 2023	07:22	pm
49)	07270098.D 2307262-002B	DX_220112.M	114	1.000	27 Jul 2023	07:33	pm
50)	07270100.D 2307262-003B	DX_220112.M	115	1.000	27 Jul 2023	07:44	pm
51)	07270102.D 2307262-004B	DX_220112.M	116	1.000	27 Jul 2023	07:55	pm
52)	07270104.D 2307262-005B	DX_220112.M	117	1.000	27 Jul 2023	08:06	pm
53)	07270106.D 2307262-006B	DX_220112.M	118	1.000	27 Jul 2023	08:17	pm
54)	07270108.D 2307262-007B	DX_220112.M	119	1.000	27 Jul 2023	08:28	pm
55)	07270110.D 2307262-007BDUP	DX_220112.M	120	1.000	27 Jul 2023	08:39	pm
56)	07270112.D CO	DX_220112.M	150	1.000	27 Jul 2023	08:50	pm
57)	07270114.D OIL-CCV	DX_220112.M	2	1.000	27 Jul 2023	09:01	pm
58)	07270116.D DX-CCV	DX_220112.M	1	1.000	27 Jul 2023	09:12	pm
59)	07270118.D CO	DX_220112.M	150	1.000	27 Jul 2023	09:23	pm
60)	07270120.D 2307262-008B	DX_220112.M	121	1.000	27 Jul 2023	09:34	pm
61)	07270122.D 2307262-009B	DX_220112.M	122	1.000	27 Jul 2023	09:45	pm
62)	07270124.D 2307262-010B	DX_220112.M	123	1.000	27 Jul 2023	09:56	pm
63)	07270126.D 2307284-001B	DX_220112.M	124	1.000	27 Jul 2023	10:07	pm
64)	07270128.D 2307284-002B	DX_220112.M	125	1.000	27 Jul 2023	10:18	pm
65)	07270130.D 2307284-003B	DX_220112.M	126	1.000	27 Jul 2023	10:29	pm
66)	07270132.D 2307284-004B	DX_220112.M	127	1.000	27 Jul 2023	10:40	pm
67)	07270134.D 2307285-001A	DX_220112.M	128	1.000	27 Jul 2023	10:51	pm
68)	07270136.D CO	DX_220112.M	150	1.000	27 Jul 2023	11:02	pm

69) 07270138.D OIL-CCV	DX_220112.M	2	1.000	27 Jul 2023	11:12 pm
70) 07270140.D DX-CCV	DX_220112.M	1	1.000	27 Jul 2023	11:23 pm
71) 07270142.D CO	DX_220112.M	150	1.000	27 Jul 2023	11:34 pm
72) 07270144.D MB-40989	DX_220112.M	131	1.000	27 Jul 2023	11:45 pm
73) 07270146.D LCS-40989	DX_220112.M	132	1.000	27 Jul 2023	11:56 pm
74) 07270148.D 2307278-002A	DX_220112.M	136	1.000	28 Jul 2023	12:07 am
75) 07270150.D 2307278-002ADUP	DX_220112.M	137	1.000	28 Jul 2023	12:18 am
76) 07270152.D 2307278-003A	DX_220112.M	138	1.000	28 Jul 2023	12:29 am
77) 07270154.D 2307278-004A	DX_220112.M	139	1.000	28 Jul 2023	12:40 am
78) 07270156.D 2307278-005A	DX_220112.M	140	1.000	28 Jul 2023	12:51 am
79) 07270158.D 2307278-006A	DX_220112.M	141	1.000	28 Jul 2023	01:02 am
80) 07270160.D 2307278-009A	DX_220112.M	144	1.000	28 Jul 2023	01:13 am
81) 07270162.D 2307278-010A	DX_220112.M	145	1.000	28 Jul 2023	01:24 am
82) 07270164.D CO	DX_220112.M	150	1.000	28 Jul 2023	01:35 am
83) 07270166.D OIL-CCV	DX_220112.M	2	1.000	28 Jul 2023	01:46 am
84) 07270168.D DX-CCV	DX_220112.M	1	1.000	28 Jul 2023	01:57 am
85) 07270170.D CO	DX_220112.M	150	1.000	28 Jul 2023	02:08 am
86) 07270172.D 2307278-012A	DX_220112.M	147	1.000	28 Jul 2023	02:18 am
87) 07270174.D 2307278-001A	DX_220112.M	133	1.000	28 Jul 2023	02:29 am
88) 07270176.D CO	DX_220112.M	150	1.000	28 Jul 2023	02:40 am
89) 07270178.D 2307278-001AMS	DX_220112.M	134	1.000	28 Jul 2023	02:51 am
90) 07270180.D CO	DX_220112.M	150	1.000	28 Jul 2023	03:02 am
91) 07270182.D 2307278-001AMSD	DX_220112.M	135	1.000	28 Jul 2023	03:13 am

92) 07270184.D CO	DX_220112.M	150	1.000	28 Jul 2023	03:24 am
93) 07270186.D 2307278-011A	DX_220112.M	146	1.000	28 Jul 2023	03:35 am
94) 07270188.D CO	DX_220112.M	150	1.000	28 Jul 2023	03:46 am
95) 07270190.D 2307278-008A	DX_220112.M	143	1.000	28 Jul 2023	03:57 am
96) 07270192.D CO	DX_220112.M	150	1.000	28 Jul 2023	04:08 am
97) 07270194.D 2307278-007A	DX_220112.M	142	1.000	28 Jul 2023	04:19 am
98) 07270196.D CO	DX_220112.M	150	1.000	28 Jul 2023	04:30 am
99) 07270198.D CO	DX_220112.M	150	1.000	28 Jul 2023	04:41 am
100) 07270200.D OIL-CCV	DX_220112.M	2	1.000	28 Jul 2023	04:52 am
101) 07270202.D DX-CCV	DX_220112.M	1	1.000	28 Jul 2023	05:03 am
102) 07270204.D CO	DX_220112.M	150	1.000	28 Jul 2023	05:14 am

Data Directory: D:\GC-24\Data\2023\230810FRONT\

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) 08100002.D CO	DX_220112.M	150	1.000	10 Aug 2023 08:40 am
2) 08100004.D OIL-CCV	DX_220112.M	2	1.000	10 Aug 2023 08:50 am
3) 08100006.D DX-CCV	DX_220112.M	1	1.000	10 Aug 2023 09:01 am
4) 08100008.D CO	DX_220112.M	150	1.000	10 Aug 2023 09:12 am
5) 08100010.D 2308049-001B 10x	DX_220112.M	29	1.000	10 Aug 2023 10:26 am
6) 08100012.D CO	DX_220112.M	150	1.000	10 Aug 2023 10:37 am
7) 08100014.D OIL-CCV	DX_220112.M	2	1.000	10 Aug 2023 10:47 am
8) 08100016.D DX-CCV	DX_220112.M	1	1.000	10 Aug 2023 10:58 am
9) 08100018.D CO	DX_220112.M	150	1.000	10 Aug 2023 11:09 am
10) 08100020.D MB-41160	DX_220112.M	31	1.000	10 Aug 2023 01:49 pm
11) 08100022.D LCS-41160	DX_220112.M	32	1.000	10 Aug 2023 02:00 pm
12) 08100024.D LCSD-41160	DX_220112.M	33	1.000	10 Aug 2023 02:11 pm
13) 08100026.D MB-41143	DX_220112.M	37	1.000	10 Aug 2023 02:21 pm
14) 08100028.D 2308107-001A	DX_220112.M	38	1.000	10 Aug 2023 02:32 pm
15) 08100030.D 2308107-002A	DX_220112.M	39	1.000	10 Aug 2023 02:43 pm
16) 08100032.D 2308107-003A	DX_220112.M	40	1.000	10 Aug 2023 02:54 pm
17) 08100034.D 2308107-004A	DX_220112.M	41	1.000	10 Aug 2023 03:05 pm
18) 08100036.D 2308107-005A	DX_220112.M	42	1.000	10 Aug 2023 03:16 pm
19) 08100038.D 2308094-001A	DX_220112.M	34	1.000	10 Aug 2023 03:27 pm
20) 08100040.D 2308099-001B	DX_220112.M	35	1.000	10 Aug 2023 03:38 pm
21) 08100042.D 2308099-002B	DX_220112.M	36	1.000	10 Aug 2023 03:49 pm

22)	08100044.D	DX_220112.M	150	1.000	10 Aug 2023	04:00	pm
23)	08100046.D	DX_220112.M	2	1.000	10 Aug 2023	04:11	pm
24)	08100048.D	DX_220112.M	1	1.000	10 Aug 2023	04:22	pm
25)	08100050.D	DX_220112.M	150	1.000	10 Aug 2023	04:33	pm
26)	08100052.D	DX_220112.M	51	1.000	10 Aug 2023	05:26	pm
27)	08100054.D	DX_220112.M	52	1.000	10 Aug 2023	05:37	pm
28)	08100056.D	DX_220112.M	56	1.000	10 Aug 2023	05:48	pm
29)	08100058.D	DX_220112.M	57	1.000	10 Aug 2023	05:59	pm
30)	08100060.D	DX_220112.M	58	1.000	10 Aug 2023	06:10	pm
31)	08100062.D	DX_220112.M	59	1.000	10 Aug 2023	06:21	pm
32)	08100064.D	DX_220112.M	60	1.000	10 Aug 2023	06:32	pm
33)	08100066.D	DX_220112.M	61	1.000	10 Aug 2023	06:43	pm
34)	08100068.D	DX_220112.M	62	1.000	10 Aug 2023	06:54	pm
35)	08100070.D	DX_220112.M	63	1.000	10 Aug 2023	07:05	pm
36)	08100072.D	DX_220112.M	64	1.000	10 Aug 2023	07:16	pm
37)	08100074.D	DX_220112.M	65	1.000	10 Aug 2023	07:27	pm
38)	08100076.D	DX_220112.M	150	1.000	10 Aug 2023	07:38	pm
39)	08100078.D	DX_220112.M	2	1.000	10 Aug 2023	07:49	pm
40)	08100080.D	DX_220112.M	1	1.000	10 Aug 2023	08:00	pm
41)	08100082.D	DX_220112.M	150	1.000	10 Aug 2023	08:11	pm
42)	08100084.D	DX_220112.M	66	1.000	10 Aug 2023	08:22	pm
43)	08100086.D	DX_220112.M	67	1.000	10 Aug 2023	08:33	pm
44)	08100088.D	DX_220112.M	69	1.000	10 Aug 2023	08:44	pm
45)	08100090.D	DX_220112.M					

2308159-002A			70	1.000	10 Aug 2023	08:55	pm
46) 08100092.D 2308159-003A	DX_220112.M		71	1.000	10 Aug 2023	09:05	pm
47) 08100094.D 2308159-004A	DX_220112.M		72	1.000	10 Aug 2023	09:16	pm
48) 08100096.D 2308159-005A	DX_220112.M		73	1.000	10 Aug 2023	09:27	pm
49) 08100098.D 2308152-001A	DX_220112.M		68	1.000	10 Aug 2023	09:38	pm
50) 08100100.D 2308139-001A	DX_220112.M		53	1.000	10 Aug 2023	09:49	pm
51) 08100102.D CO	DX_220112.M		150	1.000	10 Aug 2023	10:00	pm
52) 08100104.D 2308139-001AMS	DX_220112.M		54	1.000	10 Aug 2023	10:11	pm
53) 08100106.D CO	DX_220112.M		150	1.000	10 Aug 2023	10:22	pm
54) 08100108.D 2308139-001AMSD	DX_220112.M		55	1.000	10 Aug 2023	10:33	pm
55) 08100110.D CO	DX_220112.M		150	1.000	10 Aug 2023	10:44	pm
56) 08100112.D OIL-CCV	DX_220112.M		2	1.000	10 Aug 2023	10:55	pm
57) 08100114.D DX-CCV	DX_220112.M		1	1.000	10 Aug 2023	11:06	pm
58) 08100116.D CO	DX_220112.M		150	1.000	10 Aug 2023	11:17	pm
59) 08110002.D CO	DX_220112.M		150	1.000	11 Aug 2023	08:15	am
60) 08110004.D OIL-CCV	DX_220112.M		2	1.000	11 Aug 2023	08:25	am
61) 08110006.D DX-CCV	DX_220112.M		1	1.000	11 Aug 2023	08:36	am
62) 08110008.D CO	DX_220112.M		150	1.000	11 Aug 2023	08:47	am
63) 08110010.D 2308151-010A RR	DX_220112.M		65	1.000	11 Aug 2023	09:12	am
64) 08110012.D CO	DX_220112.M		150	1.000	11 Aug 2023	09:23	am
65) 08110014.D OIL-CCV	DX_220112.M		2	1.000	11 Aug 2023	09:34	am
66) 08110016.D DX-CCV	DX_220112.M		1	1.000	11 Aug 2023	09:44	am



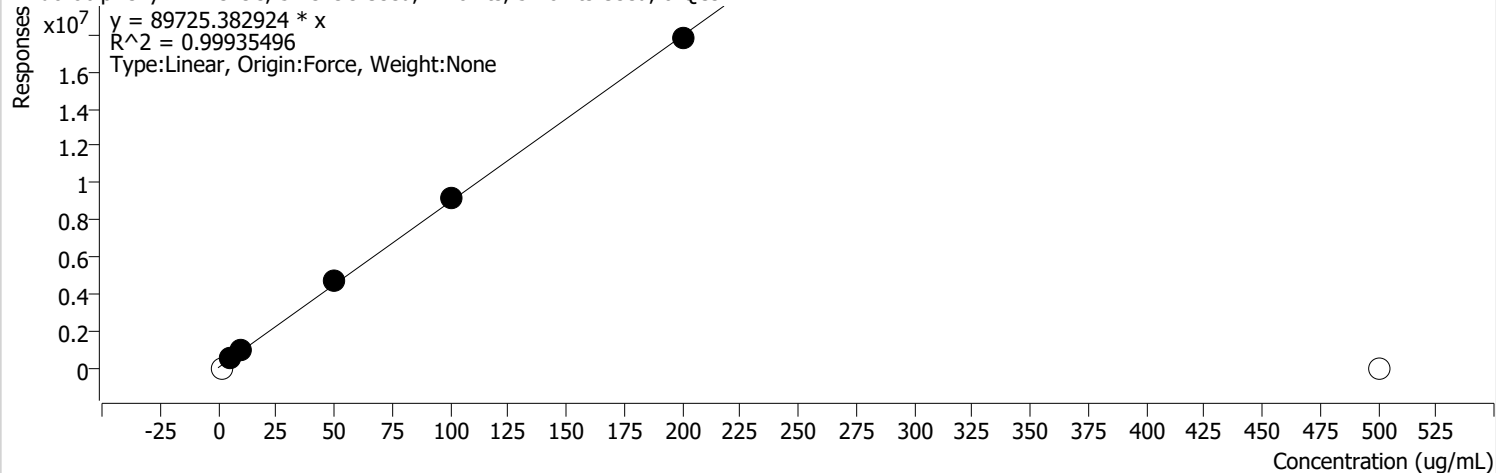
Calibration

Calibration Report

Batch Path	D:\GC-24\Data\2023\230727FRONT\QuantResults\Dx-Oil Cal.batch.bin		
Analysis Time	7/28/2023 9:47:30 AM	Analyst Name	FA\GC24
Report Time	7/28/2023 9:50:54 AM	Reporter Name	GC24
Last Calib Update	7/28/2023 9:45:03 AM	Batch State	Processed

2-Fluorobiphenyl

2-Fluorobiphenyl - 7 Levels, 5 Levels Used, 7 Points, 5 Points Used, 0 QCs



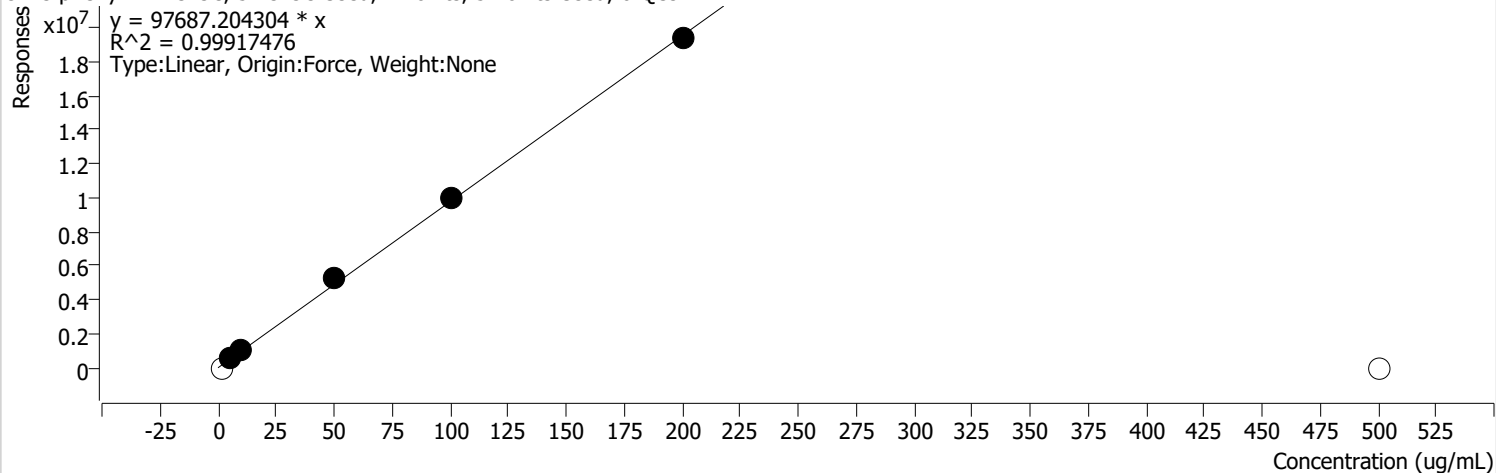
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-24\Data\2023\230727FRONT\07270048.D	Calibration	1		0	2.0000	0.0000
D:\GC-24\Data\2023\230727FRONT\07270006.D	Calibration	2	x	499781	5.0000	99956.2936
D:\GC-24\Data\2023\230727FRONT\07270008.D	Calibration	3	x	1001008	10.0000	100100.7802
D:\GC-24\Data\2023\230727FRONT\07270010.D	Calibration	4	x	4748564	50.0000	94971.2777
D:\GC-24\Data\2023\230727FRONT\07270012.D	Calibration	5	x	9133555	100.0000	91335.5456
D:\GC-24\Data\2023\230727FRONT\07270014.D	Calibration	6	x	17792528	200.0000	88962.6410
D:\GC-24\Data\2023\230727FRONT\07270016.D	Calibration	7		0	500.0000	0.0000

Calibration Report

Batch Path	D:\GC-24\Data\2023\230727FRONT\QuantResults\Dx-Oil Cal.batch.bin		
Analysis Time	7/28/2023 9:47:30 AM	Analyst Name	FA\GC24
Report Time	7/28/2023 9:50:56 AM	Reporter Name	GC24
Last Calib Update	7/28/2023 9:45:03 AM	Batch State	Processed

O-Terphenyl

O-Terphenyl - 7 Levels, 5 Levels Used, 7 Points, 5 Points Used, 0 QCs



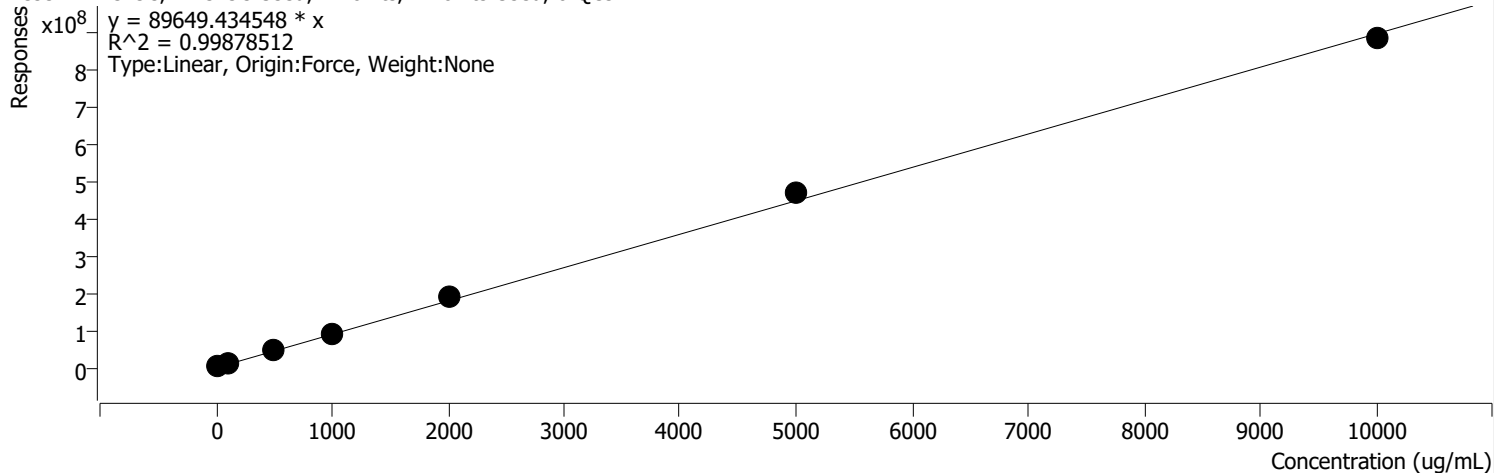
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-24\Data\2023\230727FRONT\07270048.D	Calibration	1		0	2.0000	0.0000
D:\GC-24\Data\2023\230727FRONT\07270006.D	Calibration	2	x	559603	5.0000	111920.5680
D:\GC-24\Data\2023\230727FRONT\07270008.D	Calibration	3	x	1118016	10.0000	111801.6431
D:\GC-24\Data\2023\230727FRONT\07270010.D	Calibration	4	x	5218661	50.0000	104373.2229
D:\GC-24\Data\2023\230727FRONT\07270012.D	Calibration	5	x	9941086	100.0000	99410.8621
D:\GC-24\Data\2023\230727FRONT\07270014.D	Calibration	6	x	19358846	200.0000	96794.2318
D:\GC-24\Data\2023\230727FRONT\07270016.D	Calibration	7		0	500.0000	0.0000

Calibration Report

Batch Path	D:\GC-24\Data\2023\230727FRONT\QuantResults\Dx-Oil Cal.batch.bin		
Analysis Time	7/28/2023 9:47:30 AM	Analyst Name	FA\GC24
Report Time	7/28/2023 9:50:56 AM	Reporter Name	GC24
Last Calib Update	7/28/2023 9:45:03 AM	Batch State	Processed

Diesel

Diesel - 7 Levels, 7 Levels Used, 7 Points, 7 Points Used, 0 QCs



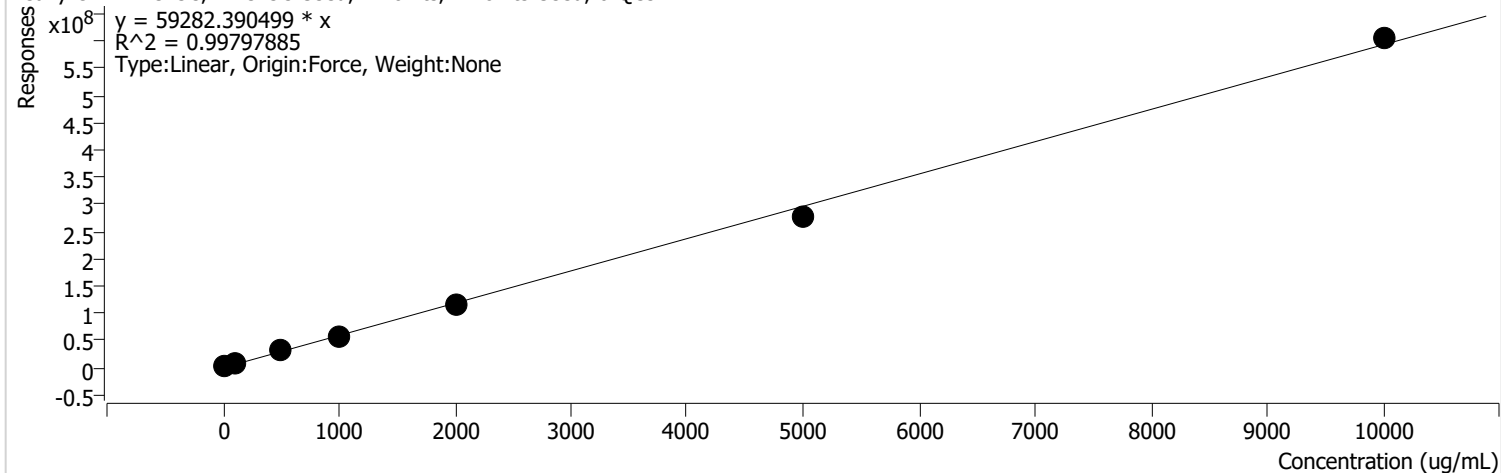
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-24\Data\2023\230727FRONT\07270032.D	Calibration	1	x	1532157	20.0000	76607.8377
D:\GC-24\Data\2023\230727FRONT\07270034.D	Calibration	2	x	8909518	100.0000	89095.1823
D:\GC-24\Data\2023\230727FRONT\07270036.D	Calibration	3	x	45292573	500.0000	90585.1454
D:\GC-24\Data\2023\230727FRONT\07270038.D	Calibration	4	x	91275534	1000.0000	91275.5337
D:\GC-24\Data\2023\230727FRONT\07270040.D	Calibration	5	x	188230632	2000.0000	94115.3159
D:\GC-24\Data\2023\230727FRONT\07270042.D	Calibration	6	x	470981718	5000.0000	94196.3435
D:\GC-24\Data\2023\230727FRONT\07270044.D	Calibration	7	x	883155794	10000.0000	88315.5794

Calibration Report

Batch Path	D:\GC-24\Data\2023\230727FRONT\QuantResults\Dx-Oil Cal.batch.bin		
Analysis Time	7/28/2023 9:47:30 AM	Analyst Name	FA\GC24
Report Time	7/28/2023 9:50:56 AM	Reporter Name	GC24
Last Calib Update	7/28/2023 9:45:03 AM	Batch State	Processed

Heavy Oil

Heavy Oil - 7 Levels, 7 Levels Used, 7 Points, 7 Points Used, 0 QCs



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-24\Data\2023\230727FRONT\07270048.D	Calibration	1	x	1139369	20.0000	56968.4627
D:\GC-24\Data\2023\230727FRONT\07270006.D	Calibration	2	x	6651487	100.0000	66514.8704
D:\GC-24\Data\2023\230727FRONT\07270008.D	Calibration	3	x	32500169	500.0000	65000.3388
D:\GC-24\Data\2023\230727FRONT\07270010.D	Calibration	4	x	56908464	1000.0000	56908.4636
D:\GC-24\Data\2023\230727FRONT\07270012.D	Calibration	5	x	117299033	2000.0000	58649.5166
D:\GC-24\Data\2023\230727FRONT\07270014.D	Calibration	6	x	275285166	5000.0000	55057.0333
D:\GC-24\Data\2023\230727FRONT\07270016.D	Calibration	7	x	603727752	10000.0000	60372.7752

Heavy Oil Calibration

Date: 7/27/23

Oil CAL STD: 28320

Concentration: 50,000 ug/L

Analyst: AHP

Oil ICV (SS): 27047

Concentration: 50,000 ug/L

MeCl2: 7583

SURROGATE: 28541

Concentration: 1,000 ug/L

	Calibration Point (ppm)	Surr Cal Point (ppm)	MeCl2 (uL)	STD Conc (ppm)	STD Amt (uL)	Surr Amt (uL)	Final Vol. (mL)	Comments
21	20	2	980	1000*	20*	-	1	*Note: the 1000 point w/ HO and surr will be used to make points 100 and 20
22	100	5	900	1000*	100*	-	1	
23	500	10	980	50,000	10	10	1	
24	1000*	50	930	50,000	20	50	1	
25	2000	100	860	50,000	40	100	1	
26	5000	200	700	50,000	100	200	1	
27	10000	500 -	800 ⁵⁰⁰ 800	50,000	200	500	1	
28	ICB	-	990 ^{0.712}	-	-	10	1	
29	ICV (500)	10	980	50,000 SS	10 ^{SS}	10	1	

Signature and Date: Alex Posters 7/27/23

Diesel Calibration

Date: 7/27/23

DX CAL STD: 27149

Concentration: 50,000 ug/L

Analyst: AHP

DX ICV (SS): 28397

Concentration: 50,000 ug/L

MeCl₂: 7583

Surr: 28541

Concentration 1000 mg/L

Calibration Point (ppm)	MeCl ₂ (uL)	STD Conc (ppm)	STD Amt (uL)	Surr (uL)	Final Vol. (mL)	Comments
11 20	980	1000*	20	-	1	
12 100	900	1000*	100	-	1	
13 500	990	50,000	10	-	1	
14 1000*	980	50,000	20	-	1	
15 2000	960	50,000	40	-	1	
16 5000	900	50,000	100	-	1	*Note: the 1000 point will be used to make points 100 and 20
17 10000	800	50,000	200	-	1	
18 ICB	990	-	-	10	1	
19 ICV (500)	980	50,000 SS	10 ^{SS}	10	1	

Signature and Date: Alex Posen 7/27/23

DATA SET for Review - Deliverable Requirements

Gasoline by NWTPH-Gx

Fremont Analytical Work Order No. 2308316

GeoEngineers

Project Name: S Jackson Street

Project Number: 24504-001-01

This data set contains the following:

- Analytical Sequence Summary
- Calibration Information
- Tune Information
- Internal Standards Report

Data Directory: D:\GC-19\Data\082223\

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) 082346.D	8260.M			
No data found			0.000	N/A
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2) 082201.D	8260.M			
R	O-VOC-S		1.000	22 Aug 2023 08:33
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3) 082202.D	8260.M			
VOC S CCV A	O-VOC-S	1	1.000	22 Aug 2023 09:04
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4) 082203.D	8260.M			
VOC W CCV A	O-VOC-W	2	1.000	22 Aug 2023 09:34
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5) 082204.D	8260.M			
GX CCV A	O-VOC-GX-S	3	1.000	22 Aug 2023 10:04
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6) 082205.D	8260.M			
TBA CRM	O-VOC-S	4	1.000	22 Aug 2023 10:34
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7) 082206.D	8260.M			
R	O-VOC-S		1.000	22 Aug 2023 11:03
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8) 082207.D	8260.M			
R	O-VOC-S		1.000	22 Aug 2023 11:44
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9) 082208.D	8260.M			
R	O-VOC-S		1.000	22 Aug 2023 12:13
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10) 082209.D	8260.M			
R	O-VOC-S		1.000	22 Aug 2023 12:42
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11) 082210.D	8260.M			
R	O-VOC-S		1.000	22 Aug 2023 13:10
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12) 082211.D	8260.M			
R	O-VOC-S		1.000	22 Aug 2023 13:39
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13) 082212.D	8260.M			
R	O-VOC-S		1.000	22 Aug 2023 14:08
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14) 082213.D	8260.M			
R	O-VOC-S		1.000	22 Aug 2023 14:37
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15) 082214.D	8260.M			
R	O-VOC-S		1.000	22 Aug 2023 15:06
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16) 082215.D	8260.M			
R	O-VOC-S		1.000	22 Aug 2023 15:35
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17) 082216.D	8260.M			
R	O-VOC-S		1.000	22 Aug 2023 16:04
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18) 082217.D	8260.M			
R	O-VOC-S		1.000	22 Aug 2023 16:55
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19) 082218.D	8260.M			
VOC W ICAL 1	O-VOC-W	20	1.000	22 Aug 2023 17:25
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20) 082219.D	8260.M			
VOC W ICAL 2	O-VOC-W	21	1.000	22 Aug 2023 17:55
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21) 082220.D	8260.M			
VOC W ICAL 3	O-VOC-W	22	1.000	22 Aug 2023 18:25
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22)	082221.D	8260.M				
VOC W	ICAL 4	O-VOC-W	23	1.000	22 Aug 2023	18:56
23)	082222.D	8260.M				
VOC W	ICAL 5	O-VOC-W	24	1.000	22 Aug 2023	19:26
24)	082223.D	8260.M				
VOC W	ICAL 6	O-VOC-W	25	1.000	22 Aug 2023	19:56
25)	082224.D	8260.M				
VOC W	ICAL 7	O-VOC-W	26	1.000	22 Aug 2023	20:26
26)	082225.D	8260.M				
VOC W	ICAL 8	O-VOC-W	27	1.000	22 Aug 2023	20:56
27)	082226.D	8260.M				
VOC W	ICAL 9	O-VOC-W	28	1.000	22 Aug 2023	21:26
28)	082227.D	8260.M				
R		O-VOC-W		1.000	22 Aug 2023	21:55
29)	082228.D	8260.M				
R		O-VOC-W		1.000	22 Aug 2023	22:24
30)	082229.D	8260.M				
R		O-VOC-W		1.000	22 Aug 2023	22:53
31)	082230.D	8260.M				
VOC W	ICB	O-VOC-W	29	1.000	22 Aug 2023	23:23
32)	082231.D	8260.M				
VOC W	ICV	O-VOC-W	30	1.000	22 Aug 2023	23:53
33)	082232.D	8260.M				
VOC S	CCV AA	O-VOC-S	31	1.000	23 Aug 2023	00:23
34)	082233.D	8260.M				
GX	CCV AA	O-VOC-GX-S	57	1.000	23 Aug 2023	00:54
35)	082234.D	8260.M				
R		O-VOC-GX-S		1.000	23 Aug 2023	01:22
36)	082235.D	8260.M				
MB-41276		O-VOC-GX-S	32	1.000	23 Aug 2023	01:53
37)	082236.D	8260.M				
2308300-001B		O-VOC-GX-S	33	1.000	23 Aug 2023	02:23
38)	082237.D	8260.M				
R		O-VOC-GX-S		1.000	23 Aug 2023	02:52
39)	082238.D	8260.M				
2308233-001B		O-VOC-GX-S	34	1.000	23 Aug 2023	03:22
40)	082239.D	8260.M				
2308233-002B		O-VOC-GX-S	35	1.000	23 Aug 2023	03:52
41)	082240.D	8260.M				
2308233-002BDUP		O-VOC-GX-S	36	1.000	23 Aug 2023	04:22
42)	082241.D	8260.M				
2308233-003B		O-VOC-GX-S	37	1.000	23 Aug 2023	04:52
43)	082242.D	8260.M				
2308263-001B		O-VOC-GX-S	38	1.000	23 Aug 2023	05:22
44)	082243.D	8260.M				
2308263-002B		O-VOC-GX-S	39	1.000	23 Aug 2023	05:53
45)	082244.D	8260.M				

2308263-002BDUP	O-VOC-GX-S	40	1.000	23 Aug 2023	06:23
46) 082245.D	8260.M				
2308263-003B	O-VOC-GX-S	41	1.000	23 Aug 2023	06:53
47) 082246.D	8260.M				
2308263-004B	O-VOC-GX-S	59	1.000	23 Aug 2023	07:23
48) 082247.D	8260.M				
2308273-001B	O-VOC-GX-S	42	1.000	23 Aug 2023	07:53
49) 082248.D	8260.M				
2308273-002B	O-VOC-GX-S	43	1.000	23 Aug 2023	08:23
50) 082249.D	8260.M				
2308273-003B	O-VOC-GX-S	44	1.000	23 Aug 2023	08:54
51) 082250.D	8260.M				
2308277-001A	O-VOC-W	60	1.000	23 Aug 2023	09:24
52) 082251.D	8260.M				
2308277-002A 200x	O-VOC-W	61	1.000	23 Aug 2023	09:54
53) 082252.D	8260.M				
2308233-001BMS VOC	O-VOC-GX-S	45	1.000	23 Aug 2023	10:23
54) 082255.D	8260.M				
2308277-002ADUP 200x	O-VOC-W	62	1.000	23 Aug 2023	10:53
55) 082256.D	8260.M				
R	O-VOC-GX-S		1.000	23 Aug 2023	11:22
56) 082257.D	8260.M				
VOC S CCV B	O-VOC-GX-S	47	1.000	23 Aug 2023	11:52
57) 082258.D	8260.M				
GX CCV B	O-VOC-GX-S	48	1.000	23 Aug 2023	12:22
58) 082259.D	8260.M				
R	O-VOC-GX-S		1.000	23 Aug 2023	12:51
59) 082260.D	8260.M				
2308299-001B	O-VOC-GX-S	49	1.000	23 Aug 2023	13:21
60) 082261.D	8260.M				
2308299-002B	O-VOC-GX-S	50	1.000	23 Aug 2023	13:51
61) 082262.D	8260.M				
2308299-003B	O-VOC-GX-S	51	1.000	23 Aug 2023	14:22
62) 082263.D	8260.M				
2308299-004B	O-VOC-GX-S	52	1.000	23 Aug 2023	14:52
63) 082264.D	8260.M				
R	O-VOC-S	53	1.000	23 Aug 2023	15:22
64) 082265.D	8260.M				
2308299-005B	O-VOC-GX-S	65	1.000	23 Aug 2023	15:52
65) 082266.D	8260.M				
2308239-001B	O-VOC-S	63	1.000	23 Aug 2023	16:22
66) 082267.D	8260.M				
2308239-002B	O-VOC-S	64	1.000	23 Aug 2023	16:57
67) 082268.D	8260.M				
R	O-VOC-S		1.000	23 Aug 2023	17:26
68) 082269.D	8260.M				
R	O-VOC-S		1.000	23 Aug 2023	17:55

69)	082270.D		8260.M						
R		O-VOC-S		1.000	23 Aug 2023	18:24			
70)	082271.D		8260.M						
2308233-001BMS	VOC	O-VOC-S	45	1.000	23 Aug 2023	18:54			
71)	082272.D		8260.M						
2308263-001BMS	GX	O-VOC-GX-S	46	1.000	23 Aug 2023	19:24			
72)	082273.D		8260.M						
R		O-VOC-S		1.000	23 Aug 2023	19:53			
73)	082274.D		8260.M						
R		O-VOC-S		1.000	23 Aug 2023	20:22			
74)	082275.D		8260.M						
VOC S CCV C		O-VOC-S	58	1.000	23 Aug 2023	20:52			
75)	082276.D		8260.M						
GX CCV C		O-VOC-GX-S	54	1.000	23 Aug 2023	21:22			
76)	082277.D		8260.M						
VOC W CCV B		O-VOC-W	66	1.000	23 Aug 2023	21:52			
77)	082278.D		8260.M						
R		O-VOC-W		1.000	23 Aug 2023	22:21			
78)	082279.D		8260.M						
2308302-001A		O-VOC-W	67	1.000	23 Aug 2023	22:51			
79)	082280.D		8260.M						
2308302-001ADUP		O-VOC-W	68	1.000	23 Aug 2023	23:21			
80)	082281.D		8260.M						
2308302-002A		O-VOC-W	69	1.000	23 Aug 2023	23:52			
81)	082282.D		8260.M						
2308302-003A		O-VOC-W	70	1.000	24 Aug 2023	00:22			
82)	082283.D		8260.M						
2308302-004A		O-VOC-W	71	1.000	24 Aug 2023	00:52			
83)	082284.D		8260.M						
2308302-005A		O-VOC-W	72	1.000	24 Aug 2023	01:22			
84)	082285.D		8260.M						
2308302-006A		O-VOC-W	73	1.000	24 Aug 2023	01:52			
85)	082286.D		8260.M						
2308302-007A		O-VOC-W	74	1.000	24 Aug 2023	02:23			
86)	082287.D		8260.M						
2308302-008A		O-VOC-W	75	1.000	24 Aug 2023	02:53			
87)	082288.D		8260.M						
2308302-009A		O-VOC-W	76	1.000	24 Aug 2023	03:23			
88)	082289.D		8260.M						
2308302-010A		O-VOC-W	77	1.000	24 Aug 2023	03:53			
89)	082290.D		8260.M						
2308302-011A		O-VOC-W	78	1.000	24 Aug 2023	04:23			
90)	082291.D		8260.M						
2308302-012A		O-VOC-W	79	1.000	24 Aug 2023	04:54			
91)	082292.D		8260.M						
2308302-002AMS	VOC	O-VOC-W	80	1.000	24 Aug 2023	05:24			

92)	082293.D	8260.M					
2308302-004	AMS GX	O-VOC-GX-W	81	1.000	24 Aug 2023	05:54	
93)	082294.D	8260.M					
R		O-VOC-GX-W		1.000	24 Aug 2023	06:23	
94)	082295.D	8260.M					
VOC S CCV A		O-VOC-S	1	1.000	24 Aug 2023	06:53	
95)	082296.D	8260.M					
GX CCV D		O-VOC-GX-W	82	1.000	24 Aug 2023	07:23	
96)	082297.D	8260.M					
R		O-VOC-GX-W		1.000	24 Aug 2023	07:52	
97)	082298.D	8260.M					
MB S		O-VOC-S	2	1.000	24 Aug 2023	08:22	
98)	082299.D	8260.M					
2308312-001B		O-VOC-S	3	1.000	24 Aug 2023	08:52	
99)	082300.D	8260.M					
2308316-002B		O-VOC-S	4	1.000	24 Aug 2023	09:23	
100)	082301.D	8260.M					
R		O-VOC-S		1.000	24 Aug 2023	09:51	
101)	082302.D	8260.M					
2308239-001B 100X		O-VOC-S	6	1.000	24 Aug 2023	10:22	
102)	082303.D	8260.M					
2308239-002B 100X		O-VOC-S	7	1.000	24 Aug 2023	10:52	
103)	082304.D	8260.M					
2308299-004B 50X		O-VOC-S	8	1.000	24 Aug 2023	11:22	
104)	082305.D	8260.M					
2308299-005B 50X		O-VOC-S	9	1.000	24 Aug 2023	11:52	
105)	082306.D	8260.M					
2308239-001B 50X		O-VOC-S	10	1.000	24 Aug 2023	12:21	
106)	082307.D	8260.M					
R		O-VOC-S		1.000	24 Aug 2023	12:51	
107)	082312.D	8260.M					
2308239-001B 50X r..		O-VOC-S	10	1.000	24 Aug 2023	13:20	
108)	082313.D	8260.M					
2308239-001B 50X r..		O-VOC-S	10	1.000	24 Aug 2023	13:52	
109)	082314.D	8260.M					
2308316-002BDUP		O-VOC-S	11	1.000	24 Aug 2023	14:22	
110)	082315.D	8260.M					
2308239-001B 10X		O-VOC-S	12	1.000	24 Aug 2023	14:52	
111)	082316.D	8260.M					
2308239-002B 10X		O-VOC-S	13	1.000	24 Aug 2023	15:23	
112)	082317.D	8260.M					
2308239-005B 10X		O-VOC-S	14	1.000	24 Aug 2023	15:53	
113)	082318.D	8260.M					
GX CCV F		O-VOC-S	15	1.000	24 Aug 2023	16:23	
114)	082319.D	8260.M					
VOC S CCV B		O-VOC-S	16	1.000	24 Aug 2023	16:53	
115)	082320.D	8260.M					

		O-VOC-S		1.000	24 Aug 2023	17:22
116)	082321.D	8260.M				
R		O-VOC-S		1.000	24 Aug 2023	17:51
117)	082322.D	8260.M				
mb s		O-VOC-S	17	1.000	24 Aug 2023	18:43
118)	082323.D	8260.M				
2308286-001B		O-VOC-S	18	1.000	24 Aug 2023	19:13
119)	082324.D	8260.M				
2308286-001BDUP		O-VOC-S	19	1.000	24 Aug 2023	19:43
120)	082325.D	8260.M				
2308286-003B		O-VOC-S	20	1.000	24 Aug 2023	20:13
121)	082326.D	8260.M				
2308286-005B		O-VOC-S	21	1.000	24 Aug 2023	20:43
122)	082327.D	8260.M				
2308286-007B		O-VOC-S	22	1.000	24 Aug 2023	21:13
123)	082328.D	8260.M				
2308286-008B		O-VOC-S	23	1.000	24 Aug 2023	21:44
124)	082329.D	8260.M				
2308286-009B		O-VOC-S	24	1.000	24 Aug 2023	22:14
125)	082330.D	8260.M				
2308286-010B		O-VOC-S	25	1.000	24 Aug 2023	22:44
126)	082331.D	8260.M				
2308286-011B		O-VOC-S	26	1.000	24 Aug 2023	23:14
127)	082332.D	8260.M				
2308286-012B		O-VOC-S	27	1.000	24 Aug 2023	23:44
128)	082333.D	8260.M				
2308286-013B		O-VOC-S	28	1.000	25 Aug 2023	00:14
129)	082334.D	8260.M				
2308316-001B		O-VOC-S	29	1.000	25 Aug 2023	00:44
130)	082335.D	8260.M				
2308316-003B		O-VOC-S	30	1.000	25 Aug 2023	01:15
131)	082336.D	8260.M				
2308316-004B		O-VOC-S	31	1.000	25 Aug 2023	01:45
132)	082337.D	8260.M				
2308286-005BMS VOC		O-VOC-S	32	1.000	25 Aug 2023	02:15
133)	082338.D	8260.M				
2308316-007BMS GX		O-VOC-S	33	1.000	25 Aug 2023	02:45
134)	082339.D	8260.M				
R		O-VOC-S		1.000	25 Aug 2023	03:14
135)	082340.D	8260.M				
VOC S CCV X		O-VOC-S	34	1.000	25 Aug 2023	03:44
136)	082341.D	8260.M				
GX CCV X		O-VOC-S	35	1.000	25 Aug 2023	04:14
137)	082342.D	8260.M				
R		O-VOC-S		1.000	25 Aug 2023	04:43
138)	082343.D	8260.M				
R		O-VOC-S		1.000	25 Aug 2023	05:12

139) 082344.D 8260.M
R O-VOC-S 1.000 25 Aug 2023 05:41

140) 082345.D 8260.M
R O-VOC-S 1.000 25 Aug 2023 06:10

Data Directory: D:\GC-19\Data\082123\

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3) 082102.D	8260.M			
RT UPDATE	O-VOC-S	2	1.000	21 Aug 2023 10:09
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4) 082103.D	8260.M			
R	O-VOC-S		1.000	21 Aug 2023 10:38
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5) 082104.D	8260.M			
R	O-VOC-S		1.000	21 Aug 2023 11:07
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6) 082105.D	8260.M			
R	O-VOC-S		1.000	21 Aug 2023 11:36
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7) 082106.D	8260.M			
R	O-VOC-S		1.000	21 Aug 2023 12:05
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8) 082107.D	8260.M			
R	O-VOC-S		1.000	21 Aug 2023 12:34
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9) 082108.D	8260.M			
R	O-VOC-S		1.000	21 Aug 2023 13:02
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R	O-VOC-S		1.000	21 Aug 2023 13:31
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11) 082110.D	8260.M			
R	O-VOC-S		1.000	21 Aug 2023 14:00
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12) 082111.D	8260.M			
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13) 082112.D	8260.M			
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14) 082113.D	8260.M			
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17) 082116.D	8260.M			
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18) 082117.D	8260.M			
R	O-VOC-S		1.000	21 Aug 2023 17:23
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19) 082118.D	8260.M			
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20) 082119.D	8260.M			
R	O-VOC-S		1.000	21 Aug 2023 18:20
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21) 082120.D	8260.M			
VOC S CAL 1	O-VOC-S	1	1.000	21 Aug 2023 18:51

22)	082121.D	8260.M					
VOC S	CAL 2	O-VOC-S	2	1.000	21 Aug 2023	19:21	

23)	082122.D	8260.M					
VOC S	CAL 3	O-VOC-S	3	1.000	21 Aug 2023	19:51	

24)	082123.D	8260.M					
VOC S	CAL 4	O-VOC-S	4	1.000	21 Aug 2023	20:21	

25)	082124.D	8260.M					
VOC S	CAL 5	O-VOC-S	5	1.000	21 Aug 2023	20:51	

26)	082125.D	8260.M					
VOC S	CAL 6	O-VOC-S	6	1.000	21 Aug 2023	21:21	

27)	082126.D	8260.M					
VOC S	CAL 7	O-VOC-S	7	1.000	21 Aug 2023	21:52	

28)	082127.D	8260.M					
VOC S	CAL 8	O-VOC-S	8	1.000	21 Aug 2023	22:22	

29)	082128.D	8260.M					
R		O-VOC-S		1.000	21 Aug 2023	22:51	

30)	082129.D	8260.M					
R		O-VOC-S		1.000	21 Aug 2023	23:19	

31)	082130.D	8260.M					
ICB		O-VOC-S	9	1.000	21 Aug 2023	23:50	

32)	082131.D	8260.M					
VOC S	ICV	O-VOC-S	10	1.000	22 Aug 2023	00:20	

33)	082132.D	8260.M					
R		O-VOC-S		1.000	22 Aug 2023	00:49	

34)	082133.D	8260.M					
R		O-VOC-S		1.000	22 Aug 2023	01:17	

35)	082134.D	8260.M					
R		O-VOC-S		1.000	22 Aug 2023	01:46	

36)	082135.D	8260.M					
GX	CAL 1	O-VOC-GX-S	11	1.000	22 Aug 2023	02:17	

37)	082136.D	8260.M					
GX	CAL 2	O-VOC-GX-S	12	1.000	22 Aug 2023	02:47	

38)	082137.D	8260.M					
GX	CAL 3	O-VOC-GX-S	13	1.000	22 Aug 2023	03:17	

39)	082138.D	8260.M					
GX	CAL 4	O-VOC-GX-S	14	1.000	22 Aug 2023	03:47	

40)	082139.D	8260.M					
GX	CAL 5	O-VOC-GX-S	15	1.000	22 Aug 2023	04:17	

41)	082140.D	8260.M					
GX	CAL 6	O-VOC-GX-S	16	1.000	22 Aug 2023	04:47	

42)	082141.D	8260.M					
GX	CAL 7	O-VOC-GX-S	17	1.000	22 Aug 2023	05:18	

43)	082142.D	8260.M					
R		O-VOC-GX-S		1.000	22 Aug 2023	05:46	

44)	082143.D	8260.M					
R		O-VOC-GX-S		1.000	22 Aug 2023	06:15	

45)	082144.D	8260.M					

ICB	O-VOC-GX-S	18	1.000	22 Aug 2023	06:45

46) 082202.D	8260.M				
VOC S CCV A	O-VOC-S	1	1.000	22 Aug 2023	09:04

47) 082203.D	8260.M				
VOC W CCV A	O-VOC-W	2	1.000	22 Aug 2023	09:34

48) 082204.D	8260.M				
GX CCV A	O-VOC-GX-S	3	1.000	22 Aug 2023	10:04

49) 082205.D	8260.M				
TBA CRM	O-VOC-S	4	1.000	22 Aug 2023	10:34

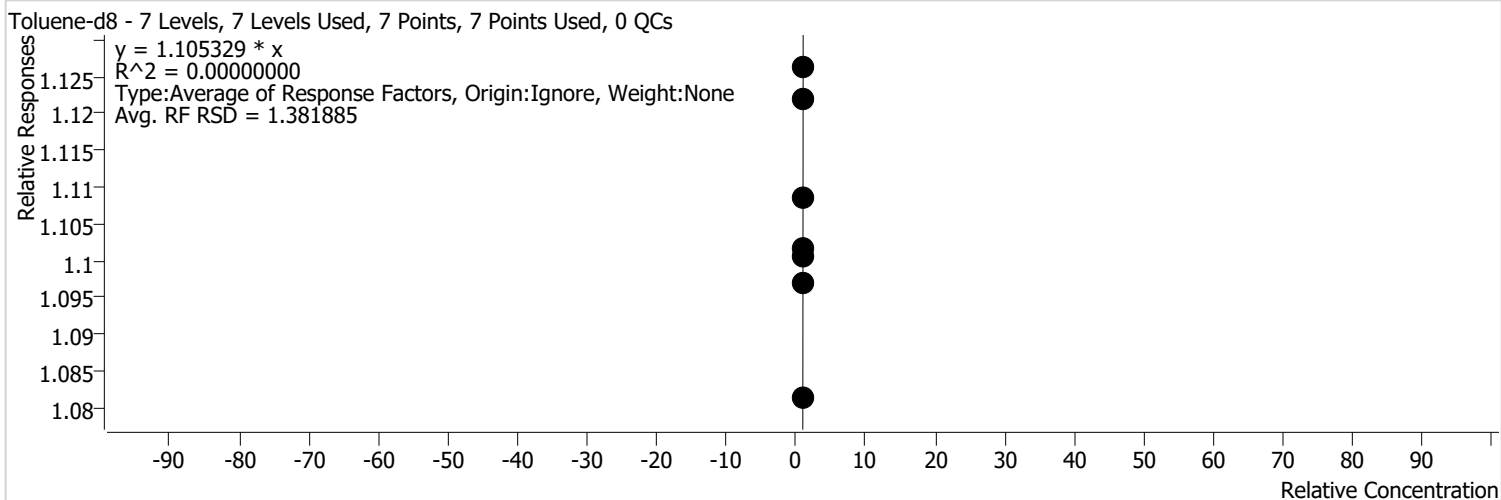


Calibration

Calibration Report

Batch Path	D:\GC-19\Data\082123\QuantResults\GX CAL.batch.bin		
Analysis Time	8/22/2023 10:27 AM	Analyst Name	FA\GC19
Report Time	8/22/2023 3:29:15 PM	Reporter Name	FA\GC19
Last Calib Update	8/22/2023 7:54 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Toluene-d8 %RSE =

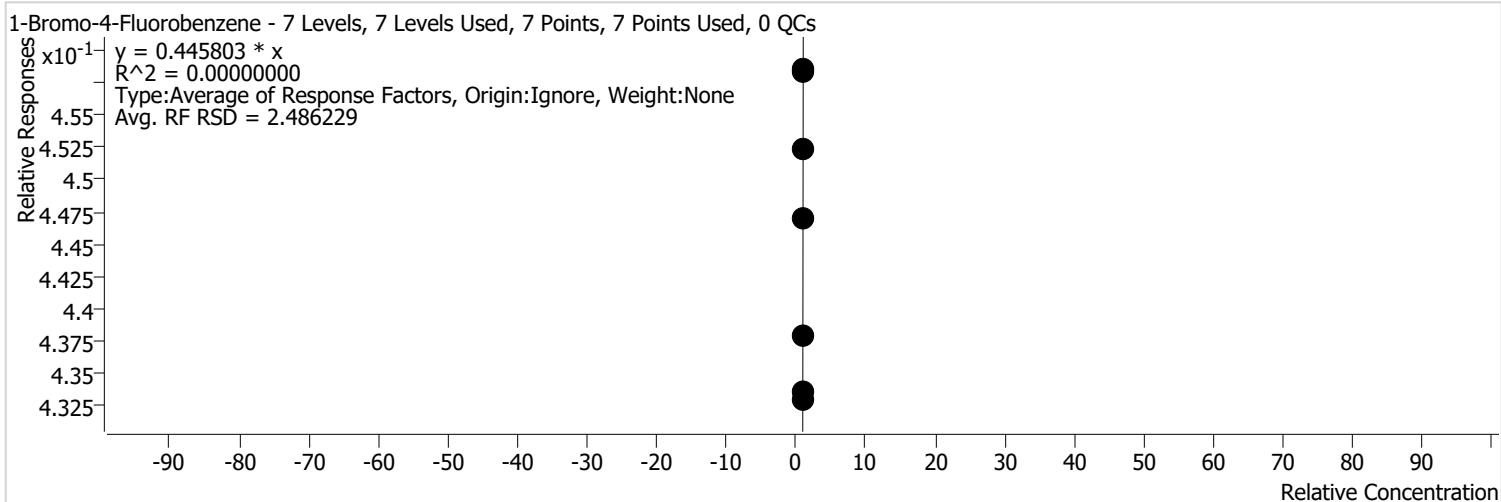


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\082123\082141.D	Calibration	7	x	2141770	25.0000	1.1220	
D:\GC-19\Data\082123\082140.D	Calibration	6	x	2070160	25.0000	1.1262	
D:\GC-19\Data\082123\082139.D	Calibration	5	x	2031145	25.0000	1.1084	
D:\GC-19\Data\082123\082138.D	Calibration	4	x	1921643	25.0000	1.1006	
D:\GC-19\Data\082123\082137.D	Calibration	3	x	1877196	25.0000	1.0971	
D:\GC-19\Data\082123\082136.D	Calibration	2	x	1875255	25.0000	1.0814	
D:\GC-19\Data\082123\082135.D	Calibration	1	x	1774661	25.0000	1.1016	

Calibration Report

Batch Path	D:\GC-19\Data\082123\QuantResults\GX CAL.batch.bin		
Analysis Time	8/22/2023 10:27 AM	Analyst Name	FA\GC19
Report Time	8/22/2023 3:29:16 PM	Reporter Name	FA\GC19
Last Calib Update	8/22/2023 7:54 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1-Bromo-4-Fluorobenzene %RSE =



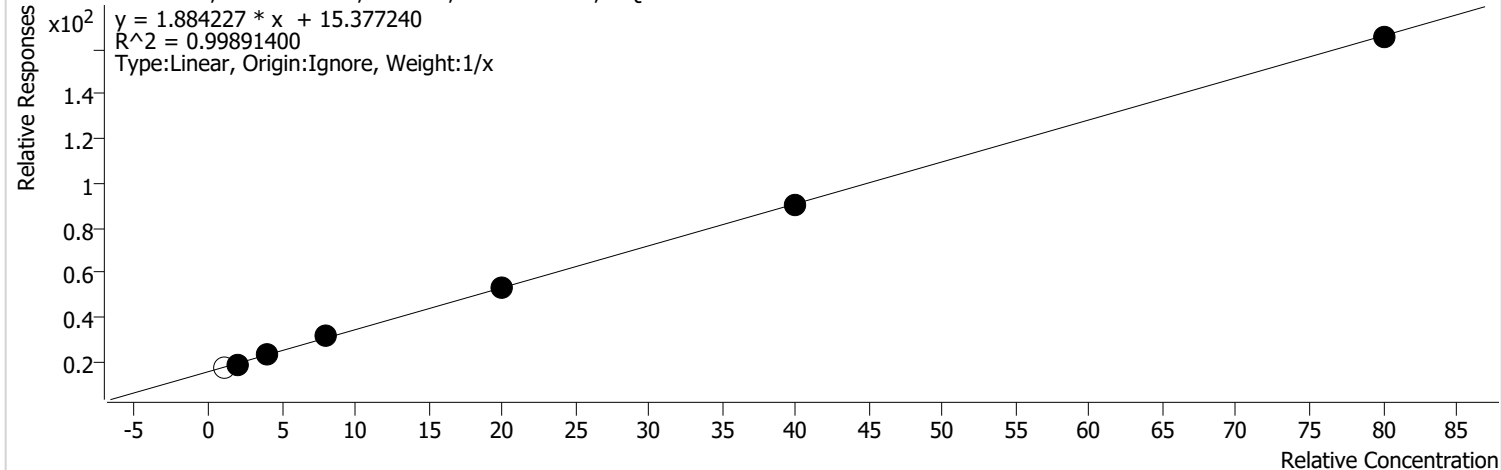
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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D:\GC-19\Data\082123\082140.D	Calibration	6	x	796052	25.0000	0.4331	
D:\GC-19\Data\082123\082139.D	Calibration	5	x	802442	25.0000	0.4379	
D:\GC-19\Data\082123\082138.D	Calibration	4	x	780315	25.0000	0.4469	
D:\GC-19\Data\082123\082137.D	Calibration	3	x	774043	25.0000	0.4524	
D:\GC-19\Data\082123\082136.D	Calibration	2	x	794808	25.0000	0.4584	
D:\GC-19\Data\082123\082135.D	Calibration	1	x	738616	25.0000	0.4585	

Calibration Report

Batch Path	D:\GC-19\Data\082123\QuantResults\GX CAL.batch.bin		
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Report Time	8/22/2023 3:29:16 PM	Reporter Name	FA\GC19
Last Calib Update	8/22/2023 7:54 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

GASOLINE %RSE = 8.4

GASOLINE - 7 Levels, 6 Levels Used, 7 Points, 6 Points Used, 0 QCs



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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D:\GC-19\Data\082123\082136.D	Calibration	2	x	28366580	50.0000	9.3344	
D:\GC-19\Data\082123\082137.D	Calibration	3	x	34171950	100.0000	5.8133	
D:\GC-19\Data\082123\082138.D	Calibration	4	x	47187219	200.0000	3.9953	
D:\GC-19\Data\082123\082139.D	Calibration	5	x	78993166	500.0000	2.6286	
D:\GC-19\Data\082123\082140.D	Calibration	6	x	135191447	1000.0000	2.2692	
D:\GC-19\Data\082123\082141.D	Calibration	7	x	254251813	2000.0000	2.0651	

GX Calibration



Date: 8/21/23
 Analyst: CC
 Instrument: GC-19

Cal	ICV
GX Standard: <u>28755</u>	GX Standard: <u>28565</u>

IS/Surrogate 28662

Cal Level	Spike Conc. (ppb)	Cal GX Spike (uL)	ICV GX Spike (uL)	Final Vol. (mL)	Comments
1	25	0.50	--	50	
2	50	1.00	--	50	
3	100	2.00	--	50	
4	200	4.00	--	50	
5	500	10.00	--	50	
6	1000	20.00	--	50	
7	2000	40.00	--	50	
	ICV (500 ppb)	--	10.00	50	<u>CC 8/21</u>

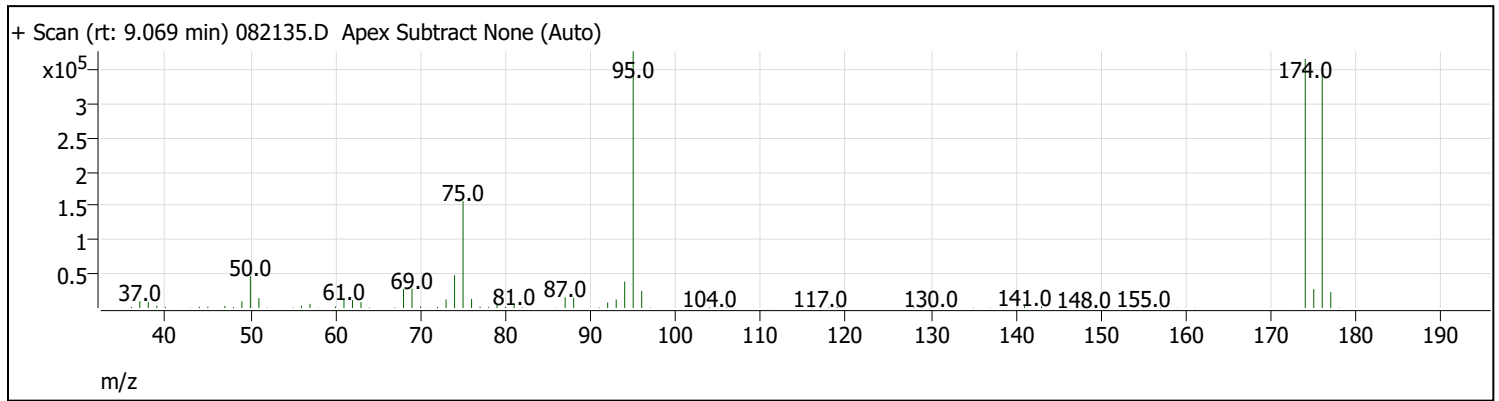
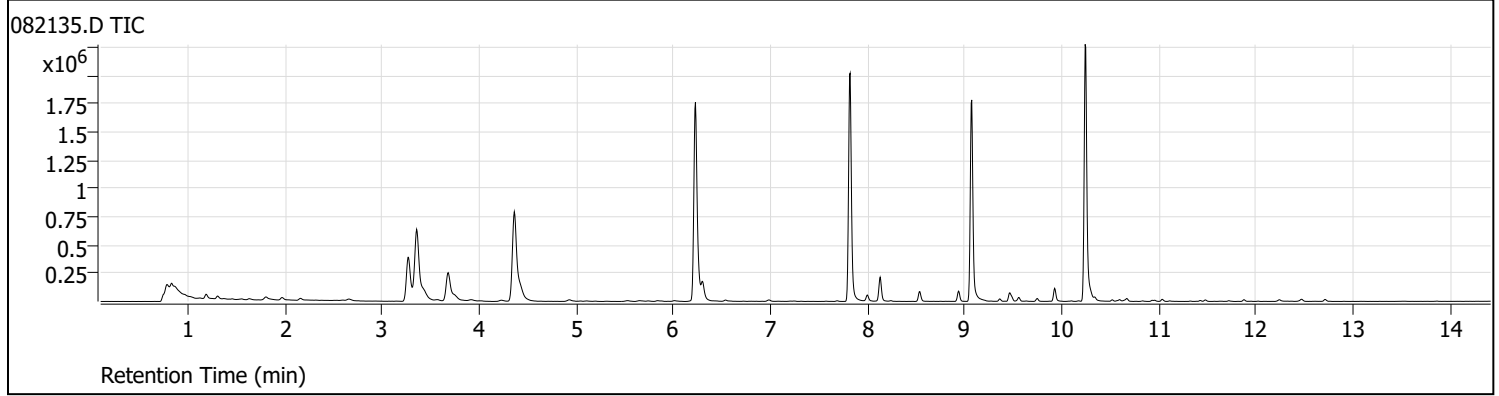
Signature and Date: 8/21/23



Tunes

Tune Evaluation Report

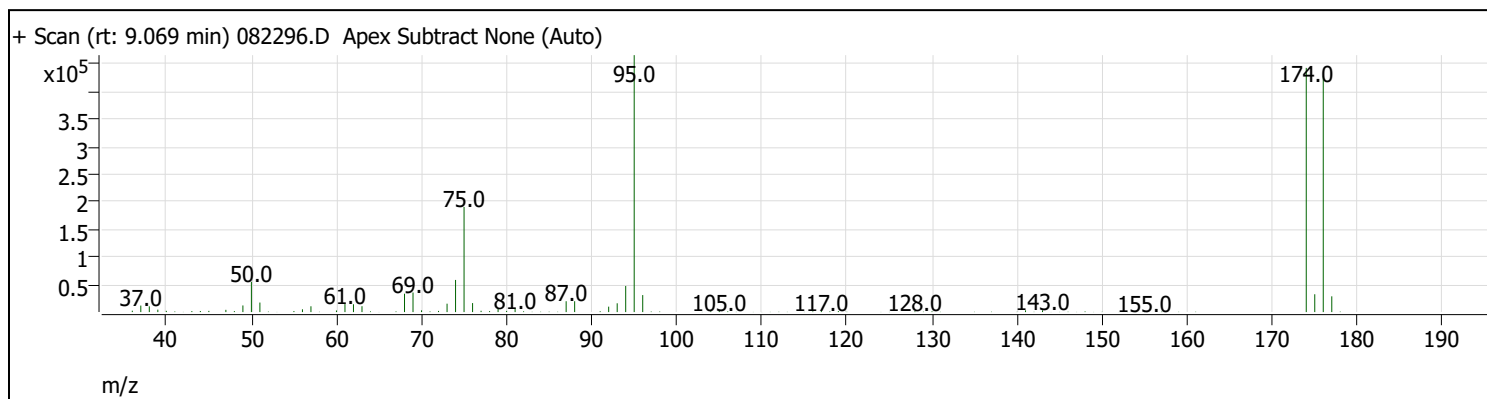
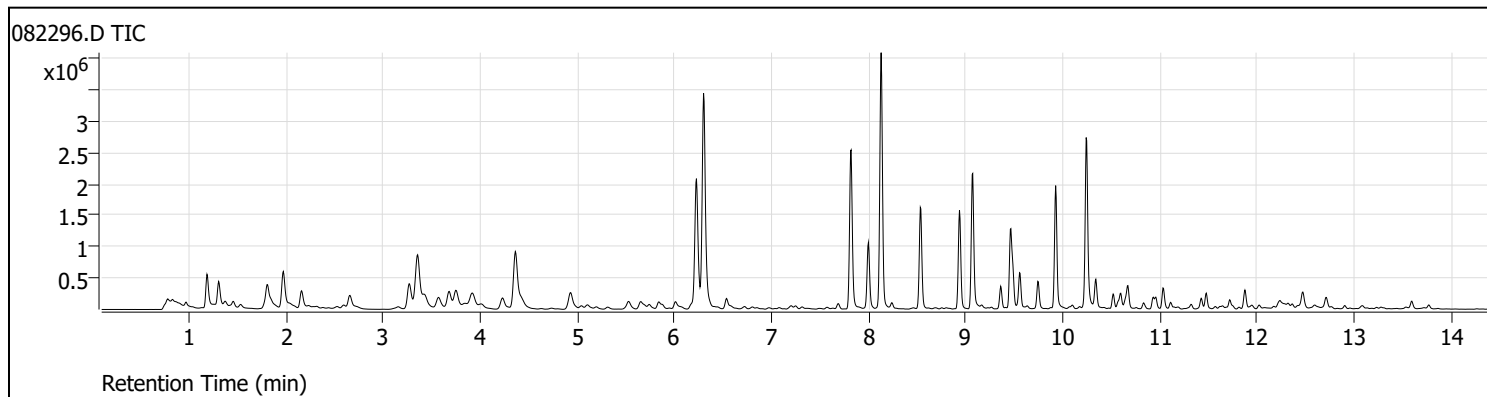
Data Path: D:\GC-19\Data\082123\082135.D
 Acq on: 8/22/2023 2:17:02 AM
 Operator: FA\GC19
 Sample: GX CAL 1
 Inst Name: GC19
 ALS Vial: 11
 Method: D:\MassHunter\Methods\Quant\BFB2021.m



Target Mass	Rel. To Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Pass/Fail
95	174	50	200	103.1	376716	Pass
96	95	5	9	6.7	25129	Pass
173	174	0	2	0.0	0	Pass
174	95	50	200	97.0	365269	Pass
175	174	5	9	7.6	27768	Pass
176	174	95	105	95.6	349312	Pass
177	176	5	10	6.7	23419	Pass

Tune Evaluation Report

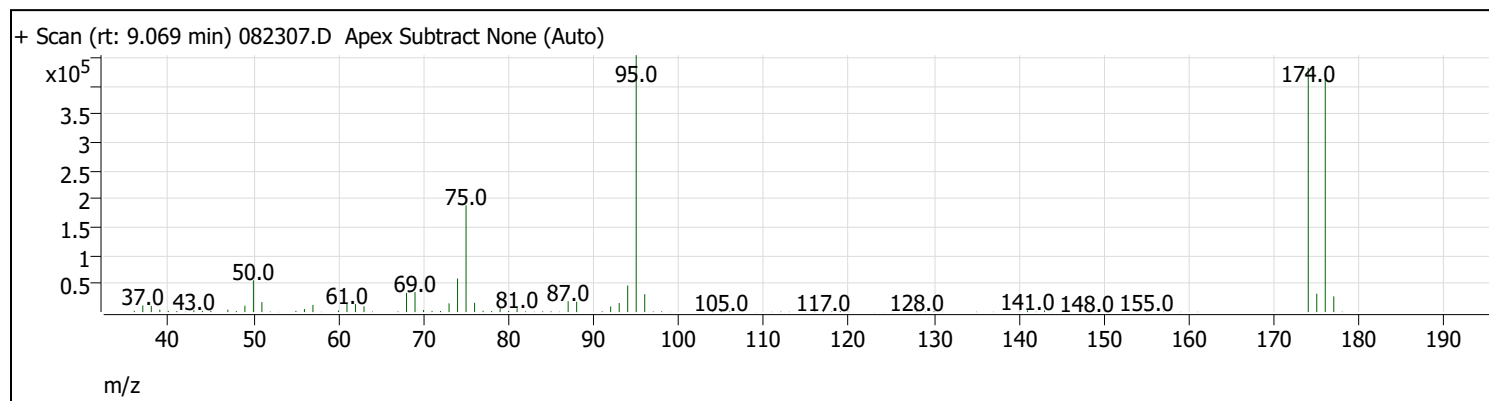
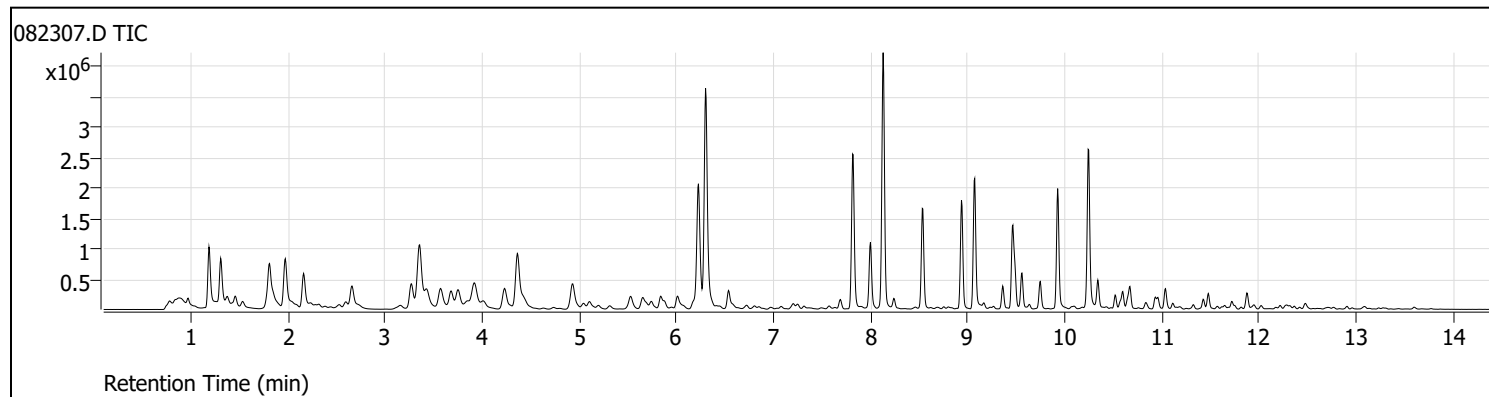
Data Path: D:\GC-19\Data\082223\082296.D
 Acq on: 8/24/2023 7:23:42 AM
 Operator: FA\GC19
 Sample: GX CCV D
 Inst Name: GC19
 ALS Vial: 82
 Method: D:\MassHunter\Methods\Quant\BFB2021.m



Target Mass	Rel. To Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Pass/Fail
95	174	50	200	105.2	466018	Pass
96	95	5	9	6.6	30833	Pass
173	174	0	2	0.0	0	Pass
174	95	50	200	95.0	442940	Pass
175	174	5	9	7.3	32314	Pass
176	174	95	105	96.7	428506	Pass
177	176	5	10	6.7	28573	Pass

Tune Evaluation Report

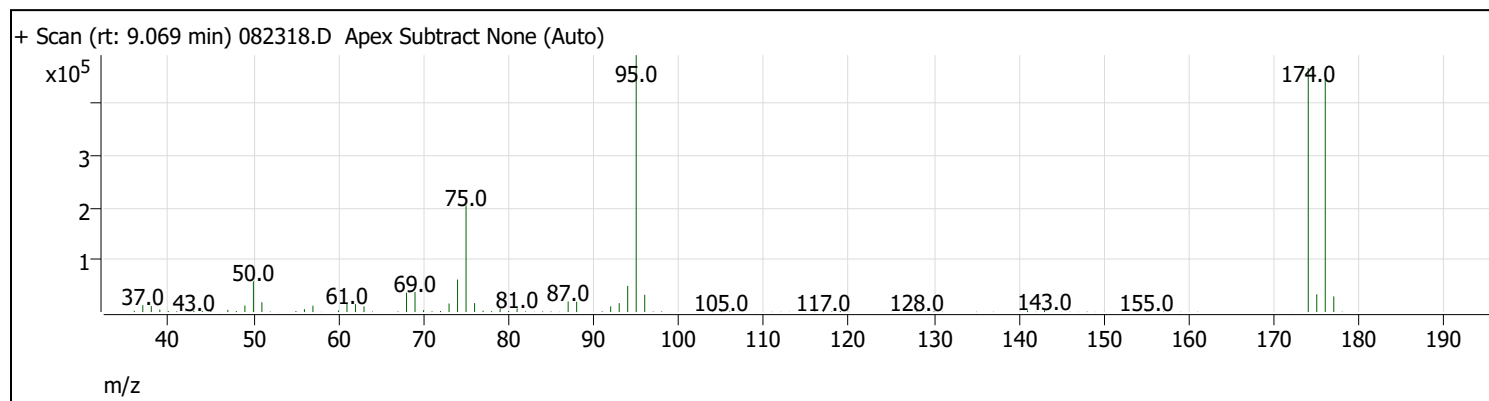
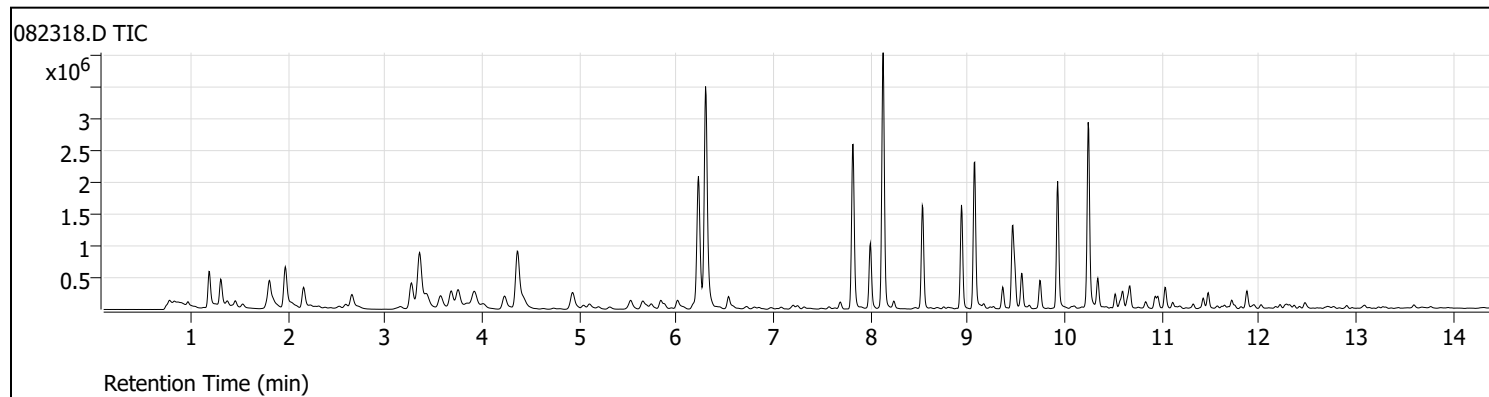
Data Path: D:\GC-19\Data\082223\082307.D
 Acq on: 8/24/2023 12:51:45 PM
 Operator: FA\GC19
 Sample: R
 Inst Name: GC19
 ALS Vial: 0
 Method: D:\MassHunter\Methods\Quant\BFB2021.m



Target Mass	Rel. To Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Pass/Fail
95	174	50	200	105.2	454902	Pass
96	95	5	9	7.0	31700	Pass
173	174	0	2	0.0	0	Pass
174	95	50	200	95.1	432406	Pass
175	174	5	9	7.5	32532	Pass
176	174	95	105	96.9	419010	Pass
177	176	5	10	6.6	27826	Pass

Tune Evaluation Report

Data Path: D:\GC-19\Data\082223\082318.D
 Acq on: 8/24/2023 4:23:20 PM
 Operator: FA\GC19
 Sample: GX CCV F
 Inst Name: GC19
 ALS Vial: 15
 Method: D:\MassHunter\Methods\Quant\BFB2021.m



Target Mass	Rel. To Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Pass/Fail
95	174	50	200	105.3	493082	Pass
96	95	5	9	6.7	33205	Pass
173	174	0	2	0.0	0	Pass
174	95	50	200	95.0	468252	Pass
175	174	5	9	7.3	34050	Pass
176	174	95	105	98.4	460543	Pass
177	176	5	10	6.5	30046	Pass



Internal Standards

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-19 230824D CCV Name: GX 86064
 Run No: 86134 CCV SeqNo: 1797538
 Lab File ID (Standard): 082139.D Date Analyzed: 8/22/2023
 Instrument ID: GC-19 Time Analyzed: 4:17
 GC Column: ID (mm): Length (M):

	IS1 (CBZ) AREA #	RT #	IS2 (14DCBZ) AREA #	RT #				
12 HOUR STD	1832435	7.816	1502559	10.244				
UPPER LIMIT	3664870	8.316	3005118	10.744				
LOWER LIMIT	916218	7.316	751280	9.744				
SAMPLE NO.								
01 CCV-41291A	1.95298e+006	7.821	1.63368e+006	10.243				
02 CCV-41291B	1.9552e+006	7.821	1.70146e+006	10.244				
03 CCV-41291C	1.95567e+006	7.821	1.65646e+006	10.243				

IS1 (CBZ) = Chlorobenzene-d5

IS2 (14DCBZ) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-19 230824D CCV Name: CCV-41291A
 Run No: 86134 CCV SeqNo: 1797534
 Lab File ID (Standard): 082296.D Date Analyzed: 8/24/2023
 Instrument ID: GC-19 Time Analyzed: 7:23
 GC Column: ID (mm): Length (M):

	IS1 (CBZ) AREA #	RT #	IS2 (14DCBZ) AREA #	RT #				
12 HOUR STD	1952982	7.821	1633682	10.243				
UPPER LIMIT	3905964	8.321	3267364	10.743				
LOWER LIMIT	976491	7.321	816841	9.743				
SAMPLE NO.								
01 LCS-41291	1.95298e+006	7.821	1.63368e+006	10.243				
02 MB-41291	1.87836e+006	7.816	1.69215e+006	10.244				
03 2308316-002B	1.90679e+006	7.816	1.69892e+006	10.244				
04 2308316-002BDUP	1.87291e+006	7.816	1.70946e+006	10.249				

IS1 (CBZ) = Chlorobenzene-d5

IS2 (14DCBZ) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-19 230824D CCV Name: CCV-41291B
 Run No: 86134 CCV SeqNo: 1797535
 Lab File ID (Standard): 082318.D Date Analyzed: 8/24/2023
 Instrument ID: GC-19 Time Analyzed: 16:23
 GC Column: ID (mm): Length (M):

	IS1 (CBZ) AREA #	RT #	IS2 (14DCBZ) AREA #	RT #				
12 HOUR STD	1955198	7.821	1701462	10.244				
UPPER LIMIT	3910396	8.321	3402924	10.744				
LOWER LIMIT	977599	7.321	850731	9.744				
SAMPLE NO.								
01 2308286-001B	1.83692e+006	7.816	1.64858e+006	10.244				
02 2308286-001BDUP	1.87749e+006	7.816	1.67728e+006	10.249				
03 2308286-003B	1.92854e+006	7.816	1.71543e+006	10.249				
04 2308286-005B	1.87573e+006	7.816	1.66152e+006	10.249				
05 2308286-007B	1.97779e+006	7.816	1.79905e+006	10.244				
06 2308286-008B	1.87002e+006	7.816	1.66855e+006	10.249				
07 2308286-009B	1.77979e+006	7.816	1.59077e+006	10.249				
08 2308286-010B	1.9949e+006	7.816	1.76601e+006	10.244				
09 2308286-011B	1.94964e+006	7.816	1.72773e+006	10.249				
10 2308286-012B	1.91142e+006	7.816	1.65237e+006	10.249				
11 2308286-013B	1.94673e+006	7.821	1.7247e+006	10.249				
12 2308316-001B	1.96766e+006	7.816	1.76552e+006	10.244				
13 2308316-003B	1.91723e+006	7.816	1.69323e+006	10.249				
14 2308316-004B	1.92781e+006	7.816	1.72036e+006	10.244				
15 2308286-007BMS	1.91098e+006	7.816	1.64635e+006	10.249				

IS1 (CBZ) = Chlorobenzene-d5

IS2 (14DCBZ) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

DATA SET for Review - Deliverable Requirements

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Fremont Analytical Work Order No. 2308316

GeoEngineers

Project Name: S Jackson Street

Project Number: 24504-001-01

This data set contains the following:

- Analytical Sequence Summary
- Calibration Information
- Tune Information
- Internal Standards Report

Data Directory: C:\GC-14\Data\2023\081523\

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) 081543.D No data found	8270E_SIM_625.M		0.000	N/A
2) 081501.D CO	8270E_SIM_625.M	2	1.000	15 Aug 2023 08:10 am
3) 081502.D TUNE	8270E_SCAN_625.M	1	1.000	15 Aug 2023 08:38 am
4) 081503.D CCV	8270E_SIM_625.M	2	1.000	15 Aug 2023 09:07 am
5) 081504.D CO	8270E_SIM_625.M	2	1.000	15 Aug 2023 11:45 am
6) 081505.D SIM CHECK	8270E_SIM_625.M	2	1.000	15 Aug 2023 12:13 pm
7) 081506.D TUNE	8270E_SCAN_625.M	1	1.000	15 Aug 2023 12:41 pm
8) 081507.D PAH 10	8270E_SIM_625.M	32	1.000	15 Aug 2023 02:45 pm
9) 081508.D PAH 20	8270E_SIM_625.M	33	1.000	15 Aug 2023 03:13 pm
10) 081509.D PAH 40	8270E_SIM_625.M	34	1.000	15 Aug 2023 03:41 pm
11) 081510.D PAH 100	8270E_SIM_625.M	35	1.000	15 Aug 2023 04:10 pm
12) 081511.D PAH 200	8270E_SIM_625.M	36	1.000	15 Aug 2023 04:38 pm
13) 081512.D PAH 500	8270E_SIM_625.M	37	1.000	15 Aug 2023 05:07 pm
14) 081513.D PAH 750	8270E_SIM_625.M	38	1.000	15 Aug 2023 05:36 pm
15) 081514.D PAH 1000	8270E_SIM_625.M	39	1.000	15 Aug 2023 06:05 pm
16) 081515.D PAH 2000	8270E_SIM_625.M	40	1.000	15 Aug 2023 06:34 pm
17) 081516.D PAH 5000	8270E_SIM_625.M	41	1.000	15 Aug 2023 07:04 pm
18) 081517.D CO	8270E_SIM_625.M	150	1.000	15 Aug 2023 07:33 pm
19) 081518.D PAH ICV	8270E_SIM_625.M	43	1.000	15 Aug 2023 08:02 pm
20) 081519.D PAH ICB	8270E_SIM_625.M	42	1.000	15 Aug 2023 08:31 pm
21) 081520.D TUNE	8270E_SCAN_625.M	1	1.000	15 Aug 2023 09:00 pm

22) 081521.D	8270E_SCAN_625.M	1	1.000	15 Aug 2023	09:29 pm

23) 081522.D	8270E_SIM_625_LOWLEVEL.M	31	1.000	15 Aug 2023	09:59 pm

24) 081523.D	8270E_SIM_625_LOWLEVEL.M	32	1.000	15 Aug 2023	10:28 pm

25) 081524.D	8270E_SIM_625_LOWLEVEL.M	33	1.000	15 Aug 2023	10:56 pm

26) 081525.D	8270E_SIM_625_LOWLEVEL.M	34	1.000	15 Aug 2023	11:25 pm

27) 081526.D	8270E_SIM_625_LOWLEVEL.M	35	1.000	15 Aug 2023	11:54 pm

28) 081527.D	8270E_SIM_625_LOWLEVEL.M	36	1.000	16 Aug 2023	12:22 am

29) 081528.D	8270E_SIM_625_LOWLEVEL.M	37	1.000	16 Aug 2023	12:51 am

30) 081529.D	8270E_SIM_625_LOWLEVEL.M	38	1.000	16 Aug 2023	01:20 am

31) 081530.D	8270E_SIM_625_LOWLEVEL.M	39	1.000	16 Aug 2023	01:48 am

32) 081531.D	8270E_SIM_625_LOWLEVEL.M	40	1.000	16 Aug 2023	02:17 am

33) 081532.D	8270E_SIM_625_LOWLEVEL.M	41	1.000	16 Aug 2023	02:46 am

34) 081533.D	8270E_SIM_625.M	150	1.000	16 Aug 2023	03:14 am

35) 081534.D	8270E_SIM_625_LOWLEVEL.M	43	1.000	16 Aug 2023	03:43 am

36) 081535.D	8270E_SIM_625_LOWLEVEL.M	42	1.000	16 Aug 2023	04:11 am

37) 081536.D	8270E_SIM_625.M	2	1.000	16 Aug 2023	04:40 am

38) 081537.D	8270E_SIM_625.M	2	1.000	16 Aug 2023	05:08 am

39) 081538.D	8270E_SIM_625.M	2	1.000	16 Aug 2023	05:37 am

40) 081539.D	8270E_SIM_625.M	2	1.000	16 Aug 2023	06:05 am

41) 081540.D	8270E_SIM_625.M	51	1.000	16 Aug 2023	06:34 am

42) 081541.D	8270E_SIM_625.M	52	1.000	16 Aug 2023	07:02 am

43) 081542.D	8270E_SIM_625.M	53	1.000	16 Aug 2023	07:31 am

Data Directory: C:\GC-14\Data\2023\082423\

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) 082401.D CO	8270E_SIM_625.M	2	1.000	24 Aug 2023 08:01 am
2) 082402.D TUNE	8270E_SCAN_625.M	1	1.000	24 Aug 2023 08:29 am
3) 082403.D CCV	8270E_SIM_625.M	2	1.000	24 Aug 2023 08:57 am
4) 082404.D MB-41297	8270E_SIM_625.M	71	1.000	24 Aug 2023 10:48 am
5) 082405.D LCS-41297	8270E_SIM_625.M	72	1.000	24 Aug 2023 11:16 am
6) 082406.D 2308316-002A	8270E_SIM_625.M	76	1.000	24 Aug 2023 11:44 am
7) 082407.D 2308316-001A	8270E_SIM_625.M	73	1.000	24 Aug 2023 12:12 pm
8) 082408.D 2308316-001AMS	8270E_SIM_625.M	74	1.000	24 Aug 2023 12:41 pm
9) 082409.D 2308316-001AMSD	8270E_SIM_625.M	75	1.000	24 Aug 2023 01:09 pm
10) 082410.D 2308316-003A	8270E_SIM_625.M	77	1.000	24 Aug 2023 01:37 pm
11) 082411.D 2308316-004A	8270E_SIM_625.M	78	1.000	24 Aug 2023 02:05 pm
12) 082412.D 2308312-001A	8270E_SIM_625.M	79	1.000	24 Aug 2023 02:33 pm
13) 082413.D QCS-	8270E_SIM_625.M	2	1.000	24 Aug 2023 03:02 pm
14) 082414.D 2308325-001A 10X	8270E_SIM_625.M	34	1.000	24 Aug 2023 03:52 pm
15) 082415.D 2308325-002A 10X	8270E_SIM_625.M	35	1.000	24 Aug 2023 04:20 pm
16) 082416.D QCS-	8270E_SIM_625.M	2	1.000	24 Aug 2023 04:48 pm



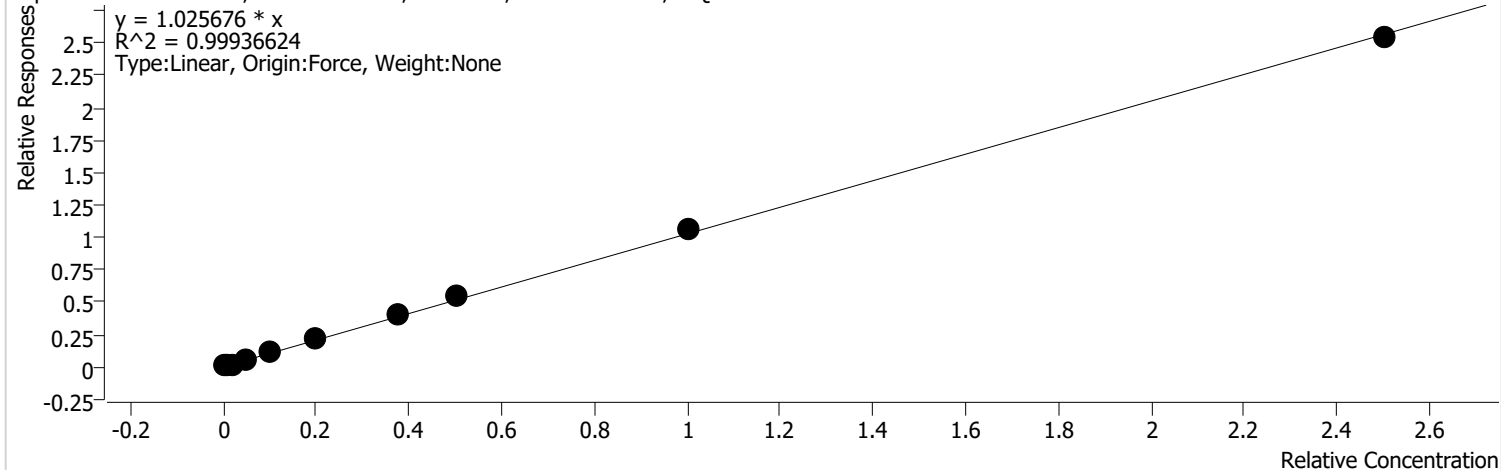
Calibration

Calibration Report

Batch Path	C:\GC-14\Data\2023\081523\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	8/16/2023 8:02 AM	Reporter Name	FA\GC14
Report Time	8/16/2023 8:07:59 AM	Batch State	Processed
Last Calib Update	8/16/2023 8:01 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Naphthalene %RSE = 7.6

Naphthalene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



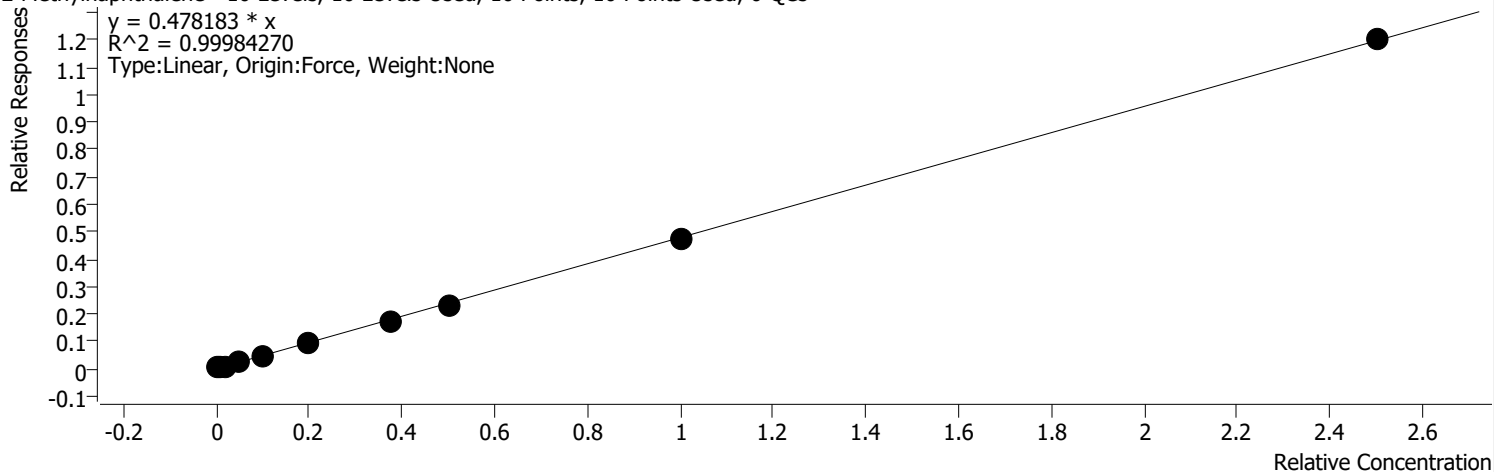
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\081523\081507.D	Calibration	1	x	2543	10.0000	1.1497	
C:\GC-14\Data\2023\081523\081508.D	Calibration	2	x	4009	20.0000	1.0818	
C:\GC-14\Data\2023\081523\081509.D	Calibration	3	x	7685	40.0000	1.0330	
C:\GC-14\Data\2023\081523\081510.D	Calibration	4	x	20008	100.0000	1.1142	
C:\GC-14\Data\2023\081523\081511.D	Calibration	5	x	38237	200.0000	1.0916	
C:\GC-14\Data\2023\081523\081512.D	Calibration	6	x	80789	400.0000	1.1170	
C:\GC-14\Data\2023\081523\081513.D	Calibration	7	x	150460	750.0000	1.0922	
C:\GC-14\Data\2023\081523\081514.D	Calibration	8	x	196331	1000.0000	1.0831	
C:\GC-14\Data\2023\081523\081515.D	Calibration	9	x	420133	2000.0000	1.0590	
C:\GC-14\Data\2023\081523\081516.D	Calibration	10	x	968293	5000.0000	1.0158	

Calibration Report

Batch Path	C:\GC-14\Data\2023\081523\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	8/16/2023 8:02 AM	Reporter Name	FA\GC14
Report Time	8/16/2023 8:08:01 AM	Batch State	Processed
Last Calib Update	8/16/2023 8:01 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

2-Methylnaphthalene %RSE = 10.6

2-Methylnaphthalene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



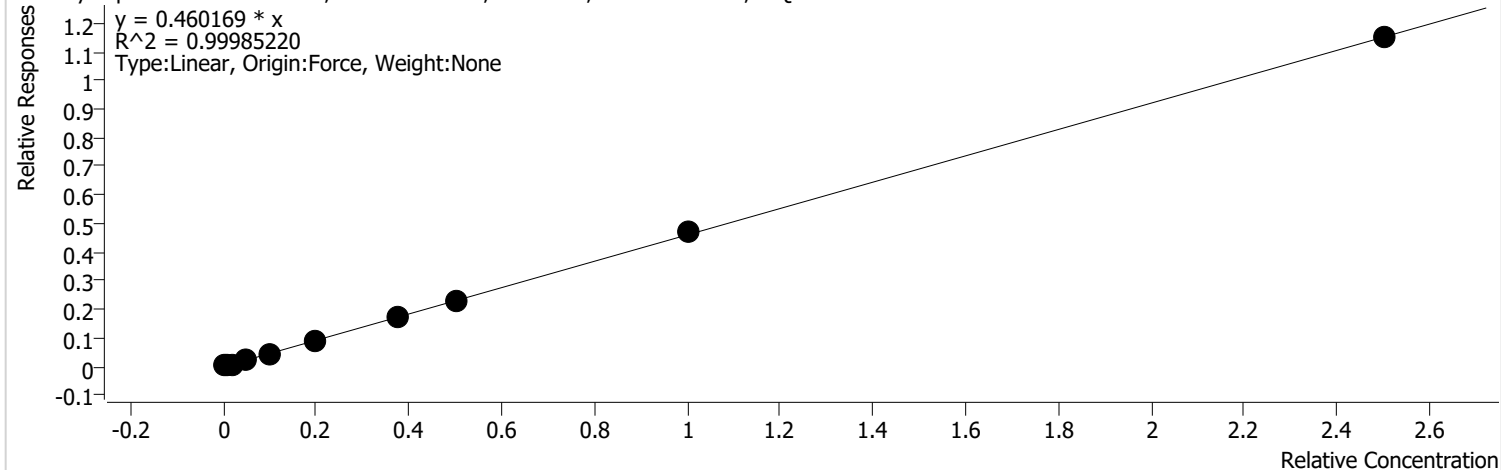
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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C:\GC-14\Data\2023\081523\081508.D	Calibration	2	x	1534	20.0000	0.4140	
C:\GC-14\Data\2023\081523\081509.D	Calibration	3	x	2988	40.0000	0.4016	
C:\GC-14\Data\2023\081523\081510.D	Calibration	4	x	7799	100.0000	0.4343	
C:\GC-14\Data\2023\081523\081511.D	Calibration	5	x	15113	200.0000	0.4315	
C:\GC-14\Data\2023\081523\081512.D	Calibration	6	x	32883	400.0000	0.4547	
C:\GC-14\Data\2023\081523\081513.D	Calibration	7	x	63562	750.0000	0.4614	
C:\GC-14\Data\2023\081523\081514.D	Calibration	8	x	83191	1000.0000	0.4589	
C:\GC-14\Data\2023\081523\081515.D	Calibration	9	x	189572	2000.0000	0.4779	
C:\GC-14\Data\2023\081523\081516.D	Calibration	10	x	457192	5000.0000	0.4796	

Calibration Report

Batch Path	C:\GC-14\Data\2023\081523\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	8/16/2023 8:02 AM	Reporter Name	FA\GC14
Report Time	8/16/2023 8:08:01 AM	Batch State	Processed
Last Calib Update	8/16/2023 8:01 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

1-Methylnaphthalene %RSE = 12.4

1-Methylnaphthalene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs

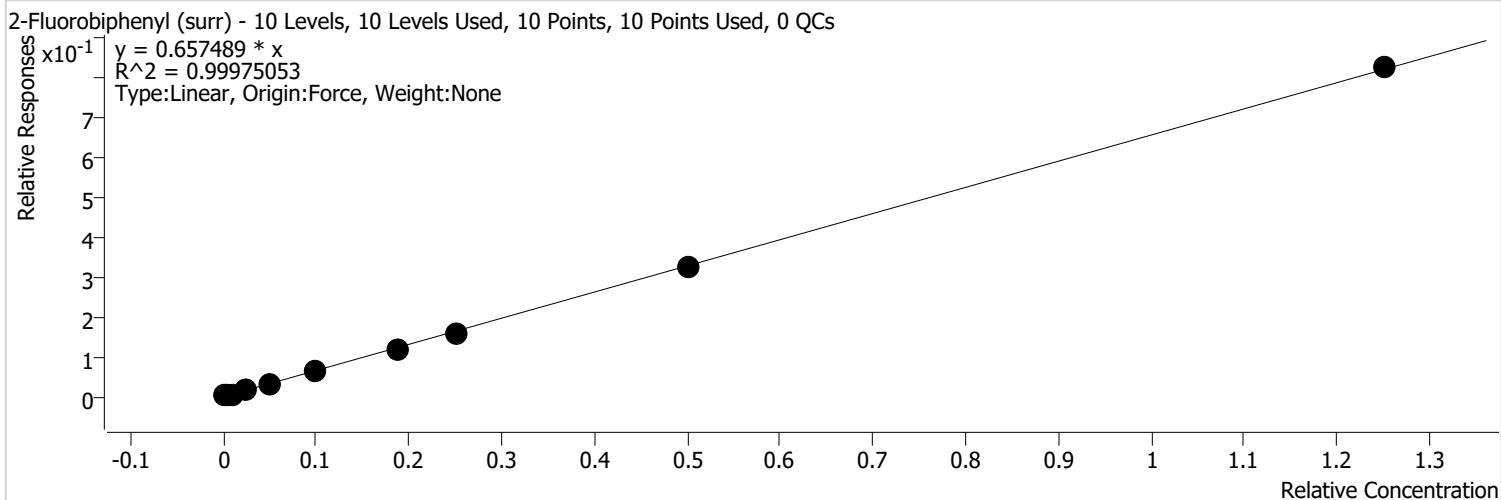


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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C:\GC-14\Data\2023\081523\081508.D	Calibration	2	x	1392	20.0000	0.3756	
C:\GC-14\Data\2023\081523\081509.D	Calibration	3	x	2785	40.0000	0.3744	
C:\GC-14\Data\2023\081523\081510.D	Calibration	4	x	7453	100.0000	0.4150	
C:\GC-14\Data\2023\081523\081511.D	Calibration	5	x	14310	200.0000	0.4085	
C:\GC-14\Data\2023\081523\081512.D	Calibration	6	x	31522	400.0000	0.4358	
C:\GC-14\Data\2023\081523\081513.D	Calibration	7	x	62192	750.0000	0.4515	
C:\GC-14\Data\2023\081523\081514.D	Calibration	8	x	82464	1000.0000	0.4549	
C:\GC-14\Data\2023\081523\081515.D	Calibration	9	x	186311	2000.0000	0.4696	
C:\GC-14\Data\2023\081523\081516.D	Calibration	10	x	437834	5000.0000	0.4593	

Calibration Report

Batch Path	C:\GC-14\Data\2023\081523\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	8/16/2023 8:02 AM	Reporter Name	FA\GC14
Report Time	8/16/2023 8:08:01 AM	Batch State	Processed
Last Calib Update	8/16/2023 8:01 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

2-Fluorobiphenyl (surr) %RSE =



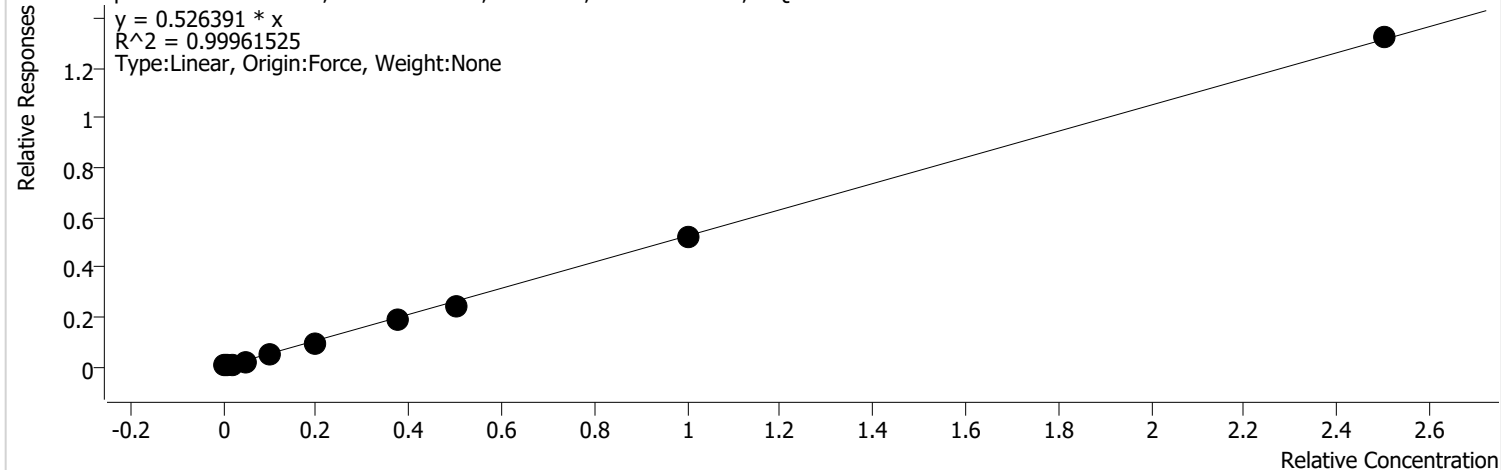
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\081523\081507.D	Calibration	1	x	653	5.0000	0.5904	
C:\GC-14\Data\2023\081523\081508.D	Calibration	2	x	1061	10.0000	0.5725	
C:\GC-14\Data\2023\081523\081509.D	Calibration	3	x	2028	20.0000	0.5454	
C:\GC-14\Data\2023\081523\081510.D	Calibration	4	x	5327	50.0000	0.5932	
C:\GC-14\Data\2023\081523\081511.D	Calibration	5	x	10202	100.0000	0.5825	
C:\GC-14\Data\2023\081523\081512.D	Calibration	6	x	22311	200.0000	0.6170	
C:\GC-14\Data\2023\081523\081513.D	Calibration	7	x	43550	375.0000	0.6323	
C:\GC-14\Data\2023\081523\081514.D	Calibration	8	x	57043	500.0000	0.6294	
C:\GC-14\Data\2023\081523\081515.D	Calibration	9	x	128572	1000.0000	0.6482	
C:\GC-14\Data\2023\081523\081516.D	Calibration	10	x	315077	2500.0000	0.6611	

Calibration Report

Batch Path	C:\GC-14\Data\2023\081523\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	8/16/2023 8:02 AM	Reporter Name	FA\GC14
Report Time	8/16/2023 8:08:01 AM	Batch State	Processed
Last Calib Update	8/16/2023 8:01 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

2-Chloronaphthalene %RSE = 14.9

2-Chloronaphthalene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs

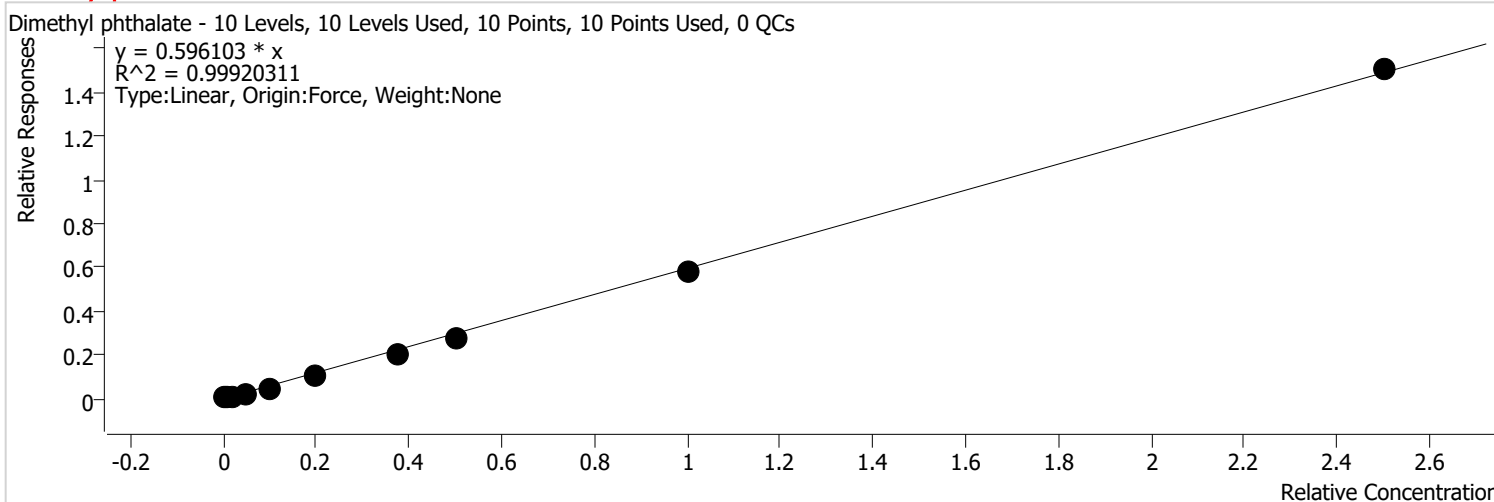


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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C:\GC-14\Data\2023\081523\081508.D	Calibration	2	x	1564	20.0000	0.4221	
C:\GC-14\Data\2023\081523\081509.D	Calibration	3	x	3068	40.0000	0.4125	
C:\GC-14\Data\2023\081523\081510.D	Calibration	4	x	8219	100.0000	0.4577	
C:\GC-14\Data\2023\081523\081511.D	Calibration	5	x	15764	200.0000	0.4500	
C:\GC-14\Data\2023\081523\081512.D	Calibration	6	x	34796	400.0000	0.4811	
C:\GC-14\Data\2023\081523\081513.D	Calibration	7	x	68427	750.0000	0.4967	
C:\GC-14\Data\2023\081523\081514.D	Calibration	8	x	89848	1000.0000	0.4956	
C:\GC-14\Data\2023\081523\081515.D	Calibration	9	x	207316	2000.0000	0.5226	
C:\GC-14\Data\2023\081523\081516.D	Calibration	10	x	504581	5000.0000	0.5293	

Calibration Report

Batch Path	C:\GC-14\Data\2023\081523\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	8/16/2023 8:02 AM	Reporter Name	FA\GC14
Report Time	8/16/2023 8:08:01 AM	Batch State	Processed
Last Calib Update	8/16/2023 8:01 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Dimethyl phthalate %RSE = 14.7



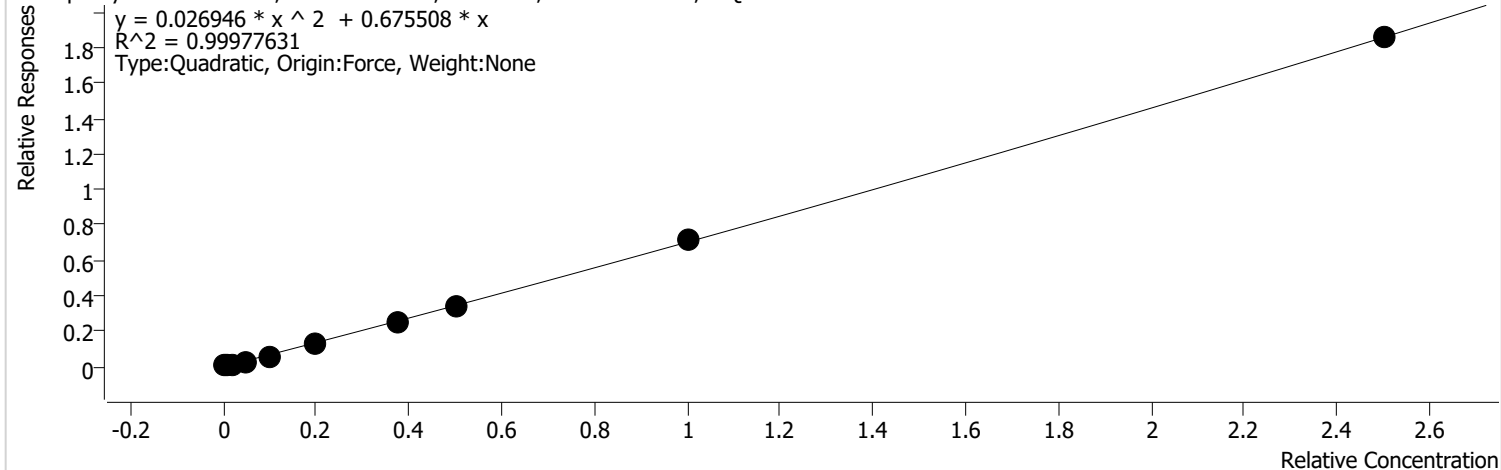
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\081523\081507.D	Calibration	1	x	1120	10.0000	0.5062	
C:\GC-14\Data\2023\081523\081508.D	Calibration	2	x	1786	20.0000	0.4821	
C:\GC-14\Data\2023\081523\081509.D	Calibration	3	x	3566	40.0000	0.4794	
C:\GC-14\Data\2023\081523\081510.D	Calibration	4	x	9363	100.0000	0.5214	
C:\GC-14\Data\2023\081523\081511.D	Calibration	5	x	17365	200.0000	0.4957	
C:\GC-14\Data\2023\081523\081512.D	Calibration	6	x	37302	400.0000	0.5158	
C:\GC-14\Data\2023\081523\081513.D	Calibration	7	x	76256	750.0000	0.5536	
C:\GC-14\Data\2023\081523\081514.D	Calibration	8	x	99067	1000.0000	0.5465	
C:\GC-14\Data\2023\081523\081515.D	Calibration	9	x	231920	2000.0000	0.5846	
C:\GC-14\Data\2023\081523\081516.D	Calibration	10	x	573452	5000.0000	0.6016	

Calibration Report

Batch Path	C:\GC-14\Data\2023\081523\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	8/16/2023 8:02 AM	Reporter Name	FA\GC14
Report Time	8/16/2023 8:08:01 AM	Batch State	Processed
Last Calib Update	8/16/2023 8:01 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Acenaphthylene %RSE = 14.4

Acenaphthylene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



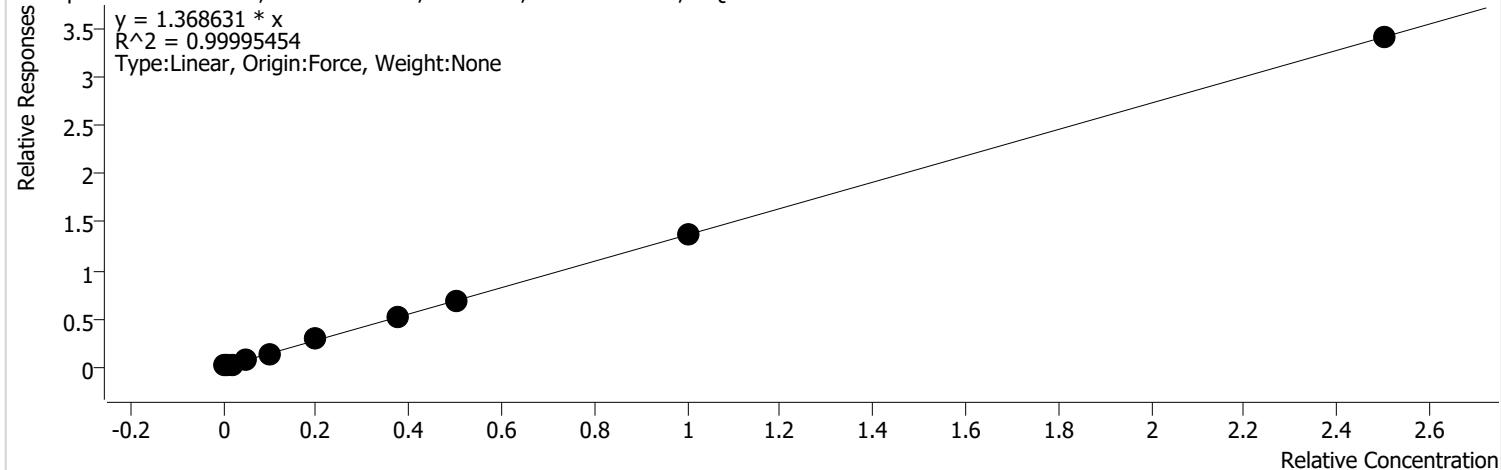
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\081523\081507.D	Calibration	1	x	1251	10.0000	0.5657	
C:\GC-14\Data\2023\081523\081508.D	Calibration	2	x	2030	20.0000	0.5477	
C:\GC-14\Data\2023\081523\081509.D	Calibration	3	x	4016	40.0000	0.5399	
C:\GC-14\Data\2023\081523\081510.D	Calibration	4	x	10671	100.0000	0.5943	
C:\GC-14\Data\2023\081523\081511.D	Calibration	5	x	20411	200.0000	0.5827	
C:\GC-14\Data\2023\081523\081512.D	Calibration	6	x	45344	400.0000	0.6270	
C:\GC-14\Data\2023\081523\081513.D	Calibration	7	x	91914	750.0000	0.6672	
C:\GC-14\Data\2023\081523\081514.D	Calibration	8	x	120903	1000.0000	0.6670	
C:\GC-14\Data\2023\081523\081515.D	Calibration	9	x	285139	2000.0000	0.7187	
C:\GC-14\Data\2023\081523\081516.D	Calibration	10	x	707382	5000.0000	0.7421	

Calibration Report

Batch Path	C:\GC-14\Data\2023\081523\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	8/16/2023 8:02 AM	Reporter Name	FA\GC14
Report Time	8/16/2023 8:08:01 AM	Batch State	Processed
Last Calib Update	8/16/2023 8:01 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Acenaphthene %RSE = 4.8

Acenaphthene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



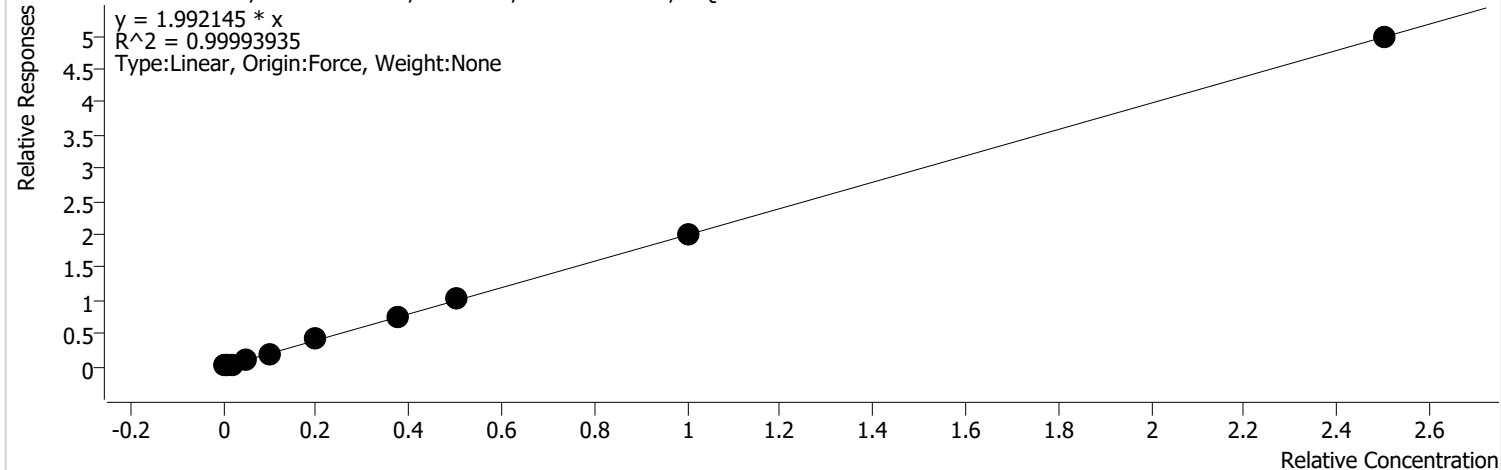
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\081523\081507.D	Calibration	1	x	996	10.0000	1.5302	
C:\GC-14\Data\2023\081523\081508.D	Calibration	2	x	1683	20.0000	1.3894	
C:\GC-14\Data\2023\081523\081509.D	Calibration	3	x	3254	40.0000	1.3567	
C:\GC-14\Data\2023\081523\081510.D	Calibration	4	x	8218	100.0000	1.4290	
C:\GC-14\Data\2023\081523\081511.D	Calibration	5	x	15574	200.0000	1.3903	
C:\GC-14\Data\2023\081523\081512.D	Calibration	6	x	33668	400.0000	1.4172	
C:\GC-14\Data\2023\081523\081513.D	Calibration	7	x	66658	750.0000	1.4036	
C:\GC-14\Data\2023\081523\081514.D	Calibration	8	x	87087	1000.0000	1.3911	
C:\GC-14\Data\2023\081523\081515.D	Calibration	9	x	201380	2000.0000	1.3720	
C:\GC-14\Data\2023\081523\081516.D	Calibration	10	x	494013	5000.0000	1.3660	

Calibration Report

Batch Path	C:\GC-14\Data\2023\081523\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	8/16/2023 8:02 AM	Reporter Name	FA\GC14
Report Time	8/16/2023 8:08:01 AM	Batch State	Processed
Last Calib Update	8/16/2023 8:01 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Dibenzofuran %RSE = 4.6

Dibenzofuran - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



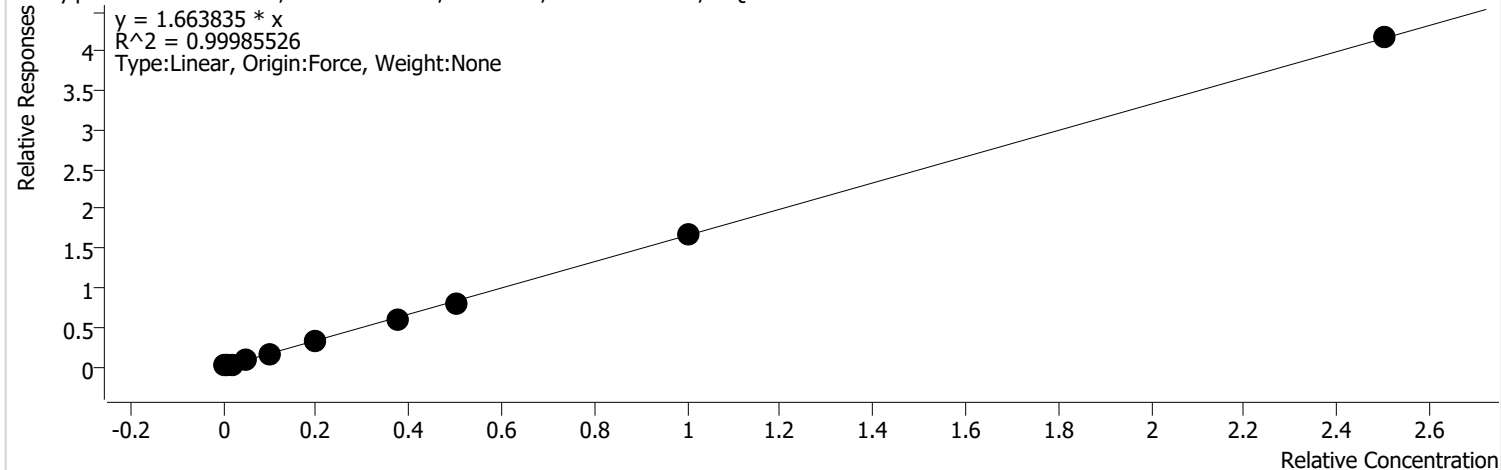
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\081523\081507.D	Calibration	1	x	1344	10.0000	2.0659	
C:\GC-14\Data\2023\081523\081508.D	Calibration	2	x	2251	20.0000	1.8584	
C:\GC-14\Data\2023\081523\081509.D	Calibration	3	x	4361	40.0000	1.8186	
C:\GC-14\Data\2023\081523\081510.D	Calibration	4	x	11525	100.0000	2.0041	
C:\GC-14\Data\2023\081523\081511.D	Calibration	5	x	22437	200.0000	2.0031	
C:\GC-14\Data\2023\081523\081512.D	Calibration	6	x	49340	400.0000	2.0769	
C:\GC-14\Data\2023\081523\081513.D	Calibration	7	x	97171	750.0000	2.0460	
C:\GC-14\Data\2023\081523\081514.D	Calibration	8	x	127535	1000.0000	2.0372	
C:\GC-14\Data\2023\081523\081515.D	Calibration	9	x	292462	2000.0000	1.9925	
C:\GC-14\Data\2023\081523\081516.D	Calibration	10	x	719126	5000.0000	1.9885	

Calibration Report

Batch Path	C:\GC-14\Data\2023\081523\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	8/16/2023 8:02 AM	Reporter Name	FA\GC14
Report Time	8/16/2023 8:08:01 AM	Batch State	Processed
Last Calib Update	8/16/2023 8:01 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Diethylphthalate %RSE = 10.9

Diethylphthalate - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



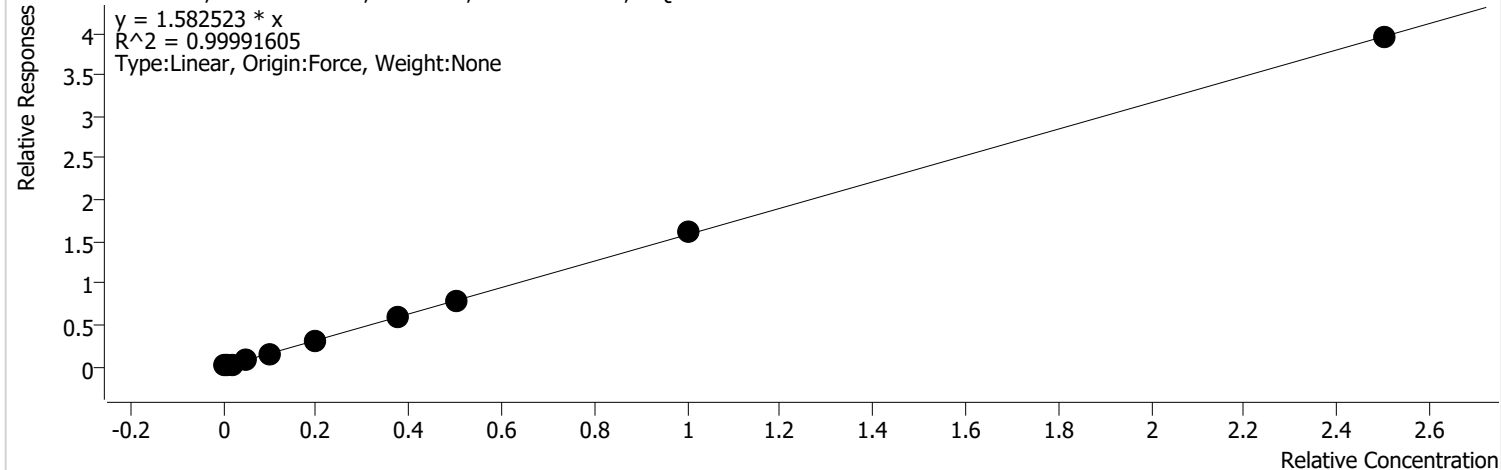
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\081523\081507.D	Calibration	1	x	1257	10.0000	1.9315	
C:\GC-14\Data\2023\081523\081508.D	Calibration	2	x	1724	20.0000	1.4229	
C:\GC-14\Data\2023\081523\081509.D	Calibration	3	x	3373	40.0000	1.4065	
C:\GC-14\Data\2023\081523\081510.D	Calibration	4	x	8736	100.0000	1.5191	
C:\GC-14\Data\2023\081523\081511.D	Calibration	5	x	16722	200.0000	1.4928	
C:\GC-14\Data\2023\081523\081512.D	Calibration	6	x	37104	400.0000	1.5619	
C:\GC-14\Data\2023\081523\081513.D	Calibration	7	x	76633	750.0000	1.6136	
C:\GC-14\Data\2023\081523\081514.D	Calibration	8	x	100354	1000.0000	1.6030	
C:\GC-14\Data\2023\081523\081515.D	Calibration	9	x	245152	2000.0000	1.6702	
C:\GC-14\Data\2023\081523\081516.D	Calibration	10	x	602991	5000.0000	1.6674	

Calibration Report

Batch Path	C:\GC-14\Data\2023\081523\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	8/16/2023 8:02 AM	Reporter Name	FA\GC14
Report Time	8/16/2023 8:08:01 AM	Batch State	Processed
Last Calib Update	8/16/2023 8:01 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Fluorene %RSE = 6.4

Fluorene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



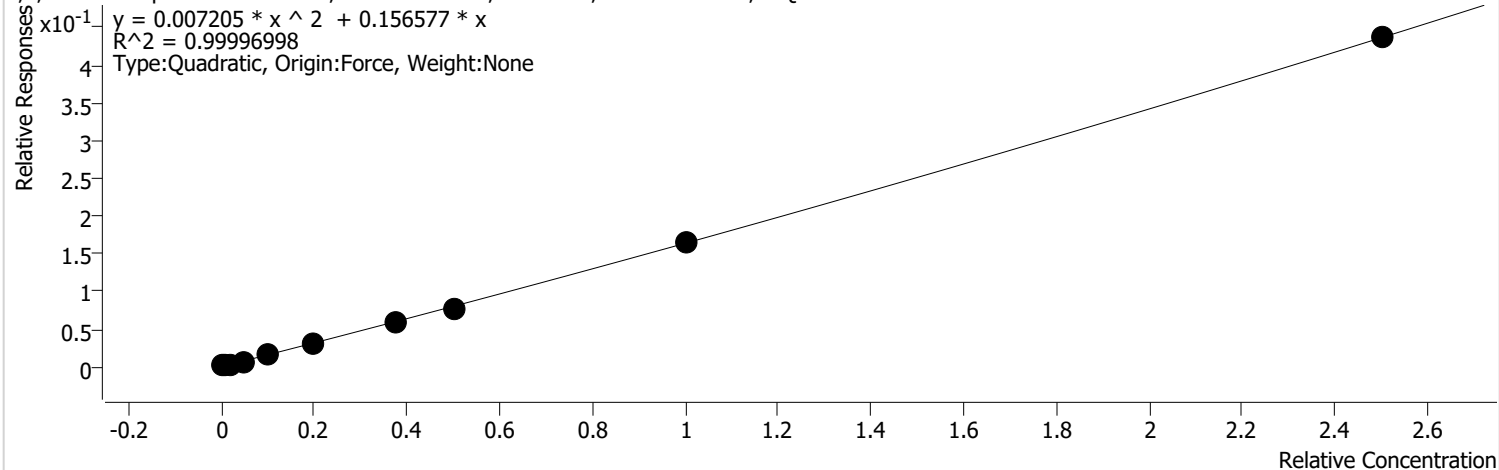
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\081523\081507.D	Calibration	1	x	1032	10.0000	1.5858	
C:\GC-14\Data\2023\081523\081508.D	Calibration	2	x	1661	20.0000	1.3709	
C:\GC-14\Data\2023\081523\081509.D	Calibration	3	x	3371	40.0000	1.4057	
C:\GC-14\Data\2023\081523\081510.D	Calibration	4	x	8918	100.0000	1.5507	
C:\GC-14\Data\2023\081523\081511.D	Calibration	5	x	17207	200.0000	1.5362	
C:\GC-14\Data\2023\081523\081512.D	Calibration	6	x	37421	400.0000	1.5752	
C:\GC-14\Data\2023\081523\081513.D	Calibration	7	x	76482	750.0000	1.6104	
C:\GC-14\Data\2023\081523\081514.D	Calibration	8	x	99885	1000.0000	1.5955	
C:\GC-14\Data\2023\081523\081515.D	Calibration	9	x	236329	2000.0000	1.6101	
C:\GC-14\Data\2023\081523\081516.D	Calibration	10	x	570346	5000.0000	1.5771	

Calibration Report

Batch Path	C:\GC-14\Data\2023\081523\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	8/16/2023 8:02 AM	Reporter Name	FA\GC14
Report Time	8/16/2023 8:08:01 AM	Batch State	Processed
Last Calib Update	8/16/2023 8:01 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

2,4,6-Tribromophenol %RSE =

2,4,6-Tribromophenol - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



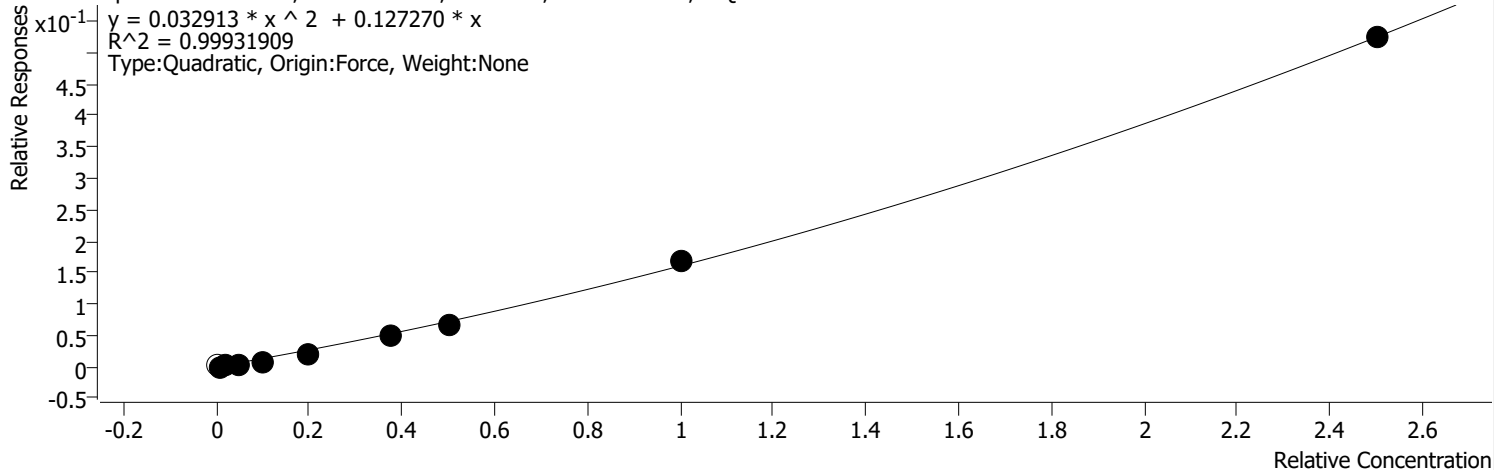
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\081523\081507.D	Calibration	1	x	106	10.0000	0.1628	
C:\GC-14\Data\2023\081523\081508.D	Calibration	2	x	156	20.0000	0.1289	
C:\GC-14\Data\2023\081523\081509.D	Calibration	3	x	323	40.0000	0.1348	
C:\GC-14\Data\2023\081523\081510.D	Calibration	4	x	862	100.0000	0.1500	
C:\GC-14\Data\2023\081523\081511.D	Calibration	5	x	1718	200.0000	0.1534	
C:\GC-14\Data\2023\081523\081512.D	Calibration	6	x	3749	400.0000	0.1578	
C:\GC-14\Data\2023\081523\081513.D	Calibration	7	x	7634	750.0000	0.1608	
C:\GC-14\Data\2023\081523\081514.D	Calibration	8	x	9808	1000.0000	0.1567	
C:\GC-14\Data\2023\081523\081515.D	Calibration	9	x	24186	2000.0000	0.1648	
C:\GC-14\Data\2023\081523\081516.D	Calibration	10	x	63124	5000.0000	0.1745	

Calibration Report

Batch Path	C:\GC-14\Data\2023\081523\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	8/16/2023 8:02 AM	Reporter Name	FA\GC14
Report Time	8/16/2023 8:08:01 AM	Batch State	Processed
Last Calib Update	8/16/2023 8:01 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Pentachlorophenol %RSE = 41.5

Pentachlorophenol - 10 Levels, 9 Levels Used, 10 Points, 9 Points Used, 0 QCs



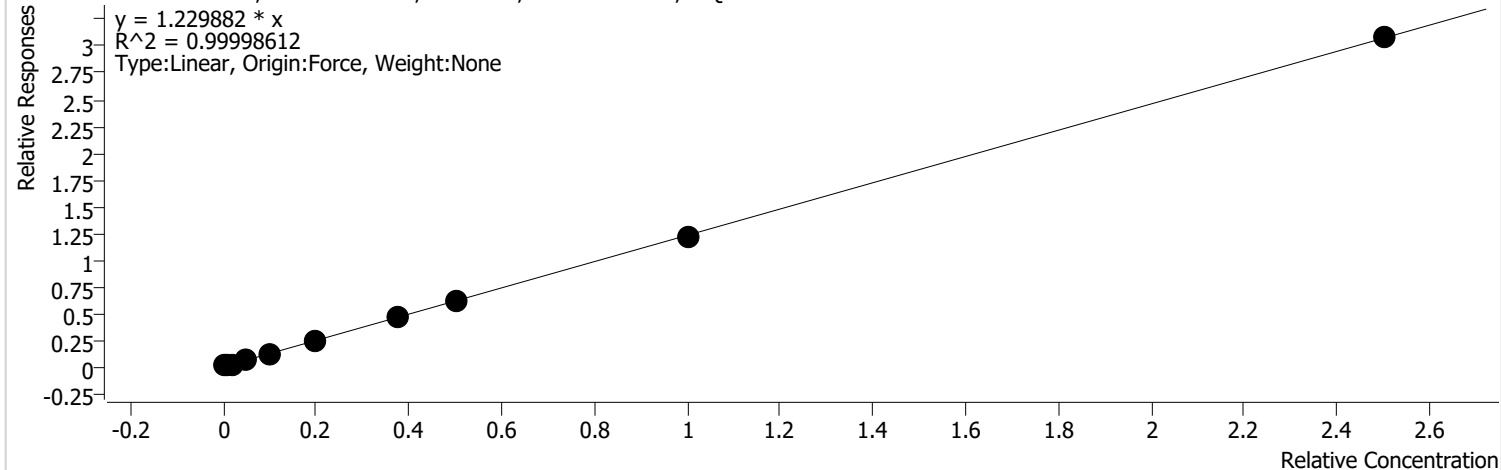
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\081523\081507.D	Calibration	1		113	10.0000	0.1731	
C:\GC-14\Data\2023\081523\081508.D	Calibration	2	x	80	20.0000	0.0663	
C:\GC-14\Data\2023\081523\081509.D	Calibration	3	x	119	40.0000	0.0495	
C:\GC-14\Data\2023\081523\081510.D	Calibration	4	x	388	100.0000	0.0674	
C:\GC-14\Data\2023\081523\081511.D	Calibration	5	x	867	200.0000	0.0774	
C:\GC-14\Data\2023\081523\081512.D	Calibration	6	x	2558	400.0000	0.1077	
C:\GC-14\Data\2023\081523\081513.D	Calibration	7	x	6225	750.0000	0.1311	
C:\GC-14\Data\2023\081523\081514.D	Calibration	8	x	8423	1000.0000	0.1345	
C:\GC-14\Data\2023\081523\081515.D	Calibration	9	x	24617	2000.0000	0.1677	
C:\GC-14\Data\2023\081523\081516.D	Calibration	10	x	75652	5000.0000	0.2092	

Calibration Report

Batch Path	C:\GC-14\Data\2023\081523\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	8/16/2023 8:02 AM	Reporter Name	FA\GC14
Report Time	8/16/2023 8:08:01 AM	Batch State	Processed
Last Calib Update	8/16/2023 8:01 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Phenanthrene %RSE = 9.1

Phenanthrene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



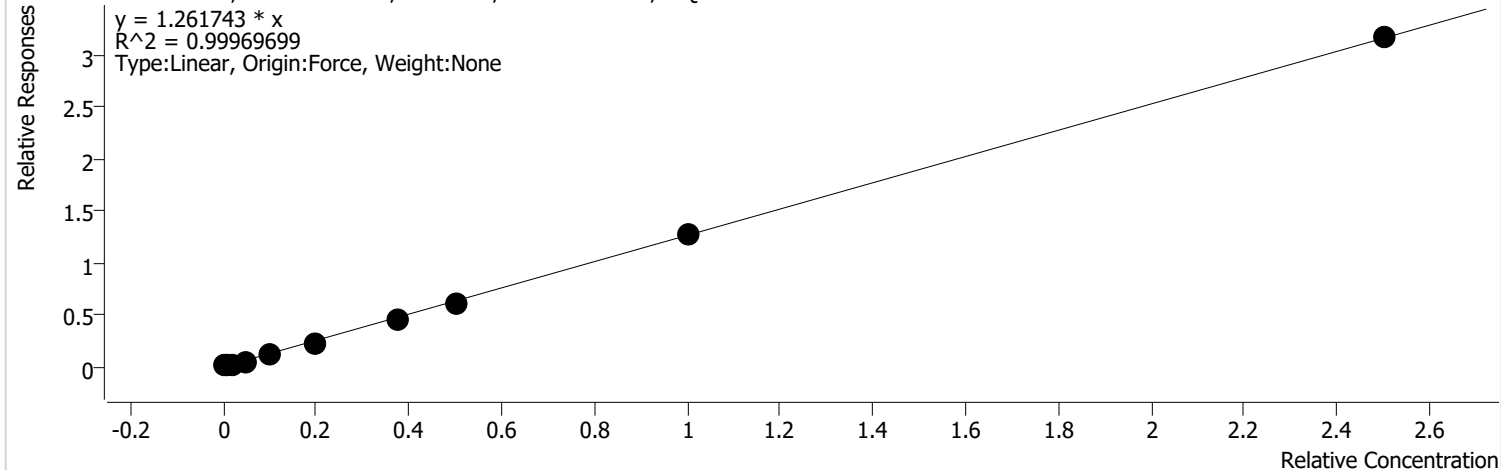
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\081523\081507.D	Calibration	1	x	1875	10.0000	1.5046	
C:\GC-14\Data\2023\081523\081508.D	Calibration	2	x	2678	20.0000	1.1274	
C:\GC-14\Data\2023\081523\081509.D	Calibration	3	x	5304	40.0000	1.1224	
C:\GC-14\Data\2023\081523\081510.D	Calibration	4	x	13634	100.0000	1.2031	
C:\GC-14\Data\2023\081523\081511.D	Calibration	5	x	26222	200.0000	1.1897	
C:\GC-14\Data\2023\081523\081512.D	Calibration	6	x	55985	400.0000	1.2138	
C:\GC-14\Data\2023\081523\081513.D	Calibration	7	x	111438	750.0000	1.2227	
C:\GC-14\Data\2023\081523\081514.D	Calibration	8	x	143802	1000.0000	1.2179	
C:\GC-14\Data\2023\081523\081515.D	Calibration	9	x	335147	2000.0000	1.2254	
C:\GC-14\Data\2023\081523\081516.D	Calibration	10	x	825466	5000.0000	1.2314	

Calibration Report

Batch Path	C:\GC-14\Data\2023\081523\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	8/16/2023 8:02 AM	Reporter Name	FA\GC14
Report Time	8/16/2023 8:08:01 AM	Batch State	Processed
Last Calib Update	8/16/2023 8:01 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Anthracene %RSE = 13.4

Anthracene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



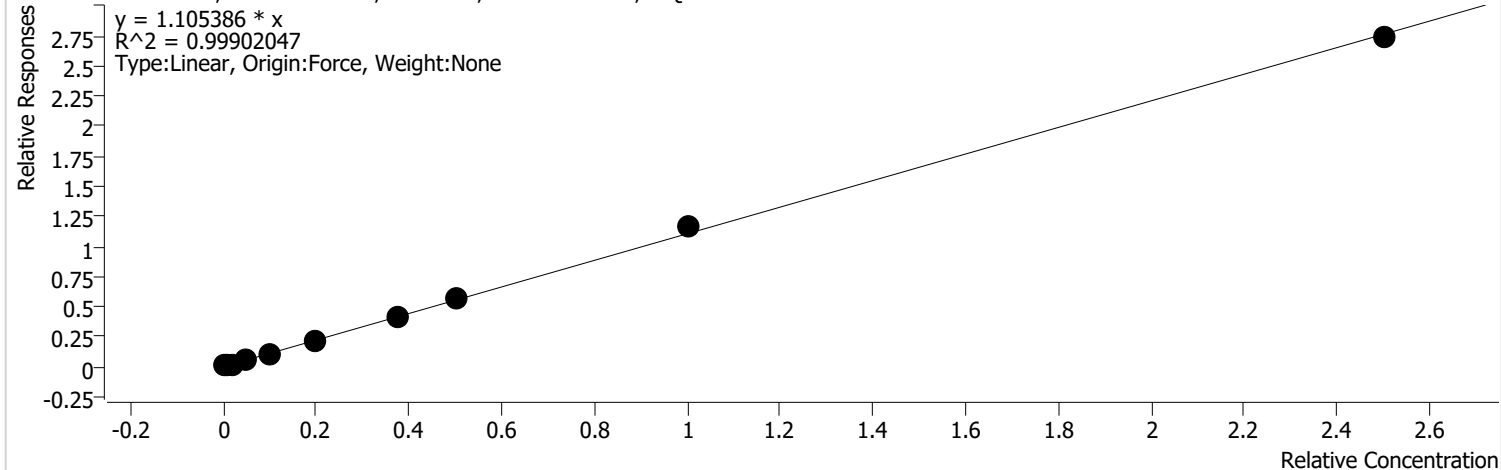
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\081523\081507.D	Calibration	1	x	1522	10.0000	1.2213	
C:\GC-14\Data\2023\081523\081508.D	Calibration	2	x	2388	20.0000	1.0055	
C:\GC-14\Data\2023\081523\081509.D	Calibration	3	x	4661	40.0000	0.9863	
C:\GC-14\Data\2023\081523\081510.D	Calibration	4	x	12402	100.0000	1.0944	
C:\GC-14\Data\2023\081523\081511.D	Calibration	5	x	23723	200.0000	1.0763	
C:\GC-14\Data\2023\081523\081512.D	Calibration	6	x	52366	400.0000	1.1354	
C:\GC-14\Data\2023\081523\081513.D	Calibration	7	x	109998	750.0000	1.2069	
C:\GC-14\Data\2023\081523\081514.D	Calibration	8	x	142402	1000.0000	1.2060	
C:\GC-14\Data\2023\081523\081515.D	Calibration	9	x	350165	2000.0000	1.2803	
C:\GC-14\Data\2023\081523\081516.D	Calibration	10	x	846919	5000.0000	1.2634	

Calibration Report

Batch Path	C:\GC-14\Data\2023\081523\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	8/16/2023 8:02 AM	Reporter Name	FA\GC14
Report Time	8/16/2023 8:08:01 AM	Batch State	Processed
Last Calib Update	8/16/2023 8:01 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Carbazole %RSE = 12.0

Carbazole - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs

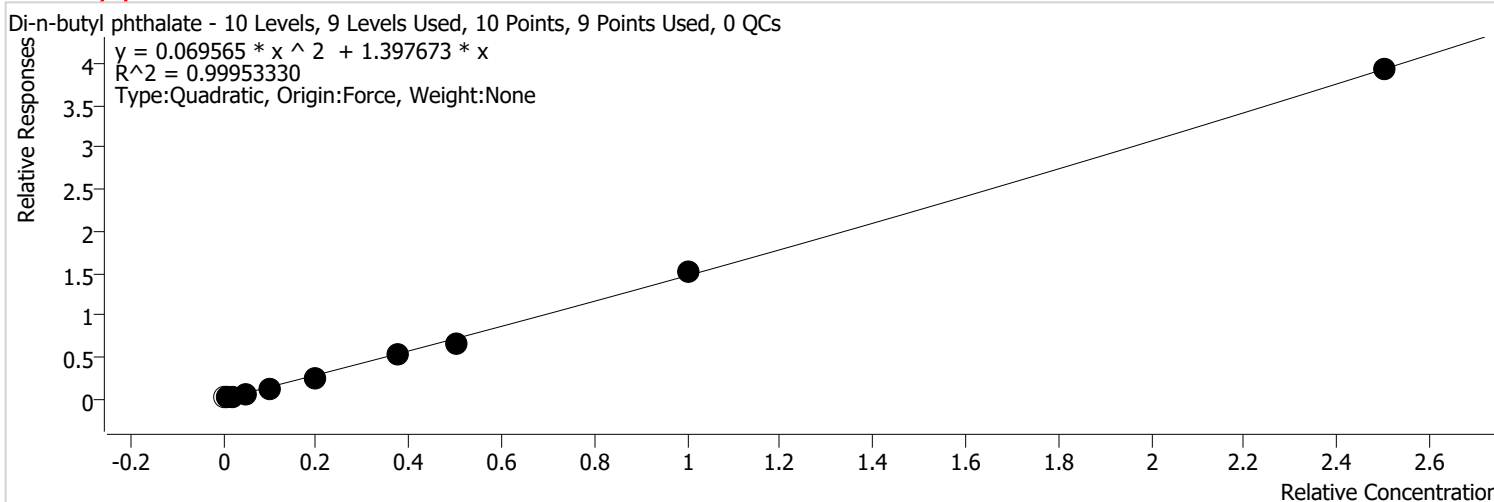


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\081523\081507.D	Calibration	1	x	1321	10.0000	1.0603	
C:\GC-14\Data\2023\081523\081508.D	Calibration	2	x	2103	20.0000	0.8856	
C:\GC-14\Data\2023\081523\081509.D	Calibration	3	x	4135	40.0000	0.8750	
C:\GC-14\Data\2023\081523\081510.D	Calibration	4	x	11174	100.0000	0.9861	
C:\GC-14\Data\2023\081523\081511.D	Calibration	5	x	21739	200.0000	0.9863	
C:\GC-14\Data\2023\081523\081512.D	Calibration	6	x	48133	400.0000	1.0436	
C:\GC-14\Data\2023\081523\081513.D	Calibration	7	x	100505	750.0000	1.1027	
C:\GC-14\Data\2023\081523\081514.D	Calibration	8	x	132487	1000.0000	1.1221	
C:\GC-14\Data\2023\081523\081515.D	Calibration	9	x	322112	2000.0000	1.1777	
C:\GC-14\Data\2023\081523\081516.D	Calibration	10	x	733247	5000.0000	1.0939	

Calibration Report

Batch Path	C:\GC-14\Data\2023\081523\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	8/16/2023 8:02 AM	Reporter Name	FA\GC14
Report Time	8/16/2023 8:08:01 AM	Batch State	Processed
Last Calib Update	8/16/2023 8:01 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Di-n-butyl phthalate %RSE = 10.2



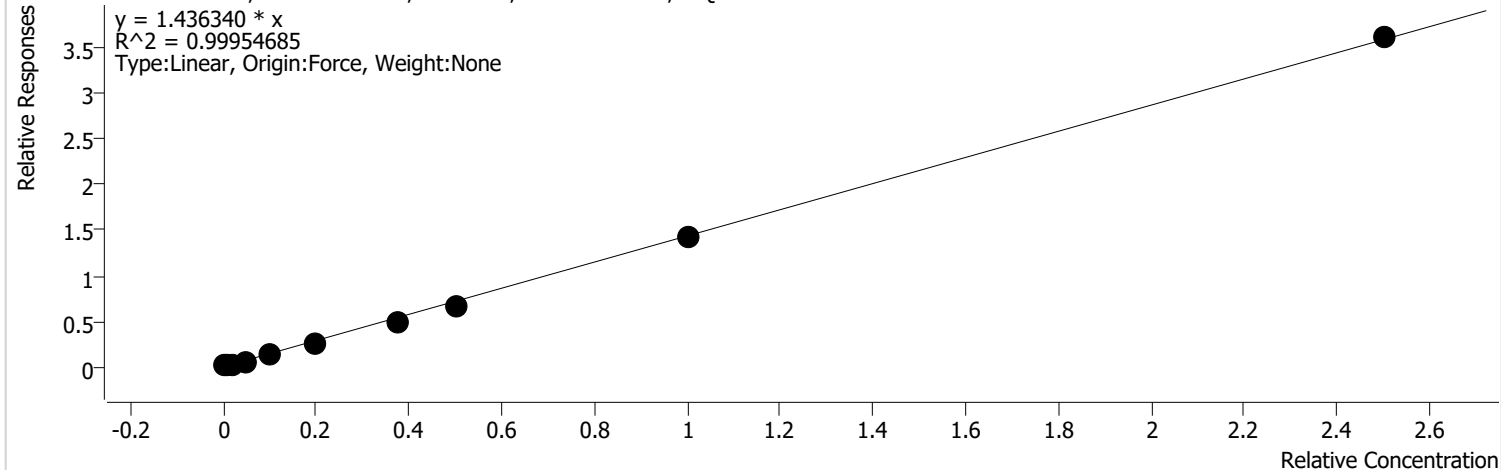
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\081523\081507.D	Calibration	1		5696	10.0000	4.5706	
C:\GC-14\Data\2023\081523\081508.D	Calibration	2	x	2998	20.0000	1.2624	
C:\GC-14\Data\2023\081523\081509.D	Calibration	3	x	5840	40.0000	1.2357	
C:\GC-14\Data\2023\081523\081510.D	Calibration	4	x	14633	100.0000	1.2913	
C:\GC-14\Data\2023\081523\081511.D	Calibration	5	x	27721	200.0000	1.2576	
C:\GC-14\Data\2023\081523\081512.D	Calibration	6	x	56275	400.0000	1.2201	
C:\GC-14\Data\2023\081523\081513.D	Calibration	7	x	127955	750.0000	1.4039	
C:\GC-14\Data\2023\081523\081514.D	Calibration	8	x	158798	1000.0000	1.3449	
C:\GC-14\Data\2023\081523\081515.D	Calibration	9	x	414376	2000.0000	1.5151	
C:\GC-14\Data\2023\081523\081516.D	Calibration	10	x	1052019	5000.0000	1.5694	

Calibration Report

Batch Path	C:\GC-14\Data\2023\081523\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	8/16/2023 8:02 AM	Reporter Name	FA\GC14
Report Time	8/16/2023 8:08:01 AM	Batch State	Processed
Last Calib Update	8/16/2023 8:01 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Fluoranthene %RSE = 14.6

Fluoranthene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs

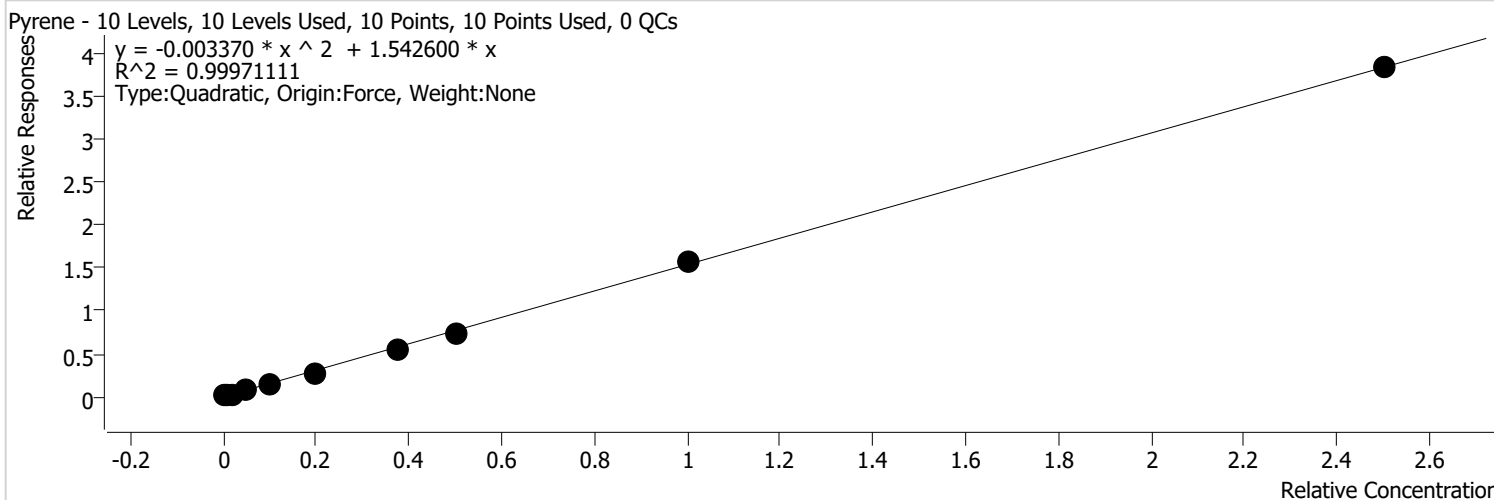


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\081523\081507.D	Calibration	1	x	1774	10.0000	1.4237	
C:\GC-14\Data\2023\081523\081508.D	Calibration	2	x	2628	20.0000	1.1066	
C:\GC-14\Data\2023\081523\081509.D	Calibration	3	x	5212	40.0000	1.1030	
C:\GC-14\Data\2023\081523\081510.D	Calibration	4	x	13877	100.0000	1.2245	
C:\GC-14\Data\2023\081523\081511.D	Calibration	5	x	27015	200.0000	1.2256	
C:\GC-14\Data\2023\081523\081512.D	Calibration	6	x	59025	400.0000	1.2798	
C:\GC-14\Data\2023\081523\081513.D	Calibration	7	x	122004	750.0000	1.3386	
C:\GC-14\Data\2023\081523\081514.D	Calibration	8	x	159751	1000.0000	1.3530	
C:\GC-14\Data\2023\081523\081515.D	Calibration	9	x	390678	2000.0000	1.4284	
C:\GC-14\Data\2023\081523\081516.D	Calibration	10	x	968356	5000.0000	1.4446	

Calibration Report

Batch Path	C:\GC-14\Data\2023\081523\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	8/16/2023 8:02 AM	Reporter Name	FA\GC14
Report Time	8/16/2023 8:08:01 AM	Batch State	Processed
Last Calib Update	8/16/2023 8:01 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Pyrene %RSE = 13.8

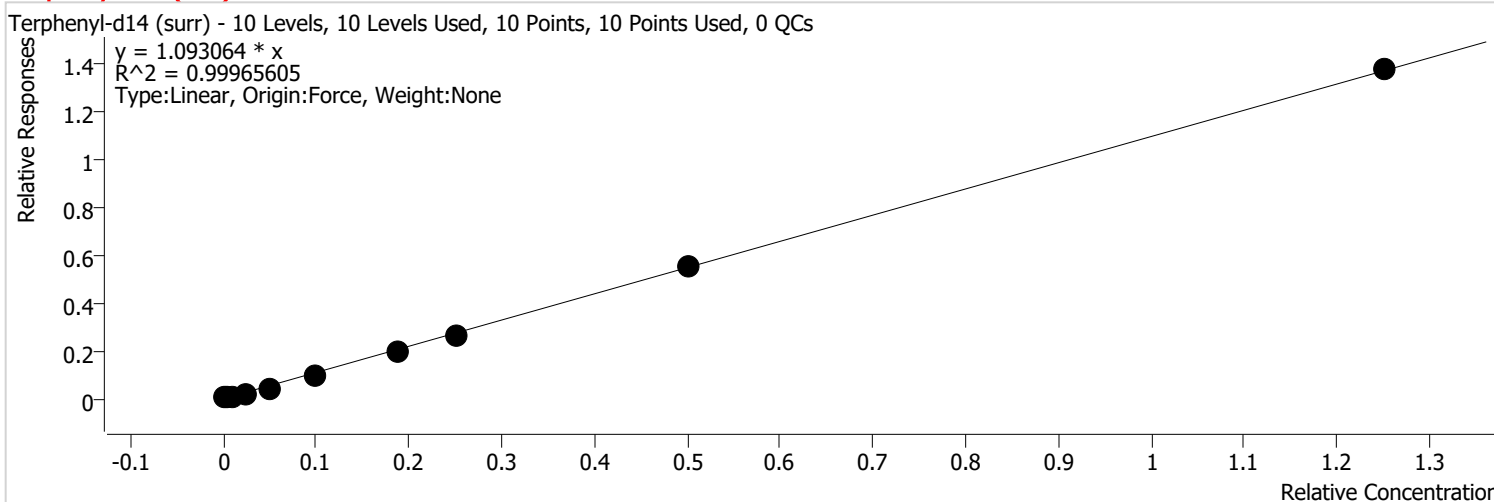


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\081523\081507.D	Calibration	1	x	2065	10.0000	1.6571	
C:\GC-14\Data\2023\081523\081508.D	Calibration	2	x	2927	20.0000	1.2324	
C:\GC-14\Data\2023\081523\081509.D	Calibration	3	x	5843	40.0000	1.2363	
C:\GC-14\Data\2023\081523\081510.D	Calibration	4	x	15282	100.0000	1.3485	
C:\GC-14\Data\2023\081523\081511.D	Calibration	5	x	29545	200.0000	1.3404	
C:\GC-14\Data\2023\081523\081512.D	Calibration	6	x	63226	400.0000	1.3708	
C:\GC-14\Data\2023\081523\081513.D	Calibration	7	x	136610	750.0000	1.4989	
C:\GC-14\Data\2023\081523\081514.D	Calibration	8	x	177230	1000.0000	1.5010	
C:\GC-14\Data\2023\081523\081515.D	Calibration	9	x	430978	2000.0000	1.5758	
C:\GC-14\Data\2023\081523\081516.D	Calibration	10	x	1027216	5000.0000	1.5324	

Calibration Report

Batch Path	C:\GC-14\Data\2023\081523\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	8/16/2023 8:02 AM	Reporter Name	FA\GC14
Report Time	8/16/2023 8:08:01 AM	Batch State	Processed
Last Calib Update	8/16/2023 8:01 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Terphenyl-d14 (surr) %RSE =



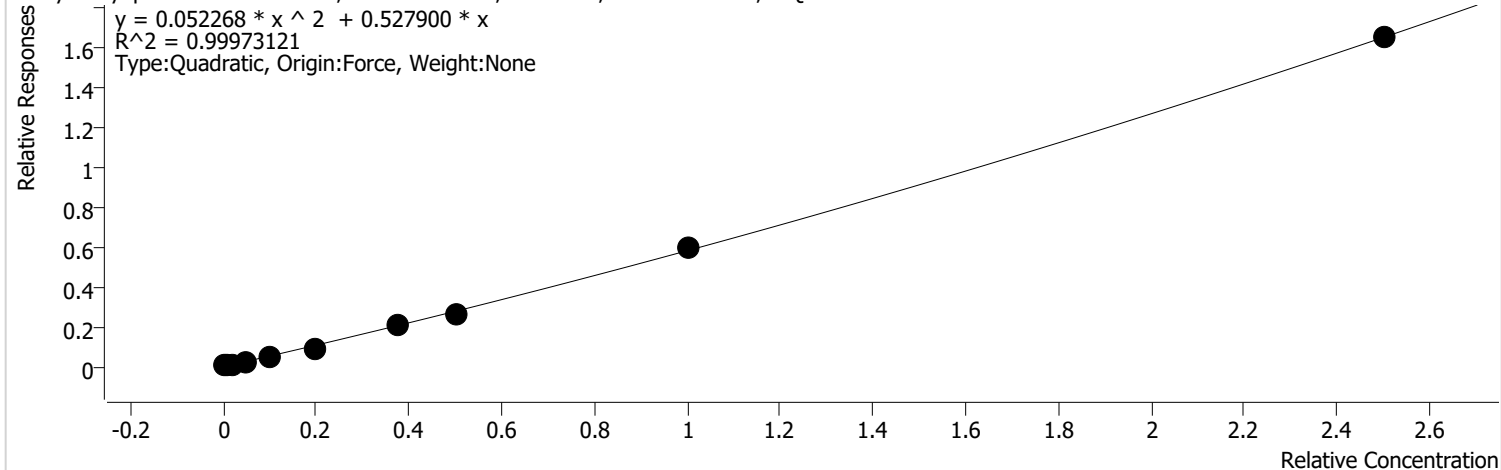
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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C:\GC-14\Data\2023\081523\081508.D	Calibration	2	x	950	10.0000	0.7998	
C:\GC-14\Data\2023\081523\081509.D	Calibration	3	x	1909	20.0000	0.8080	
C:\GC-14\Data\2023\081523\081510.D	Calibration	4	x	5056	50.0000	0.8924	
C:\GC-14\Data\2023\081523\081511.D	Calibration	5	x	9886	100.0000	0.8970	
C:\GC-14\Data\2023\081523\081512.D	Calibration	6	x	21905	200.0000	0.9499	
C:\GC-14\Data\2023\081523\081513.D	Calibration	7	x	47043	375.0000	1.0323	
C:\GC-14\Data\2023\081523\081514.D	Calibration	8	x	62464	500.0000	1.0581	
C:\GC-14\Data\2023\081523\081515.D	Calibration	9	x	149772	1000.0000	1.0952	
C:\GC-14\Data\2023\081523\081516.D	Calibration	10	x	367617	2500.0000	1.0968	

Calibration Report

Batch Path	C:\GC-14\Data\2023\081523\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	8/16/2023 8:02 AM	Reporter Name	FA\GC14
Report Time	8/16/2023 8:08:01 AM	Batch State	Processed
Last Calib Update	8/16/2023 8:01 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Benzyl Butyl phthalate %RSE = 12.8

Benzyl Butyl phthalate - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



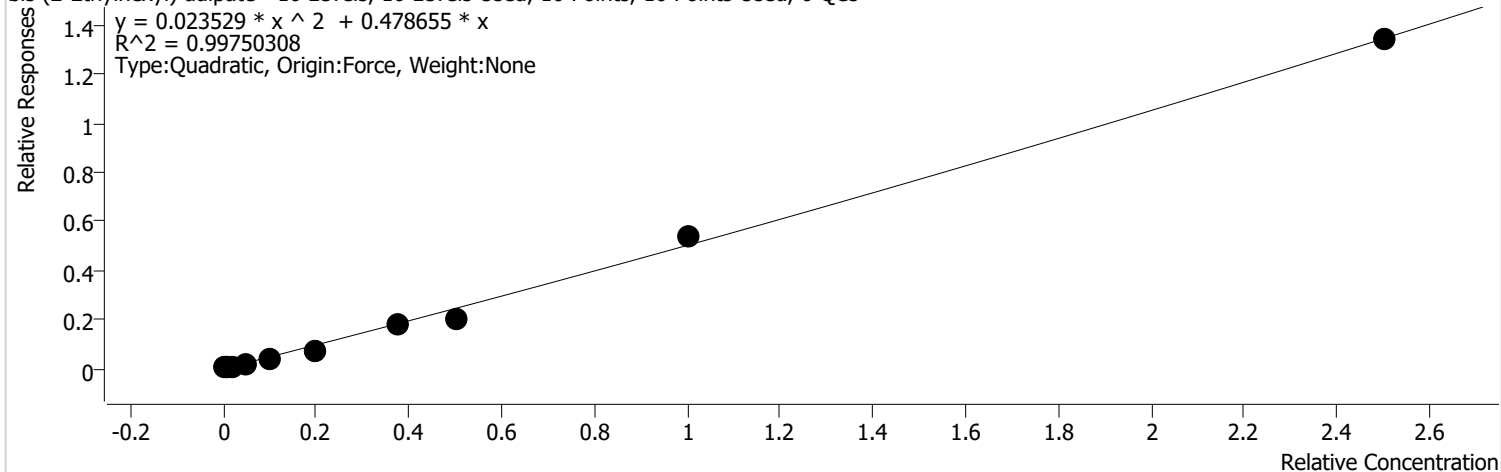
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\081523\081507.D	Calibration	1	x	664	10.0000	0.5329	
C:\GC-14\Data\2023\081523\081508.D	Calibration	2	x	1004	20.0000	0.4228	
C:\GC-14\Data\2023\081523\081509.D	Calibration	3	x	2040	40.0000	0.4316	
C:\GC-14\Data\2023\081523\081510.D	Calibration	4	x	5381	100.0000	0.4748	
C:\GC-14\Data\2023\081523\081511.D	Calibration	5	x	10376	200.0000	0.4708	
C:\GC-14\Data\2023\081523\081512.D	Calibration	6	x	21907	400.0000	0.4750	
C:\GC-14\Data\2023\081523\081513.D	Calibration	7	x	49719	750.0000	0.5455	
C:\GC-14\Data\2023\081523\081514.D	Calibration	8	x	62128	1000.0000	0.5262	
C:\GC-14\Data\2023\081523\081515.D	Calibration	9	x	162748	2000.0000	0.5950	
C:\GC-14\Data\2023\081523\081516.D	Calibration	10	x	441001	5000.0000	0.6579	

Calibration Report

Batch Path	C:\GC-14\Data\2023\081523\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	8/16/2023 8:02 AM	Reporter Name	FA\GC14
Report Time	8/16/2023 8:08:01 AM	Batch State	Processed
Last Calib Update	8/16/2023 8:01 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

bis (2-Ethylhexyl) adipate %RSE = 25.5

bis (2-Ethylhexyl) adipate - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



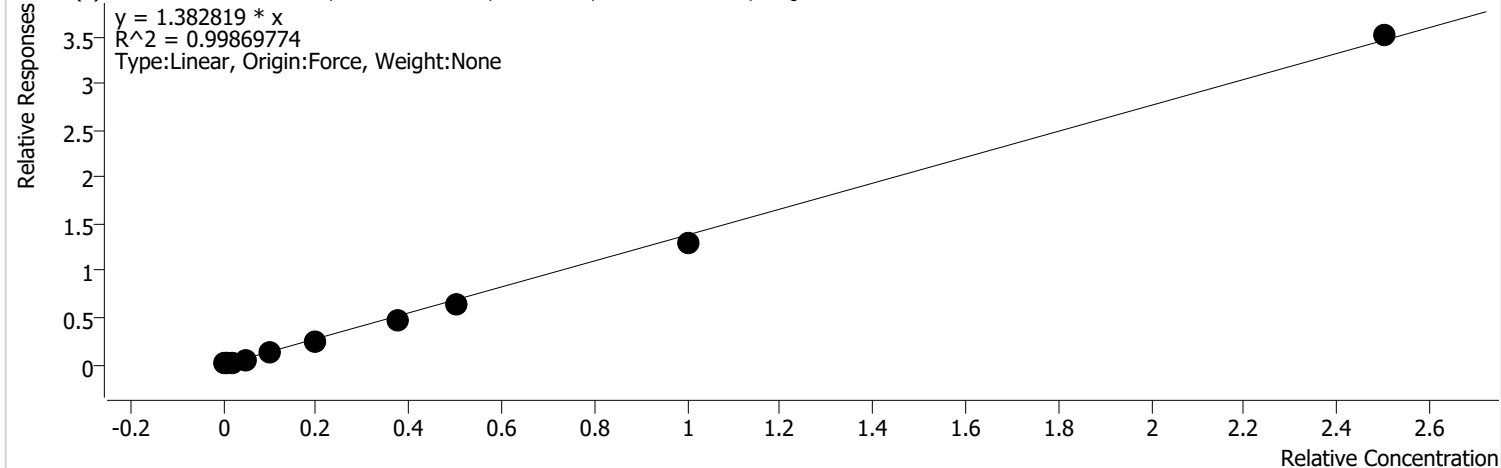
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\081523\081507.D	Calibration	1	x	491	10.0000	0.3942	
C:\GC-14\Data\2023\081523\081508.D	Calibration	2	x	733	20.0000	0.3088	
C:\GC-14\Data\2023\081523\081509.D	Calibration	3	x	1494	40.0000	0.3160	
C:\GC-14\Data\2023\081523\081510.D	Calibration	4	x	4026	100.0000	0.3553	
C:\GC-14\Data\2023\081523\081511.D	Calibration	5	x	8822	200.0000	0.4002	
C:\GC-14\Data\2023\081523\081512.D	Calibration	6	x	17086	400.0000	0.3704	
C:\GC-14\Data\2023\081523\081513.D	Calibration	7	x	43121	750.0000	0.4731	
C:\GC-14\Data\2023\081523\081514.D	Calibration	8	x	48075	1000.0000	0.4072	
C:\GC-14\Data\2023\081523\081515.D	Calibration	9	x	148149	2000.0000	0.5417	
C:\GC-14\Data\2023\081523\081516.D	Calibration	10	x	359116	5000.0000	0.5357	

Calibration Report

Batch Path	C:\GC-14\Data\2023\081523\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	8/16/2023 8:02 AM	Reporter Name	FA\GC14
Report Time	8/16/2023 8:08:01 AM	Batch State	Processed
Last Calib Update	8/16/2023 8:01 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Benzo (a) anthracene %RSE = 13.8

Benzo (a) anthracene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs

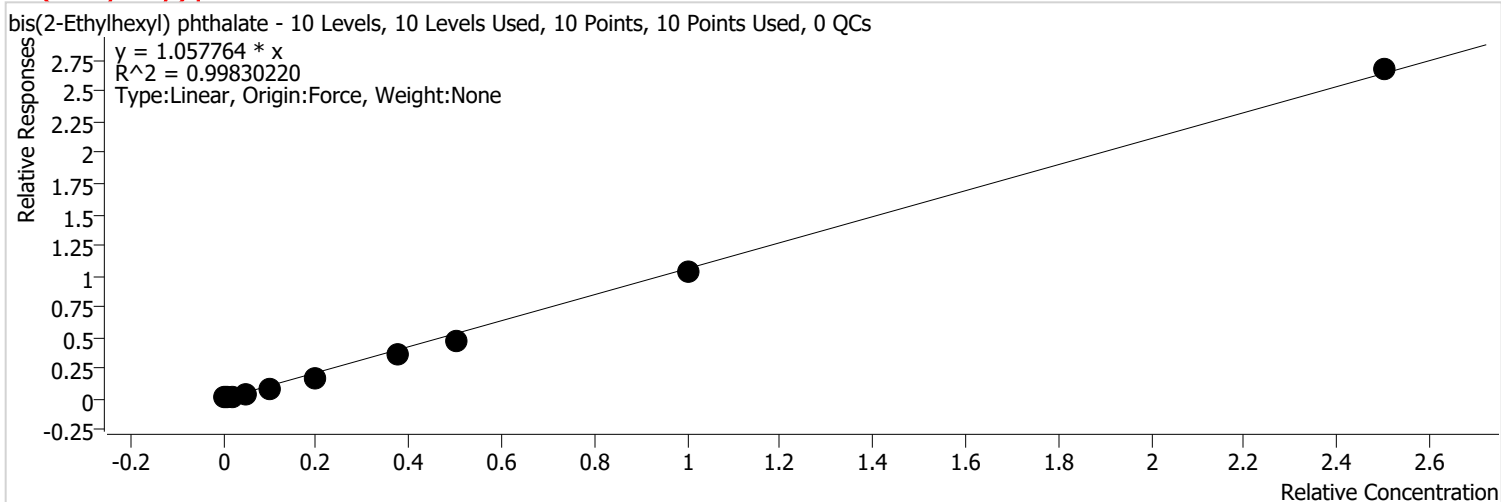


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\081523\081507.D	Calibration	1	x	2189	10.0000	1.7566	
C:\GC-14\Data\2023\081523\081508.D	Calibration	2	x	3183	20.0000	1.3402	
C:\GC-14\Data\2023\081523\081509.D	Calibration	3	x	5637	40.0000	1.1928	
C:\GC-14\Data\2023\081523\081510.D	Calibration	4	x	13906	100.0000	1.2271	
C:\GC-14\Data\2023\081523\081511.D	Calibration	5	x	26145	200.0000	1.1862	
C:\GC-14\Data\2023\081523\081512.D	Calibration	6	x	57193	400.0000	1.2400	
C:\GC-14\Data\2023\081523\081513.D	Calibration	7	x	115968	750.0000	1.2724	
C:\GC-14\Data\2023\081523\081514.D	Calibration	8	x	150676	1000.0000	1.2761	
C:\GC-14\Data\2023\081523\081515.D	Calibration	9	x	357908	2000.0000	1.3086	
C:\GC-14\Data\2023\081523\081516.D	Calibration	10	x	940307	5000.0000	1.4028	

Calibration Report

Batch Path	C:\GC-14\Data\2023\081523\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	8/16/2023 8:02 AM	Reporter Name	FA\GC14
Report Time	8/16/2023 8:08:01 AM	Batch State	Processed
Last Calib Update	8/16/2023 8:01 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

bis(2-Ethylhexyl) phthalate %RSE = 21.6

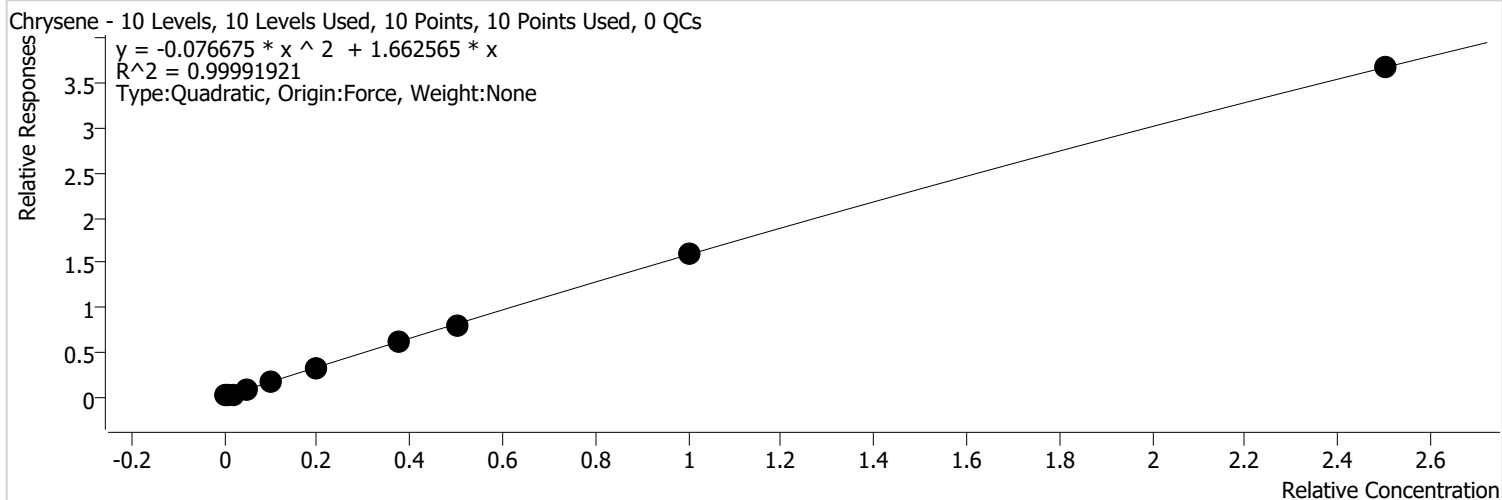


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\081523\081507.D	Calibration	1	x	1275	10.0000	1.2445	
C:\GC-14\Data\2023\081523\081508.D	Calibration	2	x	1482	20.0000	0.7399	
C:\GC-14\Data\2023\081523\081509.D	Calibration	3	x	2917	40.0000	0.7307	
C:\GC-14\Data\2023\081523\081510.D	Calibration	4	x	8153	100.0000	0.8542	
C:\GC-14\Data\2023\081523\081511.D	Calibration	5	x	15923	200.0000	0.8465	
C:\GC-14\Data\2023\081523\081512.D	Calibration	6	x	33121	400.0000	0.8188	
C:\GC-14\Data\2023\081523\081513.D	Calibration	7	x	75539	750.0000	0.9436	
C:\GC-14\Data\2023\081523\081514.D	Calibration	8	x	96951	1000.0000	0.9196	
C:\GC-14\Data\2023\081523\081515.D	Calibration	9	x	265174	2000.0000	1.0438	
C:\GC-14\Data\2023\081523\081516.D	Calibration	10	x	720276	5000.0000	1.0701	

Calibration Report

Batch Path	C:\GC-14\Data\2023\081523\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	8/16/2023 8:02 AM	Reporter Name	FA\GC14
Report Time	8/16/2023 8:08:01 AM	Batch State	Processed
Last Calib Update	8/16/2023 8:01 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Chrysene %RSE = 8.8

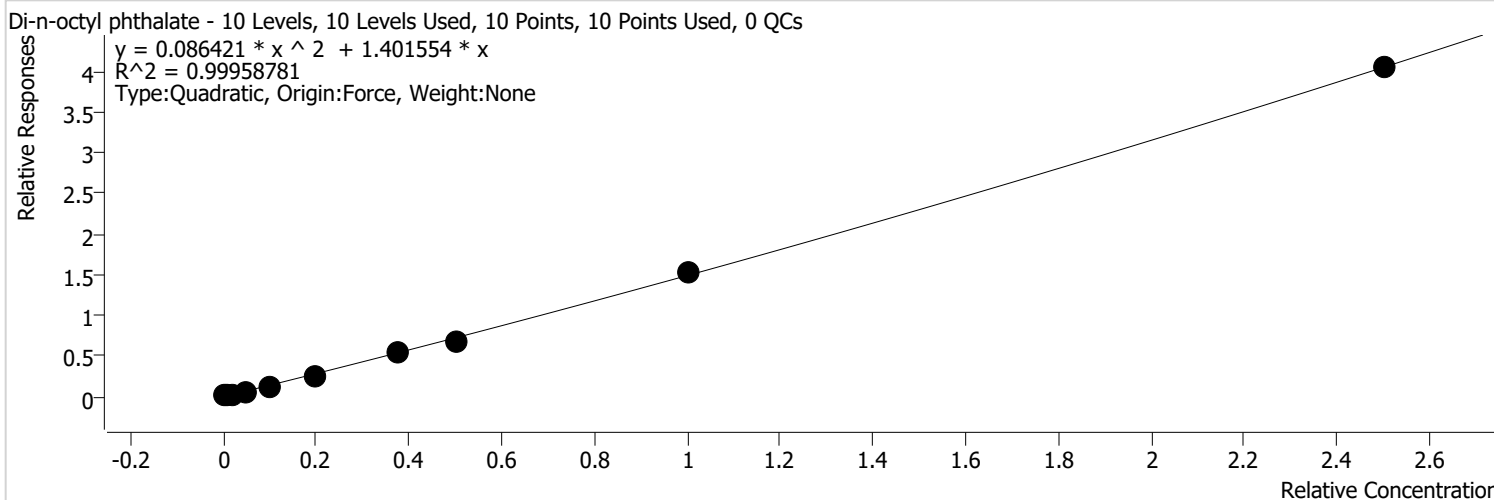


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\081523\081507.D	Calibration	1	x	1720	10.0000	1.6788	
C:\GC-14\Data\2023\081523\081508.D	Calibration	2	x	2877	20.0000	1.4359	
C:\GC-14\Data\2023\081523\081509.D	Calibration	3	x	5567	40.0000	1.3944	
C:\GC-14\Data\2023\081523\081510.D	Calibration	4	x	14999	100.0000	1.5714	
C:\GC-14\Data\2023\081523\081511.D	Calibration	5	x	29041	200.0000	1.5439	
C:\GC-14\Data\2023\081523\081512.D	Calibration	6	x	64173	400.0000	1.5865	
C:\GC-14\Data\2023\081523\081513.D	Calibration	7	x	128482	750.0000	1.6049	
C:\GC-14\Data\2023\081523\081514.D	Calibration	8	x	168797	1000.0000	1.6011	
C:\GC-14\Data\2023\081523\081515.D	Calibration	9	x	407872	2000.0000	1.6054	
C:\GC-14\Data\2023\081523\081516.D	Calibration	10	x	989435	5000.0000	1.4699	

Calibration Report

Batch Path	C:\GC-14\Data\2023\081523\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	8/16/2023 8:02 AM	Reporter Name	FA\GC14
Report Time	8/16/2023 8:08:01 AM	Batch State	Processed
Last Calib Update	8/16/2023 8:01 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Di-n-octyl phthalate %RSE = 15.7



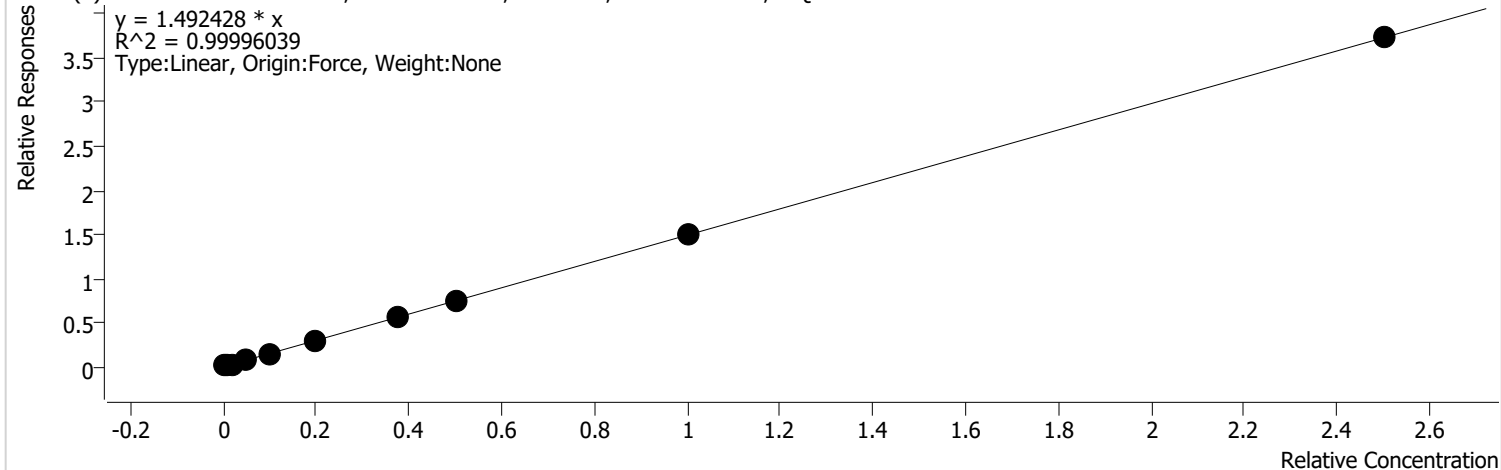
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\081523\081507.D	Calibration	1	x	1312	10.0000	1.2809	
C:\GC-14\Data\2023\081523\081508.D	Calibration	2	x	2092	20.0000	1.0444	
C:\GC-14\Data\2023\081523\081509.D	Calibration	3	x	4304	40.0000	1.0781	
C:\GC-14\Data\2023\081523\081510.D	Calibration	4	x	11900	100.0000	1.2467	
C:\GC-14\Data\2023\081523\081511.D	Calibration	5	x	23715	200.0000	1.2608	
C:\GC-14\Data\2023\081523\081512.D	Calibration	6	x	49485	400.0000	1.2234	
C:\GC-14\Data\2023\081523\081513.D	Calibration	7	x	115358	750.0000	1.4409	
C:\GC-14\Data\2023\081523\081514.D	Calibration	8	x	142820	1000.0000	1.3547	
C:\GC-14\Data\2023\081523\081515.D	Calibration	9	x	389194	2000.0000	1.5319	
C:\GC-14\Data\2023\081523\081516.D	Calibration	10	x	1087475	5000.0000	1.6156	

Calibration Report

Batch Path	C:\GC-14\Data\2023\081523\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	8/16/2023 8:02 AM	Reporter Name	FA\GC14
Report Time	8/16/2023 8:08:01 AM	Batch State	Processed
Last Calib Update	8/16/2023 8:01 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

benzo (b) fluoranthene %RSE = 8.6

benzo (b) fluoranthene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



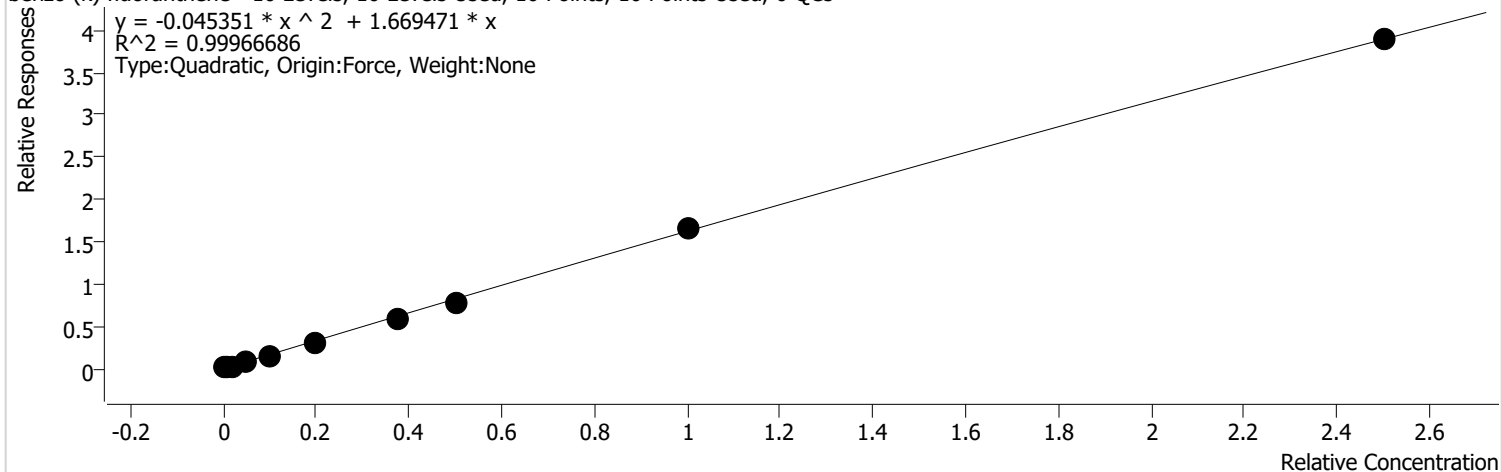
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\081523\081507.D	Calibration	1	x	1515	10.0000	1.4787	
C:\GC-14\Data\2023\081523\081508.D	Calibration	2	x	2495	20.0000	1.2453	
C:\GC-14\Data\2023\081523\081509.D	Calibration	3	x	5088	40.0000	1.2744	
C:\GC-14\Data\2023\081523\081510.D	Calibration	4	x	13554	100.0000	1.4200	
C:\GC-14\Data\2023\081523\081511.D	Calibration	5	x	26228	200.0000	1.3944	
C:\GC-14\Data\2023\081523\081512.D	Calibration	6	x	57140	400.0000	1.4127	
C:\GC-14\Data\2023\081523\081513.D	Calibration	7	x	121011	750.0000	1.5115	
C:\GC-14\Data\2023\081523\081514.D	Calibration	8	x	156326	1000.0000	1.4828	
C:\GC-14\Data\2023\081523\081515.D	Calibration	9	x	380214	2000.0000	1.4966	
C:\GC-14\Data\2023\081523\081516.D	Calibration	10	x	1004570	5000.0000	1.4924	

Calibration Report

Batch Path	C:\GC-14\Data\2023\081523\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	8/16/2023 8:02 AM	Reporter Name	FA\GC14
Report Time	8/16/2023 8:08:01 AM	Batch State	Processed
Last Calib Update	8/16/2023 8:01 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

benzo (k) fluoranthene %RSE = 13.4

benzo (k) fluoranthene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



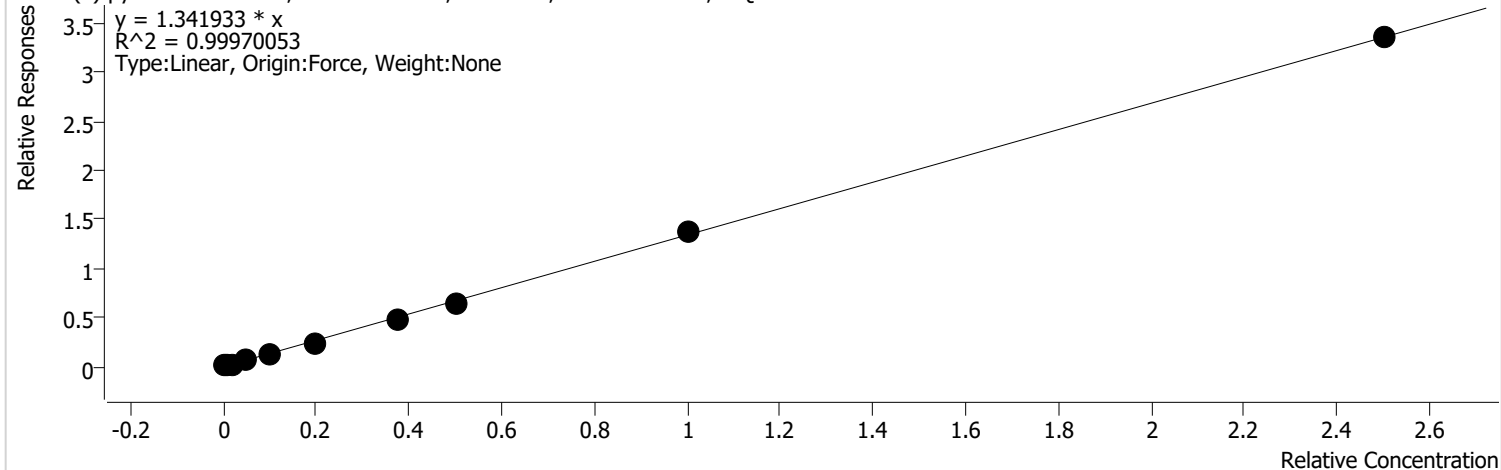
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\081523\081507.D	Calibration	1	x	1613	10.0000	1.5743	
C:\GC-14\Data\2023\081523\081508.D	Calibration	2	x	2668	20.0000	1.3316	
C:\GC-14\Data\2023\081523\081509.D	Calibration	3	x	5112	40.0000	1.2804	
C:\GC-14\Data\2023\081523\081510.D	Calibration	4	x	14303	100.0000	1.4985	
C:\GC-14\Data\2023\081523\081511.D	Calibration	5	x	28175	200.0000	1.4979	
C:\GC-14\Data\2023\081523\081512.D	Calibration	6	x	63793	400.0000	1.5771	
C:\GC-14\Data\2023\081523\081513.D	Calibration	7	x	126252	750.0000	1.5770	
C:\GC-14\Data\2023\081523\081514.D	Calibration	8	x	167127	1000.0000	1.5853	
C:\GC-14\Data\2023\081523\081515.D	Calibration	9	x	423881	2000.0000	1.6685	
C:\GC-14\Data\2023\081523\081516.D	Calibration	10	x	1046049	5000.0000	1.5541	

Calibration Report

Batch Path	C:\GC-14\Data\2023\081523\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	8/16/2023 8:02 AM	Reporter Name	FA\GC14
Report Time	8/16/2023 8:08:02 AM	Batch State	Processed
Last Calib Update	8/16/2023 8:01 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

benzo (a) pyrene %RSE = 12.0

benzo (a) pyrene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs

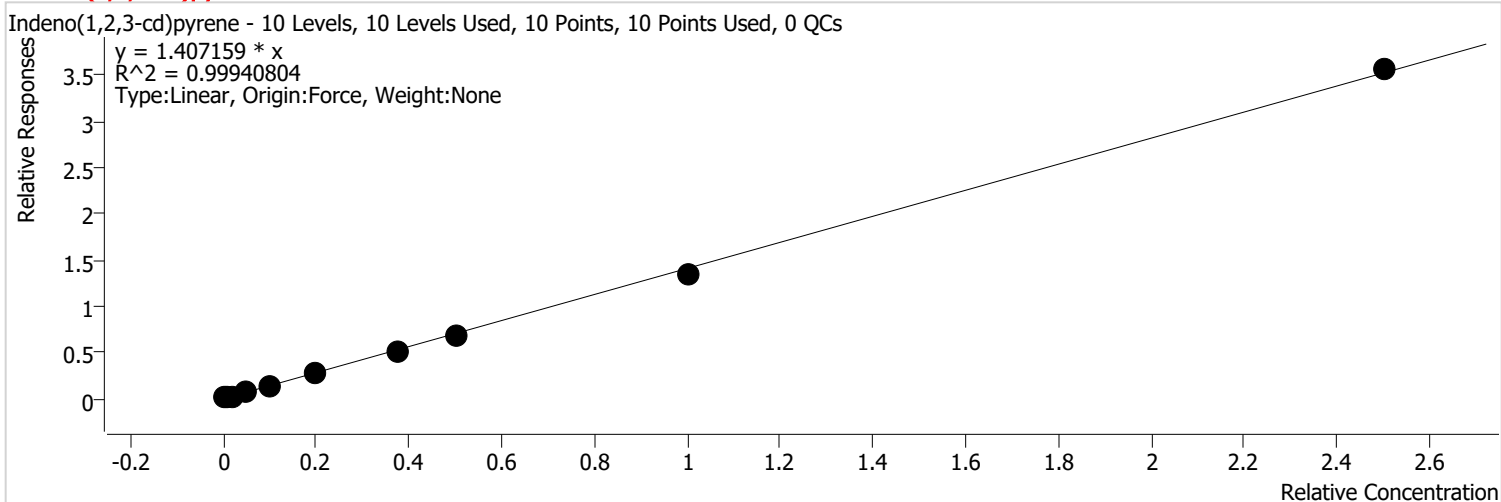


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\081523\081507.D	Calibration	1	x	1294	10.0000	1.2629	
C:\GC-14\Data\2023\081523\081508.D	Calibration	2	x	2099	20.0000	1.0477	
C:\GC-14\Data\2023\081523\081509.D	Calibration	3	x	4346	40.0000	1.0886	
C:\GC-14\Data\2023\081523\081510.D	Calibration	4	x	11685	100.0000	1.2242	
C:\GC-14\Data\2023\081523\081511.D	Calibration	5	x	22772	200.0000	1.2107	
C:\GC-14\Data\2023\081523\081512.D	Calibration	6	x	49303	400.0000	1.2189	
C:\GC-14\Data\2023\081523\081513.D	Calibration	7	x	105130	750.0000	1.3132	
C:\GC-14\Data\2023\081523\081514.D	Calibration	8	x	135923	1000.0000	1.2893	
C:\GC-14\Data\2023\081523\081515.D	Calibration	9	x	349986	2000.0000	1.3776	
C:\GC-14\Data\2023\081523\081516.D	Calibration	10	x	901997	5000.0000	1.3400	

Calibration Report

Batch Path	C:\GC-14\Data\2023\081523\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	8/16/2023 8:02 AM	Reporter Name	FA\GC14
Report Time	8/16/2023 8:08:02 AM	Batch State	Processed
Last Calib Update	8/16/2023 8:01 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Indeno(1,2,3-cd)pyrene %RSE = 8.8



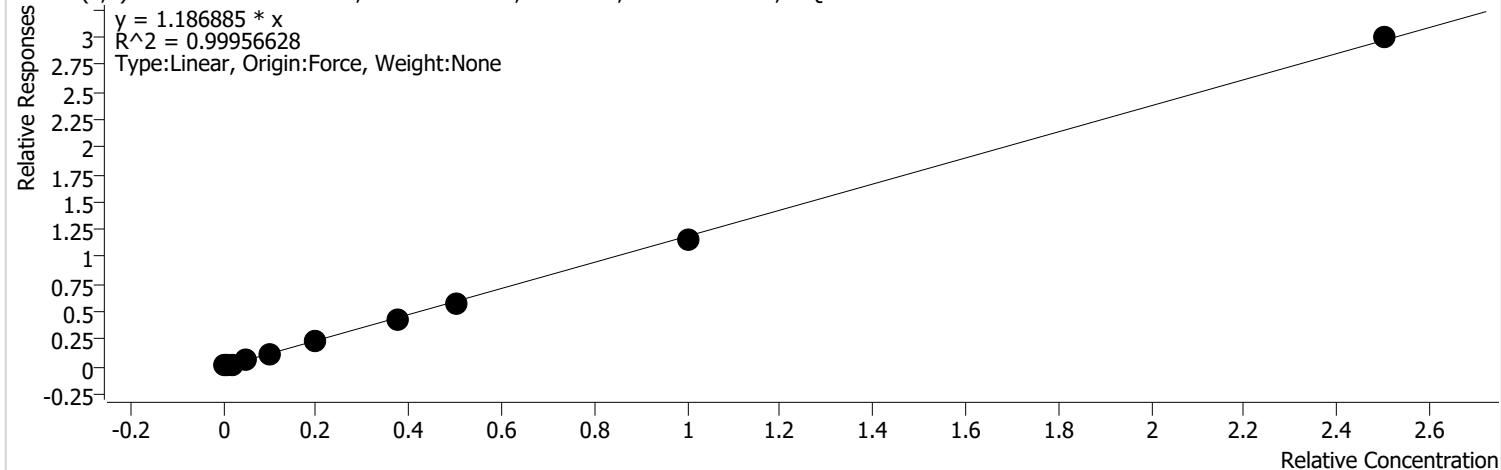
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\081523\081507.D	Calibration	1	x	1768	10.0000	1.4254	
C:\GC-14\Data\2023\081523\081508.D	Calibration	2	x	2889	20.0000	1.1957	
C:\GC-14\Data\2023\081523\081509.D	Calibration	3	x	5724	40.0000	1.1899	
C:\GC-14\Data\2023\081523\081510.D	Calibration	4	x	15026	100.0000	1.3113	
C:\GC-14\Data\2023\081523\081511.D	Calibration	5	x	29341	200.0000	1.3051	
C:\GC-14\Data\2023\081523\081512.D	Calibration	6	x	66997	400.0000	1.3807	
C:\GC-14\Data\2023\081523\081513.D	Calibration	7	x	131081	750.0000	1.3375	
C:\GC-14\Data\2023\081523\081514.D	Calibration	8	x	177674	1000.0000	1.3647	
C:\GC-14\Data\2023\081523\081515.D	Calibration	9	x	425106	2000.0000	1.3442	
C:\GC-14\Data\2023\081523\081516.D	Calibration	10	x	1124252	5000.0000	1.4209	

Calibration Report

Batch Path	C:\GC-14\Data\2023\081523\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	8/16/2023 8:02 AM	Reporter Name	FA\GC14
Report Time	8/16/2023 8:08:02 AM	Batch State	Processed
Last Calib Update	8/16/2023 8:01 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Dibenz (a,h) anthracene %RSE = 10.1

Dibenz (a,h) anthracene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



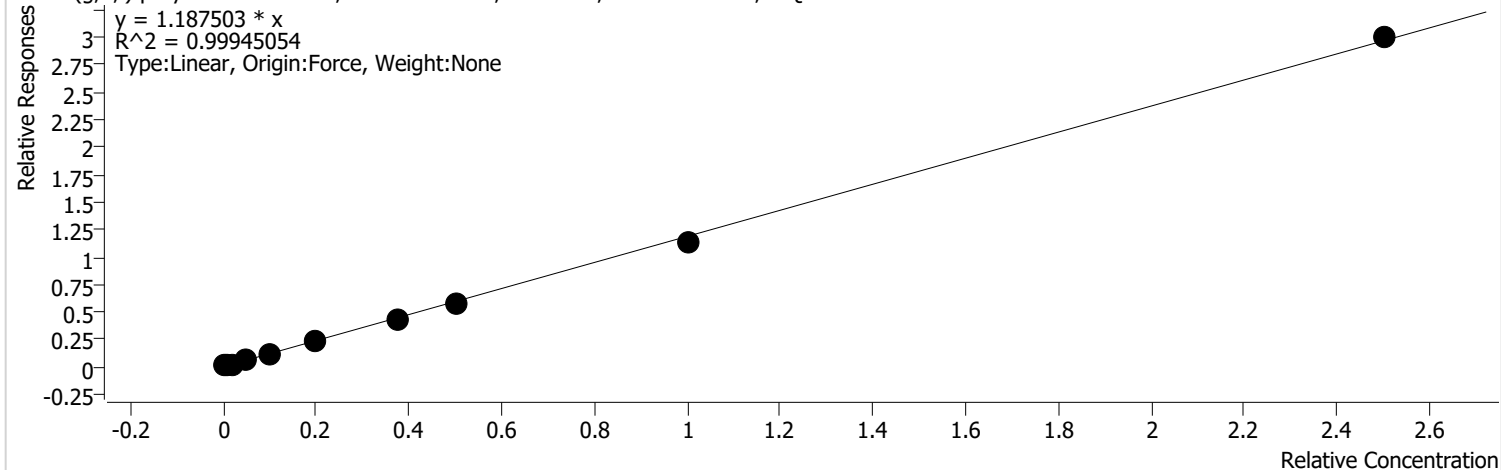
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\081523\081507.D	Calibration	1	x	1424	10.0000	1.1480	
C:\GC-14\Data\2023\081523\081508.D	Calibration	2	x	2393	20.0000	0.9904	
C:\GC-14\Data\2023\081523\081509.D	Calibration	3	x	4711	40.0000	0.9794	
C:\GC-14\Data\2023\081523\081510.D	Calibration	4	x	12444	100.0000	1.0859	
C:\GC-14\Data\2023\081523\081511.D	Calibration	5	x	24274	200.0000	1.0797	
C:\GC-14\Data\2023\081523\081512.D	Calibration	6	x	55289	400.0000	1.1394	
C:\GC-14\Data\2023\081523\081513.D	Calibration	7	x	110172	750.0000	1.1242	
C:\GC-14\Data\2023\081523\081514.D	Calibration	8	x	148332	1000.0000	1.1394	
C:\GC-14\Data\2023\081523\081515.D	Calibration	9	x	363551	2000.0000	1.1496	
C:\GC-14\Data\2023\081523\081516.D	Calibration	10	x	946871	5000.0000	1.1967	

Calibration Report

Batch Path	C:\GC-14\Data\2023\081523\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	8/16/2023 8:02 AM	Reporter Name	FA\GC14
Report Time	8/16/2023 8:08:02 AM	Batch State	Processed
Last Calib Update	8/16/2023 8:01 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Benzo (g,h,i) perylene %RSE = 7.8

Benzo (g,h,i) perylene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs




Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\081523\081507.D	Calibration	1	x	1665	10.0000	1.3424	
C:\GC-14\Data\2023\081523\081508.D	Calibration	2	x	2712	20.0000	1.1223	
C:\GC-14\Data\2023\081523\081509.D	Calibration	3	x	5018	40.0000	1.0432	
C:\GC-14\Data\2023\081523\081510.D	Calibration	4	x	12889	100.0000	1.1247	
C:\GC-14\Data\2023\081523\081511.D	Calibration	5	x	24940	200.0000	1.1093	
C:\GC-14\Data\2023\081523\081512.D	Calibration	6	x	56608	400.0000	1.1666	
C:\GC-14\Data\2023\081523\081513.D	Calibration	7	x	109491	750.0000	1.1172	
C:\GC-14\Data\2023\081523\081514.D	Calibration	8	x	148051	1000.0000	1.1372	
C:\GC-14\Data\2023\081523\081515.D	Calibration	9	x	361189	2000.0000	1.1421	
C:\GC-14\Data\2023\081523\081516.D	Calibration	10	x	948417	5000.0000	1.1987	

Semivolatile Calibration

Date: 8/11/23	Cal	ICV
Analyst: SRH	8270 Megamix: 27433	8270 Megamix: 28486
MeCl2: 3001/7645	2,4-DNP: 27477	2,4-DNP: 28196
8270 Surrogate: 28415	Benzoic Acid: 27263	Benzoic Acid: 28493
Internal Standard: 28717	Benzidines: 23501	Benzidines: 28634

	Spike Conc. (ppb)	BN/Acid Surr Conc. (ppb)	2° Spike (uL)	B/N Surr (uL)	Internal Standard (uL)	Remove (uL)	Final Vol. (mL)	Comments
GC-21	2	2/1	0.2	--	10	10.2	1	For PAH-LL Cal Only
121	10	10/5	1	--	10	11	1	
122	20	20/10	2	--	10	12	1	
123	40	40/20	4	--	10	14	1	
124	100	100/50	10	--	10	20	1	
125	200	200/100	20	--	10	30	1	
126	400 500	400 500 / 250 200	40	--	10	50	1	
127	750	750/375	75	--	10	85	1	
128	1000	1000/500	100	--	10	110	1	
129	2000	2000/1000	200	--	10	210	1	
130	5000	5000/2500	500	--	10	510	1	
131	ICB	1000/500		5	10	15	1	
140	ICV (1000 ppb)	1000/500	100 (2° SS)	--	10	110	1	

	Mega Mix (uL)	2,4-DNP (uL)	Benzoic Acid	8270 Surr	Benzidine	Final
2° Intermediate (cal)	100	100	100	500	50	10
2° Intermediate (SS)	10	10	10	50	5	1

Signature and Date:  8/11/23

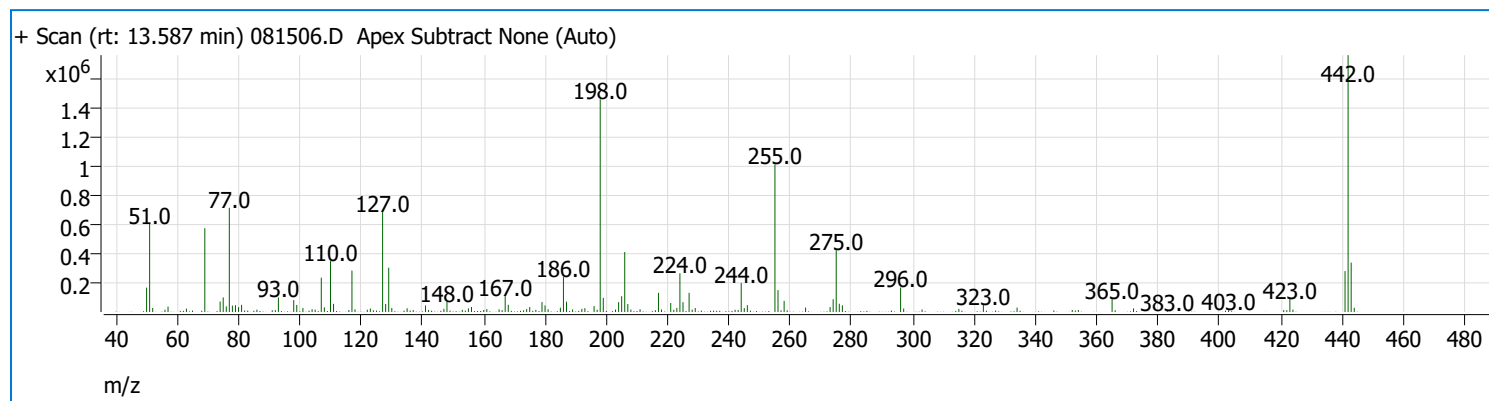
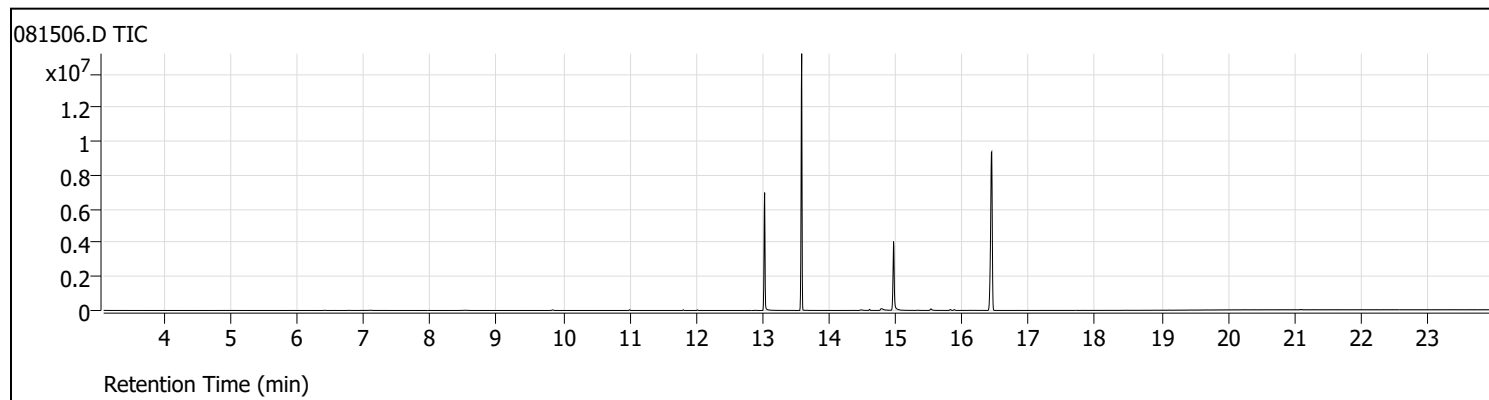
Signature: AK



Tunes

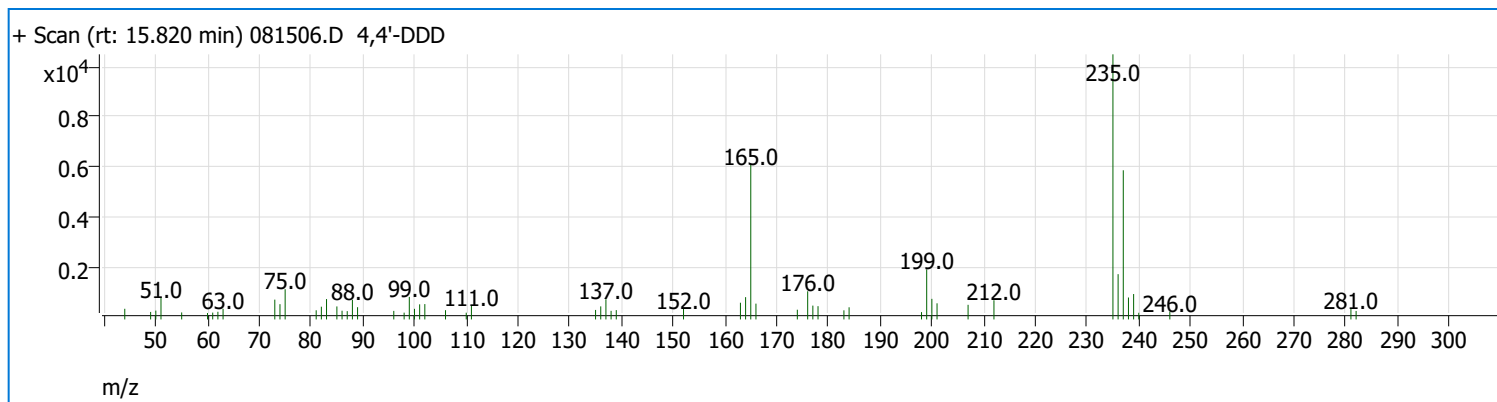
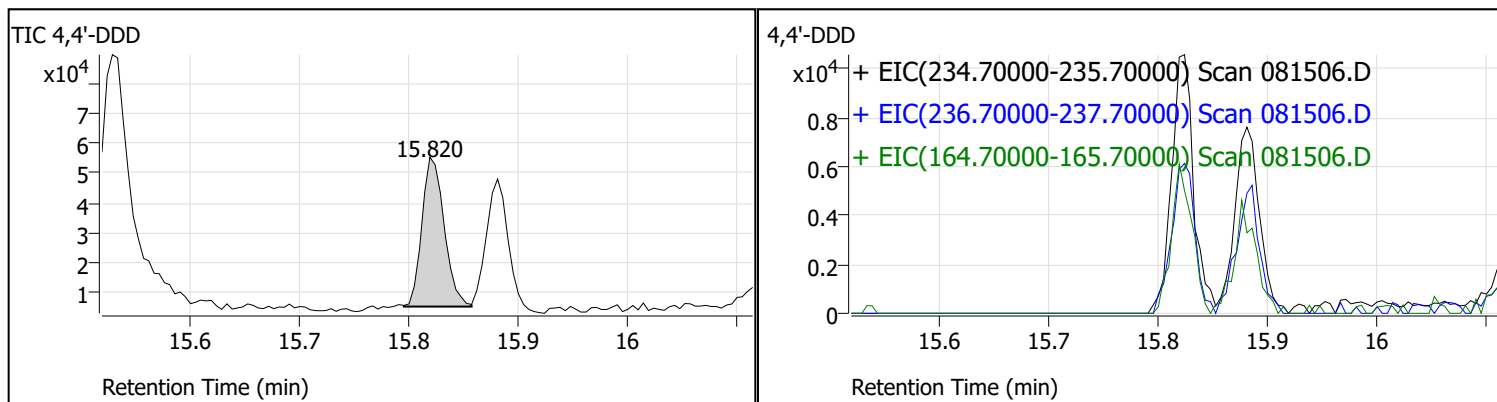
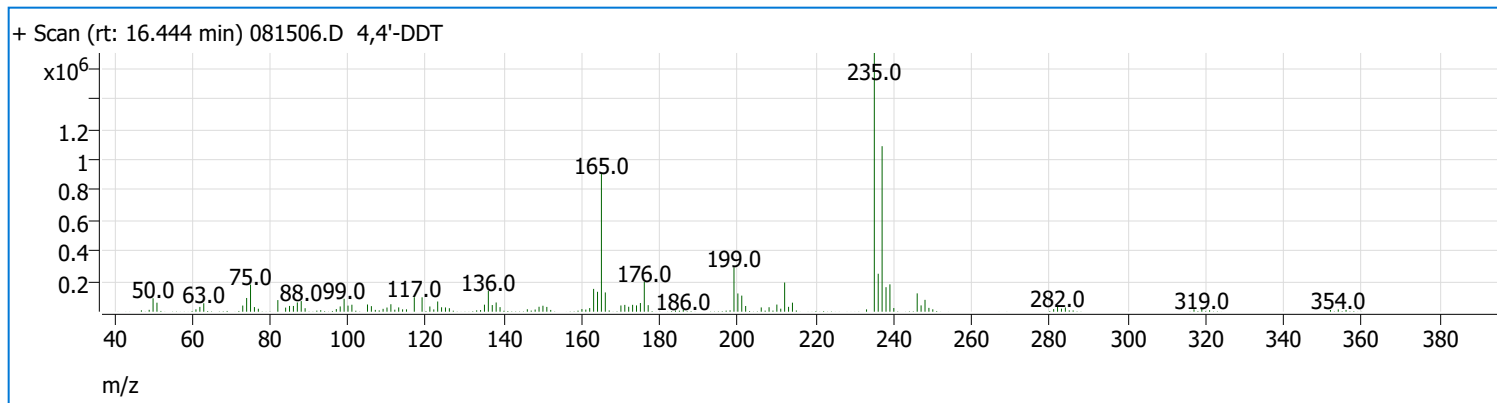
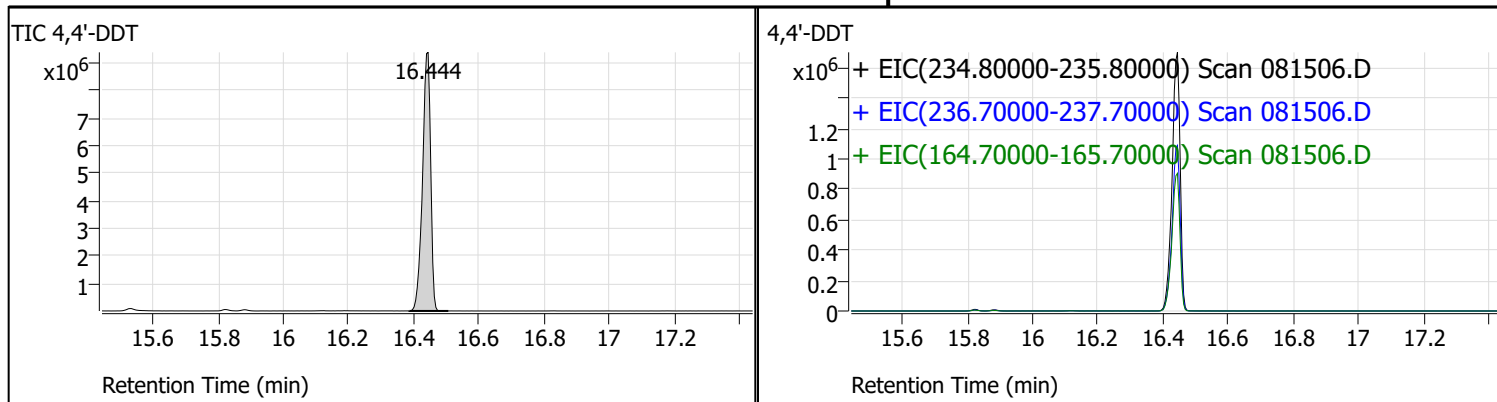
Tune Evaluation Report

Data Path: C:\GC-14\Data\2023\081523\081506.D
 Acq on: 8/15/2023 12:41:56 PM
 Operator: FA\GC14
 Sample: TUNE
 Inst Name: GC-14
 ALS Vial: 1
 Method: C:\GC-14\Methods\Quant
 Methods\TUNE\DFTPPwBreak&TailingGC218270E.m



Target Mass	Rel. To Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Pass/Fail
68	69	0	2	1.5	8718	Pass
70	69	0	2	0.5	3122	Pass
197	198	0	2	1.1	15551	Pass
198	198	100	100	100.0	1455104	Pass
199	198	5	9	6.6	96648	Pass
365	442	1	100	5.1	88936	Pass
441	443	1E-10	150	82.8	279744	Pass
442	442	100	100	100.0	1756160	Pass
443	442	15	24	19.2	337856	Pass
69	69	100	100	100.0	572672	Pass

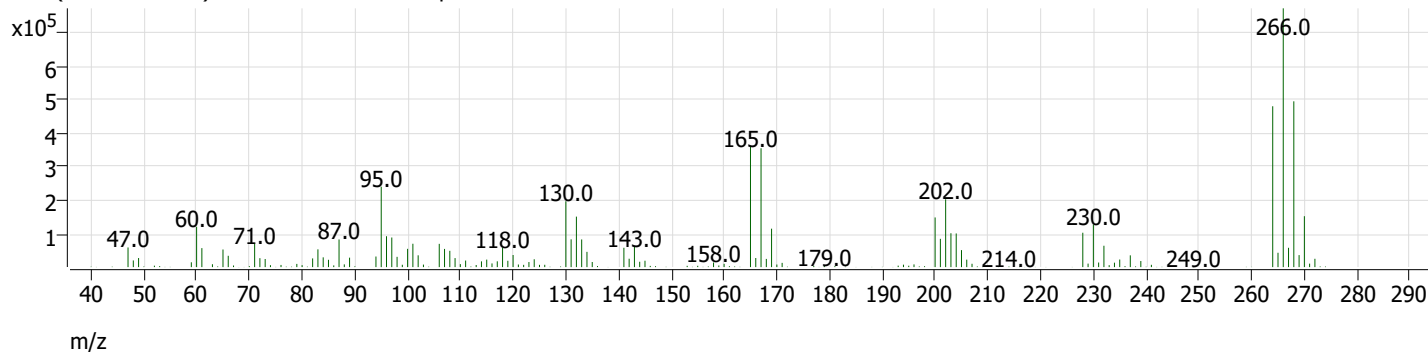
Tune Evaluation Report



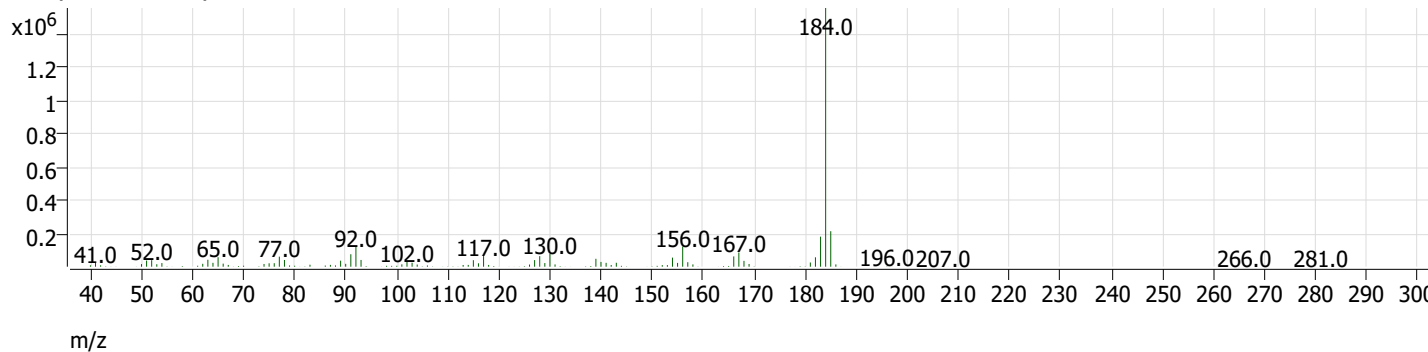
Compound Name	Expected RT	Observed RT	TIC Area	Breakdown %	Pass/Fail
4,4'-DDT	16.440	16.444	16232545	0.4	Pass
4,4'-DDD	15.820	15.820	71105		

Tune Evaluation Report

+ Scan (rt: 13.030 min) 081506.D Pentachlorophenol



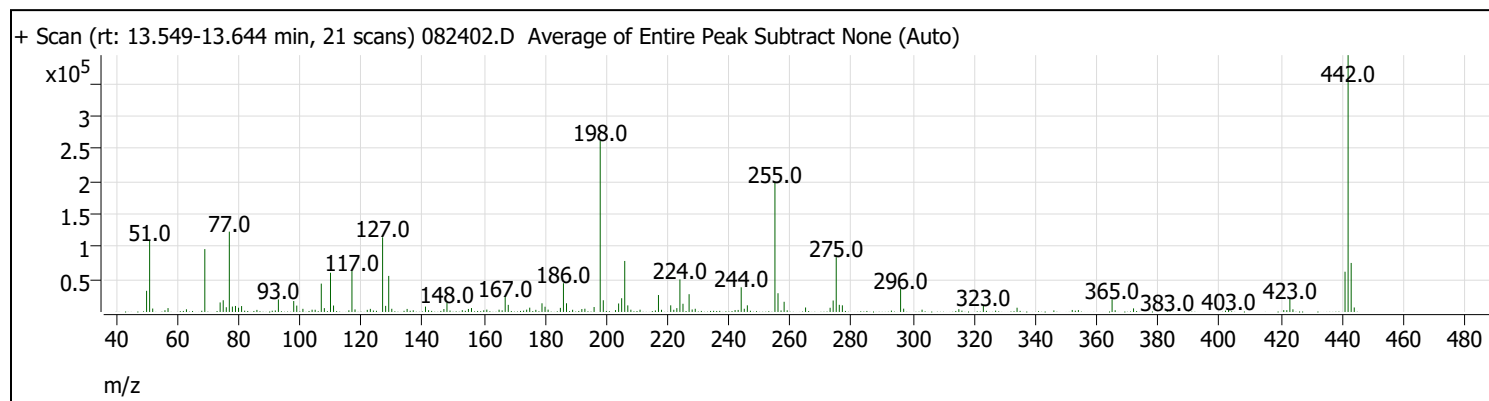
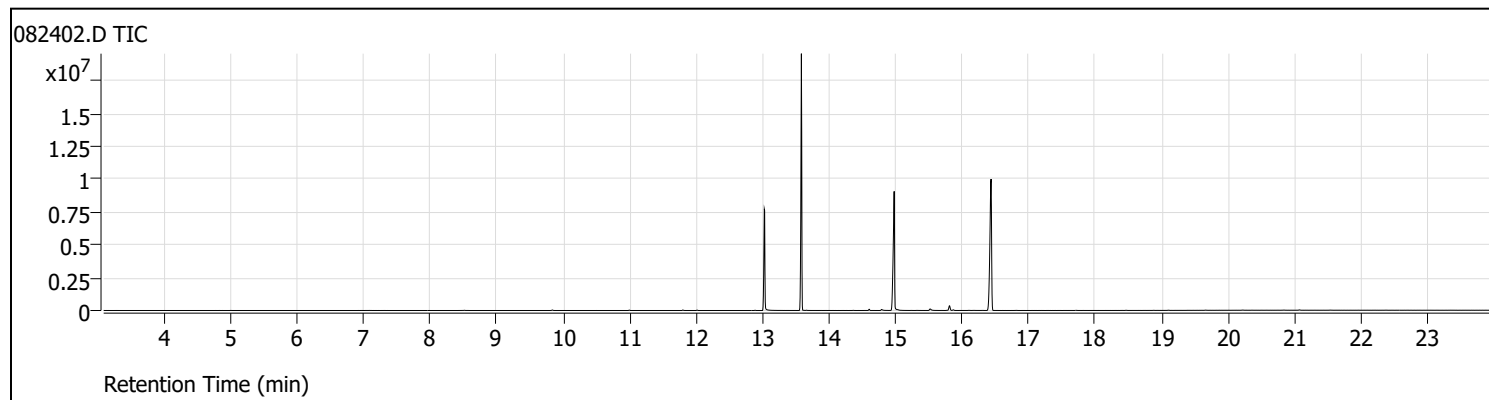
+ Scan (rt: 14.968 min) 081506.D Benzidine



Compound Name	Expected RT	Observed RT	Tailing Factor	PGF	Pass/Fail
Pentachlorophenol	13.030	13.030	0.7	4.5	Pass
Benzidine	14.900	14.968	1.2	3.6	Pass

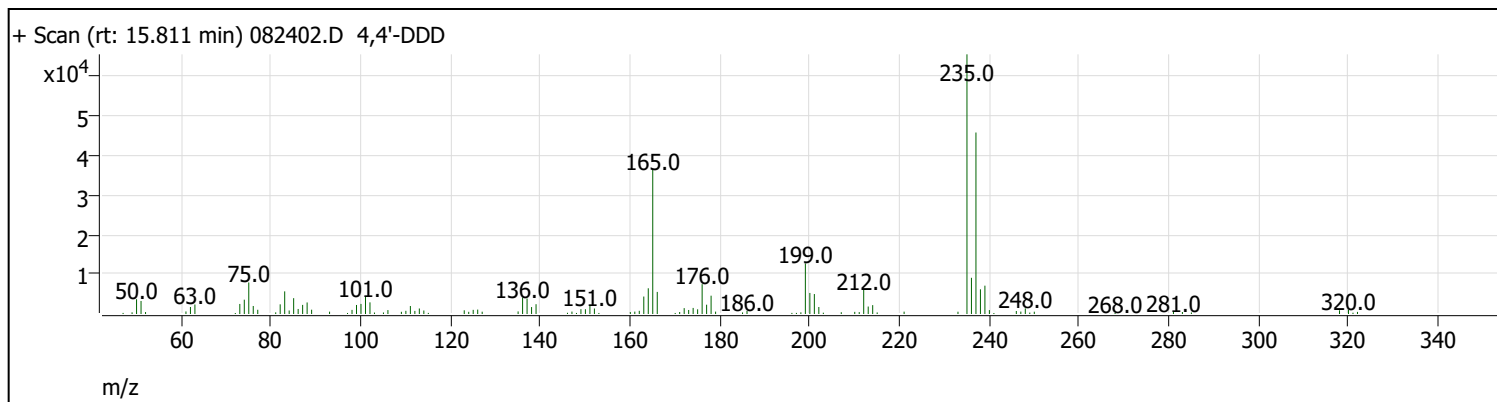
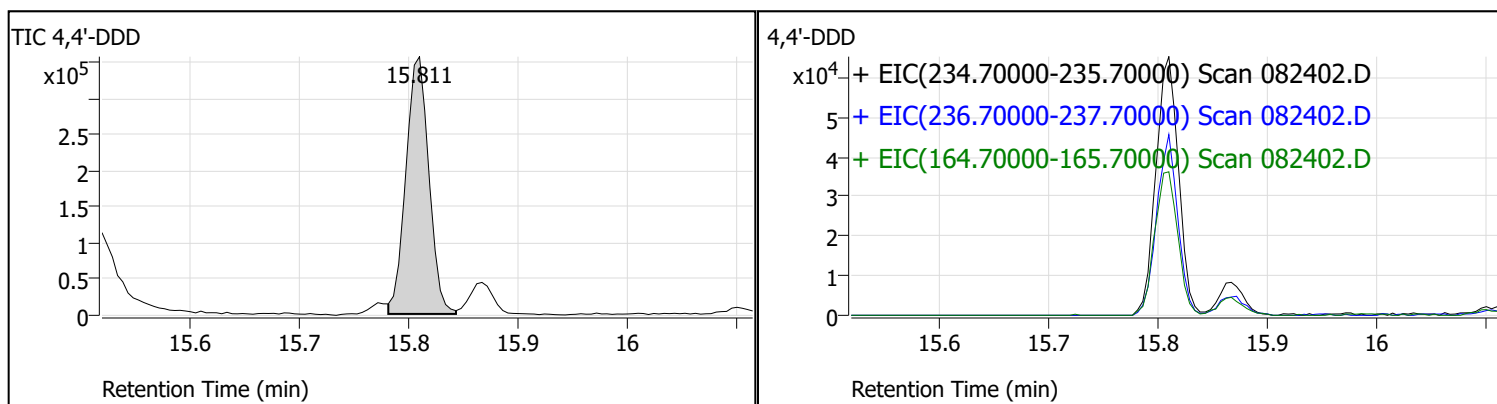
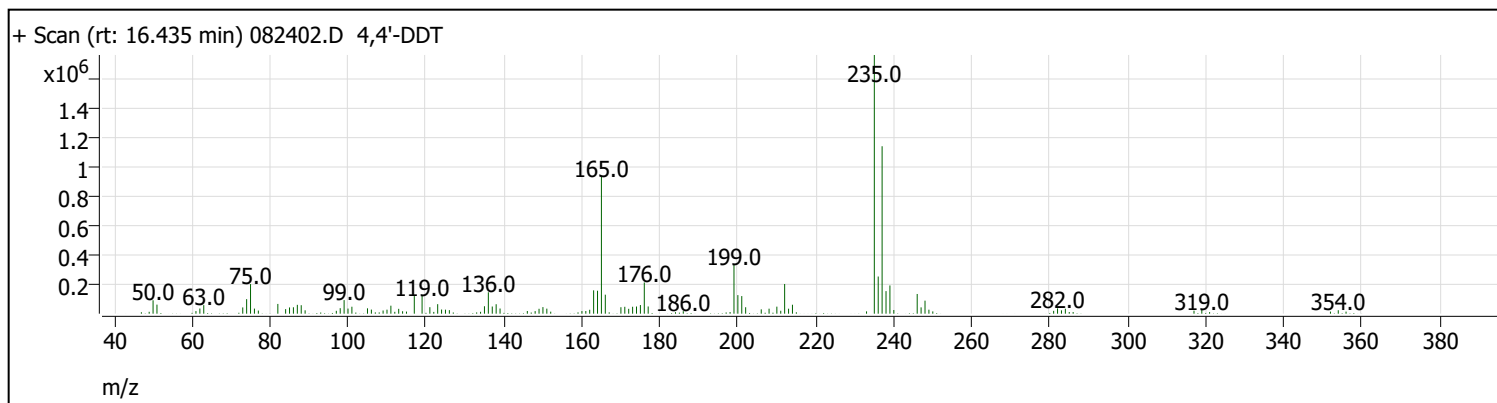
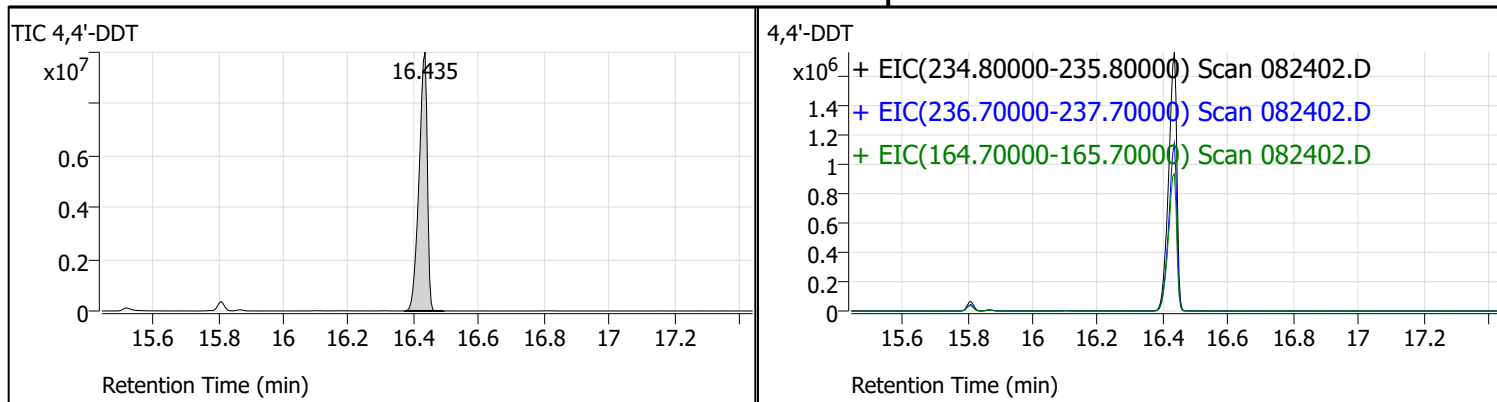
Tune Evaluation Report

Data Path: C:\GC-14\Data\2023\082423\082402.D
 Acq on: 8/24/2023 8:29:24 AM
 Operator: FA\GC14
 Sample: TUNE
 Inst Name: GC-14
 ALS Vial: 1
 Method: C:\GC-14\Methods\Quant
 Methods\TUNE\DFTPPwBreak&TailingGC218270E.m



Target Mass	Rel. To Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Pass/Fail
68	69	0	2	2.0	1884	Pass
70	69	0	2	0.6	574	Pass
197	198	0	2	0.0	37	Pass
198	198	100	100	100.0	261938	Pass
199	198	5	9	6.9	17986	Pass
365	442	1	100	5.0	19701	Pass
441	443	1E-10	150	82.0	61659	Pass
442	442	100	100	100.0	393519	Pass
443	442	15	24	19.1	75155	Pass
69	69	100	100	100.0	96365	Pass

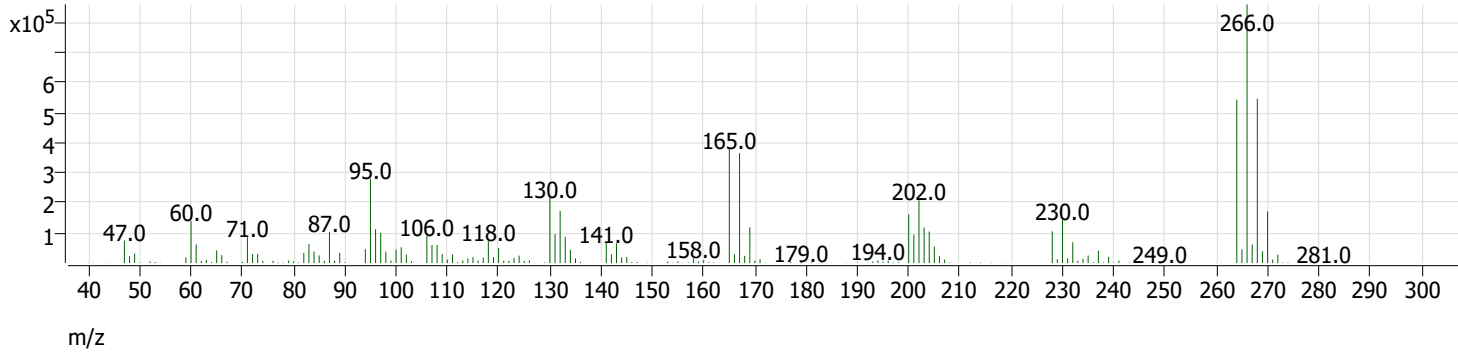
Tune Evaluation Report



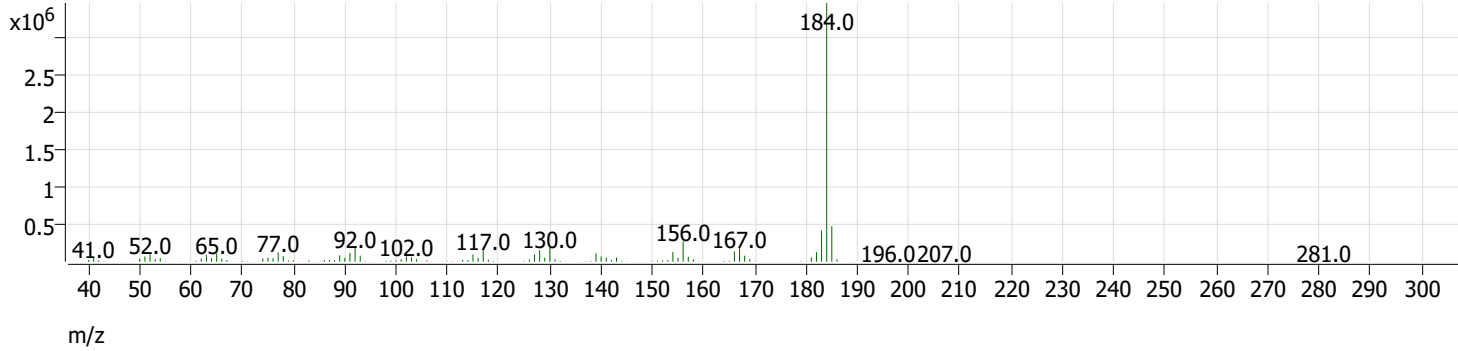
Compound Name	Expected RT	Observed RT	TIC Area	Breakdown %	Pass/Fail
4,4'-DDT	16.440	16.435	17583380	2.9	Pass
4,4'-DDD	15.820	15.811	519234		

Tune Evaluation Report

+ Scan (rt: 13.025 min) 082402.D Pentachlorophenol



+ Scan (rt: 14.978 min) 082402.D Benzidine



Compound Name	Expected RT	Observed RT	Tailing Factor	PGF	Pass/Fail
Pentachlorophenol	13.030	13.025	0.9	5.4	Pass
Benzidine	14.900	14.978	0.4	3.9	Pass



Internal Standards

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-14 230824A CCV Name: PAH-S-SIM MDPT
 Run No: 86117 CCV SeqNo: 1797066
 Lab File ID (Standard): 081514.D Date Analyzed: 8/15/2023
 Instrument ID: GC-14 Time Analyzed: 18:05
 GC Column: ID (mm): Length (M):

	IS1 (14DCBZ)	IS2 Acenaphthene-d10	IS3 Chrysene-d12	IS4 Naphthalene-d8
	AREA #	RT #	AREA #	RT #
12 HOUR STD	0	0.000	125208	11.389
UPPER LIMIT	0	0.500	250416	11.889
LOWER LIMIT	0	-0.500	62604	10.889
SAMPLE NO.				
01 CCV-41297A	0	0	69434	11.383
02 CCV-41297B	0	0	68041	11.383
03 QCS-41297A	0	0	73109	11.39

IS1 (14DCBZ) = 1,4-Dichlorobenzene-d4

IS3 Chrysene-d12 = Chrysene-d12

IS2 Acenaphthene-d10 = Acenaphthene-d10

IS4 Naphthalene-d8 = Naphthalene-d8

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-14 230824A CCV Name: PAH-S-SIM MDPT
 Run No: 86117 CCV SeqNo: 1797066
 Lab File ID (Standard): 081514.D Date Analyzed: 8/15/2023
 Instrument ID: GC-14 Time Analyzed: 18:05
 GC Column: ID (mm): Length (M):

	S5 Perylene-d12		S6 Phenanthrene-d10					
	AREA #	RT #	AREA #	RT #				
12 HOUR STD	260379	19.805	236148	13.262				
UPPER LIMIT	520758	20.305	472296	13.762				
LOWER LIMIT	130190	19.305	118074	12.762				
SAMPLE NO.								
01 CCV-41297A	177362	19.796	137846	13.248				
02 CCV-41297B	179865	19.801	139229	13.255				
03 QCS-41297A	193283	19.81	147862	13.255				

IS5 Perylene-d12 = Perylene-d12

IS6 Phenanthrene-d10 = Phenanthrene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-14 230824A CCV Name: CCV-41297A
 Run No: 86117 CCV SeqNo: 1797059
 Lab File ID (Standard): 082403.D Date Analyzed: 8/24/2023
 Instrument ID: GC-14 Time Analyzed: 8:57
 GC Column: ID (mm): Length (M):

	IS1 (14DCBZ)	IS2 Acenaphthene-d10	IS3 Chrysene-d12	IS4 Naphthalene-d8
	AREA #	RT #	AREA #	RT #
12 HOUR STD	0	0.000	69434	11.383
UPPER LIMIT	0	0.500	138868	11.883
LOWER LIMIT	0	-0.500	34717	10.883
SAMPLE NO.				
01 MB-41297	0	0	58283	11.383
02 LCS-41297	0	0	69758	11.383
03 2308316-002A	0	0	61667	11.383
04 2308316-001A	0	0	62331	11.383
05 2308316-001AMS	0	0	65659	11.383
06 2308316-001AMSD	0	0	67005	11.383
07 2308316-003A	0	0	58518	11.383
08 2308316-004A	0	0	54862	11.383
09 2308312-001A	0	0	59744	11.383

IS1 (14DCBZ) = 1,4-Dichlorobenzene-d4

IS3 Chrysene-d12 = Chrysene-d12

IS2 Acenaphthene-d10 = Acenaphthene-d10

IS4 Naphthalene-d8 = Naphthalene-d8

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-14 230824A CCV Name: CCV-41297A
 Run No: 86117 CCV SeqNo: 1797059
 Lab File ID (Standard): 082403.D Date Analyzed: 8/24/2023
 Instrument ID: GC-14 Time Analyzed: 8:57
 GC Column: ID (mm): Length (M):

	S5 Perylene-d12		S6 Phenanthrene-d10					
	AREA #	RT #	AREA #	RT #				
12 HOUR STD	177362	19.796	137846	13.248				
UPPER LIMIT	354724	20.296	275692	13.748				
LOWER LIMIT	88681	19.296	68923	12.748				
SAMPLE NO.								
01 MB-41297	132152	19.81	114038	13.255				
02 LCS-41297	182409	19.801	136422	13.248				
03 2308316-002A	147884	19.801	122890	13.255				
04 2308316-001A	149613	19.801	124014	13.255				
05 2308316-001AMS	178636	19.801	129556	13.255				
06 2308316-001AMSD	174235	19.805	130844	13.255				
07 2308316-003A	140970	19.801	117232	13.255				
08 2308316-004A	134511	19.801	111958	13.255				
09 2308312-001A	152659	19.801	119944	13.255				

IS5 Perylene-d12 = Perylene-d12

IS6 Phenanthrene-d10 = Phenanthrene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-14 230824A

CCV Name: CCV-41297B

Run No: 86117

CCV SeqNo: 1797614

Lab File ID (Standard): 082413.D

Date Analyzed: 8/24/2023

Instrument ID: GC-14

Time Analyzed: 15:02

GC Column:

ID (mm):

Length (M):

	IS1 (14DCBZ)		2 Acenaphthene-d		IS3 Chrysene-d12		S4 Naphthalene-d8	
	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	0	0.000	68041	11.383	138456	17.431	210053	9.167
UPPER LIMIT	0	0.500	136082	11.883	276912	17.931	420106	9.667
LOWER LIMIT	0	-0.500	34021	10.883	69228	16.931	105027	8.667
SAMPLE NO.								
01 2308325-001A	0	0	66317	11.383	134263	17.439	238737	9.167
02 2308325-002A	0	0	66894	11.389	141163	17.431	215993	9.172

IS1 (14DCBZ) = 1,4-Dichlorobenzene-d4

IS3 Chrysene-d12 = Chrysene-d12

IS2 Acenaphthene-d10 = Acenaphthene-d10

IS4 Naphthalene-d8 = Naphthalene-d8

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-14 230824A CCV Name: CCV-41297B
 Run No: 86117 CCV SeqNo: 1797614
 Lab File ID (Standard): 082413.D Date Analyzed: 8/24/2023
 Instrument ID: GC-14 Time Analyzed: 15:02
 GC Column: ID (mm): Length (M):

	S5 Perylene-d12		S6 Phenanthrene-d10					
	AREA #	RT #	AREA #	RT #				
12 HOUR STD	179865	19.801	139229	13.255				
UPPER LIMIT	359730	20.301	278458	13.755				
LOWER LIMIT	89933	19.301	69615	12.755				
SAMPLE NO.								
01 2308325-001A	183539	19.814	132948	13.255				
02 2308325-002A	187152	19.81	138735	13.255				

IS5 Perylene-d12 = Perylene-d12

IS6 Phenanthrene-d10 = Phenanthrene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

DATA SET for Review - Deliverable Requirements

Total Metals by EPA Method 6020B

Fremont Analytical Work Order No. 2308316

GeoEngineers

Project Name: S Jackson Street

Project Number: 24504-001-01

This data set contains the following:

- Analytical Sequence Summary
- Calibration Information
- Tune Information
- Internal Standards Report

Batch Log

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\082423SLL.b

Batch Log

#	Acq. Date-Time	Sample Type	Sample Name	Vial#	File Name	Acquisition Result	Error Message	Dilution Result	Comment	Operator	Replicates	Level
1	8/24/2023 12:48:28	Sample	Cone Cond	2	001SMPL.d	Pass		1		ICPMS		
2	8/24/2023 12:50:38	Sample	Cone Cond	2	002SMPL.d	Pass		1		ICPMS		
3	8/24/2023 12:53:01	Sample	Cone Cond	2	003SMPL.d	Pass		1		ICPMS		
4	8/24/2023 12:55:25	Sample	Cone Cond	2	004SMPL.d	Pass		1		ICPMS		
5	8/24/2023 12:57:49	Sample	Cone Cond	2	005SMPL.d	Pass		1		ICPMS		
6	8/24/2023 13:00:12	CalBlk	CAL BLANK	1	006CALB.d	Pass		1		ICPMS		1
7	8/24/2023 13:02:59	CalBlk	CAL BLANK	1	007CALB.d	Pass		1		ICPMS		1
8	8/24/2023 13:05:50	CalBlk	CAL BLANK	1	008CALB.d	Pass		1		ICPMS		1

#	ISTD Conc	Auto Dilution (ISIS 2)	Total Dil.	Final Weight or Volume	Sample Weight or Volume	prepFAST Dilution	Sublist	Total Acq Time	Max. Daily Dose	%J	User Def. 1	User Def. 2	User Def. 3
1													
2													
3													
4													
5													
6													
7			100	1	1	100							
8													

#	QC Failed Criteria	QC Failed Elements
1		
2		
3		
4		
5		
6		
7		
8		

Batch Log

#	Acq. Date-Time	Sample Type	Sample Name	Vial#	File Name	Acquisition Result	Error Message	Dilution Result	Comment	Operator	Replicates	Level
9	8/24/2023 13:08:37	CalStd	STANDARD 1	5	009CAL.S.d	Pass		1		ICPMS		2
10	8/24/2023 13:11:24	CalStd	STANDARD 2	5	010CAL.S.d	Pass		1		ICPMS		3
11	8/24/2023 13:14:12	CalStd	STANDARD 3	5	011CAL.S.d	Pass		1		ICPMS		4
12	8/24/2023 13:17:02	CalStd	STANDARD 4	5	012CAL.S.d	Pass		1		ICPMS		5
13	8/24/2023 13:19:48	CalStd	STANDARD 5	5	013CAL.S.d	Pass		1		ICPMS		6
14	8/24/2023 13:22:13	CalStd	STANDARD 6	101	014CAL.S.d	Pass		1		ICPMS		7
15	8/24/2023 13:24:27	CalStd	STANDARD 7	102	015CAL.S.d	Pass		1		ICPMS		8
16	8/24/2023 13:26:35	Sample	Wash	6	016SMPL.d	Pass		1		ICPMS		
17	8/24/2023 13:29:10	ICB	ICB	1	017_ICB.d	Pass		1		ICPMS		

#	ISTD Conc	Auto Dilution (ISIS 2)	Total Dil.	Final Weight or Volume	Sample Weight or Volume	prepFAST Dilution	Sublist	Total Acq Time	Max. Daily Dose	%J	User Def. 1	User Def. 2	User Def. 3
9			200	1	1	200							
10			100	1	1	100							
11			20	1	1	20							
12			4	1	1	4							
13			1	1	1	1							
14													
15													
16													
17													

#	QC Failed Criteria	QC Failed Elements
9		
10		
11		
12		
13		
14		
15		
16		
17		

Batch Log

#	Acq. Date-Time	Sample Type	Sample Name	Vial#	File Name	Acquisition Result	Error Message	Dilution Result	Comment	Operator	Replicates	Level
18	8/24/2023 13:31:45	ICV	ICV	111	018_ICV.d	Fail	QC check failed.	1		ICPMS		
19	8/24/2023 13:33:59	Sample	ICSA	112	019SMPL.d	Fail	QC check failed.	1		ICPMS		
20	8/24/2023 13:36:09	<Pause>				Pass				ICPMS		
21	8/24/2023 13:46:47	Sample	MB-41280	201	020SMPL.d	Pass		1		ICPMS		
22	8/24/2023 13:49:23	Sample	2308242-001A 10X	202	021SMPL.d	Pass		1		ICPMS		
23	8/24/2023 13:51:54	Sample	2308257-001D 5X	203	022SMPL.d	Pass		1		ICPMS		
24	8/24/2023 13:54:25	CCV	CCV	5	023_CCV.d	Pass		1		ICPMS		
25	8/24/2023 13:56:40	CCB	CCB	1	024_CCB.d	Pass		1		ICPMS		

#	ISTD Conc	Auto Dilution (ISIS 2)	Total Dil.	Final Weight or Volume	Sample Weight or Volume	prepFAST Dilution	Sublist	Total Acq Time	Max. Daily Dose	%J	User Def. 1	User Def. 2	User Def. 3
18													
19													
20													
21													
22													
23													
24													
25													

#	QC Failed Criteria	QC Failed Elements
18	Main Error1 Criteria1	#2:Cu
19	Main Error1 Criteria1	#2:Fe,Ca,Na
20		
21		
22		
23		
24		
25		

Batch Log

#	Acq. Date-Time	Sample Type	Sample Name	Vial#	File Name	Acquisition Result	Error Message	Dilution Result	Comment	Operator	Replicates	Level
26	8/24/2023 13:59:14	Sample	2308258-001D 5X	204	025SMPL.d	Pass		1		ICPMS		
27	8/24/2023 14:01:46	Sample	2308272-001A	205	026SMPL.d	Fail	QC check failed.	1		ICPMS		
28	8/24/2023 14:04:10	Sample	2308272-002A	206	027SMPL.d	Fail	QC check failed.	1		ICPMS		
29	8/24/2023 14:06:32	Sample	2308279-001A 1000000X	207	028SMPL.d	Pass		1		ICPMS		
30	8/24/2023 14:09:06	Sample	2308280-001A 2X	208	029SMPL.d	Fail	QC check failed.	1		ICPMS		
31	8/24/2023 14:11:33	Sample	2308285-001C	209	030SMPL.d	Fail	QC check failed.	1		ICPMS		
32	8/24/2023 14:13:59	Sample	2308288-001D	210	031SMPL.d	Pass		1		ICPMS		
33	8/24/2023 14:16:29	Sample	2308291-001A	211	032SMPL.d	Fail	QC check failed.	1		ICPMS		

#	ISTD Conc	Auto Dilution (ISIS 2)	Total Dil.	Final Weight or Volume	Sample Weight or Volume	prepFAST Dilution	Sublist	Total Acq Time	Max. Daily Dose	%J	User Def. 1	User Def. 2	User Def. 3
26													
27													
28													
29													
30													
31													
32													
33													

#	QC Failed Criteria	QC Failed Elements
26		
27	Main Error1 Criteria1	#2:Ca,Na,Mg
28	Main Error1 Criteria1	#2:Ca,Na
29		
30	Main Error1 Criteria1	#2:Na
31	Main Error1 Criteria1	#2:Ca,Na,Mg
32		
33	Main Error1 Criteria1	#1:B #2:Na

Batch Log

#	Acq. Date-Time	Sample Type	Sample Name	Vial#	File Name	Acquisition Result	Error Message	Dilution Result	Comment	Operator	Replicates	Level
34	8/24/2023 14:18:55	Sample	2308292-001A	212	033SMPL.d	Fail	QC check failed.	1		ICPMS		
35	8/24/2023 14:21:20	Sample	2308296-001A 10X	213	034SMPL.d	Fail	QC check failed.	1		ICPMS		
36	8/24/2023 14:23:47	CCV	CCV	5	035_CCV.d	Fail	QC check failed.	1		ICPMS		
37	8/24/2023 14:26:03	CCB	CCB	1	036_CCB.d	Fail	QC check failed.	1		ICPMS		
38	8/24/2023 14:28:37	CCV	CCV	5	037_CCV.d	Fail	QC check failed.	1		ICPMS		
39	8/24/2023 14:30:52	CCB	CCB	1	038_CCB.d	Fail	QC check failed.	1		ICPMS		
40	8/24/2023 14:33:26	Sample	MB-41299	301	039SMPL.d	Fail	QC check failed.	1		ICPMS		
41	8/24/2023 14:36:01	Sample	LCS-41299	302	040SMPL.d	Fail	QC check failed.	1		ICPMS		
42	8/24/2023 14:38:21	Sample	2308286-001A	303	041SMPL.d	Fail	QC check failed.	1		ICPMS		

#	ISTD Conc	Auto Dilution (ISIS 2)	Total Dil.	Final Weight or Volume	Sample Weight or Volume	prepFAST Dilution	Sublist	Total Acq Time	Max. Daily Dose	%J	User Def. 1	User Def. 2	User Def. 3
34													
35													
36													
37													
38													
39													
40													
41													
42													

#	QC Failed Criteria	QC Failed Elements
34	Main Error1 Criteria1	#1:B #2:Ca,Na,K
35	ISTD Criteria1	#1:Li
36	ISTD Criteria1	#1:Li
37	ISTD Criteria1	#1:Li
38	ISTD Criteria1	#1:Li

Batch Log

#	QC Failed Criteria	QC Failed Elements
39	ISTD Criteria1	#1:Li
40	ISTD Criteria1	#1:Li
41	ISTD Criteria1	#1:Li
42	ISTD Criteria1	#1:Li

#	Acq. Date-Time	Sample Type	Sample Name	Vial#	File Name	Acquisition Result	Error Message	Dilution Result	Comment	Operator	Replicates	Level
43	8/24/2023 14:40:45	Sample	2308286-001ADIL	304	042SMPL.d	Fail	QC check failed.	1		ICPMS		
44	8/24/2023 14:43:14	Sample	2308286-001AMS	305	043SMPL.d	Fail	QC check failed.	1		ICPMS		
45	8/24/2023 14:45:23	Sample	2308286-001AMSD	306	044SMPL.d	Fail	QC check failed.	1		ICPMS		
46	8/24/2023 14:47:34	Sample	2308286-001APDS	307	045SMPL.d	Fail	QC check failed.	1		ICPMS		
47	8/24/2023 14:49:44	Sample	2308286-003A	308	046SMPL.d	Fail	QC check failed.	1		ICPMS		
48	8/24/2023 14:52:11	Sample	2308286-005A	309	047SMPL.d	Fail	QC check failed.	1		ICPMS		
49	8/24/2023 14:54:36	Sample	2308286-007A	310	048SMPL.d	Fail	QC check failed.	1		ICPMS		
50	8/24/2023 14:57:00	CCV	CCV	5	049_CC.V.d	Fail	QC check failed.	1		ICPMS		
51	8/24/2023 14:59:14	CCB	CCB	1	050_CCB.d	Fail	QC check failed.	1		ICPMS		

#	ISTD Conc	Auto Dilution (ISIS 2)	Total Dil.	Final Weight or Volume	Sample Weight or Volume	prepFAST Dilution	Sublist	Total Acq Time	Max. Daily Dose	%J	User Def. 1	User Def. 2	User Def. 3
43													
44													
45													
46													
47													
48													
49													
50													
51													

#	QC Failed Criteria	QC Failed Elements
43	ISTD Criteria1	#1:Li

Batch Log

#	QC Failed Criteria	QC Failed Elements
44	ISTD Criteria1	#1:Li
45	ISTD Criteria1	#1:Li
46	ISTD Criteria1	#1:Li
47	Main Error1 Criteria1	#2:Al
48	ISTD Criteria1	#1:Li
49	ISTD Criteria1	#1:Li
50	ISTD Criteria1	#1:Li
51	ISTD Criteria1	#1:Li

#	Acq. Date-Time	Sample Type	Sample Name	Vial#	File Name	Acquisition Result	Error Message	Dilution Result	Comment	Operator	Replicates	Level
52	8/24/2023 15:01:48	Sample	2308286-008A	311	051SMPL.d	Fail	QC check failed.	1		ICPMS		
53	8/24/2023 15:04:15	Sample	2308286-009A	312	052SMPL.d	Fail	QC check failed.	1		ICPMS		
54	8/24/2023 15:06:41	Sample	2308286-010A	313	053SMPL.d	Fail	QC check failed.	1		ICPMS		
55	8/24/2023 15:09:06	Sample	2308286-011A	314	054SMPL.d	Fail	QC check failed.	1		ICPMS		
56	8/24/2023 15:11:27	Sample	2308286-012A	315	055SMPL.d	Fail	QC check failed.	1		ICPMS		
57	8/24/2023 15:13:49	Sample	2308286-013A	316	056SMPL.d	Fail	QC check failed.	1		ICPMS		
58	8/24/2023 15:16:11	Sample	2308297-001A	317	057SMPL.d	Fail	QC check failed.	1		ICPMS		
59	8/24/2023 15:18:37	Sample	2308298-001A	318	058SMPL.d	Fail	QC check failed.	1		ICPMS		
60	8/24/2023 15:21:06	Sample	2308299-005A	319	059SMPL.d	Fail	QC check failed.	1		ICPMS		

#	ISTD Conc	Auto Dilution (ISIS 2)	Total Dil.	Final Weight or Volume	Sample Weight or Volume	prepFAST Dilution	Sublist	Total Acq Time	Max. Daily Dose	%J	User Def. 1	User Def. 2	User Def. 3
52													
53													
54													
55													
56													
57													

Batch Log

#	ISTD Conc	Auto Dilution (ISIS 2)	Total Dil.	Final Weight or Volume	Sample Weight or Volume	prepFAST Dilution	Sublist	Total Acq Time	Max. Daily Dose	%J	User Def. 1	User Def. 2	User Def. 3
58													
59													
60													

#	QC Failed Criteria	QC Failed Elements
52	ISTD Criteria1	#1:Li
53	ISTD Criteria1	#1:Li
54	ISTD Criteria1	#1:Li
55	ISTD Criteria1	#1:Li
56	ISTD Criteria1	#1:Li
57	ISTD Criteria1	#1:Li
58	ISTD Criteria1	#1:Li
59	ISTD Criteria1	#1:Li
60	ISTD Criteria1	#1:Li

Batch Log

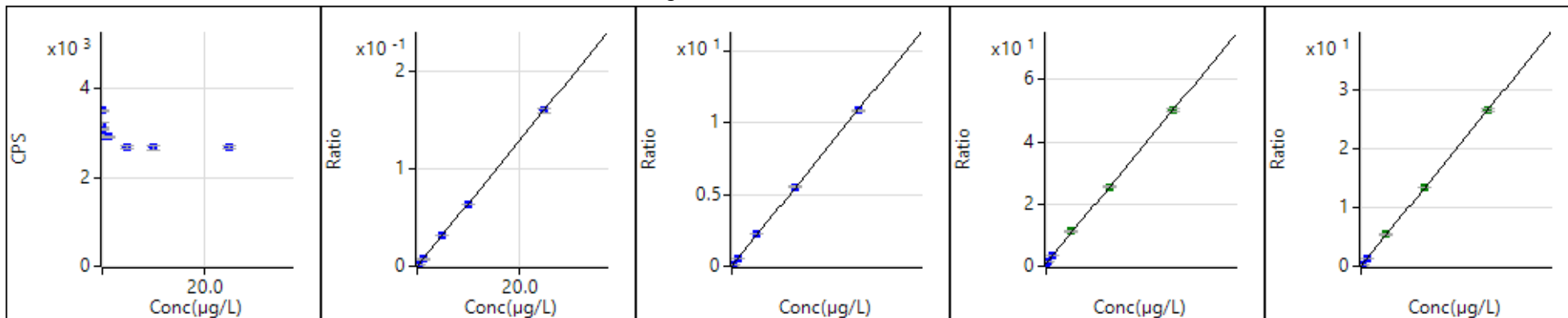
#	Acq. Date-Time	Sample Type	Sample Name	Vial#	File Name	Acquisition Result	Error Message	Dilution Result	Comment	Operator	Replicates	Level
61	8/24/2023 15:23:30	Sample	2308312-001A	320	060SMPL.d	Fail	QC check failed.	1		ICPMS		
62	8/24/2023 15:25:56	CCV	CCV	5	061_CCV.d	Fail	QC check failed.	1		ICPMS		
63	8/24/2023 15:28:11	CCB	CCB	1	062_CCB.d	Fail	QC check failed.	1		ICPMS		
64	8/24/2023 15:30:47	Sample	2308316-003A	321	063SMPL.d	Fail	QC check failed.	1		ICPMS		
65	8/24/2023 15:33:11	CCV	CCV	5	064_CCV.d	Fail	QC check failed.	1		ICPMS		
66	8/24/2023 15:35:25	CCB	CCB	1	065_CCB.d	Fail	QC check failed.	1		ICPMS		
67	8/24/2023 15:37:45	<Pause>				Pass				ICPMS		

#	ISTD Conc	Auto Dilution (ISIS 2)	Total Dil.	Final Weight or Volume	Sample Weight or Volume	prepFAST Dilution	Sublist	Total Acq Time	Max. Daily Dose	%J	User Def. 1	User Def. 2	User Def. 3
61													
62													
63													
64													
65													
66													
67													

#	QC Failed Criteria	QC Failed Elements
61	ISTD Criteria1	#1:Li
62	ISTD Criteria1	#1:Li
63	ISTD Criteria1	#1:Li
64	ISTD Criteria1	#1:Li #2:Sc
65	ISTD Criteria1	#1:Li
66	ISTD Criteria1	#1:Li
67		



Calibration



7 Li [No Gas]

ISTD: ---

Excluded

R

9 Be [No Gas]

ISTD: 6 Li

$y = 6.416E-3 x$

R 1.0000

DL 0

BEC 0

11 B [No Gas]

ISTD: 6 Li

$y = 4.360E-3 x + 9.755E-3$

R 0.9999

DL 0.4855

BEC 2.237

23 Na [He]

ISTD: 45 Sc

$y = 9.860E-3 x + 8.634E-1$

R 0.9999

DL 5.473

BEC 87.56

24 Mg [He]

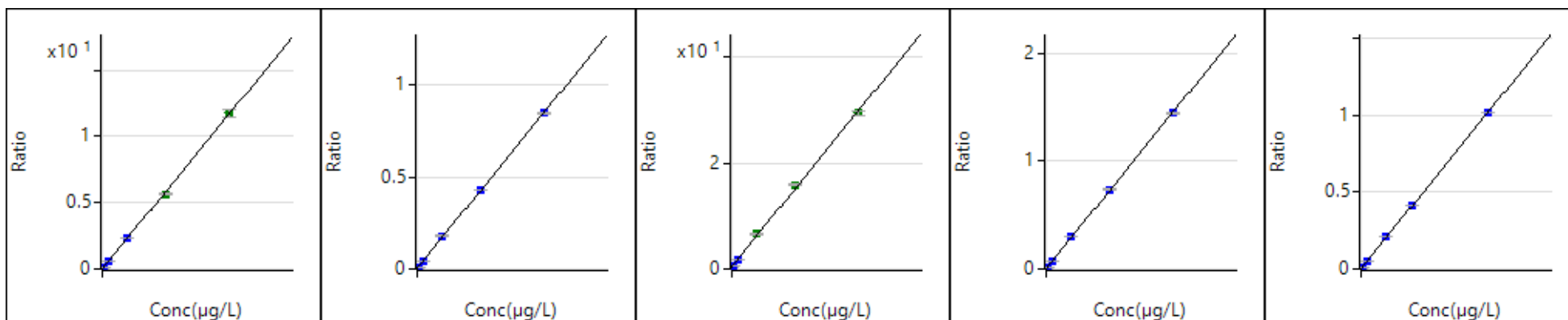
ISTD: 45 Sc

$y = 5.304E-3 x + 3.893E-3$

R 1.0000

DL 0.1234

BEC 0.7339



27 Al [He]

ISTD: 45 Sc

$y = 2.334E-3 x + 7.687E-3$

R 0.9998

DL 0.8185

BEC 3.294

31 P [He]

ISTD: 45 Sc

$y = 1.699E-4 x + 2.366E-3$

R 0.9999

DL 3.486

BEC 13.92

39 K [He]

ISTD: 45 Sc

$y = 5.884E-3 x + 4.202E-1$

R 0.9996

DL 3.055

BEC 71.42

44 Ca [He]

ISTD: 45 Sc

$y = 2.897E-4 x + 1.826E-3$

R 0.9999

DL 1.891

BEC 6.303

47 Ti [He]

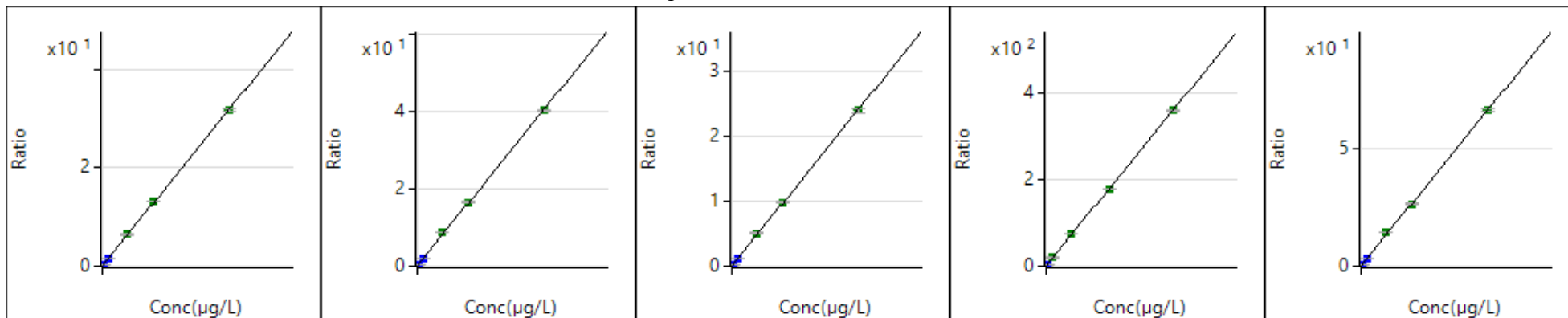
ISTD: 45 Sc

$y = 2.033E-3 x + 1.315E-4$

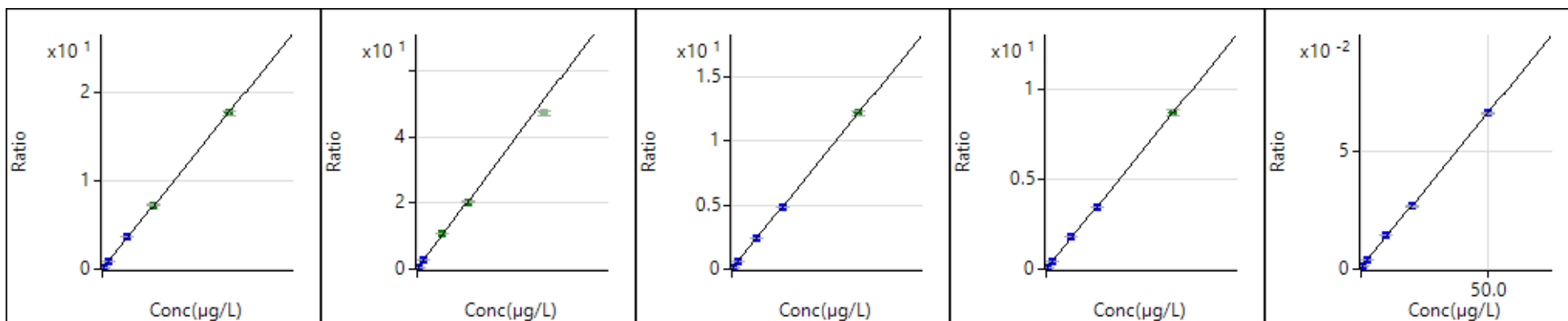
R 1.0000

DL 0.0306

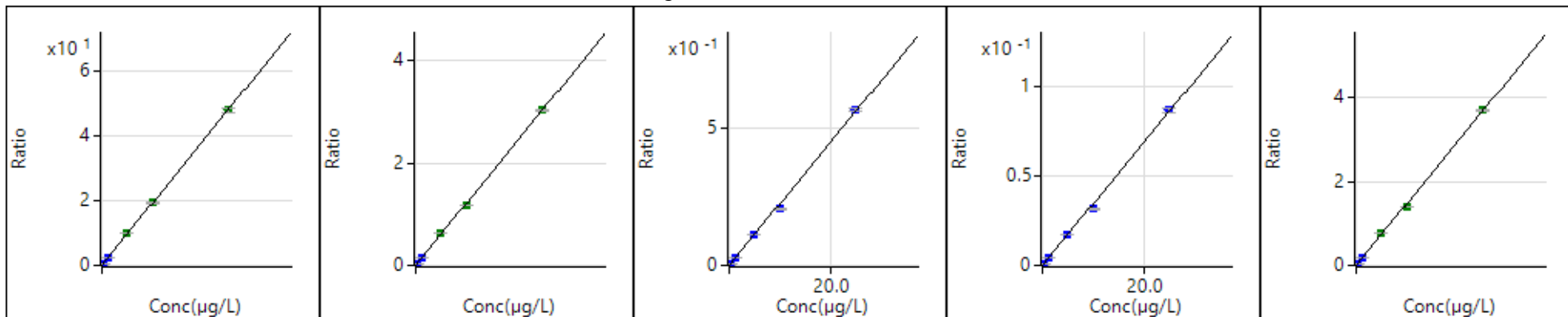
BEC 0.06469



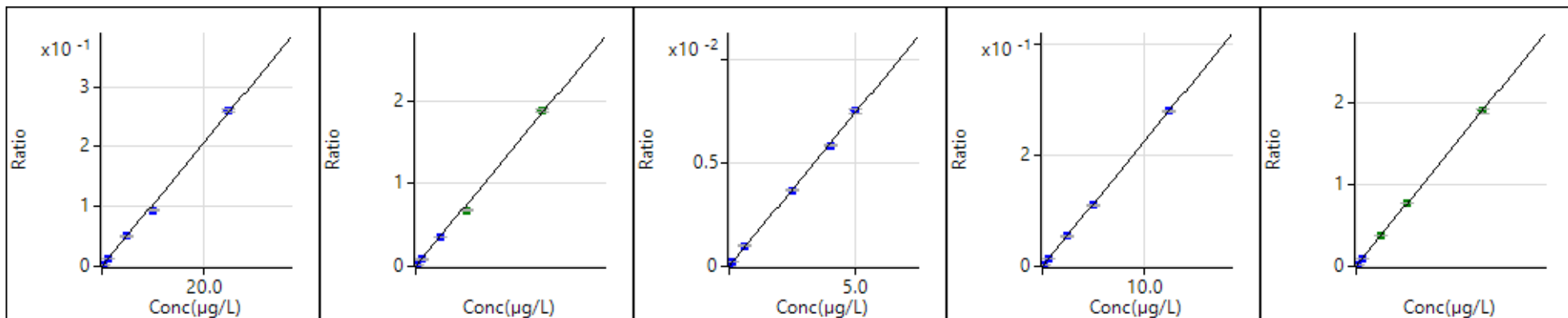
51 V [He] ISTD: 45 Sc $y = 6.372E-2 x + 7.863E-3$ R 0.9999 DL 0.02549 BEC 0.1234	52 Cr [He] ISTD: 45 Sc $y = 8.106E-2 x + 2.761E-3$ R 0.9998 DL 0.002734 BEC 0.03405	55 Mn [He] ISTD: 45 Sc $y = 4.821E-2 x + 1.577E-3$ R 0.9999 DL 0.005461 BEC 0.0327	56 Fe [He] ISTD: 45 Sc $y = 7.187E-2 x + 2.877E-1$ R 1.0000 DL 0.5991 BEC 4.004	59 Co [He] ISTD: 45 Sc $y = 1.329E-1 x + 2.595E-4$ R 0.9999 DL 0.001143 BEC 0.001953
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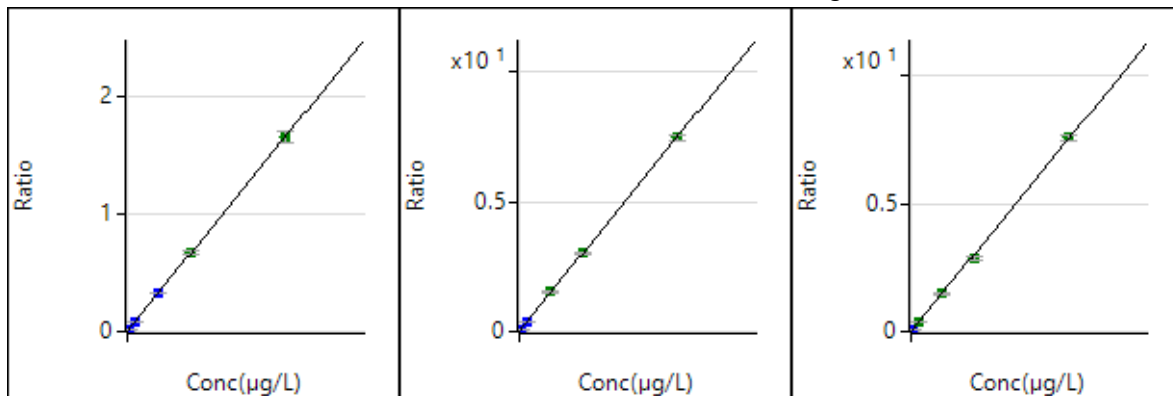
60 Ni [He] ISTD: 45 Sc $y = 3.544E-2 x + 2.267E-3$ R 0.9999 DL 0.0128 BEC 0.06397	63 Cu [He] ISTD: 45 Sc $y = 1.022E-1 x + 2.456E-2$ R 0.9997 DL 0.03563 BEC 0.2402	66 Zn [He] ISTD: 72 Ge $y = 2.433E-2 x + 1.269E-2$ R 1.0000 DL 0.07464 BEC 0.5215	75 As [He] ISTD: 72 Ge $y = 1.733E-2 x + 5.842E-4$ R 1.0000 DL 0.01134 BEC 0.03371	78 Se [He] ISTD: 72 Ge $y = 1.321E-3 x + 6.414E-4$ R 0.9999 DL 0.1227 BEC 0.4856
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88 Sr [He] ISTD: 72 Ge $y = 9.611E-2 x + 2.226E-3$ R 1.0000 DL 0.001676 BEC 0.02316	95 Mo [He] ISTD: 115 In $y = 6.040E-3 x + 5.661E-4$ R 0.9998 DL 0.04495 BEC 0.09373	107 Ag [He] ISTD: 115 In $y = 2.224E-2 x + 9.410E-5$ R 0.9994 DL 0.0006543 BEC 0.004232	111 Cd [He] ISTD: 115 In $y = 3.439E-3 x + 1.799E-5$ R 0.9993 DL 0.002827 BEC 0.005229	118 Sn [He] ISTD: 115 In $y = 7.359E-3 x + 2.312E-4$ R 0.9997 DL 0.003322 BEC 0.03142
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121 Sb [He] ISTD: 115 In $y = 1.023E-2 x + 8.585E-5$ R 0.9993 DL 0.004589 BEC 0.008391	137 Ba [He] ISTD: 115 In $y = 3.691E-3 x + 2.762E-4$ R 0.9993 DL 0.02962 BEC 0.07483	201 Hg [He] ISTD: 209 Bi $y = 1.485E-3 x + 6.512E-6$ R 0.9998 DL 0.002373 BEC 0.004386	205 Tl [He] ISTD: 209 Bi $y = 2.224E-2 x + 9.505E-6$ R 1.0000 DL 0.0003931 BEC 0.0004274	206 Pb [He] ISTD: 209 Bi $y = 7.630E-3 x + 2.075E-4$ R 0.9999 DL 0.003664 BEC 0.02719
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207 [Pb] [He]

ISTD: 209 Bi

$y = 6.591E-3 x + 1.867E-4$

R 1.0000

DL 0.003287

BEC 0.02832

208 Pb [He]

ISTD: 209 Bi

$y = 2.993E-2 x + 8.459E-4$

R 1.0000

DL 0.004653

BEC 0.02826

238 U [He]

ISTD: 209 Bi

$y = 1.504E-2 x + 4.197E-6$

R 0.9998

DL 6.483E-05

BEC 0.000279

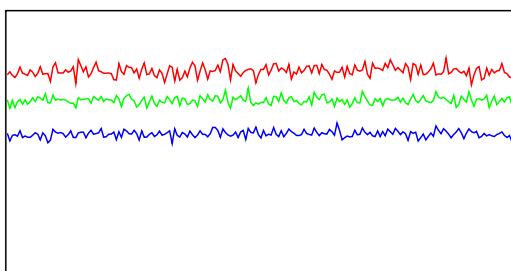


Tunes

Performance Report

Operator Name ICPMS
Acq. Date-Time 8/24/2023 12:27:36
Instrument Name G8422A SG22151236
Sample Introduction PeriPump
Nebulizer Type MicroMist
Ion Lens Model x-Lens
Tune Parameters Standard Tune

Sensitivity



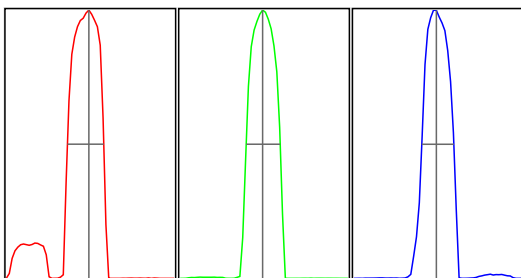
Mass	Range	Count	RSD%	Background
7	5000	3877	2.518	0.850
89	20000	13273	2.128	0.300
205	20000	10706	2.356	2.300

Sampling Period [sec] 0.311
 Integration Time [sec] 0.1

Oxide/Doubly Charged Ratio

Oxide 156 / 140 1.043 %
 Doubly Charged 70 / 140 0.989 %

Resolution/Axis



Mass	Peak Height	Axis	W-50%	W-10%
7	3896.45	7.00	0.64	0.76
89	13255.79	89.00	0.60	0.75
205	10634.72	205.00	0.56	0.77

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.74

Tune Parameters

Plasma Parameters

RF Power	1550 W	Option Gas	---	Makeup Gas	0.00 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Auxiliary Gas	0.90 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C	Plasma Gas	15.0 L/min
Nebulizer Gas	1.07 L/min				

Lens Parameters

Extract 1	0.0 V	Omega Lens	9.2 V	Deflect	12.6 V
Extract 2	-180.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-80 V	Cell Exit	-50 V		

Performance Report

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	0.0 mL/min	OctP RF	200 V		

QP Parameters

QP Bias	-3.0 V
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Hardware Settings

Torch

Torch H	0.2 mm	Torch H (Hot)	---	Torch H (Cool)	---
Torch V	0.6 mm	Torch V (Hot)	---	Torch V (Cool)	---

Plasma Correction

Nebulizer Gas Offset	0.02 L/min	Makeup Gas (Hot)	---	Makeup Gas (Cool)	---
		Sample Depth (Hot)	---		

Resolution/Axis

Mass Gain	123	Axis Gain	0.9993
Mass Offset	125	Axis Offset	0.02

EM

Discriminator	3.1 mV	Analog HV	2150 V	Pulse HV	1235 V
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Performance Report

Meter

Name	Value	Unit
Nebulizer Gas	1.07	L/min
MU./Dil. Gas	0.00	L/min
Plasma Gas	14.99	L/min
Aux Gas	0.90	L/min
Ar Gas Tank Press	5.78E+2	kPa
+5V (Press Gage)	5.0	V
Ar AMFC Temp	29.8	°C
Nebulizer Gas(DP)	6.22E+0	kPa
MU./Dil. Gas(DP)	-2.01E-1	kPa
Aux Gas(DP)	1.07E+1	kPa
Plasma Gas(DP)	1.17E+1	kPa
Nebulizer Gas(BP)	2.55E+2	kPa
MU./Dil. Gas(BP)	0.00E+0	kPa
Aux Gas(BP)	5.93E+1	kPa
Plasma Gas(BP)	4.29E+1	kPa
S/C Temp (H)	21.1	°C
S/C Temp (L)	2.0	°C
Peltier Voltage	3.6	V
IF/BK Press	2.49E+2	Pa
Analyzer Press	6.05E-5	Pa
IG HV	178	V
IG Emission	4.96	µA
TMP Revolution	100.0	%
TMP Rev (Raw)	100.7	%
TMP Current	2.80	A
PWR AMP Drain I	0.3	A
PWR AMP Bias	4.00	V
OctP RF (Avg)	202.9	V
OctP RF Set	4.0	V
OctP FET Bias Set	3.94	V
OctP RF(+)	177.8	V
OctP RF(-)	226.7	V
OctP Bias	-7.9	V
Cell Temp.	65.0	°C
Cell Heater Volt.	4.1	V
+U Voltage	174.3	V

Name	Value	Unit
-U Voltage	-180.3	V
V Voltage	773.4	V
QPRF Fader	0.5	V
Pickup Temp	55.0	°C
PWR Amp Temp	0.1	V
+600V	622.9	V
-120V	-133.3	V
-720V	-741.6	V
Prefilter Bias	-5.00	V
Pickup Heater I	0.09	A
QP PS +48V	47.6	V
QP PS +48V I	0.00	A
Analog HV	-2168	V
Pulse HV	1245	V
EM Gate	-47.6	V
Pulse Gate	260.3	V
EM Entrance	0.1	V
EM HV Gain	-776.5	V
Inner Pole	-300.0	V
Outer Pole	19.9	V
Analog -5V	-5.1	V
Analog +15V	14.5	V
Analog -15V	-14.4	V
Analog +5V	5.2	V
Shunt C Pos	1.5	V
Drain Volt.(max)	60.0	V
RF PS +48V	47.3	V
Forward Power	1550	W
Reflected Power	1	W
Plasma Freq.	27.07	MHz
Drain I 1	11.65	A
Drain I 2	10.62	A
Drain I 3	10.95	A
Drain I 4	11.51	A
Temp Sensor	2.7	V
Driver I	6.00	A

Name	Value	Unit
Igniter	0.0	V
Driver Voltage Set	6.9	V
Unbalance Current	0.34	A
PWM Threshold Set	0.2	V
Driver Voltage	5.5	V
PWM Threshold	0.2	V
Phase Detector	5.9	mV
H2 Gas	0.00	mL/min
He Gas	0.11	mL/min
H2 Gas Press	1.70E+2	kPa
He Gas Press	0.00E+0	kPa
ORS AMFC Temp	30.5	°C
Atmospheric Press	1.01E+2	kPa
Extract 1	0.0	V
Extract 2	-180.1	V
Omega Bias	-80.0	V
Omega Lens	9.4	V
Cell Entrance	-30.0	V
Cell Exit	-50.0	V
Deflect	12.7	V
Plate Bias	-35.1	V
HV+530V	531	V
HV+240V	238	V
HV-360V	-360	V
Inlet Temp	26.7	°C
Internal Temp	34.6	°C
+24V	23.7	V
Water Temp	22.9	°C
Water RF/WC/IF	1.46	L/min
ISIS 3 Pump Speed	0.0	%
Valve Position		
Tune/ISTD Valve		

Performance Report History

Sensitivity

Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
8/24/2023 12:27:36	3877	13273	10706
8/23/2023 10:01:02	2928	9894	8815
8/22/2023 09:47:02	3196	10441	8855
8/21/2023 10:05:10	2791	9560	8720
8/18/2023 09:56:29	2863	9911	9020
8/17/2023 09:33:17	2913	10078	9235
8/16/2023 09:54:23	3123	10207	8906
8/15/2023 09:06:47	3081	10243	8944
8/14/2023 10:53:46	3322	10287	8673
8/11/2023 09:10:11	3100	10818	9115
8/10/2023 09:51:40	3182	11284	9030
8/9/2023 09:53:04	3447	11730	9236
8/8/2023 09:51:14	3413	11684	8693
8/7/2023 10:08:18	3581	12638	9159
8/4/2023 09:09:07	3390	12195	8541
8/4/2023 08:31:24	3746	12441	9586
8/3/2023 09:42:16	2946	10912	9810
8/2/2023 11:05:14	2364	8830	8876
8/2/2023 10:28:09	1722	4847	4950
8/2/2023 10:20:44	1323	3986	4235
8/2/2023 10:16:57	1468	4492	4538
8/2/2023 10:12:26	795	2492	2354
8/1/2023 09:44:17	2203	9736	8354
7/31/2023 09:31:10	2725	10837	8929
7/28/2023 09:28:15	2574	11992	10910
7/27/2023 09:17:24	2638	11942	10885
7/26/2023 10:24:37	2628	12086	10721
7/25/2023 09:08:43	2645	13109	12010
7/24/2023 09:25:55	2866	13213	12584
7/21/2023 09:38:18	3045	12777	11213
7/20/2023 09:50:16	3015	13608	11979
7/19/2023 09:51:11	2972	13534	11794
7/18/2023 10:02:58	2480	9926	8625
7/17/2023 11:07:27	3529	15060	11733
7/17/2023 09:51:07	3312	15288	13391
7/14/2023 13:20:39	2401	9970	8567
7/14/2023 13:13:20	858	3455	3011
7/14/2023 13:04:01	35	15	30
7/14/2023 12:49:03	1150	4213	3169
7/14/2023 09:43:22	3304	13648	12348
7/13/2023 17:06:49	3012	11414	10194

Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
7/13/2023 16:18:09	2955	11378	10283
7/13/2023 13:12:33	2347	9669	10238
7/12/2023 10:11:37	3266	14662	11672
7/11/2023 10:12:22	3435	14541	11159
7/11/2023 10:02:13	1682	4632	2699
7/10/2023 10:27:11	3998	13300	6429
7/7/2023 10:03:10	3562	15900	10842
7/7/2023 09:53:18	3887	15915	9865
7/6/2023 09:39:20	3915	15094	8706
7/5/2023 09:21:22	3530	13882	7836
7/3/2023 09:52:13	3101	14414	11001
7/3/2023 09:30:59	2325	8553	5822
6/30/2023 09:54:22	3674	15262	10933
6/29/2023 09:42:14	3257	14111	11174
6/28/2023 09:24:23	3603	14430	11195
6/27/2023 09:21:37	3474	14301	11162
6/26/2023 13:04:07	2984	13198	10818
6/23/2023 09:35:05	4548	13496	8799
6/22/2023 09:46:11	3987	12820	9360
6/21/2023 09:51:51	4030	13146	9814
6/20/2023 09:45:37	4312	13311	10018
6/19/2023 09:55:02	4181	12573	9901
6/16/2023 09:23:49	4267	13074	9801
6/15/2023 09:47:30	4629	12970	9475
6/14/2023 09:16:14	3934	12479	10197
6/13/2023 09:49:15	4567	13183	10070
6/12/2023 11:34:15	4144	12001	9698
6/12/2023 09:54:55	3392	10831	10127
6/9/2023 12:39:33	3926	15367	11134
6/9/2023 09:23:31	3672	15849	11841
6/8/2023 10:16:31	4083	16245	11759
6/7/2023 09:48:23	3788	15983	11493
6/6/2023 09:46:41	4195	16624	10957
6/5/2023 09:22:56	3853	16849	11906
6/2/2023 09:34:45	3243	12651	7710
6/1/2023 09:48:17	4008	16726	11170
5/31/2023 09:40:40	3604	17615	11865
5/30/2023 09:32:39	4046	17790	11322
5/26/2023 12:43:13	3927	16239	12218
5/26/2023 12:35:21	761	3406	2008
5/26/2023 12:24:37	184	549	395

Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
5/26/2023 12:20:08	554	1783	1426
5/26/2023 12:15:41	745	2452	1922
5/26/2023 09:21:24	4039	16585	12317
5/25/2023 09:20:09	4040	16615	11868
5/24/2023 12:08:16	4075	16656	11488
5/24/2023 09:30:58	4357	17430	11641
5/23/2023 10:10:03	4128	14901	12444
5/22/2023 10:18:03	3703	16482	11595
5/19/2023 09:10:18	3614	16447	11473
5/18/2023 10:26:22	3977	16258	11430
5/17/2023 09:16:47	3878	16266	12092
5/16/2023 09:59:27	4248	16604	11458
5/15/2023 10:01:28	3608	15995	12083
5/12/2023 09:47:09	3710	14725	12670
5/11/2023 09:16:07	3615	16694	11489
5/10/2023 09:42:50	3643	16651	11072
5/9/2023 09:27:44	3049	13792	9652
5/8/2023 09:26:50	4462	18082	11483
5/5/2023 09:05:22	4399	16357	12967
5/4/2023 10:18:52	5492	15573	10604
5/4/2023 09:42:19	3329	10245	9107
5/3/2023 09:25:16	3021	11228	9134
5/2/2023 14:32:57	3253	10925	8420
5/2/2023 11:11:55	3007	10527	8496
5/2/2023 10:06:56	2763	10198	8556
5/2/2023 09:20:27	1757	4748	3682
5/1/2023 08:58:25	3835	14776	11277
4/28/2023 15:08:06	3400	12379	10252
4/28/2023 11:06:46	3035	12513	11008
4/28/2023 09:28:29	2667	9198	8023
4/27/2023 09:00:22	4967	15984	10961
4/26/2023 08:49:33	3812	15401	12317
4/25/2023 10:22:10	3613	13723	11649
4/24/2023 08:55:03	3223	11437	9245
4/21/2023 12:21:05	2309	8904	8075
4/21/2023 11:08:42	3585	13031	10380
4/21/2023 08:53:22	3675	12662	9407
4/20/2023 09:37:29	3414	12407	9925
4/19/2023 17:09:43	3618	12571	9512
4/19/2023 15:46:38	3448	13274	10340
4/19/2023 14:35:32	3462	12482	9880

Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
4/19/2023 13:54:58	3220	11909	9076
4/19/2023 09:45:34	3711	13588	10208
4/18/2023 09:17:03	4001	15807	11823
4/17/2023 10:23:48	2878	11093	9732
4/17/2023 10:00:25	2905	10987	9354
4/14/2023 08:59:17	3797	14951	12432
4/13/2023 09:01:53	4318	14773	11319
4/12/2023 08:48:04	4928	16846	11839
4/11/2023 14:04:25	4530	15489	11208
4/11/2023 11:58:48	5326	16891	11025
4/11/2023 09:06:40	3954	15395	11003
4/10/2023 10:37:44	2194	8633	7826
4/10/2023 10:22:12	1899	8212	8001
4/10/2023 09:55:11	1701	5404	5012
4/10/2023 09:40:08	1137	2728	2210
4/7/2023 09:12:03	2772	10636	8482
4/6/2023 09:29:25	3180	12523	9525
4/5/2023 12:01:25	3397	12261	8977
4/4/2023 09:25:41	3746	15001	10717
4/4/2023 09:16:16	3774	15323	10930
4/3/2023 10:44:46	3816	16733	12434
3/31/2023 13:01:29	3689	14276	11079
3/31/2023 09:26:11	4028	14610	11523
3/30/2023 09:11:37	5025	18708	14607
3/30/2023 09:01:02	5089	19072	14859
3/29/2023 09:27:41	5221	18650	13966
3/28/2023 09:13:20	4760	16933	13578
3/27/2023 09:16:40	5767	20845	15106
3/24/2023 09:19:12	5395	19720	14041
3/23/2023 10:30:11	6291	21448	13416
3/22/2023 09:09:24	2696	9011	6944
3/21/2023 11:29:57	5734	16669	12164
3/20/2023 15:01:09	6363	19486	13888
3/20/2023 14:56:00	5009	16683	9718
3/20/2023 14:34:11	2834	10712	5829
3/20/2023 11:10:11	7530	22977	15012
3/17/2023 09:15:52	5750	18440	11963
3/16/2023 10:04:21	4980	19675	11461
3/15/2023 08:50:05	4999	21116	13825
3/14/2023 09:23:23	4061	12104	9854
3/13/2023 09:02:28	3215	10694	7776

Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
3/10/2023 09:50:25	5164	18928	14123
3/9/2023 10:05:54	4252	14786	10051
3/8/2023 13:14:50	3752	11270	7378
3/7/2023 10:34:30	4374	16704	11777
3/6/2023 10:45:07	3273	13385	9184
3/3/2023 08:01:46	4929	20899	12798
3/2/2023 09:47:36	5032	21800	13030
3/1/2023 08:51:22	5345	21950	12808
2/28/2023 09:34:23	6338	22463	12670
2/27/2023 14:30:30	4812	15793	10582
2/27/2023 11:22:50	2660	6341	5374
2/27/2023 10:51:56	2687	6395	5542
2/27/2023 10:44:59	2767	6642	5568
2/24/2023 16:23:45	4656	17757	14021
2/24/2023 16:07:57	259	10	1
2/23/2023 08:54:28	5450	21137	15863
2/22/2023 08:37:14	6587	23092	14287
2/21/2023 10:21:12	5717	19848	15529
2/20/2023 08:52:02	5102	19535	16027
2/17/2023 08:36:41	5650	19696	13966
2/16/2023 08:44:34	5427	18692	15094
2/15/2023 12:26:22	5476	16249	14697
2/14/2023 13:04:03	5114	18973	14711
2/13/2023 11:40:00	5622	21074	13839
2/10/2023 10:01:05	5342	19862	13915
2/9/2023 11:28:46	5286	16698	13470
2/8/2023 08:23:24	2500	8272	6431
2/7/2023 11:36:23	5011	17251	13767
2/6/2023 12:36:01	4650	16849	13463
2/3/2023 08:20:53	4694	16500	12971
2/2/2023 07:55:34	4126	16618	13815
2/1/2023 07:42:39	4262	15843	13824
1/31/2023 09:19:32	3770	13798	12047
1/30/2023 10:17:02	4337	16436	13025
1/27/2023 08:15:42	4501	16617	13319
1/26/2023 08:18:20	4191	17132	13749
1/25/2023 09:02:42	4450	15538	12000
1/24/2023 08:45:18	4336	16580	13340
1/23/2023 07:54:12	2590	9369	7241
1/20/2023 07:43:21	4826	18818	14697
1/19/2023 08:47:40	5243	18006	12448

Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
1/18/2023 08:40:18	4557	17530	14362
1/17/2023 09:51:42	4181	15622	13807
1/13/2023 08:18:49	4548	18577	14569
1/12/2023 08:58:54	4387	18033	14854
1/11/2023 08:26:54	4545	18169	14422
1/10/2023 09:03:33	4726	18711	15508
1/9/2023 08:33:43	5629	19269	14475
1/6/2023 09:09:20	5213	18911	14085
1/5/2023 08:59:03	5159	19900	15721
1/4/2023 09:22:57	5368	19455	14720
1/3/2023 07:54:14	4612	19533	15792
12/30/2022 12:03:44	61	23	2
12/30/2022 11:44:52	74	26	2
12/30/2022 08:53:04	103	30	8
12/30/2022 08:43:33	4844	19749	15375
12/29/2022 09:51:14	5727	20311	14775
12/28/2022 10:56:59	5379	19562	14038
12/27/2022 11:51:09	2917	13215	10039
12/22/2022 13:03:41	5910	20405	14964
12/20/2022 10:03:57	6068	20428	15363
12/15/2022 08:54:42	5797	20392	15125
12/14/2022 07:30:17	4875	19420	15909
12/13/2022 08:19:58	6040	20311	15825
12/12/2022 09:25:41	5282	17431	13118
12/9/2022 07:32:14	5734	18212	14695
12/7/2022 09:04:52	5322	21110	16195
12/6/2022 09:40:47	5815	21208	16339
12/5/2022 09:33:56	6313	20948	15766
12/2/2022 08:43:06	5550	21444	17003
12/1/2022 08:14:13	6173	21650	16355
11/30/2022 09:05:47	5892	20987	16063
11/29/2022 09:56:17	4094	14596	10603
11/22/2022 08:57:48	4099	12381	7804
11/21/2022 09:24:58	4059	13597	9996
11/18/2022 08:02:10	5896	21100	16764
11/17/2022 14:32:03	5110	18966	16326
11/14/2022 13:14:56	5191	16854	13936
11/11/2022 08:35:49	5504	20364	14691
11/10/2022 10:24:53	4996	20056	14474
11/9/2022 12:14:57	4371	19332	15801
11/7/2022 10:37:58	5685	18033	11927

Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
11/7/2022 08:51:17	146	29	32
11/4/2022 09:20:34	7168	18645	12118
11/3/2022 10:28:57	3530	13884	7706
11/2/2022 08:32:00	4974	16880	8970
11/1/2022 11:19:50	3994	15305	8677
11/1/2022 11:02:36	4266	16862	10879
10/31/2022 09:19:47	5485	18924	11532
10/28/2022 09:14:48	6686	19237	10543
10/27/2022 10:50:18	6536	19264	10753
10/26/2022 11:02:54	7130	20921	11654
10/19/2022 12:45:34	6920	20484	11015
10/18/2022 09:12:59	7274	20876	11667
10/13/2022 11:08:12	6974	19838	11390
10/12/2022 09:54:30	5786	18972	9741
10/11/2022 09:12:35	5552	19520	11580
10/6/2022 10:34:09	5625	19891	13032
9/30/2022 08:08:09	5495	19202	12599
9/29/2022 08:44:14	5232	19124	12103
9/28/2022 09:42:45	4963	19363	12220
9/27/2022 08:29:24	5178	18784	11329
9/26/2022 10:25:12	5330	19090	12061
9/23/2022 07:41:43	5103	18871	12031
9/22/2022 11:03:47	4952	18979	11589
9/21/2022 10:21:37	4886	19212	13138
9/20/2022 12:23:56	5002	19051	13455
9/15/2022 11:07:18	5302	18910	11562
9/14/2022 09:29:39	5075	20632	13468
9/13/2022 14:42:43	5153	20537	14155
9/13/2022 08:12:52	5034	20027	12445
9/12/2022 08:42:30	5784	20793	13929
9/9/2022 09:45:48	6147	20766	13709
9/8/2022 12:04:46	4051	14292	8447
9/8/2022 11:48:01	41	6	2
9/8/2022 11:27:44	4889	20574	14952
9/2/2022 07:38:00	6624	23227	14887
9/1/2022 08:15:43	5991	21208	13985
8/31/2022 07:49:17	5373	21196	15352
8/30/2022 09:25:59	5235	20223	15276
8/30/2022 09:00:54	13	1	2
8/25/2022 08:44:13	5528	21089	15029
8/24/2022 08:11:08	5585	20407	15666

Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
8/22/2022 11:28:23	5644	19080	14194
8/22/2022 08:02:13	5908	24300	19093
8/19/2022 08:45:48	5153	20283	15070
8/18/2022 08:00:38	5492	20290	13446
8/17/2022 07:50:25	6314	21249	13568
8/16/2022 08:11:19	6612	21262	13203
8/15/2022 07:58:53	5887	22676	15751
8/12/2022 07:30:34	6745	21079	11749
8/11/2022 12:53:44	6477	19179	10232
8/11/2022 08:29:41	6957	21714	11530
8/10/2022 08:08:22	6409	22095	13386
8/9/2022 08:36:25	17	5	13
8/9/2022 07:53:48	6922	23611	15152
8/1/2022 09:30:01	5884	22782	15120
8/1/2022 08:12:58	6185	22941	21185
7/29/2022 07:24:42	6291	22723	20278
7/28/2022 07:59:19	6521	24058	19698
7/27/2022 08:17:37	6920	24215	18319
7/26/2022 07:53:10	6343	24801	18781
7/25/2022 09:48:29	5345	21220	12528
6/30/2022 11:28:41	5342	21861	14116
6/3/2022 08:15:26	7965	26259	18626
6/1/2022 09:09:25	7540	22818	17488
5/31/2022 12:07:21	7463	21617	16999
5/31/2022 11:56:36	6060	17631	14046
5/26/2022 09:53:19	6021	17710	14820
5/25/2022 11:34:00	6269	17834	14297
5/25/2022 10:52:32	6525	17820	14265

Background

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
8/24/2023 12:27:36	0.850	0.300	2.300
8/23/2023 10:01:02	0.650	0.550	2.200
8/22/2023 09:47:02	0.950	0.400	2.950
8/21/2023 10:05:10	0.600	0.050	2.350
8/18/2023 09:56:29	0.800	0.550	2.000

Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
8/17/2023 09:33:17	0.550	0.200	2.650
8/16/2023 09:54:23	0.900	0.300	2.650
8/15/2023 09:06:47	1.300	0.600	2.650
8/14/2023 10:53:46	1.050	0.350	3.150
8/11/2023 09:10:11	1.100	0.700	2.900
8/10/2023 09:51:40	0.950	0.250	2.750
8/9/2023 09:53:04	0.900	0.850	2.900
8/8/2023 09:51:14	1.200	0.300	3.450
8/7/2023 10:08:18	0.800	0.450	2.450
8/4/2023 09:09:07	1.050	0.350	3.800
8/4/2023 08:31:24	0.850	0.400	4.150
8/3/2023 09:42:16	0.700	0.350	3.250
8/2/2023 11:05:14	0.500	0.150	2.600
8/2/2023 10:28:09	0.900	0.200	1.450
8/2/2023 10:20:44	1.100	0.050	2.000
8/2/2023 10:16:57	1.000	0.150	1.700
8/2/2023 10:12:26	0.500	0.200	1.550
8/1/2023 09:44:17	0.600	0.400	1.600
7/31/2023 09:31:10	0.650	0.250	1.850
7/28/2023 09:28:15	0.450	0.400	2.050
7/27/2023 09:17:24	0.400	0.200	1.900
7/26/2023 10:24:37	1.000	0.400	2.400
7/25/2023 09:08:43	0.250	0.500	1.350
7/24/2023 09:25:55	0.550	0.150	1.700
7/21/2023 09:38:18	0.450	0.400	1.850
7/20/2023 09:50:16	0.550	0.250	2.250
7/19/2023 09:51:11	0.700	0.300	1.350
7/18/2023 10:02:58	0.800	0.350	1.500
7/17/2023 11:07:27	0.950	0.200	1.800
7/17/2023 09:51:07	0.650	0.300	2.300
7/14/2023 13:20:39	0.950	0.550	2.500
7/14/2023 13:13:20	0.950	0.200	1.900
7/14/2023 13:04:01	0.450	0.300	0.950
7/14/2023 12:49:03	1.000	0.400	2.600
7/14/2023 09:43:22	0.950	0.350	1.400
7/13/2023 17:06:49	0.900	0.450	1.350
7/13/2023 16:18:09	0.800	0.250	1.700
7/13/2023 13:12:33	0.500	0.050	1.350
7/12/2023 10:11:37	0.850	0.350	1.900
7/11/2023 10:12:22	0.900	0.350	2.450
7/11/2023 10:02:13	1.000	0.300	3.100

Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
7/10/2023 10:27:11	0.950	0.250	2.300
7/7/2023 10:03:10	1.100	0.300	2.800
7/7/2023 09:53:18	1.200	0.550	2.750
7/6/2023 09:39:20	0.850	0.400	3.100
7/5/2023 09:21:22	1.300	0.550	2.800
7/3/2023 09:52:13	1.100	0.150	1.700
7/3/2023 09:30:59	1.100	0.300	1.900
6/30/2023 09:54:22	1.150	0.250	2.450
6/29/2023 09:42:14	0.850	0.350	1.800
6/28/2023 09:24:23	1.350	0.300	2.500
6/27/2023 09:21:37	0.750	0.350	2.100
6/26/2023 13:04:07	0.700	0.350	1.750
6/23/2023 09:35:05	2.000	0.750	4.350
6/22/2023 09:46:11	1.750	0.550	4.300
6/21/2023 09:51:51	1.550	0.550	3.450
6/20/2023 09:45:37	1.700	0.900	4.050
6/19/2023 09:55:02	1.450	0.350	3.650
6/16/2023 09:23:49	1.250	0.650	3.500
6/15/2023 09:47:30	1.300	0.500	4.100
6/14/2023 09:16:14	1.900	0.300	2.850
6/13/2023 09:49:15	1.600	0.250	3.300
6/12/2023 11:34:15	1.350	0.350	3.050
6/12/2023 09:54:55	1.300	0.300	2.050
6/9/2023 12:39:33	1.150	0.450	3.100
6/9/2023 09:23:31	1.700	0.350	2.500
6/8/2023 10:16:31	0.900	0.350	2.450
6/7/2023 09:48:23	1.250	0.300	2.350
6/6/2023 09:46:41	1.150	0.550	2.950
6/5/2023 09:22:56	1.450	0.250	2.050
6/2/2023 09:34:45	1.000	0.250	2.900
6/1/2023 09:48:17	1.050	0.300	2.150
5/31/2023 09:40:40	0.900	0.150	2.800
5/30/2023 09:32:39	1.350	0.350	2.200
5/26/2023 12:43:13	1.600	0.250	1.900
5/26/2023 12:35:21	1.050	0.400	2.200
5/26/2023 12:24:37	1.300	0.150	1.850
5/26/2023 12:20:08	1.050	0.300	2.200
5/26/2023 12:15:41	0.700	0.200	1.700
5/26/2023 09:21:24	1.050	0.350	2.750
5/25/2023 09:20:09	1.450	0.500	3.000
5/24/2023 12:08:16	1.250	0.400	2.500

Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
5/24/2023 09:30:58	1.250	0.700	2.600
5/23/2023 10:10:03	0.850	0.150	1.800
5/22/2023 10:18:03	1.300	0.100	2.500
5/19/2023 09:10:18	1.550	0.150	2.800
5/18/2023 10:26:22	1.250	0.350	3.000
5/17/2023 09:16:47	1.300	0.100	1.900
5/16/2023 09:59:27	1.800	0.050	2.900
5/15/2023 10:01:28	1.350	0.200	2.350
5/12/2023 09:47:09	0.750	0.150	1.650
5/11/2023 09:16:07	1.250	0.200	2.450
5/10/2023 09:42:50	1.050	0.300	1.850
5/9/2023 09:27:44	1.150	0.450	2.500
5/8/2023 09:26:50	2.000	0.250	2.900
5/5/2023 09:05:22	0.900	0.450	1.850
5/4/2023 10:18:52	1.550	0.600	2.450
5/4/2023 09:42:19	0.800	0.350	1.550
5/3/2023 09:25:16	1.400	0.250	2.800
5/2/2023 14:32:57	1.850	0.350	3.750
5/2/2023 11:11:55	1.400	0.350	3.300
5/2/2023 10:06:56	1.200	0.550	2.950
5/2/2023 09:20:27	1.800	0.600	3.600
5/1/2023 08:58:25	1.350	0.350	3.650
4/28/2023 15:08:06	1.050	0.550	3.650
4/28/2023 11:06:46	1.650	0.150	2.350
4/28/2023 09:28:29	1.000	0.300	2.600
4/27/2023 09:00:22	1.450	0.600	4.200
4/26/2023 08:49:33	1.500	0.400	3.850
4/25/2023 10:22:10	1.400	0.300	2.800
4/24/2023 08:55:03	1.500	0.100	2.750
4/21/2023 12:21:05	1.100	0.400	2.250
4/21/2023 11:08:42	2.000	0.450	2.300
4/21/2023 08:53:22	1.200	0.250	3.600
4/20/2023 09:37:29	1.500	0.500	2.950
4/19/2023 17:09:43	1.750	0.700	3.450
4/19/2023 15:46:38	1.600	0.600	3.600
4/19/2023 14:35:32	1.350	0.600	3.100
4/19/2023 13:54:58	1.450	0.500	2.850
4/19/2023 09:45:34	1.250	0.350	4.350
4/18/2023 09:17:03	1.750	0.400	3.900
4/17/2023 10:23:48	0.800	0.300	2.450
4/17/2023 10:00:25	1.500	0.250	2.650

Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
4/14/2023 08:59:17	0.950	0.450	3.250
4/13/2023 09:01:53	1.400	0.500	2.850
4/12/2023 08:48:04	1.350	0.450	4.300
4/11/2023 14:04:25	1.750	0.700	3.800
4/11/2023 11:58:48	1.350	0.550	4.900
4/11/2023 09:06:40	1.500	0.500	3.750
4/10/2023 10:37:44	0.550	0.350	1.300
4/10/2023 10:22:12	1.050	0.200	1.950
4/10/2023 09:55:11	1.100	0.350	2.700
4/10/2023 09:40:08	1.350	0.250	3.000
4/7/2023 09:12:03	1.350	0.300	2.850
4/6/2023 09:29:25	1.600	0.350	3.450
4/5/2023 12:01:25	1.650	0.450	3.900
4/4/2023 09:25:41	1.050	0.500	3.300
4/4/2023 09:16:16	2.000	0.500	3.850
4/3/2023 10:44:46	0.950	0.700	4.000
3/31/2023 13:01:29	1.600	0.150	2.600
3/31/2023 09:26:11	1.150	0.450	2.800
3/30/2023 09:11:37	1.450	0.550	2.750
3/30/2023 09:01:02	1.500	0.250	3.350
3/29/2023 09:27:41	1.600	0.350	3.600
3/28/2023 09:13:20	1.150	0.250	2.650
3/27/2023 09:16:40	1.250	0.600	3.200
3/24/2023 09:19:12	1.550	0.700	3.750
3/23/2023 10:30:11	2.050	0.250	3.650
3/22/2023 09:09:24	2.200	0.300	1.850
3/21/2023 11:29:57	1.700	0.450	2.750
3/20/2023 15:01:09	2.350	0.600	4.250
3/20/2023 14:56:00	2.950	0.600	4.950
3/20/2023 14:34:11	3.650	1.050	6.050
3/20/2023 11:10:11	2.050	0.700	5.350
3/17/2023 09:15:52	2.250	0.650	3.950
3/16/2023 10:04:21	2.250	0.750	4.300
3/15/2023 08:50:05	1.550	0.500	3.400
3/14/2023 09:23:23	1.000	0.300	2.750
3/13/2023 09:02:28	1.800	0.700	3.500
3/10/2023 09:50:25	1.450	0.450	4.250
3/9/2023 10:05:54	2.200	0.350	4.150
3/8/2023 13:14:50	2.350	0.450	4.200
3/7/2023 10:34:30	2.300	0.600	2.900
3/6/2023 10:45:07	3.100	0.350	3.250

Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
3/3/2023 08:01:46	2.200	0.650	4.350
3/2/2023 09:47:36	2.500	0.450	4.100
3/1/2023 08:51:22	1.800	0.350	3.800
2/28/2023 09:34:23	1.750	0.800	3.650
2/27/2023 14:30:30	1.550	0.600	3.100
2/27/2023 11:22:50	0.800	0.200	1.500
2/27/2023 10:51:56	0.950	0.250	2.200
2/27/2023 10:44:59	1.000	0.100	1.750
2/24/2023 16:23:45	0.600	0.650	2.400
2/24/2023 16:07:57	0.900	0.350	2.300
2/23/2023 08:54:28	0.650	0.150	2.700
2/22/2023 08:37:14	1.200	0.350	4.250
2/21/2023 10:21:12	1.050	0.100	2.800
2/20/2023 08:52:02	0.900	0.200	2.050
2/17/2023 08:36:41	0.900	0.150	2.150
2/16/2023 08:44:34	0.950	0.200	2.100
2/15/2023 12:26:22	0.550	0.200	1.150
2/14/2023 13:04:03	1.150	0.250	1.250
2/13/2023 11:40:00	1.600	0.200	2.000
2/10/2023 10:01:05	1.350	0.550	2.150
2/9/2023 11:28:46	1.150	0.200	2.100
2/8/2023 08:23:24	1.300	0.400	1.800
2/7/2023 11:36:23	1.550	0.300	2.250
2/6/2023 12:36:01	1.350	0.150	1.900
2/3/2023 08:20:53	1.050	0.300	2.050
2/2/2023 07:55:34	0.850	0.100	1.950
2/1/2023 07:42:39	0.800	0.250	1.550
1/31/2023 09:19:32	0.850	0.250	1.350
1/30/2023 10:17:02	0.800	0.150	2.050
1/27/2023 08:15:42	1.300	0.250	2.400
1/26/2023 08:18:20	1.100	0.250	2.600
1/25/2023 09:02:42	0.650	0.200	2.100
1/24/2023 08:45:18	1.150	0.200	1.950
1/23/2023 07:54:12	1.000	0.000	1.650
1/20/2023 07:43:21	0.950	0.150	1.550
1/19/2023 08:47:40	1.850	0.400	2.200
1/18/2023 08:40:18	1.000	0.250	2.250
1/17/2023 09:51:42	0.550	0.150	1.550
1/13/2023 08:18:49	0.700	0.350	2.000
1/12/2023 08:58:54	0.950	0.150	1.550
1/11/2023 08:26:54	0.950	0.150	1.800

Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
1/10/2023 09:03:33	0.600	0.250	2.050
1/9/2023 08:33:43	0.650	0.250	2.000
1/6/2023 09:09:20	1.000	0.250	2.250
1/5/2023 08:59:03	0.700	0.100	2.000
1/4/2023 09:22:57	0.850	0.200	2.250
1/3/2023 07:54:14	0.750	0.200	1.900
12/30/2022 12:03:44	0.800	0.200	1.400
12/30/2022 11:44:52	0.500	0.100	1.700
12/30/2022 08:53:04	0.600	0.100	1.850
12/30/2022 08:43:33	0.650	0.400	2.700
12/29/2022 09:51:14	1.300	0.350	2.050
12/28/2022 10:56:59	0.900	0.350	2.000
12/27/2022 11:51:09	1.350	0.150	1.800
12/22/2022 13:03:41	1.100	0.250	2.300
12/20/2022 10:03:57	1.050	0.300	2.650
12/15/2022 08:54:42	1.100	0.100	1.850
12/14/2022 07:30:17	0.650	0.150	1.900
12/13/2022 08:19:58	0.850	0.250	2.000
12/12/2022 09:25:41	1.250	0.350	2.250
12/9/2022 07:32:14	1.000	0.300	1.650
12/7/2022 09:04:52	1.000	0.150	1.900
12/6/2022 09:40:47	1.100	0.550	2.250
12/5/2022 09:33:56	1.300	0.200	1.800
12/2/2022 08:43:06	1.250	0.100	1.650
12/1/2022 08:14:13	1.000	0.050	1.400
11/30/2022 09:05:47	1.150	0.250	2.650
11/29/2022 09:56:17	0.900	0.000	1.850
11/22/2022 08:57:48	1.400	0.150	2.850
11/21/2022 09:24:58	0.900	0.150	2.200
11/18/2022 08:02:10	1.350	0.100	2.300
11/17/2022 14:32:03	0.850	0.200	1.550
11/14/2022 13:14:56	1.000	0.100	1.800
11/11/2022 08:35:49	1.350	0.150	1.950
11/10/2022 10:24:53	1.000	0.150	1.950
11/9/2022 12:14:57	0.900	0.250	1.450
11/7/2022 10:37:58	1.300	0.300	2.500
11/7/2022 08:51:17	0.750	0.150	2.700
11/4/2022 09:20:34	1.150	0.250	1.950
11/3/2022 10:28:57	1.400	0.100	1.950
11/2/2022 08:32:00	0.850	0.100	2.250
11/1/2022 11:19:50	1.500	0.500	1.900

Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
11/1/2022 11:02:36	0.850	0.450	1.850
10/31/2022 09:19:47	0.650	0.350	1.650
10/28/2022 09:14:48	0.800	0.050	2.350
10/27/2022 10:50:18	1.100	0.350	2.350
10/26/2022 11:02:54	1.000	0.100	2.600
10/19/2022 12:45:34	1.200	0.150	2.250
10/18/2022 09:12:59	0.800	0.300	2.300
10/13/2022 11:08:12	1.300	0.350	2.150
10/12/2022 09:54:30	1.200	0.300	2.000
10/11/2022 09:12:35	1.250	0.400	2.250
10/6/2022 10:34:09	1.100	0.100	1.950
9/30/2022 08:08:09	1.200	0.400	2.350
9/29/2022 08:44:14	0.800	0.000	2.200
9/28/2022 09:42:45	1.800	0.150	1.950
9/27/2022 08:29:24	1.350	0.250	1.750
9/26/2022 10:25:12	1.400	0.200	1.800
9/23/2022 07:41:43	0.750	0.350	1.900
9/22/2022 11:03:47	1.550	0.350	2.550
9/21/2022 10:21:37	0.800	0.200	1.100
9/20/2022 12:23:56	0.750	0.200	1.550
9/15/2022 11:07:18	0.800	0.400	2.600
9/14/2022 09:29:39	1.050	0.150	2.900
9/13/2022 14:42:43	1.100	0.300	1.550
9/13/2022 08:12:52	1.550	0.450	2.300
9/12/2022 08:42:30	1.500	0.200	1.950
9/9/2022 09:45:48	1.300	0.300	2.050
9/8/2022 12:04:46	2.050	0.200	2.100
9/8/2022 11:48:01	1.000	0.050	1.900
9/8/2022 11:27:44	1.500	0.150	2.100
9/2/2022 07:38:00	1.350	0.050	2.250
9/1/2022 08:15:43	1.350	0.050	1.850
8/31/2022 07:49:17	0.800	0.200	1.700
8/30/2022 09:25:59	1.500	0.150	1.350
8/30/2022 09:00:54	0.900	0.000	0.750
8/25/2022 08:44:13	1.300	0.400	2.000
8/24/2022 08:11:08	0.850	0.100	1.500
8/22/2022 11:28:23	0.700	0.100	1.550
8/22/2022 08:02:13	1.350	0.300	1.050
8/19/2022 08:45:48	1.000	0.150	1.700
8/18/2022 08:00:38	1.650	0.450	2.500
8/17/2022 07:50:25	1.750	0.150	2.650

Performance Report

Created Date	Channel 1 Count	Channel 2 Count	Channel 3 Count
8/16/2022 08:11:19	1.350	0.300	2.400
8/15/2022 07:58:53	1.100	0.250	1.500
8/12/2022 07:30:34	1.750	0.150	3.000
8/11/2022 12:53:44	1.400	0.450	3.400
8/11/2022 08:29:41	1.850	0.250	2.850
8/10/2022 08:08:22	1.050	0.200	2.000
8/9/2022 08:36:25	1.000	0.200	2.000
8/9/2022 07:53:48	1.050	0.100	1.700
8/1/2022 09:30:01	1.050	0.300	1.750
8/1/2022 08:12:58	1.350	0.250	1.800
7/29/2022 07:24:42	1.300	0.250	2.450
7/28/2022 07:59:19	1.850	0.300	1.950
7/27/2022 08:17:37	1.600	0.250	2.600
7/26/2022 07:53:10	1.150	0.200	1.850
7/25/2022 09:48:29	1.800	0.450	1.850
6/30/2022 11:28:41	1.500	0.150	2.100
6/3/2022 08:15:26	1.550	0.150	1.550
6/1/2022 09:09:25	1.250	0.150	1.050
5/31/2022 12:07:21	1.500	0.200	1.200
5/31/2022 11:56:36	1.250	0.150	1.100
5/26/2022 09:53:19	1.000	0.150	1.400
5/25/2022 11:34:00	1.450	0.050	1.350
5/25/2022 10:52:32	0.950	0.200	1.100

Tune Parameters

Created Date	Extract 1	Extract 2	Omega Bias
8/24/2023 12:27:36	0.0 V	-180.0 V	-80 V
8/23/2023 10:01:02	0.0 V	-155.0 V	-80 V
8/22/2023 09:47:02	0.0 V	-150.0 V	-80 V
8/21/2023 10:05:10	0.0 V	-150.0 V	-70 V
8/18/2023 09:56:29	0.0 V	-165.0 V	-80 V
8/17/2023 09:33:17	0.0 V	-165.0 V	-80 V
8/16/2023 09:54:23	0.0 V	-160.0 V	-80 V
8/15/2023 09:06:47	0.0 V	-160.0 V	-80 V
8/14/2023 10:53:46	0.0 V	-165.0 V	-80 V
8/11/2023 09:10:11	0.0 V	-170.0 V	-80 V

Performance Report

Created Date	Extract 1	Extract 2	Omega Bias
8/10/2023 09:51:40	0.0 V	-165.0 V	-80 V
8/9/2023 09:53:04	0.0 V	-160.0 V	-80 V
8/8/2023 09:51:14	0.0 V	-150.0 V	-80 V
8/7/2023 10:08:18	0.0 V	-140.0 V	-70 V
8/4/2023 09:09:07	0.0 V	-145.0 V	-70 V
8/4/2023 08:31:24	0.0 V	-170.0 V	-80 V
8/3/2023 09:42:16	0.0 V	-195.0 V	-90 V
8/2/2023 11:05:14	0.0 V	-200.0 V	-110 V
8/2/2023 10:28:09	0.0 V	-150.0 V	-80 V
8/2/2023 10:20:44	0.0 V	-185.0 V	-90 V
8/2/2023 10:16:57	0.0 V	-185.0 V	-90 V
8/2/2023 10:12:26	0.0 V	-185.0 V	-90 V
8/1/2023 09:44:17	0.0 V	-200.0 V	-120 V
7/31/2023 09:31:10	0.0 V	-150.0 V	-80 V
7/28/2023 09:28:15	0.0 V	-185.0 V	-90 V
7/27/2023 09:17:24	0.0 V	-185.0 V	-100 V
7/26/2023 10:24:37	0.0 V	-200.0 V	-100 V
7/25/2023 09:08:43	0.0 V	-200.0 V	-120 V
7/24/2023 09:25:55	0.0 V	-175.0 V	-90 V
7/21/2023 09:38:18	0.0 V	-170.0 V	-90 V
7/20/2023 09:50:16	0.0 V	-170.0 V	-90 V
7/19/2023 09:51:11	0.0 V	-165.0 V	-90 V
7/18/2023 10:02:58	0.0 V	-165.0 V	-80 V
7/17/2023 11:07:27	0.0 V	-195.0 V	-100 V
7/17/2023 09:51:07	0.0 V	-200.0 V	-100 V
7/14/2023 13:20:39	0.0 V	-200.0 V	-110 V
7/14/2023 13:13:20	0.0 V	-200.0 V	-110 V
7/14/2023 13:04:01	0.0 V	-200.0 V	-120 V
7/14/2023 12:49:03	0.0 V	-200.0 V	-120 V
7/14/2023 09:43:22	0.0 V	-195.0 V	-110 V
7/13/2023 17:06:49	0.0 V	-200.0 V	-100 V
7/13/2023 16:18:09	0.0 V	-200.0 V	-100 V
7/13/2023 13:12:33	0.0 V	-195.0 V	-110 V
7/12/2023 10:11:37	0.0 V	-190.0 V	-80 V
7/11/2023 10:12:22	0.0 V	-200.0 V	-80 V
7/11/2023 10:02:13	0.0 V	-185.0 V	-100 V
7/10/2023 10:27:11	0.0 V	-140.0 V	-70 V
7/7/2023 10:03:10	0.0 V	-170.0 V	-70 V
7/7/2023 09:53:18	0.0 V	-165.0 V	-70 V
7/6/2023 09:39:20	0.0 V	-145.0 V	-70 V
7/5/2023 09:21:22	0.0 V	-140.0 V	-70 V

Performance Report

Created Date	Extract 1	Extract 2	Omega Bias
7/3/2023 09:52:13	0.0 V	-170.0 V	-70 V
7/3/2023 09:30:59	0.0 V	-175.0 V	-70 V
6/30/2023 09:54:22	0.0 V	-200.0 V	-90 V
6/29/2023 09:42:14	0.0 V	-200.0 V	-90 V
6/28/2023 09:24:23	0.0 V	-200.0 V	-90 V
6/27/2023 09:21:37	0.0 V	-195.0 V	-90 V
6/26/2023 13:04:07	0.0 V	-180.0 V	-80 V
6/23/2023 09:35:05	0.0 V	-200.0 V	-80 V
6/22/2023 09:46:11	0.0 V	-195.0 V	-80 V
6/21/2023 09:51:51	0.0 V	-200.0 V	-80 V
6/20/2023 09:45:37	0.0 V	-195.0 V	-80 V
6/19/2023 09:55:02	0.0 V	-190.0 V	-80 V
6/16/2023 09:23:49	0.0 V	-200.0 V	-90 V
6/15/2023 09:47:30	0.0 V	-200.0 V	-90 V
6/14/2023 09:16:14	0.0 V	-200.0 V	-80 V
6/13/2023 09:49:15	0.0 V	-200.0 V	-80 V
6/12/2023 11:34:15	0.0 V	-195.0 V	-80 V
6/12/2023 09:54:55	0.0 V	-185.0 V	-80 V
6/9/2023 12:39:33	0.0 V	-200.0 V	-90 V
6/9/2023 09:23:31	0.0 V	-200.0 V	-80 V
6/8/2023 10:16:31	0.0 V	-200.0 V	-90 V
6/7/2023 09:48:23	0.0 V	-200.0 V	-90 V
6/6/2023 09:46:41	0.0 V	-200.0 V	-90 V
6/5/2023 09:22:56	0.0 V	-200.0 V	-90 V
6/2/2023 09:34:45	0.0 V	-200.0 V	-100 V
6/1/2023 09:48:17	0.0 V	-180.0 V	-80 V
5/31/2023 09:40:40	0.0 V	-180.0 V	-70 V
5/30/2023 09:32:39	0.0 V	-160.0 V	-70 V
5/26/2023 12:43:13	0.0 V	-195.0 V	-80 V
5/26/2023 12:35:21	0.0 V	-200.0 V	-80 V
5/26/2023 12:24:37	0.0 V	-200.0 V	-90 V
5/26/2023 12:20:08	0.0 V	-200.0 V	-90 V
5/26/2023 12:15:41	0.0 V	-200.0 V	-90 V
5/26/2023 09:21:24	0.0 V	-200.0 V	-90 V
5/25/2023 09:20:09	0.0 V	-200.0 V	-90 V
5/24/2023 12:08:16	0.0 V	-200.0 V	-90 V
5/24/2023 09:30:58	0.0 V	-200.0 V	-90 V
5/23/2023 10:10:03	0.0 V	-195.0 V	-90 V
5/22/2023 10:18:03	0.0 V	-200.0 V	-90 V
5/19/2023 09:10:18	0.0 V	-200.0 V	-90 V
5/18/2023 10:26:22	0.0 V	-200.0 V	-90 V

Performance Report

Created Date	Extract 1	Extract 2	Omega Bias
5/17/2023 09:16:47	0.0 V	-200.0 V	-90 V
5/16/2023 09:59:27	0.0 V	-200.0 V	-90 V
5/15/2023 10:01:28	0.0 V	-200.0 V	-80 V
5/12/2023 09:47:09	0.0 V	-190.0 V	-80 V
5/11/2023 09:16:07	0.0 V	-195.0 V	-80 V
5/10/2023 09:42:50	0.0 V	-175.0 V	-80 V
5/9/2023 09:27:44	0.0 V	-175.0 V	-70 V
5/8/2023 09:26:50	0.0 V	-200.0 V	-90 V
5/5/2023 09:05:22	0.0 V	-200.0 V	-100 V
5/4/2023 10:18:52	0.0 V	-200.0 V	-110 V
5/4/2023 09:42:19	0.0 V	-175.0 V	-80 V
5/3/2023 09:25:16	0.0 V	-175.0 V	-80 V
5/2/2023 14:32:57	0.0 V	-170.0 V	-80 V
5/2/2023 11:11:55	0.0 V	-175.0 V	-80 V
5/2/2023 10:06:56	0.0 V	-175.0 V	-80 V
5/2/2023 09:20:27	0.0 V	-180.0 V	-80 V
5/1/2023 08:58:25	0.0 V	-190.0 V	-80 V
4/28/2023 15:08:06	0.0 V	-185.0 V	-80 V
4/28/2023 11:06:46	0.0 V	-195.0 V	-80 V
4/28/2023 09:28:29	0.0 V	-175.0 V	-90 V
4/27/2023 09:00:22	0.0 V	-195.0 V	-90 V
4/26/2023 08:49:33	0.0 V	-195.0 V	-80 V
4/25/2023 10:22:10	0.0 V	-190.0 V	-80 V
4/24/2023 08:55:03	0.0 V	-170.0 V	-80 V
4/21/2023 12:21:05	0.0 V	-165.0 V	-80 V
4/21/2023 11:08:42	0.0 V	-175.0 V	-80 V
4/21/2023 08:53:22	0.0 V	-165.0 V	-80 V
4/20/2023 09:37:29	0.0 V	-175.0 V	-80 V
4/19/2023 17:09:43	0.0 V	-185.0 V	-80 V
4/19/2023 15:46:38	0.0 V	-185.0 V	-80 V
4/19/2023 14:35:32	0.0 V	-180.0 V	-80 V
4/19/2023 13:54:58	0.0 V	-185.0 V	-80 V
4/19/2023 09:45:34	0.0 V	-180.0 V	-80 V
4/18/2023 09:17:03	0.0 V	-190.0 V	-80 V
4/17/2023 10:23:48	0.0 V	-170.0 V	-70 V
4/17/2023 10:00:25	0.0 V	-190.0 V	-80 V
4/14/2023 08:59:17	0.0 V	-200.0 V	-90 V
4/13/2023 09:01:53	0.0 V	-190.0 V	-90 V
4/12/2023 08:48:04	0.0 V	-200.0 V	-90 V
4/11/2023 14:04:25	0.0 V	-185.0 V	-80 V
4/11/2023 11:58:48	0.0 V	-185.0 V	-80 V

Performance Report

Created Date	Extract 1	Extract 2	Omega Bias
4/11/2023 09:06:40	0.0 V	-200.0 V	-80 V
4/10/2023 10:37:44	0.0 V	-155.0 V	-70 V
4/10/2023 10:22:12	0.0 V	-175.0 V	-80 V
4/10/2023 09:55:11	0.0 V	-175.0 V	-80 V
4/10/2023 09:40:08	0.0 V	-170.0 V	-80 V
4/7/2023 09:12:03	0.0 V	-170.0 V	-80 V
4/6/2023 09:29:25	0.0 V	-175.0 V	-80 V
4/5/2023 12:01:25	0.0 V	-170.0 V	-80 V
4/4/2023 09:25:41	0.0 V	-175.0 V	-80 V
4/4/2023 09:16:16	0.0 V	-175.0 V	-80 V
4/3/2023 10:44:46	0.0 V	-190.0 V	-80 V
3/31/2023 13:01:29	0.0 V	-185.0 V	-80 V
3/31/2023 09:26:11	0.0 V	-175.0 V	-80 V
3/30/2023 09:11:37	0.0 V	-195.0 V	-80 V
3/30/2023 09:01:02	0.0 V	-195.0 V	-80 V
3/29/2023 09:27:41	0.0 V	-195.0 V	-80 V
3/28/2023 09:13:20	0.0 V	-175.0 V	-80 V
3/27/2023 09:16:40	0.0 V	-185.0 V	-80 V
3/24/2023 09:19:12	0.0 V	-190.0 V	-80 V
3/23/2023 10:30:11	0.0 V	-190.0 V	-80 V
3/22/2023 09:09:24	0.0 V	-185.0 V	-70 V
3/21/2023 11:29:57	0.0 V	-175.0 V	-80 V
3/20/2023 15:01:09	0.0 V	-195.0 V	-80 V
3/20/2023 14:56:00	0.0 V	-195.0 V	-80 V
3/20/2023 14:34:11	0.0 V	-200.0 V	-80 V
3/20/2023 11:10:11	0.0 V	-200.0 V	-90 V
3/17/2023 09:15:52	0.0 V	-200.0 V	-90 V
3/16/2023 10:04:21	0.0 V	-200.0 V	-80 V
3/15/2023 08:50:05	0.0 V	-195.0 V	-70 V
3/14/2023 09:23:23	0.0 V	-185.0 V	-70 V
3/13/2023 09:02:28	0.0 V	-195.0 V	-70 V
3/10/2023 09:50:25	0.0 V	-195.0 V	-80 V
3/9/2023 10:05:54	0.0 V	-200.0 V	-80 V
3/8/2023 13:14:50	0.0 V	-200.0 V	-80 V
3/7/2023 10:34:30	0.0 V	-200.0 V	-80 V
3/6/2023 10:45:07	0.0 V	-200.0 V	-80 V
3/3/2023 08:01:46	0.0 V	-200.0 V	-80 V
3/2/2023 09:47:36	0.0 V	-200.0 V	-80 V
3/1/2023 08:51:22	0.0 V	-200.0 V	-80 V
2/28/2023 09:34:23	0.0 V	-195.0 V	-80 V
2/27/2023 14:30:30	0.0 V	-200.0 V	-80 V

Performance Report

Created Date	Extract 1	Extract 2	Omega Bias
2/27/2023 11:22:50	0.0 V	-170.0 V	-80 V
2/27/2023 10:51:56	0.0 V	-170.0 V	-80 V
2/27/2023 10:44:59	0.0 V	-170.0 V	-80 V
2/24/2023 16:23:45	0.0 V	-185.0 V	-80 V
2/24/2023 16:07:57	0.0 V	-185.0 V	-80 V
2/23/2023 08:54:28	0.0 V	-185.0 V	-80 V
2/22/2023 08:37:14	0.0 V	-200.0 V	-80 V
2/21/2023 10:21:12	0.0 V	-195.0 V	-80 V
2/20/2023 08:52:02	0.0 V	-195.0 V	-80 V
2/17/2023 08:36:41	0.0 V	-200.0 V	-90 V
2/16/2023 08:44:34	0.0 V	-200.0 V	-90 V
2/15/2023 12:26:22	0.0 V	-180.0 V	-90 V
2/14/2023 13:04:03	0.0 V	-190.0 V	-80 V
2/13/2023 11:40:00	0.0 V	-200.0 V	-80 V
2/10/2023 10:01:05	0.0 V	-195.0 V	-80 V
2/9/2023 11:28:46	0.0 V	-200.0 V	-80 V
2/8/2023 08:23:24	0.0 V	-200.0 V	-90 V
2/7/2023 11:36:23	0.0 V	-200.0 V	-90 V
2/6/2023 12:36:01	0.0 V	-200.0 V	-100 V
2/3/2023 08:20:53	0.0 V	-200.0 V	-90 V
2/2/2023 07:55:34	0.0 V	-200.0 V	-90 V
2/1/2023 07:42:39	0.0 V	-195.0 V	-90 V
1/31/2023 09:19:32	0.0 V	-175.0 V	-90 V
1/30/2023 10:17:02	0.0 V	-200.0 V	-90 V
1/27/2023 08:15:42	0.0 V	-195.0 V	-90 V
1/26/2023 08:18:20	0.0 V	-200.0 V	-80 V
1/25/2023 09:02:42	0.0 V	-195.0 V	-90 V
1/24/2023 08:45:18	0.0 V	-200.0 V	-80 V
1/23/2023 07:54:12	0.0 V	-200.0 V	-80 V
1/20/2023 07:43:21	0.0 V	-195.0 V	-90 V
1/19/2023 08:47:40	0.0 V	-200.0 V	-90 V
1/18/2023 08:40:18	0.0 V	-200.0 V	-80 V
1/17/2023 09:51:42	0.0 V	-170.0 V	-80 V
1/13/2023 08:18:49	0.0 V	-200.0 V	-80 V
1/12/2023 08:58:54	0.0 V	-195.0 V	-80 V
1/11/2023 08:26:54	0.0 V	-200.0 V	-80 V
1/10/2023 09:03:33	0.0 V	-195.0 V	-80 V
1/9/2023 08:33:43	0.0 V	-195.0 V	-90 V
1/6/2023 09:09:20	0.0 V	-200.0 V	-80 V
1/5/2023 08:59:03	0.0 V	-200.0 V	-80 V
1/4/2023 09:22:57	0.0 V	-200.0 V	-90 V

Performance Report

Created Date	Extract 1	Extract 2	Omega Bias
1/3/2023 07:54:14	0.0 V	-190.0 V	-80 V
12/30/2022 12:03:44	0.0 V	-195.0 V	-80 V
12/30/2022 11:44:52	0.0 V	-195.0 V	-80 V
12/30/2022 08:53:04	0.0 V	-195.0 V	-80 V
12/30/2022 08:43:33	0.0 V	-195.0 V	-80 V
12/29/2022 09:51:14	0.0 V	-200.0 V	-80 V
12/28/2022 10:56:59	0.0 V	-200.0 V	-90 V
12/27/2022 11:51:09	0.0 V	-195.0 V	-80 V
12/22/2022 13:03:41	0.0 V	-200.0 V	-90 V
12/20/2022 10:03:57	0.0 V	-200.0 V	-90 V
12/15/2022 08:54:42	0.0 V	-200.0 V	-90 V
12/14/2022 07:30:17	0.0 V	-200.0 V	-80 V
12/13/2022 08:19:58	0.0 V	-200.0 V	-90 V
12/12/2022 09:25:41	0.0 V	-200.0 V	-90 V
12/9/2022 07:32:14	0.0 V	-185.0 V	-90 V
12/7/2022 09:04:52	0.0 V	-200.0 V	-80 V
12/6/2022 09:40:47	0.0 V	-200.0 V	-90 V
12/5/2022 09:33:56	0.0 V	-200.0 V	-90 V
12/2/2022 08:43:06	0.0 V	-200.0 V	-90 V
12/1/2022 08:14:13	0.0 V	-200.0 V	-90 V
11/30/2022 09:05:47	0.0 V	-200.0 V	-90 V
11/29/2022 09:56:17	0.0 V	-190.0 V	-80 V
11/22/2022 08:57:48	0.0 V	-200.0 V	-80 V
11/21/2022 09:24:58	0.0 V	-200.0 V	-80 V
11/18/2022 08:02:10	0.0 V	-200.0 V	-90 V
11/17/2022 14:32:03	0.0 V	-195.0 V	-90 V
11/14/2022 13:14:56	0.0 V	-180.0 V	-90 V
11/11/2022 08:35:49	0.0 V	-195.0 V	-90 V
11/10/2022 10:24:53	0.0 V	-185.0 V	-80 V
11/9/2022 12:14:57	0.0 V	-185.0 V	-70 V
11/7/2022 10:37:58	0.0 V	-200.0 V	-80 V
11/7/2022 08:51:17	0.0 V	-200.0 V	-110 V
11/4/2022 09:20:34	0.0 V	-200.0 V	-110 V
11/3/2022 10:28:57	0.0 V	-200.0 V	-120 V
11/2/2022 08:32:00	0.0 V	-200.0 V	-120 V
11/1/2022 11:19:50	0.0 V	-200.0 V	-120 V
11/1/2022 11:02:36	0.0 V	-200.0 V	-120 V
10/31/2022 09:19:47	0.0 V	-200.0 V	-120 V
10/28/2022 09:14:48	0.0 V	-200.0 V	-120 V
10/27/2022 10:50:18	0.0 V	-200.0 V	-120 V
10/26/2022 11:02:54	0.0 V	-200.0 V	-120 V

Performance Report

Created Date	Extract 1	Extract 2	Omega Bias
10/19/2022 12:45:34	0.0 V	-200.0 V	-120 V
10/18/2022 09:12:59	0.0 V	-200.0 V	-120 V
10/13/2022 11:08:12	0.0 V	-200.0 V	-120 V
10/12/2022 09:54:30	0.0 V	-200.0 V	-120 V
10/11/2022 09:12:35	0.0 V	-200.0 V	-110 V
10/6/2022 10:34:09	0.0 V	-195.0 V	-100 V
9/30/2022 08:08:09	0.0 V	-195.0 V	-100 V
9/29/2022 08:44:14	0.0 V	-195.0 V	-100 V
9/28/2022 09:42:45	0.0 V	-195.0 V	-100 V
9/27/2022 08:29:24	0.0 V	-195.0 V	-100 V
9/26/2022 10:25:12	0.0 V	-195.0 V	-100 V
9/23/2022 07:41:43	0.0 V	-195.0 V	-100 V
9/22/2022 11:03:47	0.0 V	-195.0 V	-100 V
9/21/2022 10:21:37	0.0 V	-195.0 V	-100 V
9/20/2022 12:23:56	0.0 V	-195.0 V	-100 V
9/15/2022 11:07:18	0.0 V	-195.0 V	-100 V
9/14/2022 09:29:39	0.0 V	-200.0 V	-80 V
9/13/2022 14:42:43	0.0 V	-200.0 V	-80 V
9/13/2022 08:12:52	0.0 V	-195.0 V	-80 V
9/12/2022 08:42:30	0.0 V	-190.0 V	-80 V
9/9/2022 09:45:48	0.0 V	-200.0 V	-80 V
9/8/2022 12:04:46	0.0 V	-200.0 V	-80 V
9/8/2022 11:48:01	0.0 V	-200.0 V	-70 V
9/8/2022 11:27:44	0.0 V	-200.0 V	-70 V
9/2/2022 07:38:00	0.0 V	-200.0 V	-80 V
9/1/2022 08:15:43	0.0 V	-200.0 V	-80 V
8/31/2022 07:49:17	0.0 V	-200.0 V	-80 V
8/30/2022 09:25:59	0.0 V	-200.0 V	-80 V
8/30/2022 09:00:54	0.0 V	-200.0 V	-90 V
8/25/2022 08:44:13	0.0 V	-200.0 V	-90 V
8/24/2022 08:11:08	0.0 V	-200.0 V	-90 V
8/22/2022 11:28:23	0.0 V	-200.0 V	-80 V
8/22/2022 08:02:13	0.0 V	-200.0 V	-80 V
8/19/2022 08:45:48	0.0 V	-200.0 V	-80 V
8/18/2022 08:00:38	0.0 V	-200.0 V	-80 V
8/17/2022 07:50:25	0.0 V	-200.0 V	-80 V
8/16/2022 08:11:19	0.0 V	-200.0 V	-80 V
8/15/2022 07:58:53	0.0 V	-200.0 V	-80 V
8/12/2022 07:30:34	0.0 V	-200.0 V	-80 V
8/11/2022 12:53:44	0.0 V	-200.0 V	-80 V
8/11/2022 08:29:41	0.0 V	-200.0 V	-80 V

Performance Report

Created Date	Extract 1	Extract 2	Omega Bias
8/10/2022 08:08:22	0.0 V	-200.0 V	-70 V
8/9/2022 08:36:25	0.0 V	-200.0 V	-80 V
8/9/2022 07:53:48	0.0 V	-200.0 V	-80 V
8/1/2022 09:30:01	0.0 V	-200.0 V	-80 V
8/1/2022 08:12:58	0.0 V	-200.0 V	-80 V
7/29/2022 07:24:42	0.0 V	-200.0 V	-80 V
7/28/2022 07:59:19	0.0 V	-200.0 V	-80 V
7/27/2022 08:17:37	0.0 V	-200.0 V	-90 V
7/26/2022 07:53:10	0.0 V	-200.0 V	-90 V
7/25/2022 09:48:29	0.0 V	-195.0 V	-90 V
6/30/2022 11:28:41	0.0 V	-200.0 V	-90 V
6/3/2022 08:15:26	0.0 V	-200.0 V	-90 V
6/1/2022 09:09:25	0.0 V	-195.0 V	-90 V
5/31/2022 12:07:21	0.0 V	-200.0 V	-90 V
5/31/2022 11:56:36	0.0 V	-200.0 V	-90 V
5/26/2022 09:53:19	0.0 V	-200.0 V	-110 V
5/25/2022 11:34:00	0.0 V	-200.0 V	-100 V
5/25/2022 10:52:32	0.0 V	-200.0 V	-100 V

US EPA Tune Check Report

Operator Name ICPMS
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\082423SLL.b
Acq. Date-Time 8/24/2023 12:47:46
Report Comment ---
Instrument Name G8422A SG22151236

[No Gas]

Sensitivity

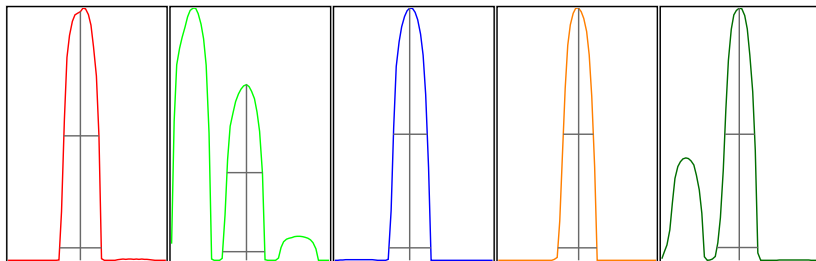
Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/(ug/l)]	Resp (Flag)	RSD%	RSD% (Required)
9	10.00	2366	23655.89			1.472	5.000
24	10.00	9211	92108.48			0.765	5.000
59	10.00	24716	247156.57			0.728	5.000
115	10.00	38440	384401.48			0.488	5.000
208	10.00	25587	255867.59			1.171	5.000

Mass	RSD% (Flag)
9	
24	
59	
115	
208	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	2318	2346	2395	2401	2368
24	9123	9152	9238	9290	9251
59	24484	24619	24716	24959	24800
115	38744	38331	38351	38495	38280
208	25972	25179	25494	25766	25523

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	3738.99	8.90	8.90 - 9.10	
24	14853.96	23.95	23.90 - 24.10	
59	41090.16	58.95	58.90 - 59.10	
115	70951.95	115.05	114.90 - 115.10	
208	47161.86	208.00	207.90 - 208.10	

US EPA Tune Check Report

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.66	0.783	0.900	
24	0.66	0.787	0.900	
59	0.63	0.781	0.900	
115	0.56	0.730	0.900	
208	0.56	0.765	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 153.699999999999
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.70 L/min	Makeup Gas	0.50 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	5.5 V	Deflect	11.6 V
Extract 2	-20.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-14 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	123	Axis Gain	0.9993	QP Bias	-3.0 V
Mass Offset	125	Axis Offset	0.02		

Hardware Settings

Torch

Torch H	0.2 mm	Torch V	0.6 mm
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EM

Discriminator	3.1 mV	Analog HV	2150 V	Pulse HV	1235 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/(ug/l)]	Resp (Flag)	RSD%	RSD% (Required)
24	10.00	4956	49561.08			0.448	5.000
59	10.00	114932	1149316.99			1.496	5.000
115	10.00	174870	1748703.53			0.602	5.000
208	10.00	195950	1959499.70			1.546	5.000

Mass	RSD% (Flag)
24	
59	

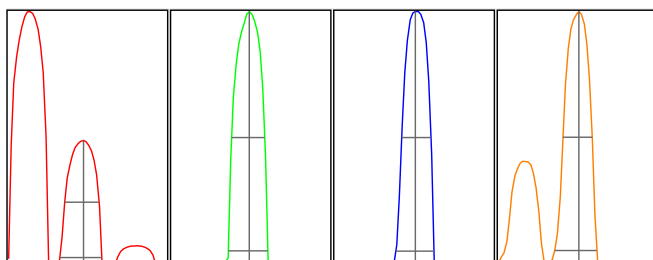
US EPA Tune Check Report

Mass	RSD% (Flag)
115	
208	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
24	4921	4956	4961	4961	4982
59	115541	113532	117530	114774	113281
115	174546	174004	174271	176664	174866
208	194832	194661	197088	200566	192602

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
24	8214.13	23.95	23.90 - 24.10	
59	196766.00	59.00	58.90 - 59.10	
115	328820.95	115.05	114.90 - 115.10	
208	367047.45	208.05	207.90 - 208.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
24	0.64	0.784	0.900	
59	0.62	0.741	0.900	
115	0.55	0.714	0.900	
208	0.55	0.791	0.900	

Integration Time [sec] 0.1

Acquisition Time [sec] 122.96

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.70 L/min	Makeup Gas	0.35 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	8.2 V	Deflect	0.0 V
Extract 2	-155.0 V	Cell Entrance	-40 V	Plate Bias	-55 V
Omega Bias	-75 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	3.0 V
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US EPA Tune Check Report

He Flow	4.3 mL/min	OctP Bias	-18.0 V
H2 Flow	0.0 mL/min	OctP RF	200 V

QP Parameters

Mass Gain	123	Axis Gain	0.9993	QP Bias	-15.0 V
Mass Offset	125	Axis Offset	0.02		

Hardware Settings

Torch

Torch H	0.2 mm	Torch V	0.6 mm
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EM

Discriminator	3.1 mV	Analog HV	2150 V	Pulse HV	1235 V
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Internal Standards

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: ICP-MS 2 AGILENT 7850 230824B

CCV Name: ICV

Run No: 86122

CCV SeqNo: 1797181

Lab File ID (Standard): 018_ICV.d

Date Analyzed: 8/24/2023

Instrument ID: ICP-MS 2 Agilent 7850

Time Analyzed: 13:31

GC Column: ID (mm):

Length (M):

	IS1 Lithium 6 AREA #	RT #	IS2 Scandium AREA #	RT #	IS3 Germanium AREA #	RT #	IS4 Yttrium AREA #	RT #
12 HOUR STD	2626.91	0.000	183616.67	0.000	140187.71	0.000	0	0.000
UPPER LIMIT	13134.55	1.000	918083.35	1.000	700938.55	1.000	0	1.000
LOWER LIMIT	788	-1.000	55085	-1.000	42056	-1.000	0	-1.000
SAMPLE NO.								
01 ICSA	44562.6 *	0	187547	0	142255	0	0	0

IS1 Lithium 6 = Lithium 6

IS3 Germanium = Germanium

IS2 Scandium = Scandium

IS4 Yttrium = Yttrium (89)

AREA UPPER LIMIT = +400% of internal standard area

AREA LOWER LIMIT = -70% of internal standard area

RT UPPER LIMIT = +1.00 minutes of internal standard RT

RT LOWER LIMIT = -1.00 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: ICP-MS 2 AGILENT 7850 230824B

CCV Name: ICV

Run No: 86122

CCV SeqNo: 1797181

Lab File ID (Standard): 018_ICV.d

Date Analyzed: 8/24/2023

Instrument ID: ICP-MS 2 Agilent 7850

Time Analyzed: 13:31

GC Column: ID (mm):

Length (M):

	IS5 Indium AREA #	RT #	IS6 Bismuth AREA #	RT #				
12 HOUR STD	1654837.25	0.000	3101224.5	0.000				
UPPER LIMIT	8274186.25	1.000	15506122.5	1.000				
LOWER LIMIT	496451	-1.000	930367	-1.000				
SAMPLE NO.								
01 ICSA	1.63269e+006	0	2.98027e+006	0				

IS5 Indium = Indium

IS6 Bismuth = Bismuth

AREA UPPER LIMIT = +400% of internal standard area

AREA LOWER LIMIT = -70% of internal standard area

RT UPPER LIMIT = +1.00 minutes of internal standard RT

RT LOWER LIMIT = -1.00 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: ICP-MS 2 AGILENT 7850 230824B

CCV Name: CCV-41299A

Run No: 86122

CCV SeqNo: 1797200

Lab File ID (Standard): 037_CCV.d

Date Analyzed: 8/24/2023

Instrument ID: ICP-MS 2 Agilent 7850

Time Analyzed: 14:28

GC Column: ID (mm):

Length (M):

	IS1 Lithium 6		IS2 Scandium		IS3 Germanium		IS4 Yttrium	
	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	32473.84	0.000	189330.77	0.000	144380.63	0.000	0	0.000
UPPER LIMIT	162369.2	1.000	946653.85	1.000	721903.15	1.000	0	1.000
LOWER LIMIT	9742	-1.000	56799	-1.000	43314	-1.000	0	-1.000
SAMPLE NO.								
01	CCB-41299A	33085.5	0	188072	0	144429	0	0
02	MB-41299	35540.5	0	191586	0	144837	0	0
03	LCS-41299	36679.3	0	193295	0	144051	0	0
04	2308286-001A	36052.6	0	199790	0	149057	0	0
05	2308286-001ADIL	35850.6	0	188762	0	145320	0	0
06	2308286-001AMS	36616.1	0	197428	0	149512	0	0
07	2308286-001AMSD	36573.7	0	197604	0	149704	0	0
08	2308286-001APDS	37180.7	0	196370	0	150474	0	0
09	2308286-003A	37922.6	0	201506	0	148619	0	0
10	2308286-005A	36532	0	203954	0	151346	0	0
11	2308286-007A	37250	0	216077	0	151553	0	0

IS1 Lithium 6 = Lithium 6

IS3 Germanium = Germanium

IS2 Scandium = Scandium

IS4 Yttrium = Yttrium (89)

AREA UPPER LIMIT = +400% of internal standard area

AREA LOWER LIMIT = -70% of internal standard area

RT UPPER LIMIT = +1.00 minutes of internal standard RT

RT LOWER LIMIT = -1.00 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: ICP-MS 2 AGILENT 7850 230824B

CCV Name: CCV-41299A

Run No: 86122

CCV SeqNo: 1797200

Lab File ID (Standard): 037_CCV.d

Date Analyzed: 8/24/2023

Instrument ID: ICP-MS 2 Agilent 7850

Time Analyzed: 14:28

GC Column: ID (mm):

Length (M):

	IS5 Indium AREA #	RT #	IS6 Bismuth AREA #	RT #				
12 HOUR STD	1659655.26	0.000	3121872.42	0.000				
UPPER LIMIT	8298276.3	1.000	15609362.1	1.000				
LOWER LIMIT	497897	-1.000	936562	-1.000				
SAMPLE NO.								
01 CCB-41299A	1.66333e+006	0	3.05574e+006	0				
02 MB-41299	1.64716e+006	0	3.08285e+006	0				
03 LCS-41299	1.72298e+006	0	3.11612e+006	0				
04 2308286-001A	1.5947e+006	0	3.04675e+006	0				
05 2308286-001ADIL	1.64808e+006	0	3.08275e+006	0				
06 2308286-001AMS	1.6364e+006	0	3.00324e+006	0				
07 2308286-001AMSD	1.62992e+006	0	3.05589e+006	0				
08 2308286-001APDS	1.6413e+006	0	2.97759e+006	0				
09 2308286-003A	1.65438e+006	0	3.1191e+006	0				
10 2308286-005A	1.66641e+006	0	2.99273e+006	0				
11 2308286-007A	1.6931e+006	0	2.98299e+006	0				

IS5 Indium = Indium

IS6 Bismuth = Bismuth

AREA UPPER LIMIT = +400% of internal standard area

AREA LOWER LIMIT = -70% of internal standard area

RT UPPER LIMIT = +1.00 minutes of internal standard RT

RT LOWER LIMIT = -1.00 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: ICP-MS 2 AGILENT 7850 230824B

CCV Name: CCV-41299B

Run No: 86122

CCV SeqNo: 1797212

Lab File ID (Standard): 049_CCV.d

Date Analyzed: 8/24/2023

Instrument ID: ICP-MS 2 Agilent 7850

Time Analyzed: 14:57

GC Column: ID (mm):

Length (M):

	IS1 Lithium 6		IS2 Scandium		IS3 Germanium		IS4 Yttrium	
	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	36284.49	0.000	195099.4	0.000	148344.43	0.000	0	0.000
UPPER LIMIT	181422.45	1.000	975497	1.000	741722.15	1.000	0	1.000
LOWER LIMIT	10885	-1.000	58530	-1.000	44503	-1.000	0	-1.000
SAMPLE NO.								
01	CCB-41299B	36983.8	0	194876	0	148854	0	0
02	2308286-008A	36810.4	0	210834	0	150941	0	0
03	2308286-009A	37107.2	0	205997	0	152008	0	0
04	2308286-010A	36532.7	0	202331	0	153059	0	0
05	2308286-011A	35558.1	0	201453	0	150920	0	0
06	2308286-012A	35978.4	0	197631	0	150224	0	0
07	2308286-013A	35120.3	0	197500	0	151360	0	0
08	2308297-001A	34289.6	0	198521	0	144406	0	0
09	2308298-001A	34548.9	0	191123	0	144130	0	0
10	2308299-005A	35226.2	0	226638	0	149537	0	0
11	2308312-001A	35548.9	0	221117	0	148082	0	0

IS1 Lithium 6 = Lithium 6

IS3 Germanium = Germanium

IS2 Scandium = Scandium

IS4 Yttrium = Yttrium (89)

AREA UPPER LIMIT = +400% of internal standard area

AREA LOWER LIMIT = -70% of internal standard area

RT UPPER LIMIT = +1.00 minutes of internal standard RT

RT LOWER LIMIT = -1.00 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: ICP-MS 2 AGILENT 7850 230824B

CCV Name: CCV-41299B

Run No: 86122

CCV SeqNo: 1797212

Lab File ID (Standard): 049_CCV.d

Date Analyzed: 8/24/2023

Instrument ID: ICP-MS 2 Agilent 7850

Time Analyzed: 14:57

GC Column: ID (mm):

Length (M):

	IS5 Indium AREA #	RT #	IS6 Bismuth AREA #	RT #				
12 HOUR STD	1619318.51	0.000	3113391.08	0.000				
UPPER LIMIT	8096592.55	1.000	15566955.4	1.000				
LOWER LIMIT	485796	-1.000	934017	-1.000				
SAMPLE NO.								
01 CCB-41299B	1.75353e+006	0	2.98506e+006	0				
02 2308286-008A	1.63105e+006	0	3.07548e+006	0				
03 2308286-009A	1.73879e+006	0	2.91095e+006	0				
04 2308286-010A	1.63828e+006	0	3.10925e+006	0				
05 2308286-011A	1.62613e+006	0	2.92736e+006	0				
06 2308286-012A	1.63067e+006	0	2.9627e+006	0				
07 2308286-013A	1.62349e+006	0	3.0364e+006	0				
08 2308297-001A	1.67987e+006	0	3.16251e+006	0				
09 2308298-001A	1.67256e+006	0	3.15287e+006	0				
10 2308299-005A	1.65183e+006	0	3.01343e+006	0				
11 2308312-001A	1.66353e+006	0	2.98698e+006	0				

IS5 Indium = Indium

IS6 Bismuth = Bismuth

AREA UPPER LIMIT = +400% of internal standard area

AREA LOWER LIMIT = -70% of internal standard area

RT UPPER LIMIT = +1.00 minutes of internal standard RT

RT LOWER LIMIT = -1.00 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: ICP-MS 2 AGILENT 7850 230824B

CCV Name: CCV-41299C

Run No: 86122

CCV SeqNo: 1797224

Lab File ID (Standard): 061_CCV.d

Date Analyzed: 8/24/2023

Instrument ID: ICP-MS 2 Agilent 7850

Time Analyzed: 15:25

GC Column: ID (mm):

Length (M):

	IS1 Lithium 6		IS2 Scandium		IS3 Germanium		IS4 Yttrium	
	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	35251.47	0.000	192999.63	0.000	147915.39	0.000	0	0.000
UPPER LIMIT	176257.35	1.000	964998.15	1.000	739576.95	1.000	0	1.000
LOWER LIMIT	10575	-1.000	57900	-1.000	44375	-1.000	0	-1.000
SAMPLE NO.								
01 CCB-41299C	34482.7	0	189692	0	146627	0	0	0
02 2308316-003A	35716.4	0	228741	0	148931	0	0	0

IS1 Lithium 6 = Lithium 6

IS3 Germanium = Germanium

IS2 Scandium = Scandium

IS4 Yttrium = Yttrium (89)

AREA UPPER LIMIT = +400% of internal standard area

AREA LOWER LIMIT = -70% of internal standard area

RT UPPER LIMIT = +1.00 minutes of internal standard RT

RT LOWER LIMIT = -1.00 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: ICP-MS 2 AGILENT 7850 230824B

CCV Name: CCV-41299C

Run No: 86122

CCV SeqNo: 1797224

Lab File ID (Standard): 061_CCV.d

Date Analyzed: 8/24/2023

Instrument ID: ICP-MS 2 Agilent 7850

Time Analyzed: 15:25

GC Column: ID (mm):

Length (M):

	IS5 Indium AREA #	RT #	IS6 Bismuth AREA #	RT #				
12 HOUR STD	1679078.38	0.000	3191439.17	0.000				
UPPER LIMIT	8395391.9	1.000	15957195.85	1.000				
LOWER LIMIT	503724	-1.000	957432	-1.000				
SAMPLE NO.								
01 CCB-41299C	1.66524e+006	0	2.95967e+006	0				
02 2308316-003A	1.60765e+006	0	2.97274e+006	0				

IS5 Indium = Indium

IS6 Bismuth = Bismuth

AREA UPPER LIMIT = +400% of internal standard area

AREA LOWER LIMIT = -70% of internal standard area

RT UPPER LIMIT = +1.00 minutes of internal standard RT

RT LOWER LIMIT = -1.00 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: ICP-MS 2 AGILENT 7850 230824B

CCV Name: CCV-41299D

Run No: 86122

CCV SeqNo: 1797227

Lab File ID (Standard): 064_CCV.d

Date Analyzed: 8/24/2023

Instrument ID: ICP-MS 2 Agilent 7850

Time Analyzed: 15:33

GC Column: ID (mm):

Length (M):

	IS1 Lithium 6 AREA #	RT #	IS2 Scandium AREA #	RT #	IS3 Germanium AREA #	RT #	IS4 Yttrium AREA #	RT #
12 HOUR STD	35197.77	0.000	191783.87	0.000	146686.17	0.000	0	0.000
UPPER LIMIT	175988.85	1.000	958919.35	1.000	733430.85	1.000	0	1.000
LOWER LIMIT	10559	-1.000	57535	-1.000	44006	-1.000	0	-1.000
SAMPLE NO.								
01 CCB-41299D	34842.7	0	189480	0	144637	0	0	0

IS1 Lithium 6 = Lithium 6

IS3 Germanium = Germanium

IS2 Scandium = Scandium

IS4 Yttrium = Yttrium (89)

AREA UPPER LIMIT = +400% of internal standard area

AREA LOWER LIMIT = -70% of internal standard area

RT UPPER LIMIT = +1.00 minutes of internal standard RT

RT LOWER LIMIT = -1.00 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: ICP-MS 2 AGILENT 7850 230824B CCV Name: CCV-41299D
 Run No: 86122 CCV SeqNo: 1797227
 Lab File ID (Standard): 064_CCV.d Date Analyzed: 8/24/2023
 Instrument ID: ICP-MS 2 Agilent 7850 Time Analyzed: 15:33
 GC Column: ID (mm): Length (M):

	IS5 Indium AREA #	RT #	IS6 Bismuth AREA #	RT #				
12 HOUR STD	1677596.88	0.000	3098700.25	0.000				
UPPER LIMIT	8387984.4	1.000	15493501.25	1.000				
LOWER LIMIT	503279	-1.000	929610	-1.000				
SAMPLE NO.								
01 CCB-41299D	1.68278e+006	0	3.0984e+006	0				

IS5 Indium = Indium
 IS6 Bismuth = Bismuth

AREA UPPER LIMIT = +400% of internal standard area
 AREA LOWER LIMIT = -70% of internal standard area
 RT UPPER LIMIT = +1.00 minutes of internal standard RT
 RT LOWER LIMIT = -1.00 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

DATA SET for Review - Deliverable Requirements

Volatile Organic Compounds by EPA Method 8260D

Fremont Analytical Work Order No. 2308316

GeoEngineers

Project Name: S Jackson Street

Project Number: 24504-001-01

This data set contains the following:

- Analytical Sequence Summary
- Calibration Information
- Tune Information
- Internal Standards Report

Data Directory: D:\GC-19\Data\082123\

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) 082145.D	8260.M			
No data found			0.000	N/A
<hr/>				
2) 082101.D	8260.M			
R	O-VOC-S		1.000	21 Aug 2023 09:39
<hr/>				
3) 082102.D	8260.M			
RT UPDATE	O-VOC-S	2	1.000	21 Aug 2023 10:09
<hr/>				
4) 082103.D	8260.M			
R	O-VOC-S		1.000	21 Aug 2023 10:38
<hr/>				
5) 082104.D	8260.M			
R	O-VOC-S		1.000	21 Aug 2023 11:07
<hr/>				
6) 082105.D	8260.M			
R	O-VOC-S		1.000	21 Aug 2023 11:36
<hr/>				
7) 082106.D	8260.M			
R	O-VOC-S		1.000	21 Aug 2023 12:05
<hr/>				
8) 082107.D	8260.M			
R	O-VOC-S		1.000	21 Aug 2023 12:34
<hr/>				
9) 082108.D	8260.M			
R	O-VOC-S		1.000	21 Aug 2023 13:02
<hr/>				
10) 082109.D	8260.M			
R	O-VOC-S		1.000	21 Aug 2023 13:31
<hr/>				
11) 082110.D	8260.M			
R	O-VOC-S		1.000	21 Aug 2023 14:00
<hr/>				
12) 082111.D	8260.M			
R	O-VOC-S		1.000	21 Aug 2023 14:29
<hr/>				
13) 082112.D	8260.M			
R	O-VOC-S		1.000	21 Aug 2023 14:58
<hr/>				
14) 082113.D	8260.M			
R	O-VOC-S		1.000	21 Aug 2023 15:27
<hr/>				
15) 082114.D	8260.M			
R	O-VOC-S		1.000	21 Aug 2023 15:56
<hr/>				
16) 082115.D	8260.M			
R	O-VOC-S		1.000	21 Aug 2023 16:25
<hr/>				
17) 082116.D	8260.M			
R	O-VOC-S		1.000	21 Aug 2023 16:54
<hr/>				
18) 082117.D	8260.M			
R	O-VOC-S		1.000	21 Aug 2023 17:23
<hr/>				
19) 082118.D	8260.M			
R	O-VOC-S		1.000	21 Aug 2023 17:52
<hr/>				
20) 082119.D	8260.M			
R	O-VOC-S		1.000	21 Aug 2023 18:20
<hr/>				
21) 082120.D	8260.M			
VOC S CAL 1	O-VOC-S	1	1.000	21 Aug 2023 18:51

22)	082121.D	8260.M					
VOC S	CAL 2	O-VOC-S	2	1.000	21 Aug 2023	19:21	
23)	082122.D	8260.M					
VOC S	CAL 3	O-VOC-S	3	1.000	21 Aug 2023	19:51	
24)	082123.D	8260.M					
VOC S	CAL 4	O-VOC-S	4	1.000	21 Aug 2023	20:21	
25)	082124.D	8260.M					
VOC S	CAL 5	O-VOC-S	5	1.000	21 Aug 2023	20:51	
26)	082125.D	8260.M					
VOC S	CAL 6	O-VOC-S	6	1.000	21 Aug 2023	21:21	
27)	082126.D	8260.M					
VOC S	CAL 7	O-VOC-S	7	1.000	21 Aug 2023	21:52	
28)	082127.D	8260.M					
VOC S	CAL 8	O-VOC-S	8	1.000	21 Aug 2023	22:22	
29)	082128.D	8260.M					
R		O-VOC-S		1.000	21 Aug 2023	22:51	
30)	082129.D	8260.M					
R		O-VOC-S		1.000	21 Aug 2023	23:19	
31)	082130.D	8260.M					
ICB		O-VOC-S	9	1.000	21 Aug 2023	23:50	
32)	082131.D	8260.M					
VOC S	ICV	O-VOC-S	10	1.000	22 Aug 2023	00:20	
33)	082132.D	8260.M					
R		O-VOC-S		1.000	22 Aug 2023	00:49	
34)	082133.D	8260.M					
R		O-VOC-S		1.000	22 Aug 2023	01:17	
35)	082134.D	8260.M					
R		O-VOC-S		1.000	22 Aug 2023	01:46	
36)	082135.D	8260.M					
GX	CAL 1	O-VOC-GX-S	11	1.000	22 Aug 2023	02:17	
37)	082136.D	8260.M					
GX	CAL 2	O-VOC-GX-S	12	1.000	22 Aug 2023	02:47	
38)	082137.D	8260.M					
GX	CAL 3	O-VOC-GX-S	13	1.000	22 Aug 2023	03:17	
39)	082138.D	8260.M					
GX	CAL 4	O-VOC-GX-S	14	1.000	22 Aug 2023	03:47	
40)	082139.D	8260.M					
GX	CAL 5	O-VOC-GX-S	15	1.000	22 Aug 2023	04:17	
41)	082140.D	8260.M					
GX	CAL 6	O-VOC-GX-S	16	1.000	22 Aug 2023	04:47	
42)	082141.D	8260.M					
GX	CAL 7	O-VOC-GX-S	17	1.000	22 Aug 2023	05:18	
43)	082142.D	8260.M					
R		O-VOC-GX-S		1.000	22 Aug 2023	05:46	
44)	082143.D	8260.M					
R		O-VOC-GX-S		1.000	22 Aug 2023	06:15	
45)	082144.D	8260.M					

ICB	O-VOC-GX-S	18	1.000	22 Aug 2023	06:45

46) 082202.D	8260.M				
VOC S CCV A	O-VOC-S	1	1.000	22 Aug 2023	09:04

47) 082203.D	8260.M				
VOC W CCV A	O-VOC-W	2	1.000	22 Aug 2023	09:34

48) 082204.D	8260.M				
GX CCV A	O-VOC-GX-S	3	1.000	22 Aug 2023	10:04

49) 082205.D	8260.M				
TBA CRM	O-VOC-S	4	1.000	22 Aug 2023	10:34

Data Directory: D:\GC-19\Data\082223\

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) 082319.D	8260.M			
No data found			0.000	N/A
2) 082201.D	8260.M			
R	O-VOC-S		1.000	22 Aug 2023 08:33
3) 082202.D	8260.M			
VOC S CCV A	O-VOC-S	1	1.000	22 Aug 2023 09:04
4) 082203.D	8260.M			
VOC W CCV A	O-VOC-W	2	1.000	22 Aug 2023 09:34
5) 082204.D	8260.M			
GX CCV A	O-VOC-GX-S	3	1.000	22 Aug 2023 10:04
6) 082205.D	8260.M			
TBA CRM	O-VOC-S	4	1.000	22 Aug 2023 10:34
7) 082206.D	8260.M			
R	O-VOC-S		1.000	22 Aug 2023 11:03
8) 082207.D	8260.M			
R	O-VOC-S		1.000	22 Aug 2023 11:44
9) 082208.D	8260.M			
R	O-VOC-S		1.000	22 Aug 2023 12:13
10) 082209.D	8260.M			
R	O-VOC-S		1.000	22 Aug 2023 12:42
11) 082210.D	8260.M			
R	O-VOC-S		1.000	22 Aug 2023 13:10
12) 082211.D	8260.M			
R	O-VOC-S		1.000	22 Aug 2023 13:39
13) 082212.D	8260.M			
R	O-VOC-S		1.000	22 Aug 2023 14:08
14) 082213.D	8260.M			
R	O-VOC-S		1.000	22 Aug 2023 14:37
15) 082214.D	8260.M			
R	O-VOC-S		1.000	22 Aug 2023 15:06
16) 082215.D	8260.M			
R	O-VOC-S		1.000	22 Aug 2023 15:35
17) 082216.D	8260.M			
R	O-VOC-S		1.000	22 Aug 2023 16:04
18) 082217.D	8260.M			
R	O-VOC-S		1.000	22 Aug 2023 16:55
19) 082218.D	8260.M			
VOC W ICAL 1	O-VOC-W	20	1.000	22 Aug 2023 17:25
20) 082219.D	8260.M			
VOC W ICAL 2	O-VOC-W	21	1.000	22 Aug 2023 17:55
21) 082220.D	8260.M			
VOC W ICAL 3	O-VOC-W	22	1.000	22 Aug 2023 18:25

22)	082221.D	8260.M					
VOC W	ICAL 4	O-VOC-W	23	1.000	22 Aug 2023	18:56	
23)	082222.D	8260.M					
VOC W	ICAL 5	O-VOC-W	24	1.000	22 Aug 2023	19:26	
24)	082223.D	8260.M					
VOC W	ICAL 6	O-VOC-W	25	1.000	22 Aug 2023	19:56	
25)	082224.D	8260.M					
VOC W	ICAL 7	O-VOC-W	26	1.000	22 Aug 2023	20:26	
26)	082225.D	8260.M					
VOC W	ICAL 8	O-VOC-W	27	1.000	22 Aug 2023	20:56	
27)	082226.D	8260.M					
VOC W	ICAL 9	O-VOC-W	28	1.000	22 Aug 2023	21:26	
28)	082227.D	8260.M					
R		O-VOC-W		1.000	22 Aug 2023	21:55	
29)	082228.D	8260.M					
R		O-VOC-W		1.000	22 Aug 2023	22:24	
30)	082229.D	8260.M					
R		O-VOC-W		1.000	22 Aug 2023	22:53	
31)	082230.D	8260.M					
VOC W	ICB	O-VOC-W	29	1.000	22 Aug 2023	23:23	
32)	082231.D	8260.M					
VOC W	ICV	O-VOC-W	30	1.000	22 Aug 2023	23:53	
33)	082232.D	8260.M					
VOC S	CCV AA	O-VOC-S	31	1.000	23 Aug 2023	00:23	
34)	082233.D	8260.M					
GX	CCV AA	O-VOC-GX-S	57	1.000	23 Aug 2023	00:54	
35)	082234.D	8260.M					
R		O-VOC-GX-S		1.000	23 Aug 2023	01:22	
36)	082235.D	8260.M					
MB-41276		O-VOC-GX-S	32	1.000	23 Aug 2023	01:53	
37)	082236.D	8260.M					
2308300-001B		O-VOC-GX-S	33	1.000	23 Aug 2023	02:23	
38)	082237.D	8260.M					
R		O-VOC-GX-S		1.000	23 Aug 2023	02:52	
39)	082238.D	8260.M					
2308233-001B		O-VOC-GX-S	34	1.000	23 Aug 2023	03:22	
40)	082239.D	8260.M					
2308233-002B		O-VOC-GX-S	35	1.000	23 Aug 2023	03:52	
41)	082240.D	8260.M					
2308233-002BDUP		O-VOC-GX-S	36	1.000	23 Aug 2023	04:22	
42)	082241.D	8260.M					
2308233-003B		O-VOC-GX-S	37	1.000	23 Aug 2023	04:52	
43)	082242.D	8260.M					
2308263-001B		O-VOC-GX-S	38	1.000	23 Aug 2023	05:22	
44)	082243.D	8260.M					
2308263-002B		O-VOC-GX-S	39	1.000	23 Aug 2023	05:53	
45)	082244.D	8260.M					

2308263-002BDUP	O-VOC-GX-S	40	1.000	23 Aug 2023	06:23
46) 082245.D	8260.M				
2308263-003B	O-VOC-GX-S	41	1.000	23 Aug 2023	06:53
47) 082246.D	8260.M				
2308263-004B	O-VOC-GX-S	59	1.000	23 Aug 2023	07:23
48) 082247.D	8260.M				
2308273-001B	O-VOC-GX-S	42	1.000	23 Aug 2023	07:53
49) 082248.D	8260.M				
2308273-002B	O-VOC-GX-S	43	1.000	23 Aug 2023	08:23
50) 082249.D	8260.M				
2308273-003B	O-VOC-GX-S	44	1.000	23 Aug 2023	08:54
51) 082250.D	8260.M				
2308277-001A	O-VOC-W	60	1.000	23 Aug 2023	09:24
52) 082251.D	8260.M				
2308277-002A 200x	O-VOC-W	61	1.000	23 Aug 2023	09:54
53) 082252.D	8260.M				
2308233-001BMS VOC	O-VOC-GX-S	45	1.000	23 Aug 2023	10:23
54) 082255.D	8260.M				
2308277-002ADUP 200x	O-VOC-W	62	1.000	23 Aug 2023	10:53
55) 082256.D	8260.M				
R	O-VOC-GX-S		1.000	23 Aug 2023	11:22
56) 082257.D	8260.M				
VOC S CCV B	O-VOC-GX-S	47	1.000	23 Aug 2023	11:52
57) 082258.D	8260.M				
GX CCV B	O-VOC-GX-S	48	1.000	23 Aug 2023	12:22
58) 082259.D	8260.M				
R	O-VOC-GX-S		1.000	23 Aug 2023	12:51
59) 082260.D	8260.M				
2308299-001B	O-VOC-GX-S	49	1.000	23 Aug 2023	13:21
60) 082261.D	8260.M				
2308299-002B	O-VOC-GX-S	50	1.000	23 Aug 2023	13:51
61) 082262.D	8260.M				
2308299-003B	O-VOC-GX-S	51	1.000	23 Aug 2023	14:22
62) 082263.D	8260.M				
2308299-004B	O-VOC-GX-S	52	1.000	23 Aug 2023	14:52
63) 082264.D	8260.M				
R	O-VOC-S	53	1.000	23 Aug 2023	15:22
64) 082265.D	8260.M				
2308299-005B	O-VOC-GX-S	65	1.000	23 Aug 2023	15:52
65) 082266.D	8260.M				
2308239-001B	O-VOC-S	63	1.000	23 Aug 2023	16:22
66) 082267.D	8260.M				
2308239-002B	O-VOC-S	64	1.000	23 Aug 2023	16:57
67) 082268.D	8260.M				
R	O-VOC-S		1.000	23 Aug 2023	17:26
68) 082269.D	8260.M				
R	O-VOC-S		1.000	23 Aug 2023	17:55

69)	082270.D		8260.M						
R		O-VOC-S		1.000	23 Aug 2023	18:24			
70)	082271.D		8260.M						
2308233-001BMS	VOC	O-VOC-S	45	1.000	23 Aug 2023	18:54			
71)	082272.D		8260.M						
2308263-001BMS	GX	O-VOC-GX-S	46	1.000	23 Aug 2023	19:24			
72)	082273.D		8260.M						
R		O-VOC-S		1.000	23 Aug 2023	19:53			
73)	082274.D		8260.M						
R		O-VOC-S		1.000	23 Aug 2023	20:22			
74)	082275.D		8260.M						
VOC S CCV C		O-VOC-S	58	1.000	23 Aug 2023	20:52			
75)	082276.D		8260.M						
GX CCV C		O-VOC-GX-S	54	1.000	23 Aug 2023	21:22			
76)	082277.D		8260.M						
VOC W CCV B		O-VOC-W	66	1.000	23 Aug 2023	21:52			
77)	082278.D		8260.M						
R		O-VOC-W		1.000	23 Aug 2023	22:21			
78)	082279.D		8260.M						
2308302-001A		O-VOC-W	67	1.000	23 Aug 2023	22:51			
79)	082280.D		8260.M						
2308302-001ADUP		O-VOC-W	68	1.000	23 Aug 2023	23:21			
80)	082281.D		8260.M						
2308302-002A		O-VOC-W	69	1.000	23 Aug 2023	23:52			
81)	082282.D		8260.M						
2308302-003A		O-VOC-W	70	1.000	24 Aug 2023	00:22			
82)	082283.D		8260.M						
2308302-004A		O-VOC-W	71	1.000	24 Aug 2023	00:52			
83)	082284.D		8260.M						
2308302-005A		O-VOC-W	72	1.000	24 Aug 2023	01:22			
84)	082285.D		8260.M						
2308302-006A		O-VOC-W	73	1.000	24 Aug 2023	01:52			
85)	082286.D		8260.M						
2308302-007A		O-VOC-W	74	1.000	24 Aug 2023	02:23			
86)	082287.D		8260.M						
2308302-008A		O-VOC-W	75	1.000	24 Aug 2023	02:53			
87)	082288.D		8260.M						
2308302-009A		O-VOC-W	76	1.000	24 Aug 2023	03:23			
88)	082289.D		8260.M						
2308302-010A		O-VOC-W	77	1.000	24 Aug 2023	03:53			
89)	082290.D		8260.M						
2308302-011A		O-VOC-W	78	1.000	24 Aug 2023	04:23			
90)	082291.D		8260.M						
2308302-012A		O-VOC-W	79	1.000	24 Aug 2023	04:54			
91)	082292.D		8260.M						
2308302-002AMS	VOC	O-VOC-W	80	1.000	24 Aug 2023	05:24			

92)	082293.D	8260.M					
2308302-004AMS GX	O-VOC-GX-W		81	1.000	24 Aug 2023	05:54	
93)	082294.D	8260.M					
R	O-VOC-GX-W			1.000	24 Aug 2023	06:23	
94)	082295.D	8260.M					
VOC S CCV A	O-VOC-S		1	1.000	24 Aug 2023	06:53	
95)	082296.D	8260.M					
GX CCV D	O-VOC-GX-W		82	1.000	24 Aug 2023	07:23	
96)	082297.D	8260.M					
R	O-VOC-GX-W			1.000	24 Aug 2023	07:52	
97)	082298.D	8260.M					
MB S	O-VOC-S		2	1.000	24 Aug 2023	08:22	
98)	082299.D	8260.M					
2308312-001B	O-VOC-S		3	1.000	24 Aug 2023	08:52	
99)	082300.D	8260.M					
2308316-002B	O-VOC-S		4	1.000	24 Aug 2023	09:23	
100)	082301.D	8260.M					
R	O-VOC-S			1.000	24 Aug 2023	09:51	
101)	082302.D	8260.M					
2308239-001B 100X	O-VOC-S		6	1.000	24 Aug 2023	10:22	
102)	082303.D	8260.M					
2308239-002B 100X	O-VOC-S		7	1.000	24 Aug 2023	10:52	
103)	082304.D	8260.M					
2308299-004B 50X	O-VOC-S		8	1.000	24 Aug 2023	11:22	
104)	082305.D	8260.M					
2308299-005B 50X	O-VOC-S		9	1.000	24 Aug 2023	11:52	
105)	082306.D	8260.M					
2308239-001B 50X	O-VOC-S		10	1.000	24 Aug 2023	12:21	
106)	082307.D	8260.M					
R	O-VOC-S			1.000	24 Aug 2023	12:51	
107)	082312.D	8260.M					
2308239-001B 50X r..	O-VOC-S		10	1.000	24 Aug 2023	13:20	
108)	082313.D	8260.M					
2308239-001B 50X r..	O-VOC-S		10	1.000	24 Aug 2023	13:52	
109)	082314.D	8260.M					
2308316-002BDUP	O-VOC-S		11	1.000	24 Aug 2023	14:22	
110)	082315.D	8260.M					
2308239-001B 10X	O-VOC-S		12	1.000	24 Aug 2023	14:52	
111)	082316.D	8260.M					
2308239-002B 10X	O-VOC-S		13	1.000	24 Aug 2023	15:23	
112)	082317.D	8260.M					
2308239-005B 10X	O-VOC-S		14	1.000	24 Aug 2023	15:53	
113)	082318.D	8260.M					
GX CCV F	O-VOC-S		15	1.000	24 Aug 2023	16:23	



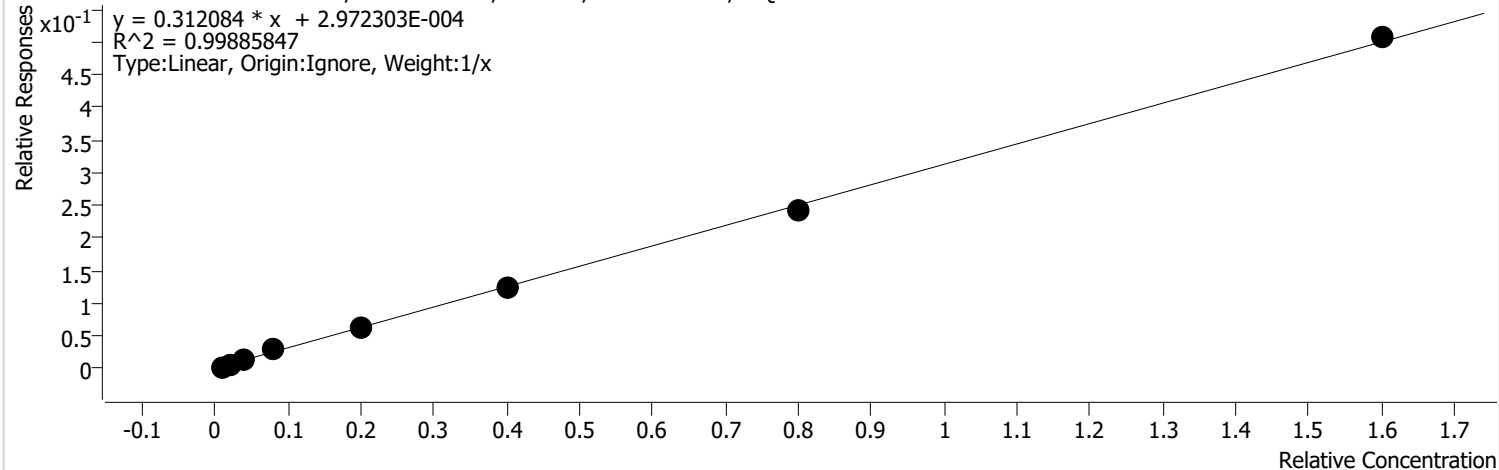
Calibration

Calibration Report

Batch Path	D:\GC-19\Data\082123\QuantResults\VOC S CAL.batch.bin		
Analysis Time	8/22/2023 3:13 PM	Analyst Name	FA\GC19
Report Time	8/22/2023 3:15:40 PM	Reporter Name	FA\GC19
Last Calib Update	8/22/2023 12:55 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Dichlorodifluoromethane %RSE = 10.4

Dichlorodifluoromethane - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



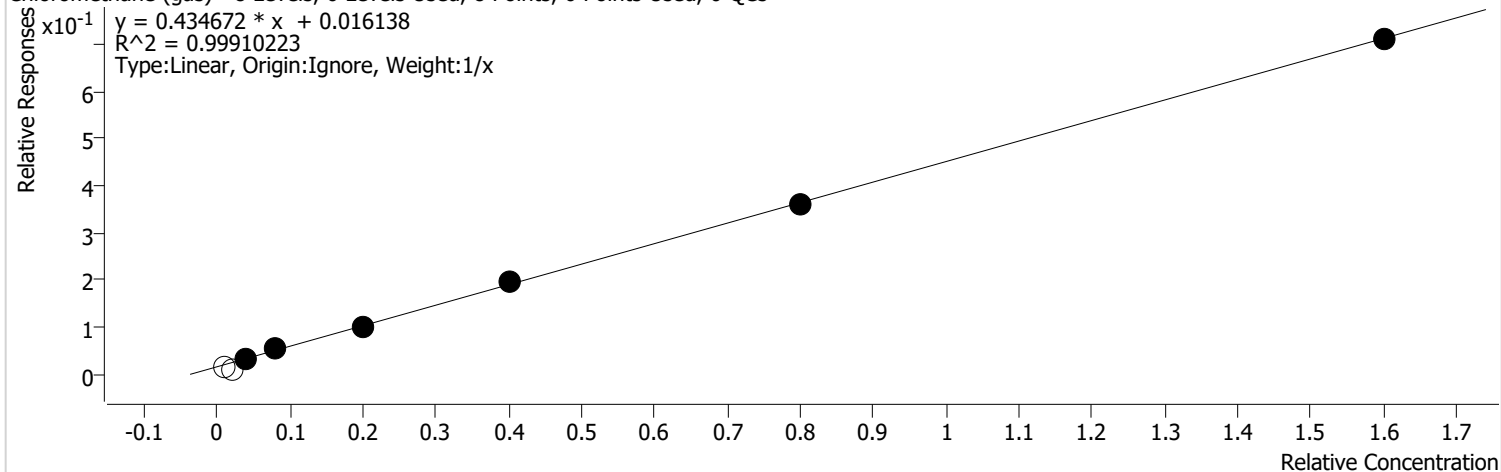
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D:\GC-19\Data\082123\082121.D	Calibration	2	x	5249	0.5000	0.3096	
D:\GC-19\Data\082123\082122.D	Calibration	3	x	12662	1.0000	0.3681	
D:\GC-19\Data\082123\082123.D	Calibration	4	x	23545	2.0000	0.3470	
D:\GC-19\Data\082123\082124.D	Calibration	5	x	53874	5.0000	0.3120	
D:\GC-19\Data\082123\082125.D	Calibration	6	x	110308	10.0000	0.3088	
D:\GC-19\Data\082123\082126.D	Calibration	7	x	218922	20.0000	0.3021	
D:\GC-19\Data\082123\082127.D	Calibration	8	x	476313	40.0000	0.3163	

Calibration Report

Batch Path	D:\GC-19\Data\082123\QuantResults\VOC S CAL.batch.bin		
Analysis Time	8/22/2023 3:13 PM	Analyst Name	FA\GC19
Report Time	8/22/2023 3:15:40 PM	Reporter Name	FA\GC19
Last Calib Update	8/22/2023 12:55 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Chloromethane (gas) %RSE = 5.9

Chloromethane (gas) - 8 Levels, 6 Levels Used, 8 Points, 6 Points Used, 0 QCs

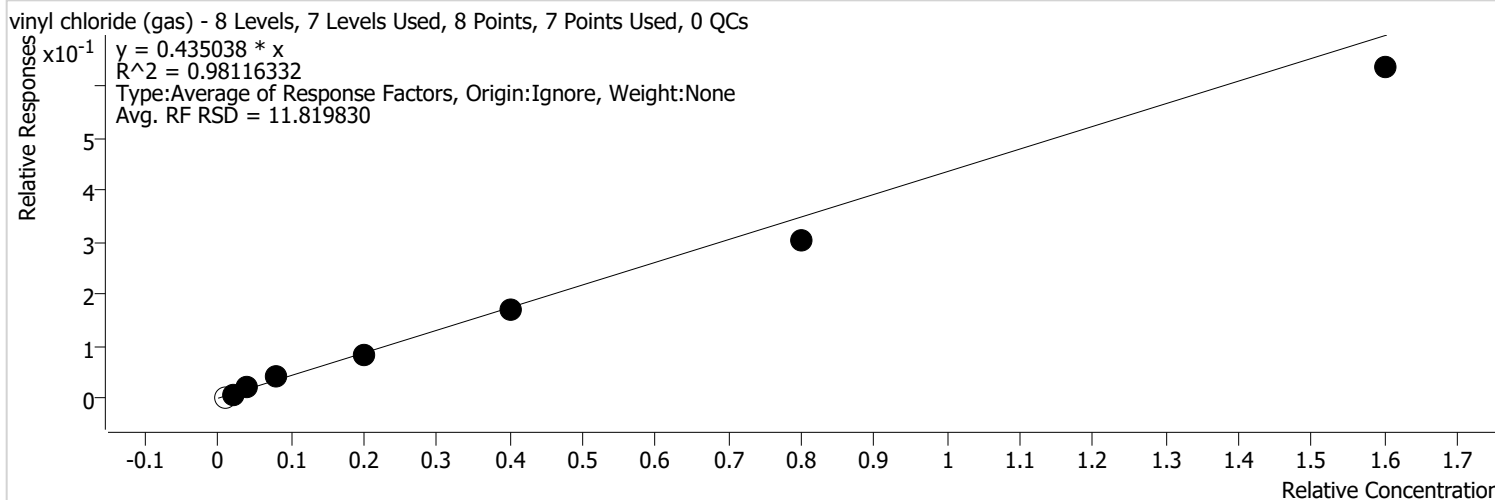


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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D:\GC-19\Data\082123\082121.D	Calibration	2		10013	0.5000	0.5906	
D:\GC-19\Data\082123\082122.D	Calibration	3	x	27917	1.0000	0.8116	
D:\GC-19\Data\082123\082123.D	Calibration	4	x	45327	2.0000	0.6680	
D:\GC-19\Data\082123\082124.D	Calibration	5	x	85354	5.0000	0.4942	
D:\GC-19\Data\082123\082125.D	Calibration	6	x	177356	10.0000	0.4965	
D:\GC-19\Data\082123\082126.D	Calibration	7	x	326900	20.0000	0.4511	
D:\GC-19\Data\082123\082127.D	Calibration	8	x	666968	40.0000	0.4430	

Calibration Report

Batch Path	D:\GC-19\Data\082123\QuantResults\VOC S CAL.batch.bin	Analyst Name	FA\GC19
Analysis Time	8/22/2023 3:13 PM	Reporter Name	FA\GC19
Report Time	8/22/2023 3:15:40 PM	Batch State	Processed
Last Calib Update	8/22/2023 12:55 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

vinyl chloride (gas) %RSE = 11.8

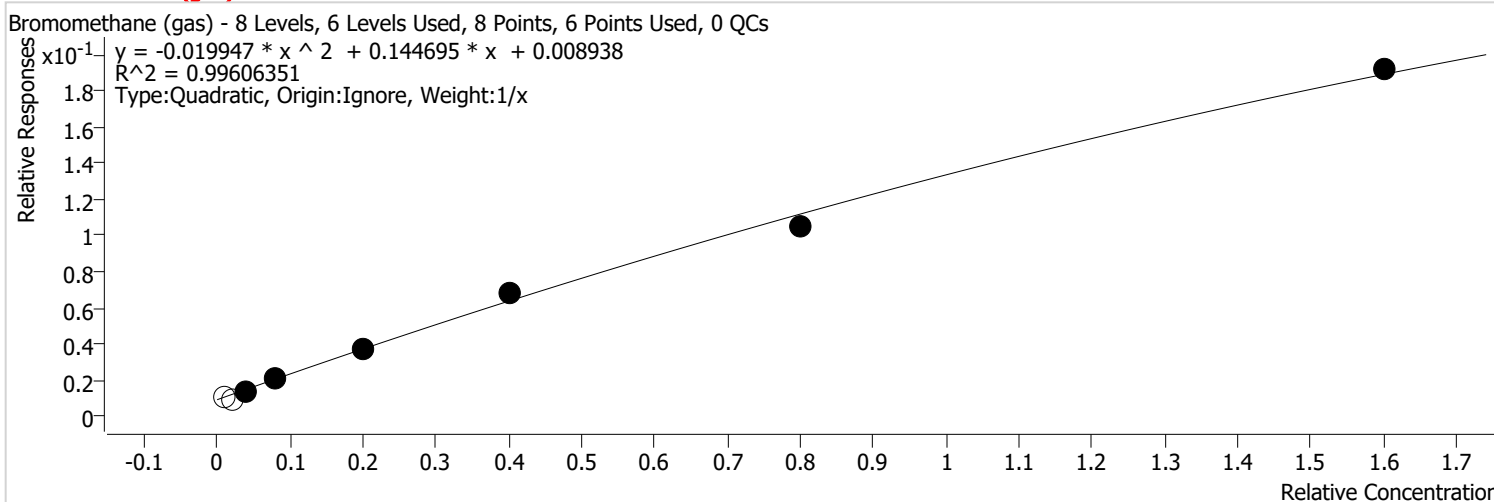


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\082123\082120.D	Calibration	1		2217	0.2000	0.3464	
D:\GC-19\Data\082123\082121.D	Calibration	2	x	6930	0.5000	0.4088	
D:\GC-19\Data\082123\082122.D	Calibration	3	x	17807	1.0000	0.5177	
D:\GC-19\Data\082123\082123.D	Calibration	4	x	33544	2.0000	0.4944	
D:\GC-19\Data\082123\082124.D	Calibration	5	x	72177	5.0000	0.4179	
D:\GC-19\Data\082123\082125.D	Calibration	6	x	153539	10.0000	0.4299	
D:\GC-19\Data\082123\082126.D	Calibration	7	x	275382	20.0000	0.3800	
D:\GC-19\Data\082123\082127.D	Calibration	8	x	597196	40.0000	0.3966	

Calibration Report

Batch Path	D:\GC-19\Data\082123\QuantResults\VOC S CAL.batch.bin		
Analysis Time	8/22/2023 3:13 PM	Analyst Name	FA\GC19
Report Time	8/22/2023 3:15:40 PM	Reporter Name	FA\GC19
Last Calib Update	8/22/2023 12:55 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Bromomethane (gas) %RSE = 10.7

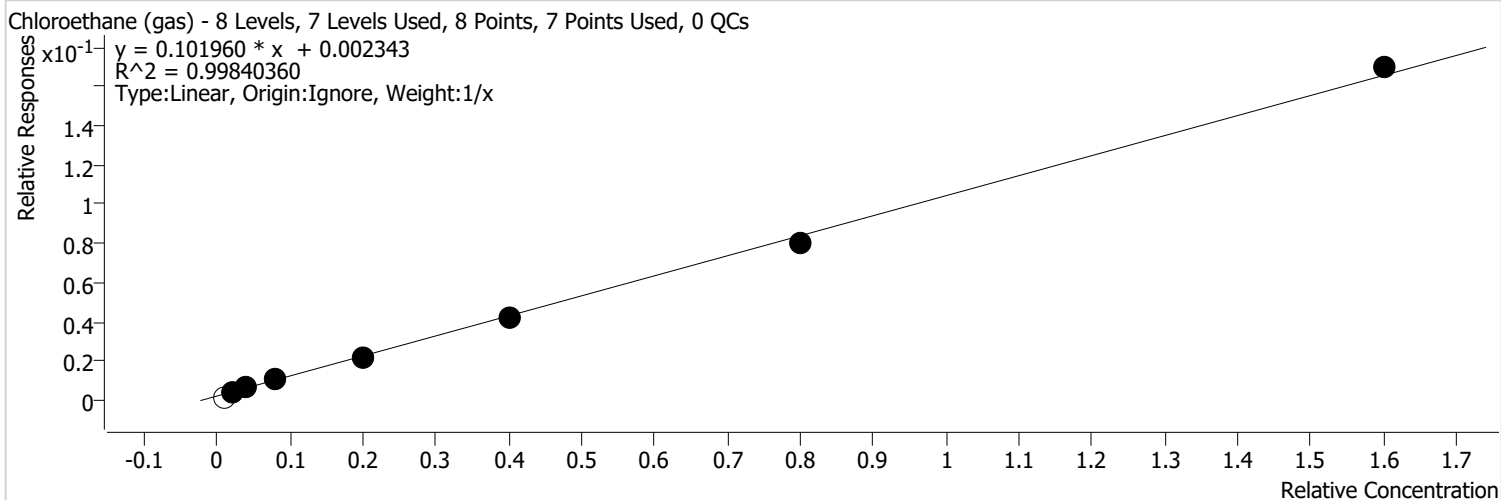


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\082123\082120.D	Calibration	1		7838	0.2000	1.2249	
D:\GC-19\Data\082123\082121.D	Calibration	2		8017	0.5000	0.4729	
D:\GC-19\Data\082123\082122.D	Calibration	3	x	12045	1.0000	0.3502	
D:\GC-19\Data\082123\082123.D	Calibration	4	x	18103	2.0000	0.2668	
D:\GC-19\Data\082123\082124.D	Calibration	5	x	32561	5.0000	0.1885	
D:\GC-19\Data\082123\082125.D	Calibration	6	x	60228	10.0000	0.1686	
D:\GC-19\Data\082123\082126.D	Calibration	7	x	94758	20.0000	0.1308	
D:\GC-19\Data\082123\082127.D	Calibration	8	x	180662	40.0000	0.1200	

Calibration Report

Batch Path	D:\GC-19\Data\082123\QuantResults\VOC S CAL.batch.bin		
Analysis Time	8/22/2023 3:13 PM	Analyst Name	FA\GC19
Report Time	8/22/2023 3:15:41 PM	Reporter Name	FA\GC19
Last Calib Update	8/22/2023 12:55 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Chloroethane (gas) %RSE = 8.2



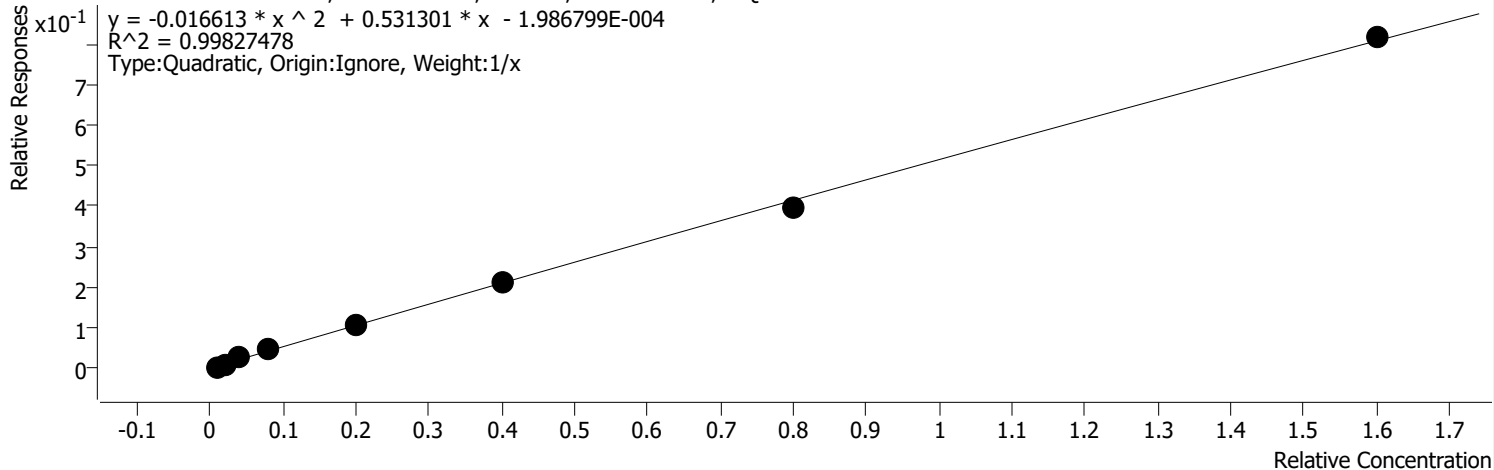
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\082123\082120.D	Calibration	1		1556	0.2000	0.2432	
D:\GC-19\Data\082123\082121.D	Calibration	2	x	3528	0.5000	0.2081	
D:\GC-19\Data\082123\082122.D	Calibration	3	x	5725	1.0000	0.1664	
D:\GC-19\Data\082123\082123.D	Calibration	4	x	9741	2.0000	0.1436	
D:\GC-19\Data\082123\082124.D	Calibration	5	x	19117	5.0000	0.1107	
D:\GC-19\Data\082123\082125.D	Calibration	6	x	37629	10.0000	0.1053	
D:\GC-19\Data\082123\082126.D	Calibration	7	x	72982	20.0000	0.1007	
D:\GC-19\Data\082123\082127.D	Calibration	8	x	159420	40.0000	0.1059	

Calibration Report

Batch Path	D:\GC-19\Data\082123\QuantResults\VOC S CAL.batch.bin		
Analysis Time	8/22/2023 3:13 PM	Analyst Name	FA\GC19
Report Time	8/22/2023 3:15:41 PM	Reporter Name	FA\GC19
Last Calib Update	8/22/2023 12:55 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Trichlorofluoromethane %RSE = 14.4

Trichlorofluoromethane - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



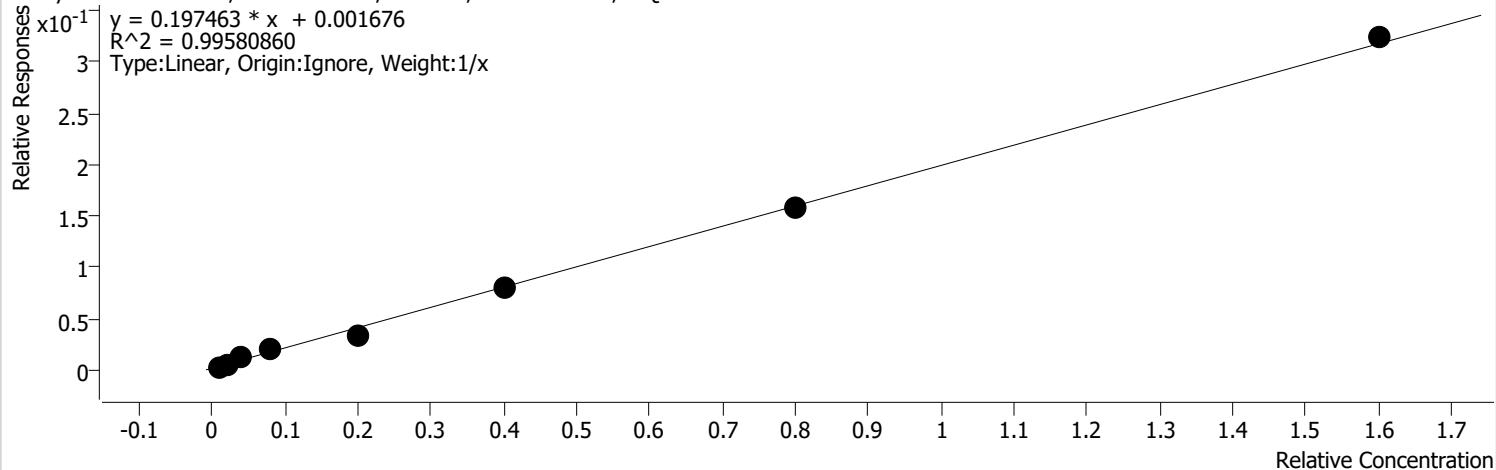
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\082123\082120.D	Calibration	1	x	2601	0.2000	0.4065	
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D:\GC-19\Data\082123\082122.D	Calibration	3	x	22279	1.0000	0.6477	
D:\GC-19\Data\082123\082123.D	Calibration	4	x	37995	2.0000	0.5600	
D:\GC-19\Data\082123\082124.D	Calibration	5	x	92075	5.0000	0.5332	
D:\GC-19\Data\082123\082125.D	Calibration	6	x	190257	10.0000	0.5327	
D:\GC-19\Data\082123\082126.D	Calibration	7	x	358826	20.0000	0.4952	
D:\GC-19\Data\082123\082127.D	Calibration	8	x	767101	40.0000	0.5095	

Calibration Report

Batch Path	D:\GC-19\Data\082123\QuantResults\VOC S CAL.batch.bin		
Analysis Time	8/22/2023 3:13 PM	Analyst Name	FA\GC19
Report Time	8/22/2023 3:15:41 PM	Reporter Name	FA\GC19
Last Calib Update	8/22/2023 12:55 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Diethyl ether %RSE = 16.1

Diethyl ether - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

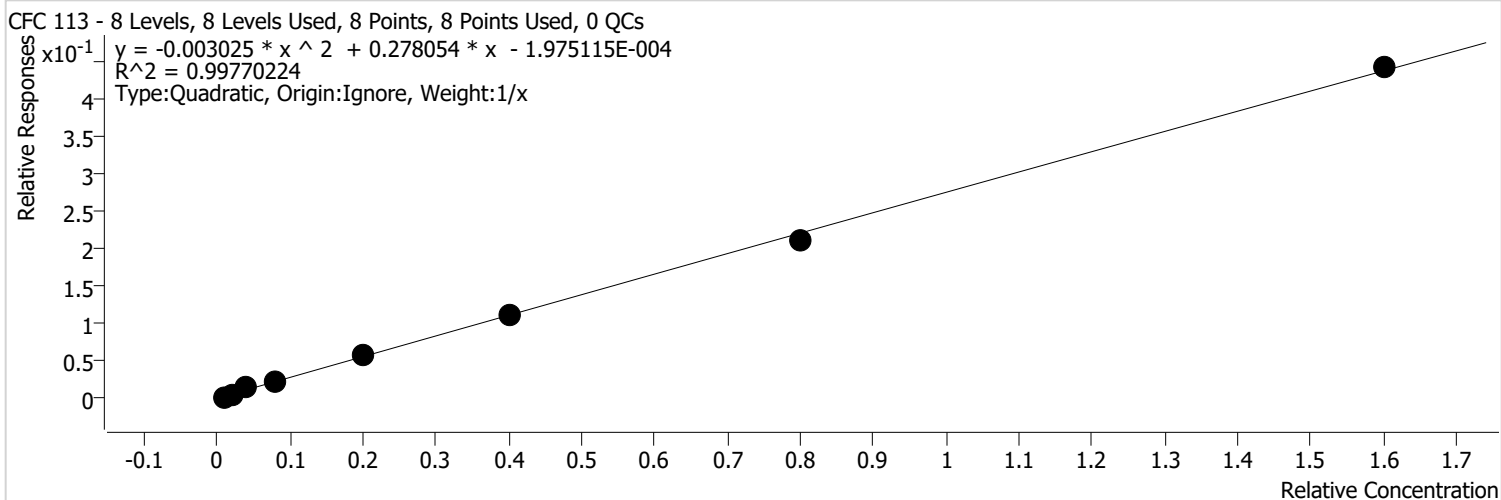


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\082123\082120.D	Calibration	1	x	2409	0.2000	0.3765	
D:\GC-19\Data\082123\082121.D	Calibration	2	x	4477	0.5000	0.2641	
D:\GC-19\Data\082123\082122.D	Calibration	3	x	9973	1.0000	0.2899	
D:\GC-19\Data\082123\082123.D	Calibration	4	x	17003	2.0000	0.2506	
D:\GC-19\Data\082123\082124.D	Calibration	5	x	29555	5.0000	0.1711	
D:\GC-19\Data\082123\082125.D	Calibration	6	x	71683	10.0000	0.2007	
D:\GC-19\Data\082123\082126.D	Calibration	7	x	142305	20.0000	0.1964	
D:\GC-19\Data\082123\082127.D	Calibration	8	x	304411	40.0000	0.2022	

Calibration Report

Batch Path	D:\GC-19\Data\082123\QuantResults\VOC S CAL.batch.bin		
Analysis Time	8/22/2023 3:13 PM	Analyst Name	FA\GC19
Report Time	8/22/2023 3:15:41 PM	Reporter Name	FA\GC19
Last Calib Update	8/22/2023 12:55 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

CFC 113 %RSE = 17.4

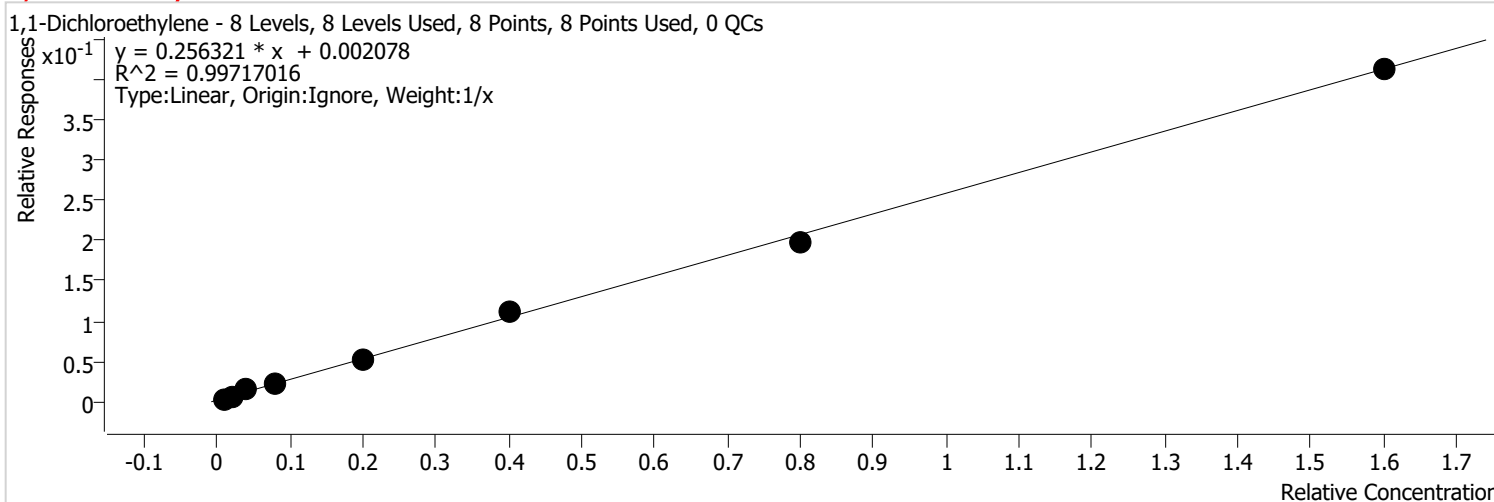


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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D:\GC-19\Data\082123\082121.D	Calibration	2	x	3644	0.5000	0.2150	
D:\GC-19\Data\082123\082122.D	Calibration	3	x	12204	1.0000	0.3548	
D:\GC-19\Data\082123\082123.D	Calibration	4	x	19659	2.0000	0.2897	
D:\GC-19\Data\082123\082124.D	Calibration	5	x	48411	5.0000	0.2803	
D:\GC-19\Data\082123\082125.D	Calibration	6	x	100277	10.0000	0.2807	
D:\GC-19\Data\082123\082126.D	Calibration	7	x	190695	20.0000	0.2631	
D:\GC-19\Data\082123\082127.D	Calibration	8	x	415171	40.0000	0.2757	

Calibration Report

Batch Path	D:\GC-19\Data\082123\QuantResults\VOC S CAL.batch.bin		
Analysis Time	8/22/2023 3:13 PM	Analyst Name	FA\GC19
Report Time	8/22/2023 3:15:41 PM	Reporter Name	FA\GC19
Last Calib Update	8/22/2023 12:55 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,1-Dichloroethylene %RSE = 16.2

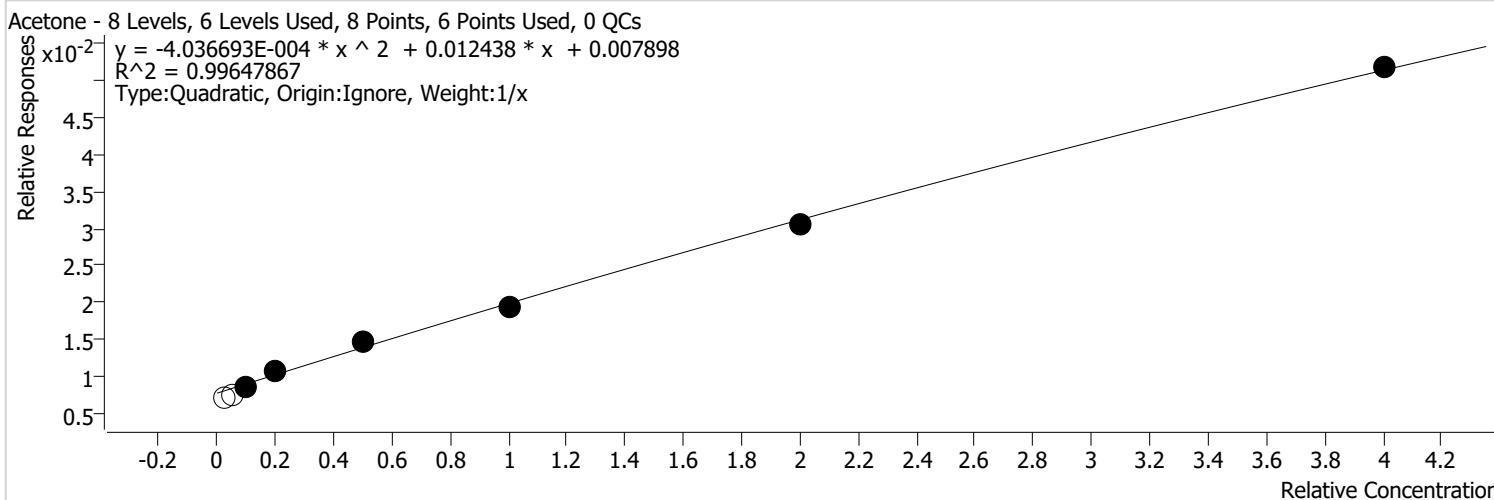


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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D:\GC-19\Data\082123\082121.D	Calibration	2	x	5409	0.5000	0.3191	
D:\GC-19\Data\082123\082122.D	Calibration	3	x	13125	1.0000	0.3816	
D:\GC-19\Data\082123\082123.D	Calibration	4	x	20192	2.0000	0.2976	
D:\GC-19\Data\082123\082124.D	Calibration	5	x	45441	5.0000	0.2631	
D:\GC-19\Data\082123\082125.D	Calibration	6	x	100152	10.0000	0.2804	
D:\GC-19\Data\082123\082126.D	Calibration	7	x	179563	20.0000	0.2478	
D:\GC-19\Data\082123\082127.D	Calibration	8	x	387092	40.0000	0.2571	

Calibration Report

Batch Path	D:\GC-19\Data\082123\QuantResults\VOC S CAL.batch.bin	Analyst Name	FA\GC19
Analysis Time	8/22/2023 3:13 PM	Reporter Name	FA\GC19
Report Time	8/22/2023 3:15:41 PM	Batch State	Processed
Last Calib Update	8/22/2023 12:55 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

Acetone %RSE = 15.7



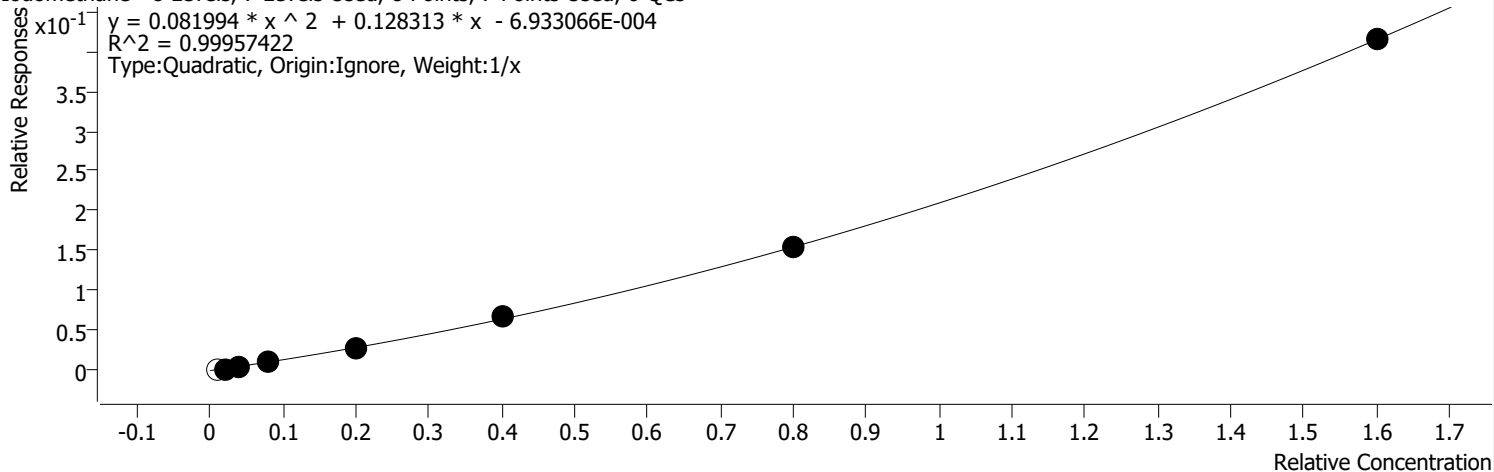
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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D:\GC-19\Data\082123\082121.D	Calibration	2		6394	1.2500	0.1509	
D:\GC-19\Data\082123\082122.D	Calibration	3	x	7652	2.5000	0.0890	
D:\GC-19\Data\082123\082123.D	Calibration	4	x	9100	5.0000	0.0536	
D:\GC-19\Data\082123\082124.D	Calibration	5	x	12679	12.5000	0.0294	
D:\GC-19\Data\082123\082125.D	Calibration	6	x	17332	25.0000	0.0194	
D:\GC-19\Data\082123\082126.D	Calibration	7	x	27684	50.0000	0.0153	
D:\GC-19\Data\082123\082127.D	Calibration	8	x	48490	100.0000	0.0129	

Calibration Report

Batch Path	D:\GC-19\Data\082123\QuantResults\VOC S CAL.batch.bin	Analyst Name	FA\GC19
Analysis Time	8/22/2023 3:13 PM	Reporter Name	FA\GC19
Report Time	8/22/2023 3:15:41 PM	Batch State	Processed
Last Calib Update	8/22/2023 12:55 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

Iodomethane %RSE = 5.9

Iodomethane - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 0 QCs



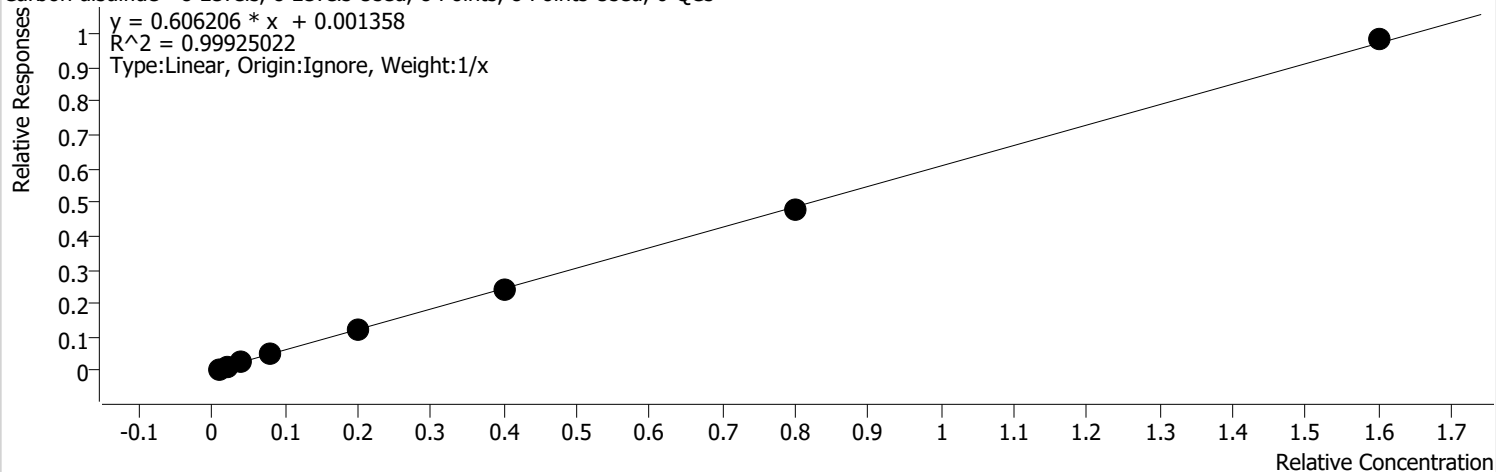
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\082123\082120.D	Calibration	1		1270	0.2000	0.1984	
D:\GC-19\Data\082123\082121.D	Calibration	2	x	1606	0.5000	0.0947	
D:\GC-19\Data\082123\082122.D	Calibration	3	x	4280	1.0000	0.1244	
D:\GC-19\Data\082123\082123.D	Calibration	4	x	8162	2.0000	0.1203	
D:\GC-19\Data\082123\082124.D	Calibration	5	x	22554	5.0000	0.1306	
D:\GC-19\Data\082123\082125.D	Calibration	6	x	59948	10.0000	0.1678	
D:\GC-19\Data\082123\082126.D	Calibration	7	x	138788	20.0000	0.1915	
D:\GC-19\Data\082123\082127.D	Calibration	8	x	390115	40.0000	0.2591	

Calibration Report

Batch Path	D:\GC-19\Data\082123\QuantResults\VOC S CAL.batch.bin		
Analysis Time	8/22/2023 3:13 PM	Analyst Name	FA\GC19
Report Time	8/22/2023 3:15:41 PM	Reporter Name	FA\GC19
Last Calib Update	8/22/2023 12:55 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Carbon disulfide %RSE = 8.5

Carbon disulfide - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



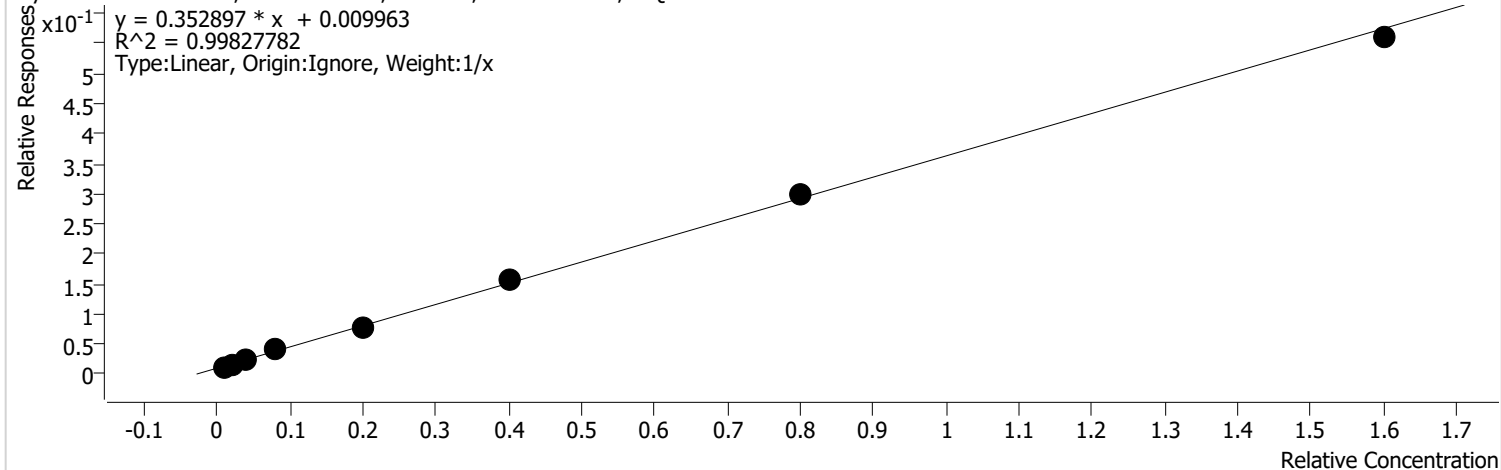
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\082123\082120.D	Calibration	1	x	4817	0.2000	0.7527	
D:\GC-19\Data\082123\082121.D	Calibration	2	x	10188	0.5000	0.6010	
D:\GC-19\Data\082123\082122.D	Calibration	3	x	25319	1.0000	0.7361	
D:\GC-19\Data\082123\082123.D	Calibration	4	x	43629	2.0000	0.6430	
D:\GC-19\Data\082123\082124.D	Calibration	5	x	103940	5.0000	0.6019	
D:\GC-19\Data\082123\082125.D	Calibration	6	x	217915	10.0000	0.6101	
D:\GC-19\Data\082123\082126.D	Calibration	7	x	429515	20.0000	0.5927	
D:\GC-19\Data\082123\082127.D	Calibration	8	x	923832	40.0000	0.6136	

Calibration Report

Batch Path	D:\GC-19\Data\082123\QuantResults\VOC S CAL.batch.bin		
Analysis Time	8/22/2023 3:13 PM	Analyst Name	FA\GC19
Report Time	8/22/2023 3:15:41 PM	Reporter Name	FA\GC19
Last Calib Update	8/22/2023 12:55 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Allyl Chloride %RSE = 11.4

Allyl Chloride - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

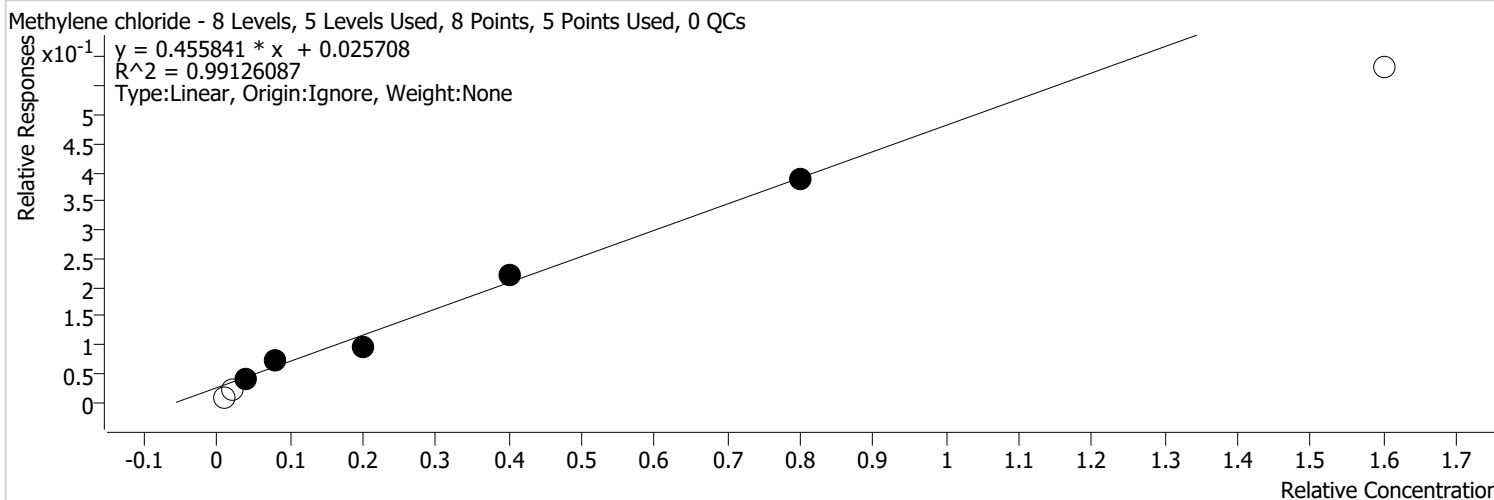


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\082123\082120.D	Calibration	1	x	9739	0.2000	1.5220	
D:\GC-19\Data\082123\082121.D	Calibration	2	x	14317	0.5000	0.8446	
D:\GC-19\Data\082123\082122.D	Calibration	3	x	22058	1.0000	0.6413	
D:\GC-19\Data\082123\082123.D	Calibration	4	x	35122	2.0000	0.5176	
D:\GC-19\Data\082123\082124.D	Calibration	5	x	67135	5.0000	0.3887	
D:\GC-19\Data\082123\082125.D	Calibration	6	x	141544	10.0000	0.3963	
D:\GC-19\Data\082123\082126.D	Calibration	7	x	270757	20.0000	0.3736	
D:\GC-19\Data\082123\082127.D	Calibration	8	x	526360	40.0000	0.3496	

Calibration Report

Batch Path	D:\GC-19\Data\082123\QuantResults\VOC S CAL.batch.bin		
Analysis Time	8/22/2023 3:13 PM	Analyst Name	FA\GC19
Report Time	8/22/2023 3:15:41 PM	Reporter Name	FA\GC19
Last Calib Update	8/22/2023 12:55 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Methylene chloride %RSE = 23.1



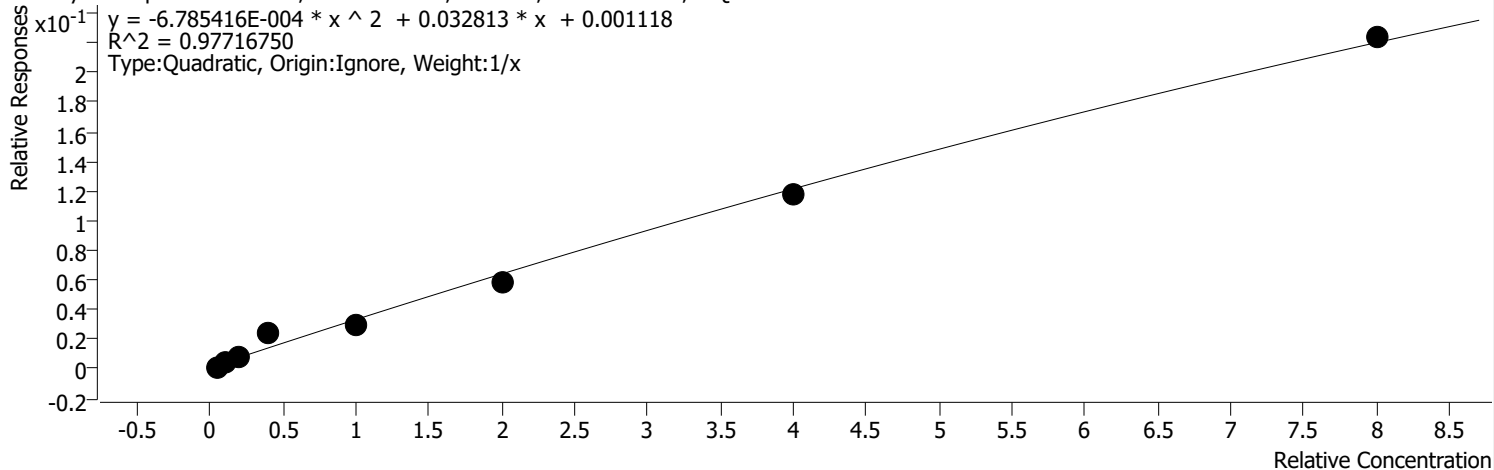
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\082123\082120.D	Calibration	1		7751	0.2000	1.2112	
D:\GC-19\Data\082123\082121.D	Calibration	2		17542	0.5000	1.0348	
D:\GC-19\Data\082123\082122.D	Calibration	3	x	35395	1.0000	1.0290	
D:\GC-19\Data\082123\082123.D	Calibration	4	x	61872	2.0000	0.9119	
D:\GC-19\Data\082123\082124.D	Calibration	5	x	84478	5.0000	0.4892	
D:\GC-19\Data\082123\082125.D	Calibration	6	x	198678	10.0000	0.5562	
D:\GC-19\Data\082123\082126.D	Calibration	7	x	350544	20.0000	0.4837	
D:\GC-19\Data\082123\082127.D	Calibration	8		547340	40.0000	0.3635	

Calibration Report

Batch Path	D:\GC-19\Data\082123\QuantResults\VOC S CAL.batch.bin		
Analysis Time	8/22/2023 3:13 PM	Analyst Name	FA\GC19
Report Time	8/22/2023 3:15:41 PM	Reporter Name	FA\GC19
Last Calib Update	8/22/2023 12:55 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

2-Methyl-2-Propanol %RSE = 50.1

2-Methyl-2-Propanol - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



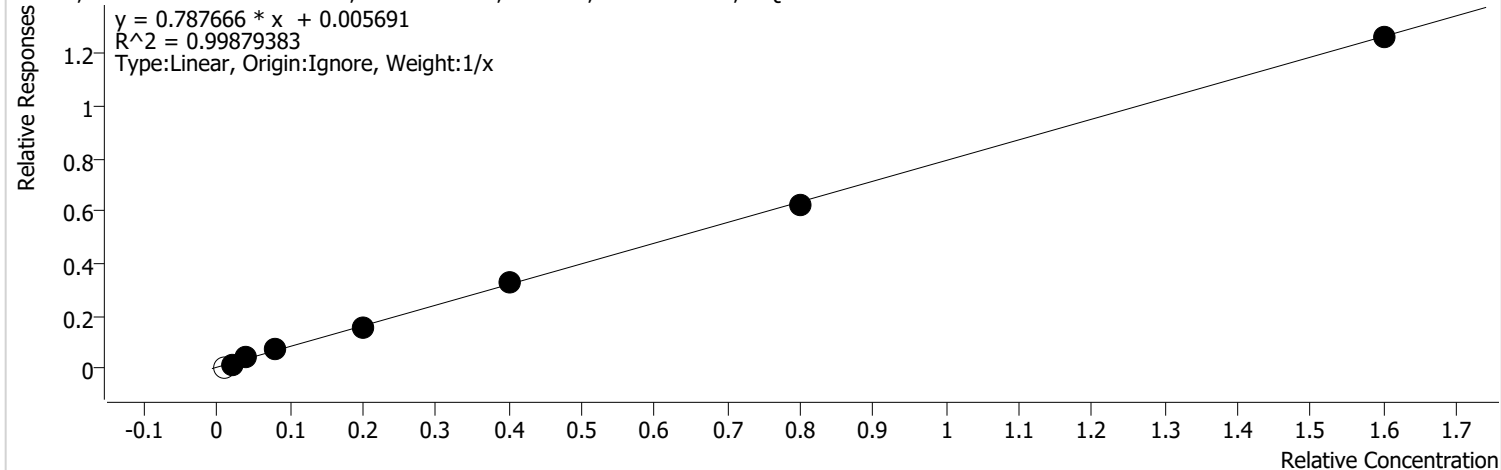
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\082123\082120.D	Calibration	1	x	1090	1.0000	0.0341	
D:\GC-19\Data\082123\082121.D	Calibration	2	x	4305	2.5000	0.0508	
D:\GC-19\Data\082123\082122.D	Calibration	3	x	7183	5.0000	0.0418	
D:\GC-19\Data\082123\082123.D	Calibration	4	x	19812	10.0000	0.0584	
D:\GC-19\Data\082123\082124.D	Calibration	5	x	25663	25.0000	0.0297	
D:\GC-19\Data\082123\082125.D	Calibration	6	x	52431	50.0000	0.0294	
D:\GC-19\Data\082123\082126.D	Calibration	7	x	106470	100.0000	0.0294	
D:\GC-19\Data\082123\082127.D	Calibration	8	x	210297	200.0000	0.0279	

Calibration Report

Batch Path	D:\GC-19\Data\082123\QuantResults\VOC S CAL.batch.bin		
Analysis Time	8/22/2023 3:13 PM	Analyst Name	FA\GC19
Report Time	8/22/2023 3:15:41 PM	Reporter Name	FA\GC19
Last Calib Update	8/22/2023 12:55 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

trans-1,2-Dichloroethene %RSE = 13.0

trans-1,2-Dichloroethene - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 0 QCs



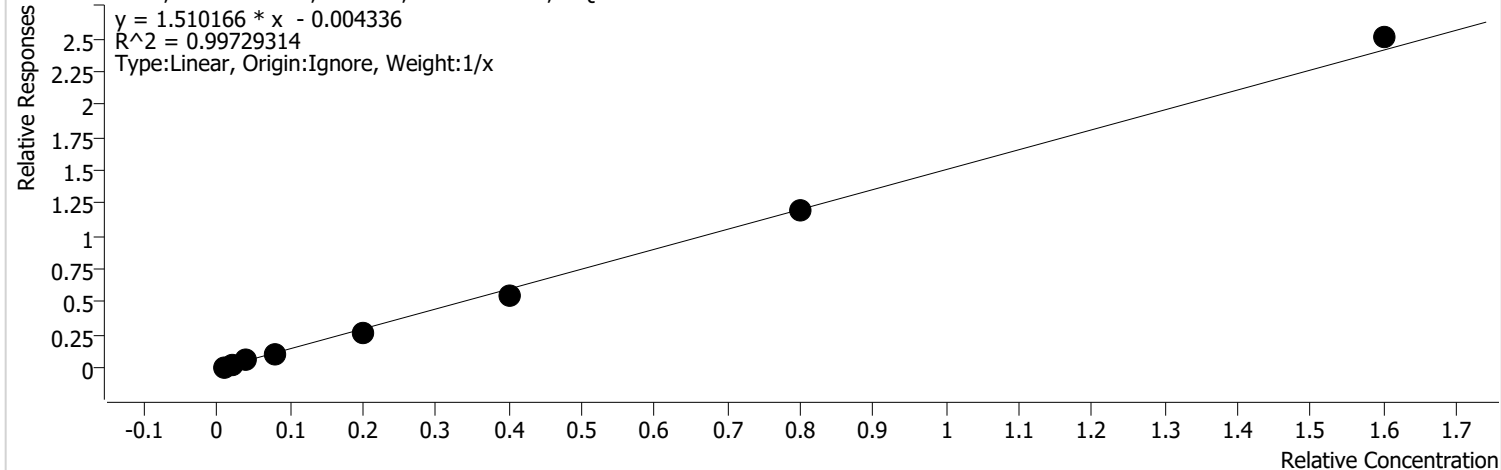
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\082123\082120.D	Calibration	1		5655	0.2000	0.8837	
D:\GC-19\Data\082123\082121.D	Calibration	2	x	15104	0.5000	0.8910	
D:\GC-19\Data\082123\082122.D	Calibration	3	x	36151	1.0000	1.0510	
D:\GC-19\Data\082123\082123.D	Calibration	4	x	62614	2.0000	0.9228	
D:\GC-19\Data\082123\082124.D	Calibration	5	x	138308	5.0000	0.8009	
D:\GC-19\Data\082123\082125.D	Calibration	6	x	295377	10.0000	0.8270	
D:\GC-19\Data\082123\082126.D	Calibration	7	x	568272	20.0000	0.7842	
D:\GC-19\Data\082123\082127.D	Calibration	8	x	1186780	40.0000	0.7882	

Calibration Report

Batch Path	D:\GC-19\Data\082123\QuantResults\VOC S CAL.batch.bin		
Analysis Time	8/22/2023 3:13 PM	Analyst Name	FA\GC19
Report Time	8/22/2023 3:15:41 PM	Reporter Name	FA\GC19
Last Calib Update	8/22/2023 12:55 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

MTBE %RSE = 10.5

MTBE - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

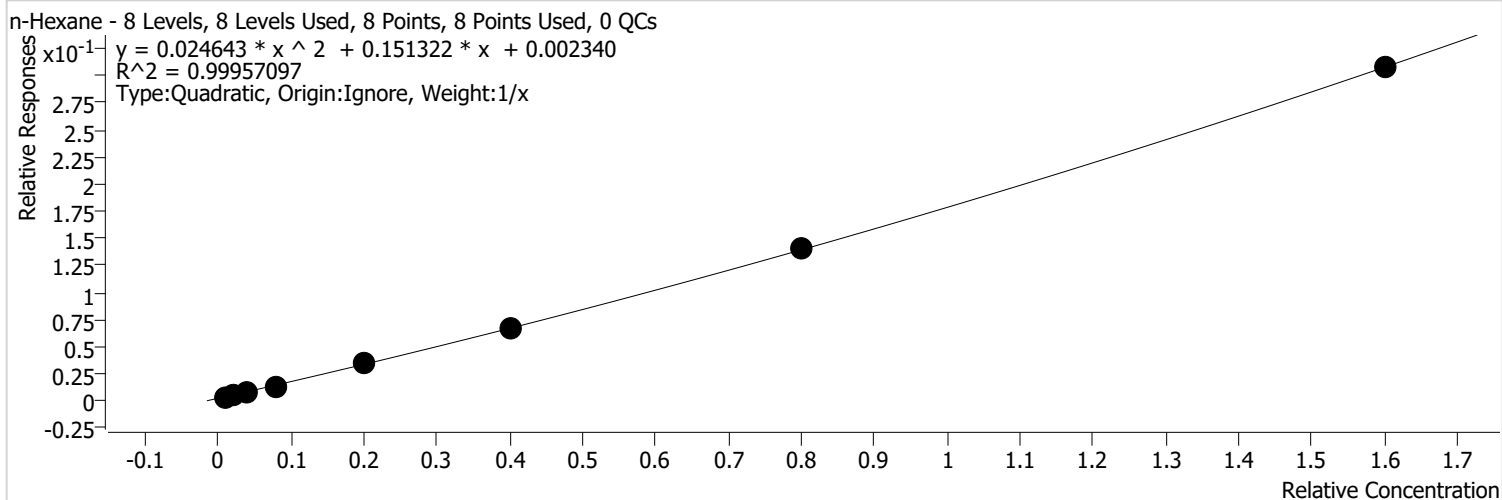


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\082123\082120.D	Calibration	1	x	8166	0.2000	1.2761	
D:\GC-19\Data\082123\082121.D	Calibration	2	x	22497	0.5000	1.3271	
D:\GC-19\Data\082123\082122.D	Calibration	3	x	48049	1.0000	1.3969	
D:\GC-19\Data\082123\082123.D	Calibration	4	x	91397	2.0000	1.3470	
D:\GC-19\Data\082123\082124.D	Calibration	5	x	229670	5.0000	1.3299	
D:\GC-19\Data\082123\082125.D	Calibration	6	x	494558	10.0000	1.3846	
D:\GC-19\Data\082123\082126.D	Calibration	7	x	1080763	20.0000	1.4914	
D:\GC-19\Data\082123\082127.D	Calibration	8	x	2358269	40.0000	1.5663	

Calibration Report

Batch Path	D:\GC-19\Data\082123\QuantResults\VOC S CAL.batch.bin		
Analysis Time	8/22/2023 3:13 PM	Analyst Name	FA\GC19
Report Time	8/22/2023 3:15:41 PM	Reporter Name	FA\GC19
Last Calib Update	8/22/2023 12:55 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

n-Hexane %RSE = 10.2

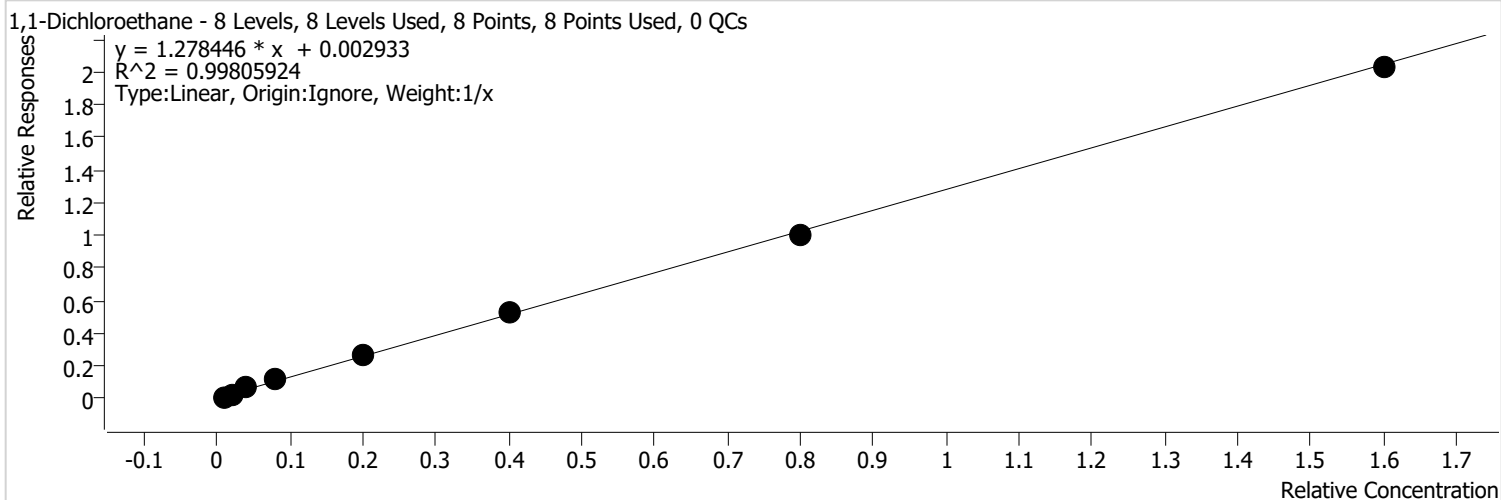


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\082123\082120.D	Calibration	1	x	2958	0.2000	0.4623	
D:\GC-19\Data\082123\082121.D	Calibration	2	x	4177	0.5000	0.2464	
D:\GC-19\Data\082123\082122.D	Calibration	3	x	7731	1.0000	0.2247	
D:\GC-19\Data\082123\082123.D	Calibration	4	x	11492	2.0000	0.1694	
D:\GC-19\Data\082123\082124.D	Calibration	5	x	29666	5.0000	0.1718	
D:\GC-19\Data\082123\082125.D	Calibration	6	x	59113	10.0000	0.1655	
D:\GC-19\Data\082123\082126.D	Calibration	7	x	127053	20.0000	0.1753	
D:\GC-19\Data\082123\082127.D	Calibration	8	x	288994	40.0000	0.1919	

Calibration Report

Batch Path	D:\GC-19\Data\082123\QuantResults\VOC S CAL.batch.bin		
Analysis Time	8/22/2023 3:13 PM	Analyst Name	FA\GC19
Report Time	8/22/2023 3:15:41 PM	Reporter Name	FA\GC19
Last Calib Update	8/22/2023 12:55 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,1-Dichloroethane %RSE = 17.7



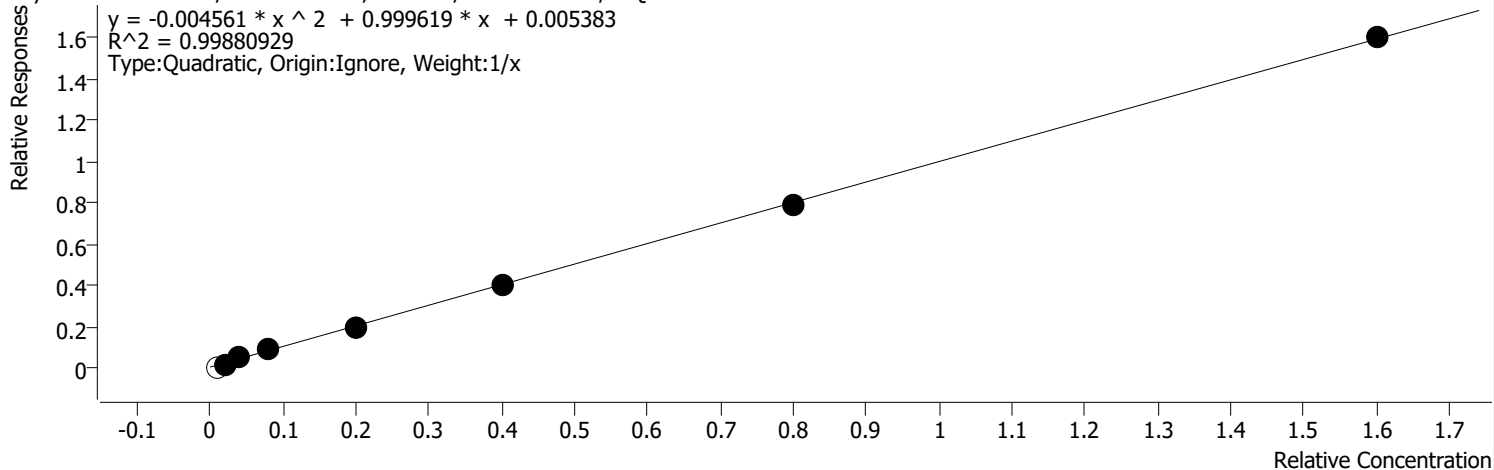
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\082123\082120.D	Calibration	1	x	7988	0.2000	1.2483	
D:\GC-19\Data\082123\082121.D	Calibration	2	x	22383	0.5000	1.3203	
D:\GC-19\Data\082123\082122.D	Calibration	3	x	57799	1.0000	1.6803	
D:\GC-19\Data\082123\082123.D	Calibration	4	x	100502	2.0000	1.4812	
D:\GC-19\Data\082123\082124.D	Calibration	5	x	223870	5.0000	1.2963	
D:\GC-19\Data\082123\082125.D	Calibration	6	x	472073	10.0000	1.3217	
D:\GC-19\Data\082123\082126.D	Calibration	7	x	915119	20.0000	1.2628	
D:\GC-19\Data\082123\082127.D	Calibration	8	x	1908203	40.0000	1.2673	

Calibration Report

Batch Path	D:\GC-19\Data\082123\QuantResults\VOC S CAL.batch.bin		
Analysis Time	8/22/2023 3:13 PM	Analyst Name	FA\GC19
Report Time	8/22/2023 3:15:41 PM	Reporter Name	FA\GC19
Last Calib Update	8/22/2023 12:55 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Acrylonitrile %RSE = 14.9

Acrylonitrile - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 0 QCs

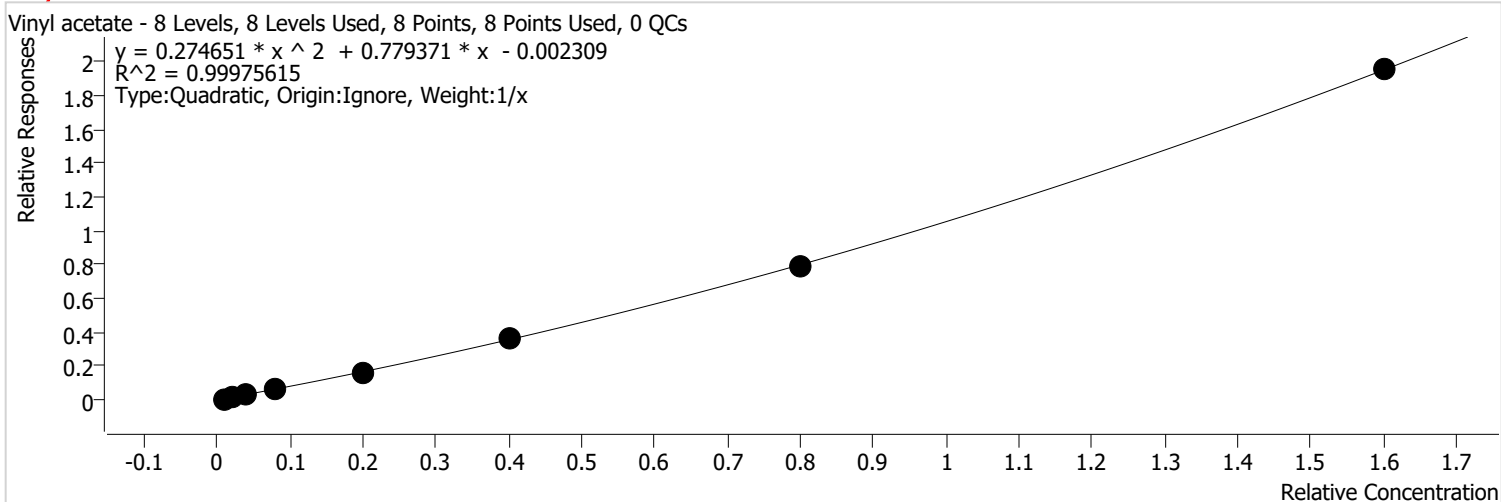


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\082123\082120.D	Calibration	1		5393	0.2000	0.8428	
D:\GC-19\Data\082123\082121.D	Calibration	2	x	17697	0.5000	1.0440	
D:\GC-19\Data\082123\082122.D	Calibration	3	x	45238	1.0000	1.3152	
D:\GC-19\Data\082123\082123.D	Calibration	4	x	76910	2.0000	1.1335	
D:\GC-19\Data\082123\082124.D	Calibration	5	x	173810	5.0000	1.0064	
D:\GC-19\Data\082123\082125.D	Calibration	6	x	364898	10.0000	1.0216	
D:\GC-19\Data\082123\082126.D	Calibration	7	x	713110	20.0000	0.9840	
D:\GC-19\Data\082123\082127.D	Calibration	8	x	1505310	40.0000	0.9998	

Calibration Report

Batch Path	D:\GC-19\Data\082123\QuantResults\VOC S CAL.batch.bin		
Analysis Time	8/22/2023 3:13 PM	Analyst Name	FA\GC19
Report Time	8/22/2023 3:15:41 PM	Reporter Name	FA\GC19
Last Calib Update	8/22/2023 12:55 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Vinyl acetate %RSE = 5.4



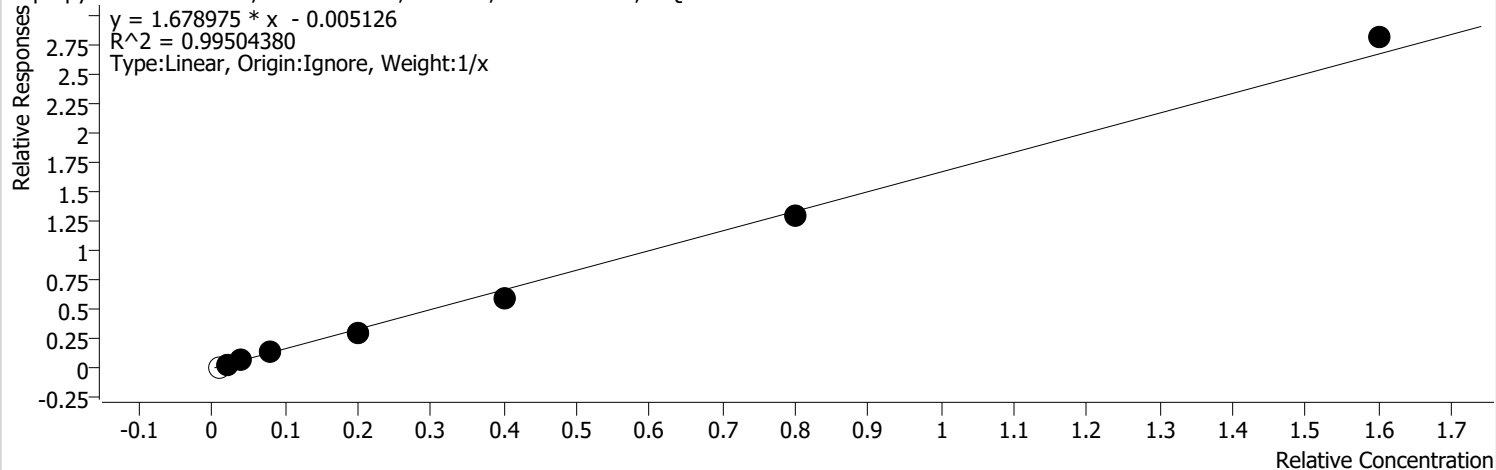
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\082123\082120.D	Calibration	1	x	3544	0.2000	0.5539	
D:\GC-19\Data\082123\082121.D	Calibration	2	x	10389	0.5000	0.6128	
D:\GC-19\Data\082123\082122.D	Calibration	3	x	25776	1.0000	0.7494	
D:\GC-19\Data\082123\082123.D	Calibration	4	x	50813	2.0000	0.7489	
D:\GC-19\Data\082123\082124.D	Calibration	5	x	138423	5.0000	0.8015	
D:\GC-19\Data\082123\082125.D	Calibration	6	x	328013	10.0000	0.9183	
D:\GC-19\Data\082123\082126.D	Calibration	7	x	712916	20.0000	0.9838	
D:\GC-19\Data\082123\082127.D	Calibration	8	x	1834944	40.0000	1.2187	

Calibration Report

Batch Path	D:\GC-19\Data\082123\QuantResults\VOC S CAL.batch.bin		
Analysis Time	8/22/2023 3:13 PM	Analyst Name	FA\GC19
Report Time	8/22/2023 3:15:41 PM	Reporter Name	FA\GC19
Last Calib Update	8/22/2023 12:55 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Isopropyl ether %RSE = 9.7

Isopropyl ether - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 0 QCs

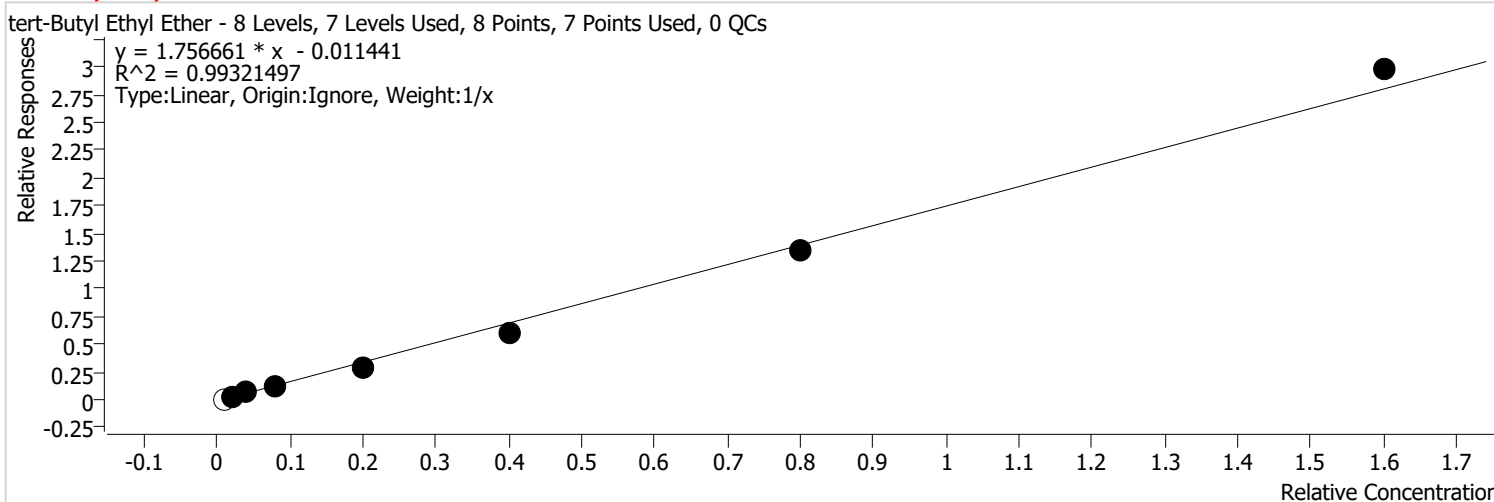


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\082123\082120.D	Calibration	1		7337	0.2000	1.1465	
D:\GC-19\Data\082123\082121.D	Calibration	2	x	25491	0.5000	1.5037	
D:\GC-19\Data\082123\082122.D	Calibration	3	x	61015	1.0000	1.7738	
D:\GC-19\Data\082123\082123.D	Calibration	4	x	110932	2.0000	1.6349	
D:\GC-19\Data\082123\082124.D	Calibration	5	x	256770	5.0000	1.4868	
D:\GC-19\Data\082123\082125.D	Calibration	6	x	526113	10.0000	1.4730	
D:\GC-19\Data\082123\082126.D	Calibration	7	x	1174599	20.0000	1.6208	
D:\GC-19\Data\082123\082127.D	Calibration	8	x	2654734	40.0000	1.7632	

Calibration Report

Batch Path	D:\GC-19\Data\082123\QuantResults\VOC S CAL.batch.bin	Analyst Name	FA\GC19
Analysis Time	8/22/2023 3:13 PM	Reporter Name	FA\GC19
Report Time	8/22/2023 3:15:41 PM	Batch State	Processed
Last Calib Update	8/22/2023 12:55 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

tert-Butyl Ethyl Ether %RSE = 11.6

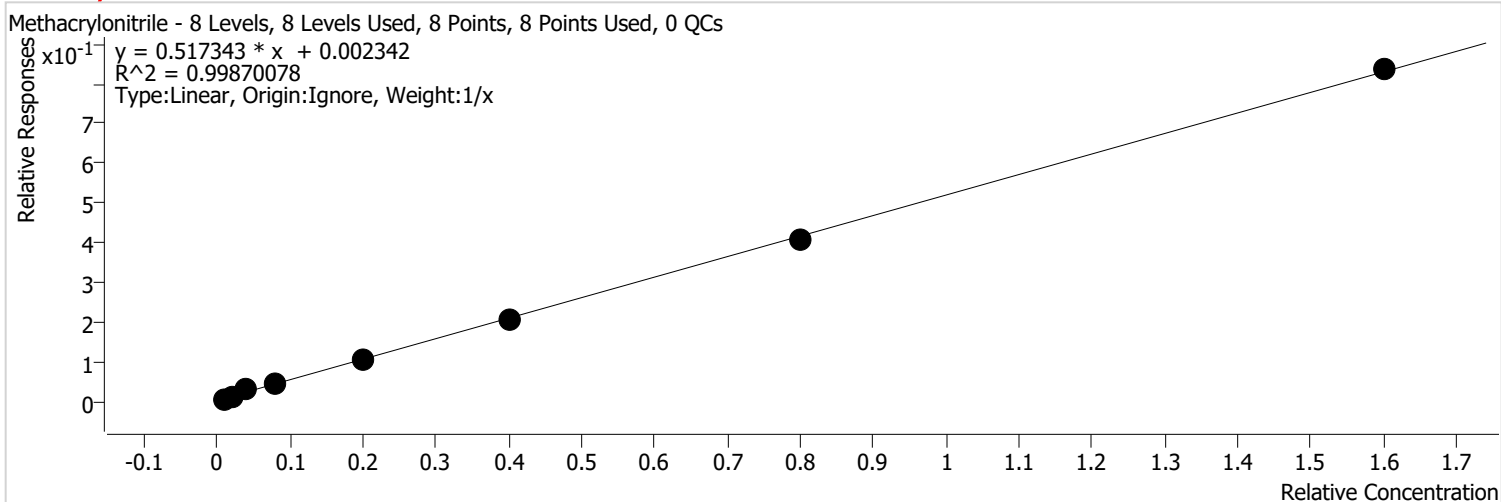


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\082123\082120.D	Calibration	1		7731	0.2000	1.2082	
D:\GC-19\Data\082123\082121.D	Calibration	2	x	24481	0.5000	1.4441	
D:\GC-19\Data\082123\082122.D	Calibration	3	x	56339	1.0000	1.6379	
D:\GC-19\Data\082123\082123.D	Calibration	4	x	106829	2.0000	1.5745	
D:\GC-19\Data\082123\082124.D	Calibration	5	x	259858	5.0000	1.5047	
D:\GC-19\Data\082123\082125.D	Calibration	6	x	530207	10.0000	1.4844	
D:\GC-19\Data\082123\082126.D	Calibration	7	x	1220660	20.0000	1.6844	
D:\GC-19\Data\082123\082127.D	Calibration	8	x	2797949	40.0000	1.8583	

Calibration Report

Batch Path	D:\GC-19\Data\082123\QuantResults\VOC S CAL.batch.bin		
Analysis Time	8/22/2023 3:13 PM	Analyst Name	FA\GC19
Report Time	8/22/2023 3:15:41 PM	Reporter Name	FA\GC19
Last Calib Update	8/22/2023 12:55 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Methacrylonitrile %RSE = 12.7



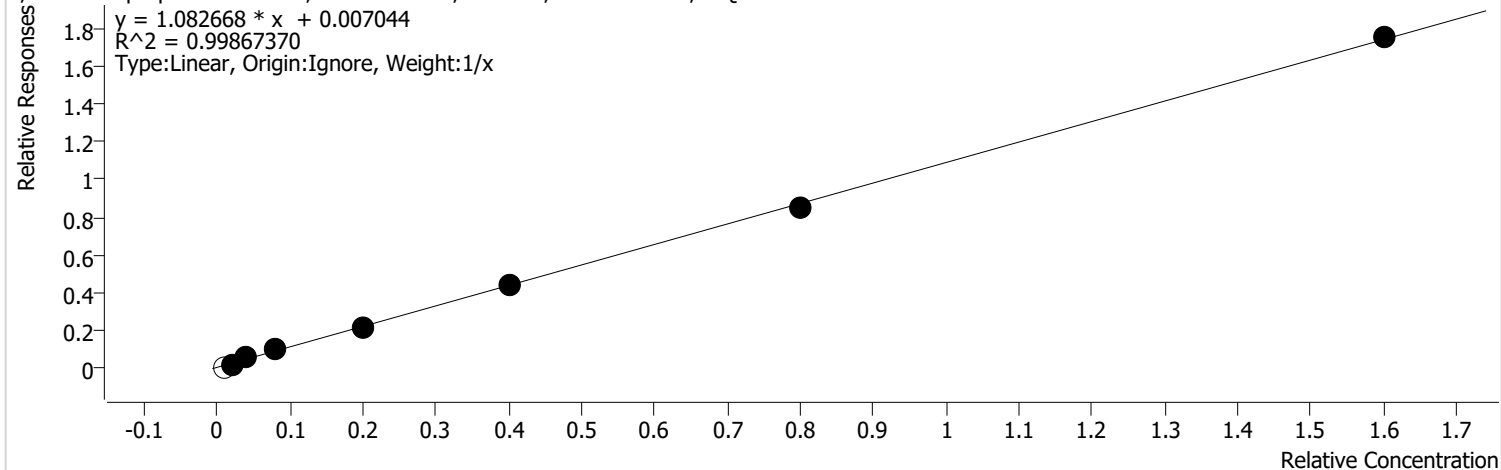
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\082123\082120.D	Calibration	1	x	4807	0.2000	0.7512	
D:\GC-19\Data\082123\082121.D	Calibration	2	x	9343	0.5000	0.5511	
D:\GC-19\Data\082123\082122.D	Calibration	3	x	23768	1.0000	0.6910	
D:\GC-19\Data\082123\082123.D	Calibration	4	x	40236	2.0000	0.5930	
D:\GC-19\Data\082123\082124.D	Calibration	5	x	89918	5.0000	0.5207	
D:\GC-19\Data\082123\082125.D	Calibration	6	x	185558	10.0000	0.5195	
D:\GC-19\Data\082123\082126.D	Calibration	7	x	369382	20.0000	0.5097	
D:\GC-19\Data\082123\082127.D	Calibration	8	x	786254	40.0000	0.5222	

Calibration Report

Batch Path	D:\GC-19\Data\082123\QuantResults\VOC S CAL.batch.bin		
Analysis Time	8/22/2023 3:13 PM	Analyst Name	FA\GC19
Report Time	8/22/2023 3:15:41 PM	Reporter Name	FA\GC19
Last Calib Update	8/22/2023 12:55 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

2,2-Dichloropropane %RSE = 14.2

2,2-Dichloropropane - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 0 QCs



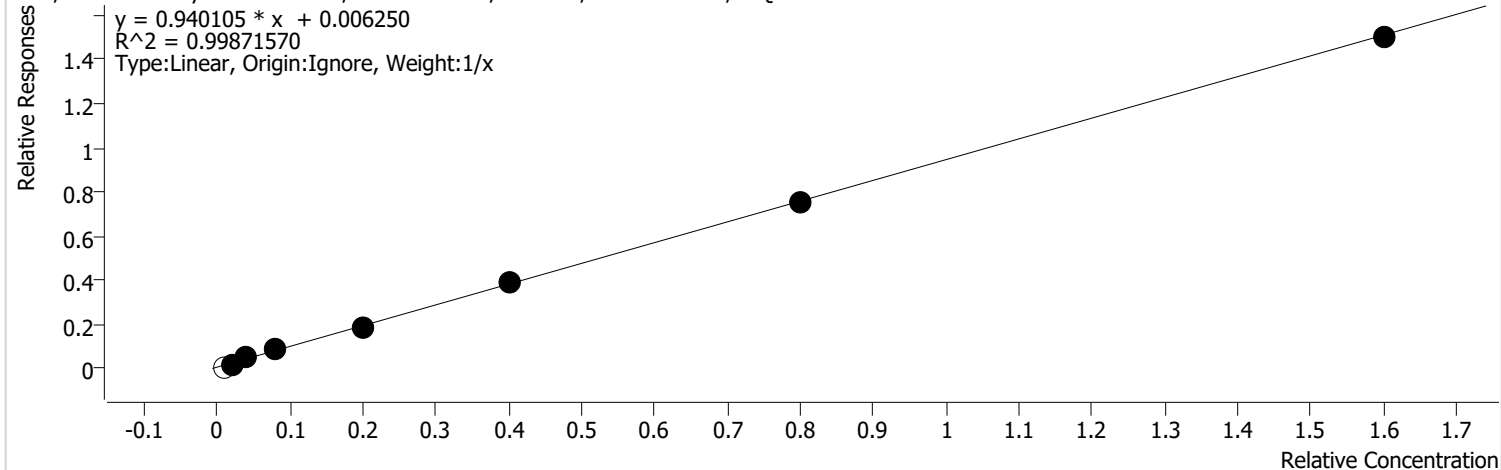
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\082123\082120.D	Calibration	1		8010	0.2000	1.2518	
D:\GC-19\Data\082123\082121.D	Calibration	2	x	19974	0.5000	1.1783	
D:\GC-19\Data\082123\082122.D	Calibration	3	x	50693	1.0000	1.4737	
D:\GC-19\Data\082123\082123.D	Calibration	4	x	84270	2.0000	1.2420	
D:\GC-19\Data\082123\082124.D	Calibration	5	x	189605	5.0000	1.0979	
D:\GC-19\Data\082123\082125.D	Calibration	6	x	395089	10.0000	1.1061	
D:\GC-19\Data\082123\082126.D	Calibration	7	x	775279	20.0000	1.0698	
D:\GC-19\Data\082123\082127.D	Calibration	8	x	1646001	40.0000	1.0932	

Calibration Report

Batch Path	D:\GC-19\Data\082123\QuantResults\VOC S CAL.batch.bin		
Analysis Time	8/22/2023 3:13 PM	Analyst Name	FA\GC19
Report Time	8/22/2023 3:15:41 PM	Reporter Name	FA\GC19
Last Calib Update	8/22/2023 12:55 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

cis-1,2-Dichloroethylene %RSE = 13.1

cis-1,2-Dichloroethylene - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 0 QCs



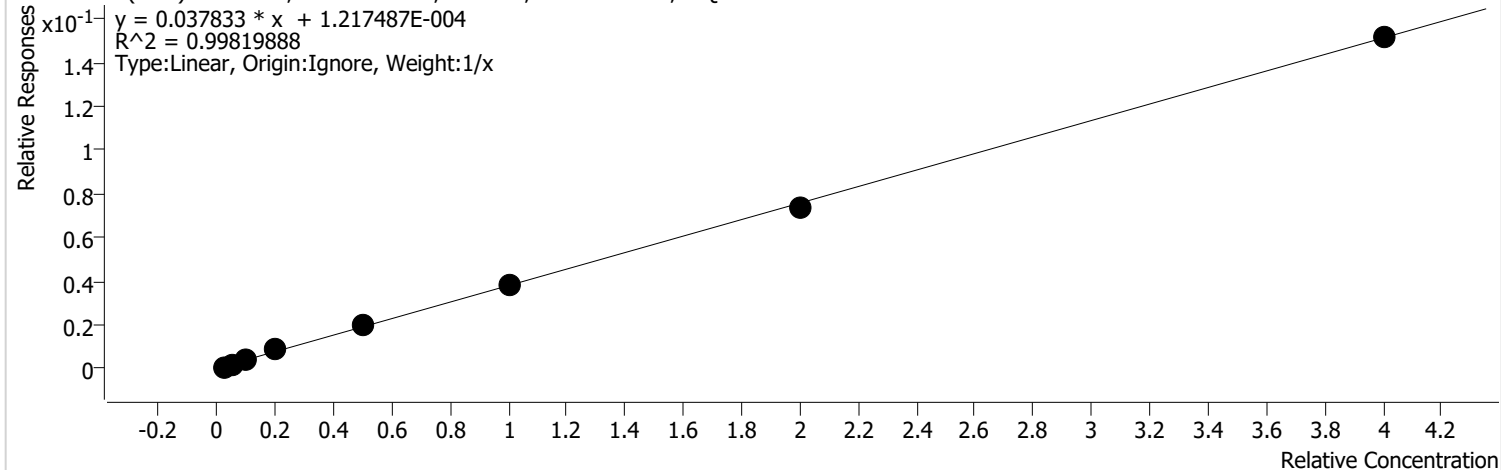
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\082123\082120.D	Calibration	1		6229	0.2000	0.9734	
D:\GC-19\Data\082123\082121.D	Calibration	2	x	17515	0.5000	1.0332	
D:\GC-19\Data\082123\082122.D	Calibration	3	x	42144	1.0000	1.2252	
D:\GC-19\Data\082123\082123.D	Calibration	4	x	75598	2.0000	1.1142	
D:\GC-19\Data\082123\082124.D	Calibration	5	x	163570	5.0000	0.9471	
D:\GC-19\Data\082123\082125.D	Calibration	6	x	352674	10.0000	0.9874	
D:\GC-19\Data\082123\082126.D	Calibration	7	x	683008	20.0000	0.9425	
D:\GC-19\Data\082123\082127.D	Calibration	8	x	1410148	40.0000	0.9366	

Calibration Report

Batch Path	D:\GC-19\Data\082123\QuantResults\VOC S CAL.batch.bin		
Analysis Time	8/22/2023 3:13 PM	Analyst Name	FA\GC19
Report Time	8/22/2023 3:15:41 PM	Reporter Name	FA\GC19
Last Calib Update	8/22/2023 12:55 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

2-Butanone (MEK) %RSE = 14.4

2-Butanone (MEK) - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



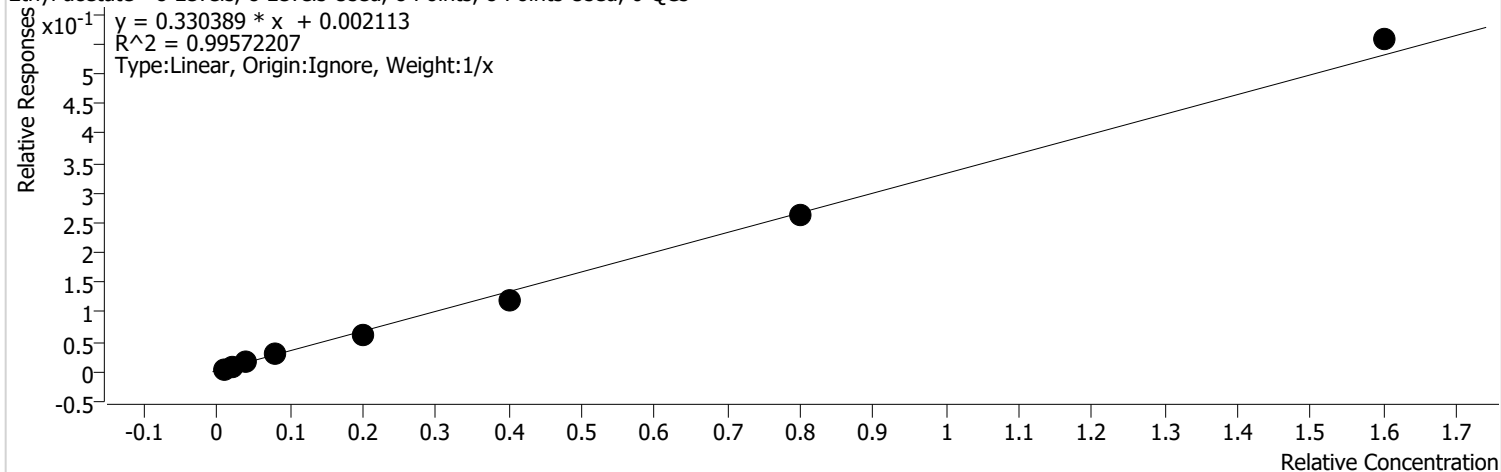
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\082123\082120.D	Calibration	1	x	562	0.5000	0.0351	
D:\GC-19\Data\082123\082121.D	Calibration	2	x	1550	1.2500	0.0366	
D:\GC-19\Data\082123\082122.D	Calibration	3	x	3831	2.5000	0.0446	
D:\GC-19\Data\082123\082123.D	Calibration	4	x	7791	5.0000	0.0459	
D:\GC-19\Data\082123\082124.D	Calibration	5	x	16639	12.5000	0.0385	
D:\GC-19\Data\082123\082125.D	Calibration	6	x	33867	25.0000	0.0379	
D:\GC-19\Data\082123\082126.D	Calibration	7	x	66897	50.0000	0.0369	
D:\GC-19\Data\082123\082127.D	Calibration	8	x	142564	100.0000	0.0379	

Calibration Report

Batch Path	D:\GC-19\Data\082123\QuantResults\VOC S CAL.batch.bin		
Analysis Time	8/22/2023 3:13 PM	Analyst Name	FA\GC19
Report Time	8/22/2023 3:15:41 PM	Reporter Name	FA\GC19
Last Calib Update	8/22/2023 12:55 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Ethyl acetate %RSE = 7.9

Ethyl acetate - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



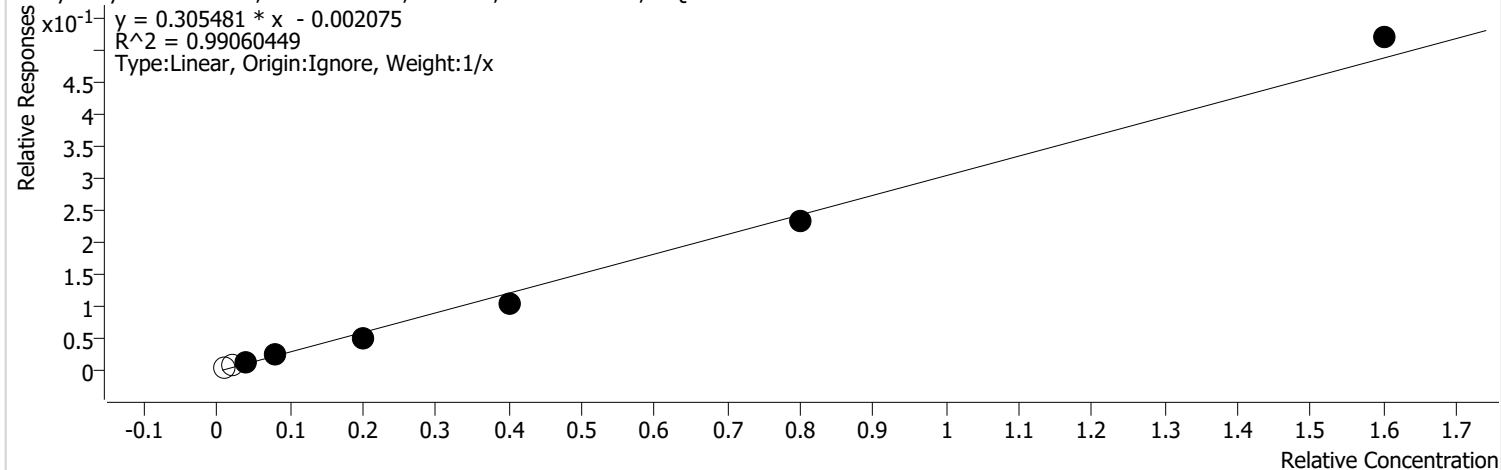
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\082123\082120.D	Calibration	1	x	3945	0.2000	0.6165	
D:\GC-19\Data\082123\082121.D	Calibration	2	x	7498	0.5000	0.4423	
D:\GC-19\Data\082123\082122.D	Calibration	3	x	13840	1.0000	0.4024	
D:\GC-19\Data\082123\082123.D	Calibration	4	x	25268	2.0000	0.3724	
D:\GC-19\Data\082123\082124.D	Calibration	5	x	53353	5.0000	0.3089	
D:\GC-19\Data\082123\082125.D	Calibration	6	x	105574	10.0000	0.2956	
D:\GC-19\Data\082123\082126.D	Calibration	7	x	236241	20.0000	0.3260	
D:\GC-19\Data\082123\082127.D	Calibration	8	x	523683	40.0000	0.3478	

Calibration Report

Batch Path	D:\GC-19\Data\082123\QuantResults\VOC S CAL.batch.bin		
Analysis Time	8/22/2023 3:13 PM	Analyst Name	FA\GC19
Report Time	8/22/2023 3:15:41 PM	Reporter Name	FA\GC19
Last Calib Update	8/22/2023 12:55 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Methyl acrylate %RSE = 16.3

Methyl acrylate - 8 Levels, 6 Levels Used, 8 Points, 6 Points Used, 0 QCs



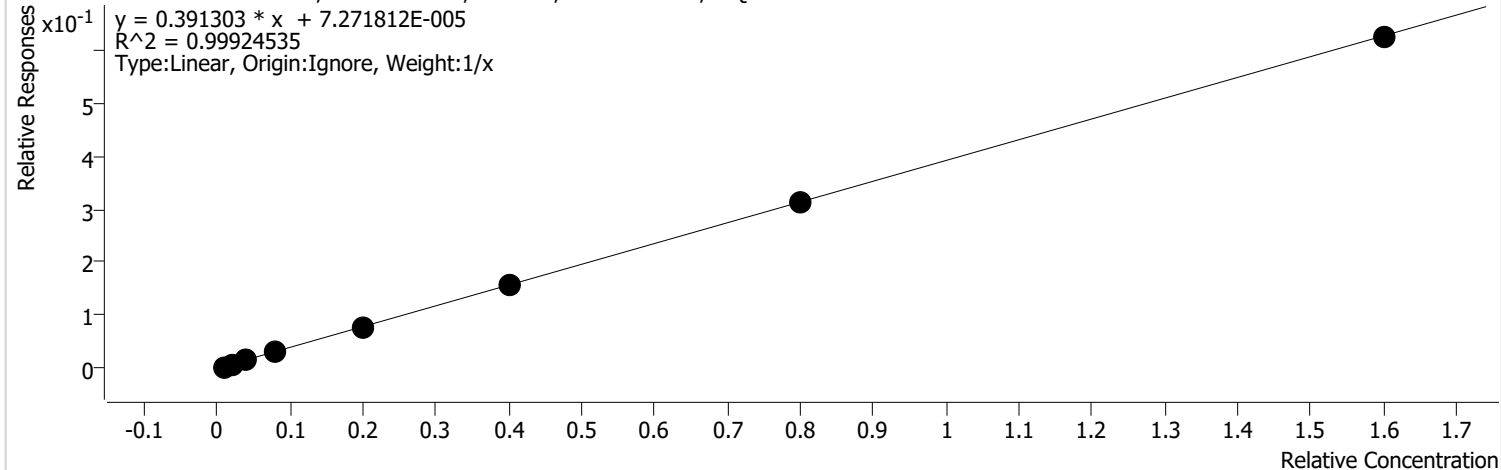
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\082123\082120.D	Calibration	1		4355	0.2000	0.6806	
D:\GC-19\Data\082123\082121.D	Calibration	2		6801	0.5000	0.4012	
D:\GC-19\Data\082123\082122.D	Calibration	3	x	11273	1.0000	0.3277	
D:\GC-19\Data\082123\082123.D	Calibration	4	x	19328	2.0000	0.2849	
D:\GC-19\Data\082123\082124.D	Calibration	5	x	43046	5.0000	0.2493	
D:\GC-19\Data\082123\082125.D	Calibration	6	x	92281	10.0000	0.2584	
D:\GC-19\Data\082123\082126.D	Calibration	7	x	211162	20.0000	0.2914	
D:\GC-19\Data\082123\082127.D	Calibration	8	x	487883	40.0000	0.3240	

Calibration Report

Batch Path	D:\GC-19\Data\082123\QuantResults\VOC S CAL.batch.bin		
Analysis Time	8/22/2023 3:13 PM	Analyst Name	FA\GC19
Report Time	8/22/2023 3:15:41 PM	Reporter Name	FA\GC19
Last Calib Update	8/22/2023 12:55 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Bromochloromethane %RSE = 10.9

Bromochloromethane - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

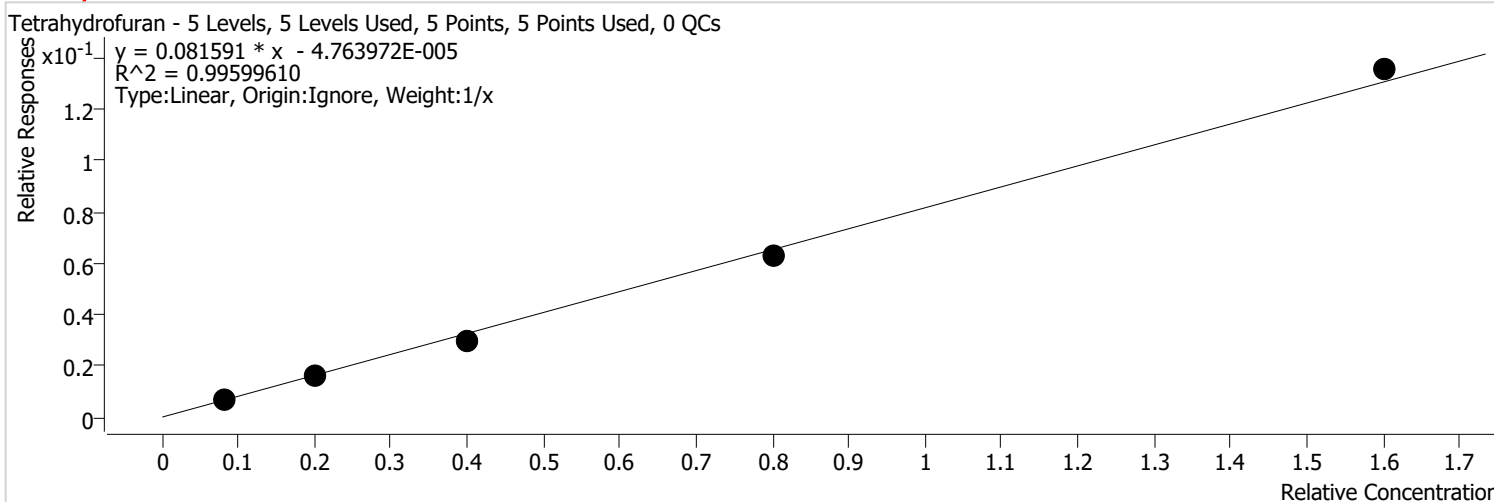


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\082123\082120.D	Calibration	1	x	2079	0.2000	0.3248	
D:\GC-19\Data\082123\082121.D	Calibration	2	x	6670	0.5000	0.3934	
D:\GC-19\Data\082123\082122.D	Calibration	3	x	15820	1.0000	0.4599	
D:\GC-19\Data\082123\082123.D	Calibration	4	x	28183	2.0000	0.4154	
D:\GC-19\Data\082123\082124.D	Calibration	5	x	64940	5.0000	0.3760	
D:\GC-19\Data\082123\082125.D	Calibration	6	x	140878	10.0000	0.3944	
D:\GC-19\Data\082123\082126.D	Calibration	7	x	285097	20.0000	0.3934	
D:\GC-19\Data\082123\082127.D	Calibration	8	x	585902	40.0000	0.3891	

Calibration Report

Batch Path	D:\GC-19\Data\082123\QuantResults\VOC S CAL.batch.bin	Analyst Name	FA\GC19
Analysis Time	8/22/2023 3:13 PM	Reporter Name	FA\GC19
Report Time	8/22/2023 3:15:41 PM	Batch State	Processed
Last Calib Update	8/22/2023 12:55 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

Tetrahydrofuran %RSE = 8.6



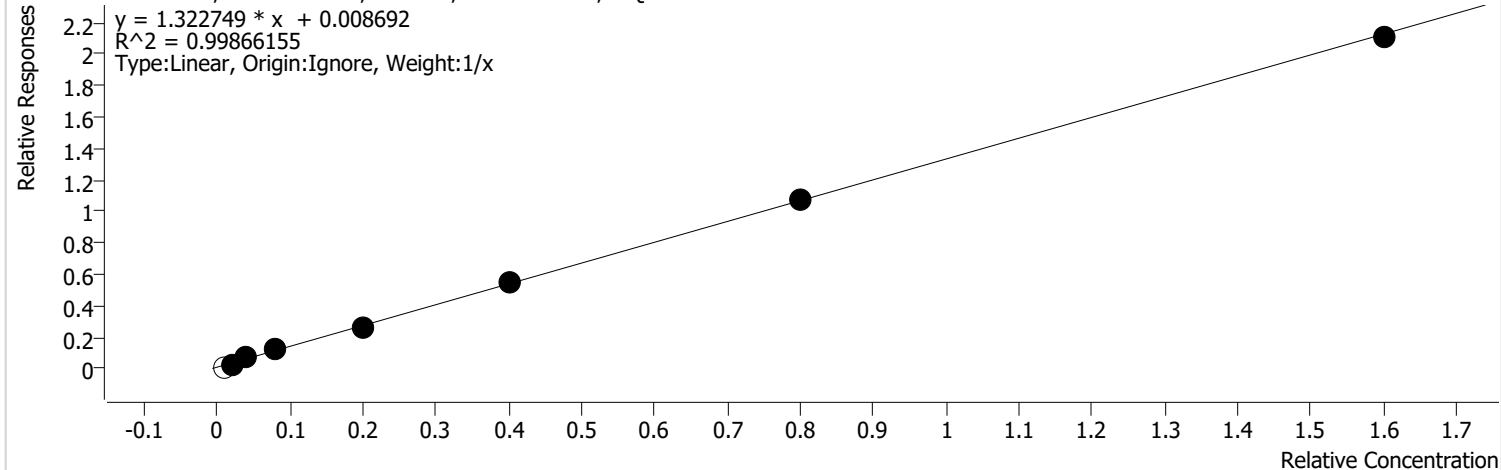
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\082123\082123.D	Calibration	4	x	6035	2.0000	0.0889	
D:\GC-19\Data\082123\082124.D	Calibration	5	x	14034	5.0000	0.0813	
D:\GC-19\Data\082123\082125.D	Calibration	6	x	26166	10.0000	0.0733	
D:\GC-19\Data\082123\082126.D	Calibration	7	x	57176	20.0000	0.0789	
D:\GC-19\Data\082123\082127.D	Calibration	8	x	127297	40.0000	0.0845	

Calibration Report

Batch Path	D:\GC-19\Data\082123\QuantResults\VOC S CAL.batch.bin		
Analysis Time	8/22/2023 3:13 PM	Analyst Name	FA\GC19
Report Time	8/22/2023 3:15:41 PM	Reporter Name	FA\GC19
Last Calib Update	8/22/2023 12:55 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

chloroform %RSE = 13.6

chloroform - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 0 QCs

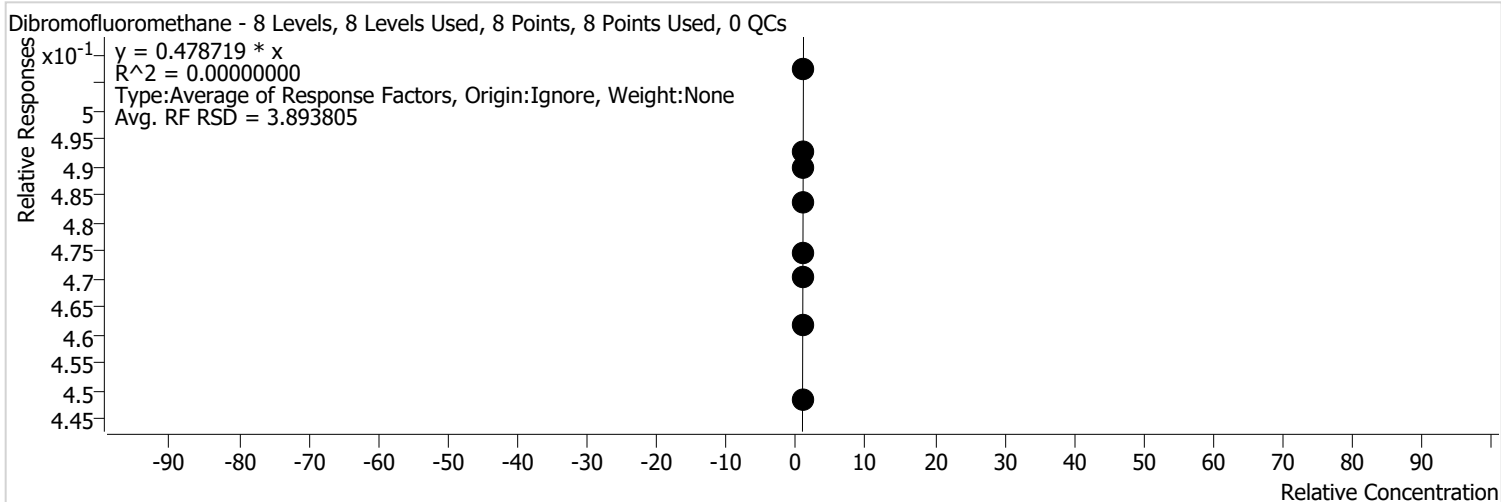


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\082123\082120.D	Calibration	1		8818	0.2000	1.3781	
D:\GC-19\Data\082123\082121.D	Calibration	2	x	24399	0.5000	1.4393	
D:\GC-19\Data\082123\082122.D	Calibration	3	x	60198	1.0000	1.7501	
D:\GC-19\Data\082123\082123.D	Calibration	4	x	105129	2.0000	1.5494	
D:\GC-19\Data\082123\082124.D	Calibration	5	x	229118	5.0000	1.3267	
D:\GC-19\Data\082123\082125.D	Calibration	6	x	494156	10.0000	1.3835	
D:\GC-19\Data\082123\082126.D	Calibration	7	x	970014	20.0000	1.3385	
D:\GC-19\Data\082123\082127.D	Calibration	8	x	1978042	40.0000	1.3137	

Calibration Report

Batch Path	D:\GC-19\Data\082123\QuantResults\VOC S CAL.batch.bin	Analyst Name	FA\GC19
Analysis Time	8/22/2023 3:13 PM	Reporter Name	FA\GC19
Report Time	8/22/2023 3:15:41 PM	Batch State	Processed
Last Calib Update	8/22/2023 12:55 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

Dibromofluoromethane %RSE =

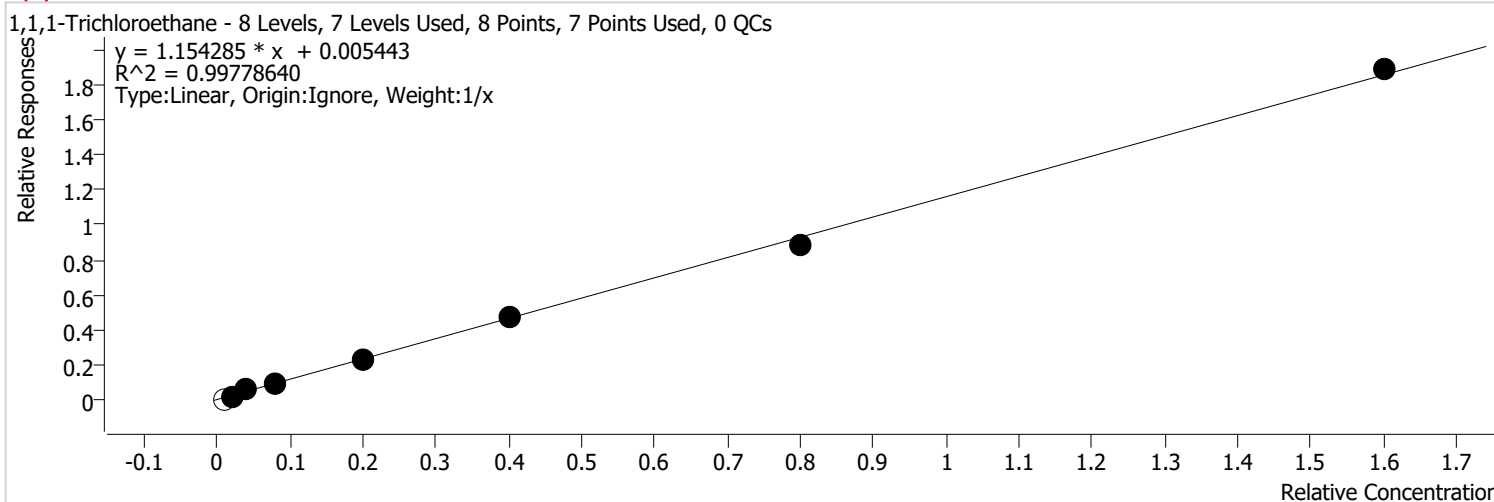


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\082123\082127.D	Calibration	8	x	422246	25.0000	0.4487	
D:\GC-19\Data\082123\082126.D	Calibration	7	x	426252	25.0000	0.4706	
D:\GC-19\Data\082123\082125.D	Calibration	6	x	423704	25.0000	0.4745	
D:\GC-19\Data\082123\082124.D	Calibration	5	x	398978	25.0000	0.4620	
D:\GC-19\Data\082123\082123.D	Calibration	4	x	410459	25.0000	0.4840	
D:\GC-19\Data\082123\082122.D	Calibration	3	x	423621	25.0000	0.4926	
D:\GC-19\Data\082123\082121.D	Calibration	2	x	415330	25.0000	0.4900	
D:\GC-19\Data\082123\082120.D	Calibration	1	x	405825	25.0000	0.5074	

Calibration Report

Batch Path	D:\GC-19\Data\082123\QuantResults\VOC S CAL.batch.bin		
Analysis Time	8/22/2023 3:13 PM	Analyst Name	FA\GC19
Report Time	8/22/2023 3:15:41 PM	Reporter Name	FA\GC19
Last Calib Update	8/22/2023 12:55 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,1,1-Trichloroethane %RSE = 14.3



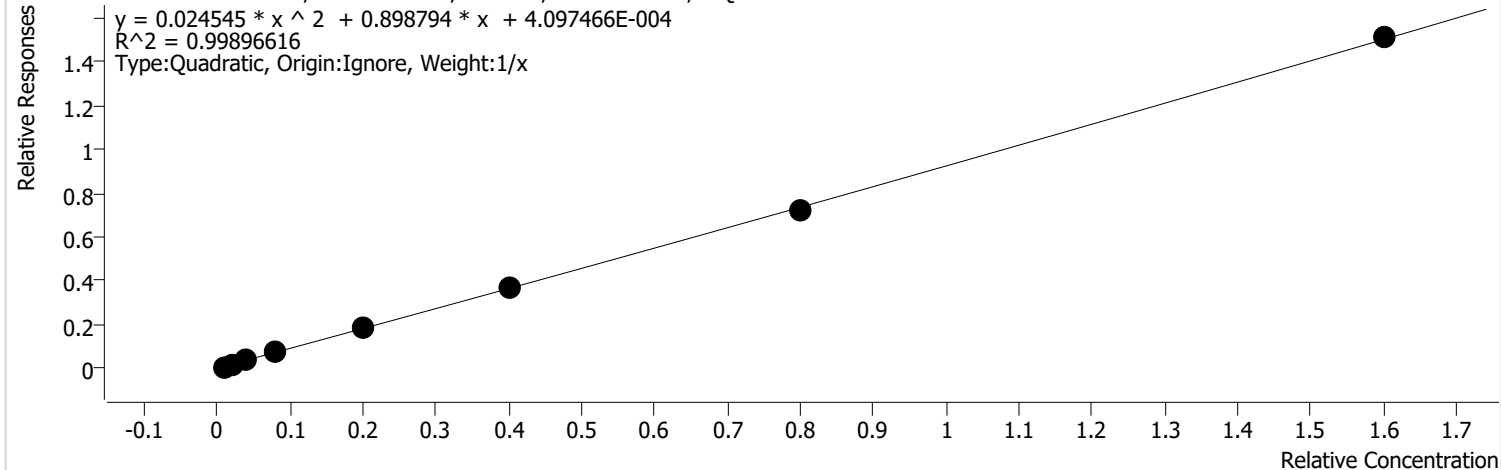
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\082123\082120.D	Calibration	1		7552	0.2000	1.1801	
D:\GC-19\Data\082123\082121.D	Calibration	2	x	19803	0.5000	1.1682	
D:\GC-19\Data\082123\082122.D	Calibration	3	x	52963	1.0000	1.5398	
D:\GC-19\Data\082123\082123.D	Calibration	4	x	85273	2.0000	1.2568	
D:\GC-19\Data\082123\082124.D	Calibration	5	x	200762	5.0000	1.1625	
D:\GC-19\Data\082123\082125.D	Calibration	6	x	429195	10.0000	1.2016	
D:\GC-19\Data\082123\082126.D	Calibration	7	x	798684	20.0000	1.1021	
D:\GC-19\Data\082123\082127.D	Calibration	8	x	1771253	40.0000	1.1764	

Calibration Report

Batch Path	D:\GC-19\Data\082123\QuantResults\VOC S CAL.batch.bin		
Analysis Time	8/22/2023 3:13 PM	Analyst Name	FA\GC19
Report Time	8/22/2023 3:15:41 PM	Reporter Name	FA\GC19
Last Calib Update	8/22/2023 12:55 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

carbon tetrachloride %RSE = 13.3

carbon tetrachloride - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

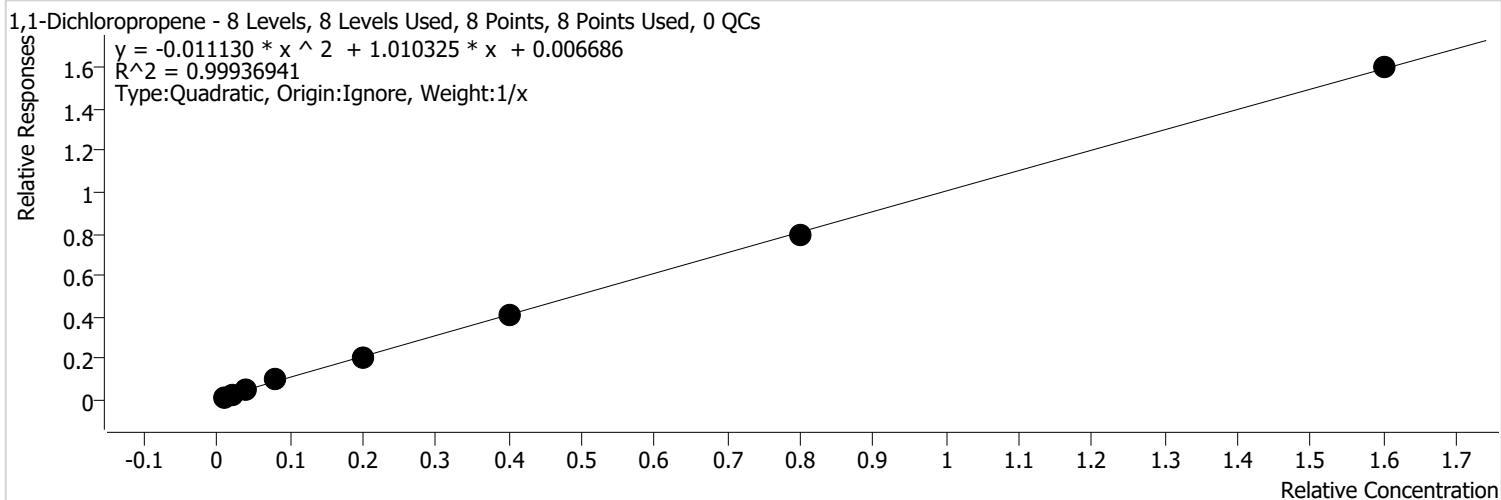


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\082123\082120.D	Calibration	1	x	5194	0.2000	0.8116	
D:\GC-19\Data\082123\082121.D	Calibration	2	x	14043	0.5000	0.8284	
D:\GC-19\Data\082123\082122.D	Calibration	3	x	38426	1.0000	1.1171	
D:\GC-19\Data\082123\082123.D	Calibration	4	x	63866	2.0000	0.9413	
D:\GC-19\Data\082123\082124.D	Calibration	5	x	157030	5.0000	0.9093	
D:\GC-19\Data\082123\082125.D	Calibration	6	x	324969	10.0000	0.9098	
D:\GC-19\Data\082123\082126.D	Calibration	7	x	650485	20.0000	0.8976	
D:\GC-19\Data\082123\082127.D	Calibration	8	x	1420430	40.0000	0.9434	

Calibration Report

Batch Path	D:\GC-19\Data\082123\QuantResults\VOC S CAL.batch.bin		
Analysis Time	8/22/2023 3:13 PM	Analyst Name	FA\GC19
Report Time	8/22/2023 3:15:41 PM	Reporter Name	FA\GC19
Last Calib Update	8/22/2023 12:55 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,1-Dichloropropene %RSE = 10.2



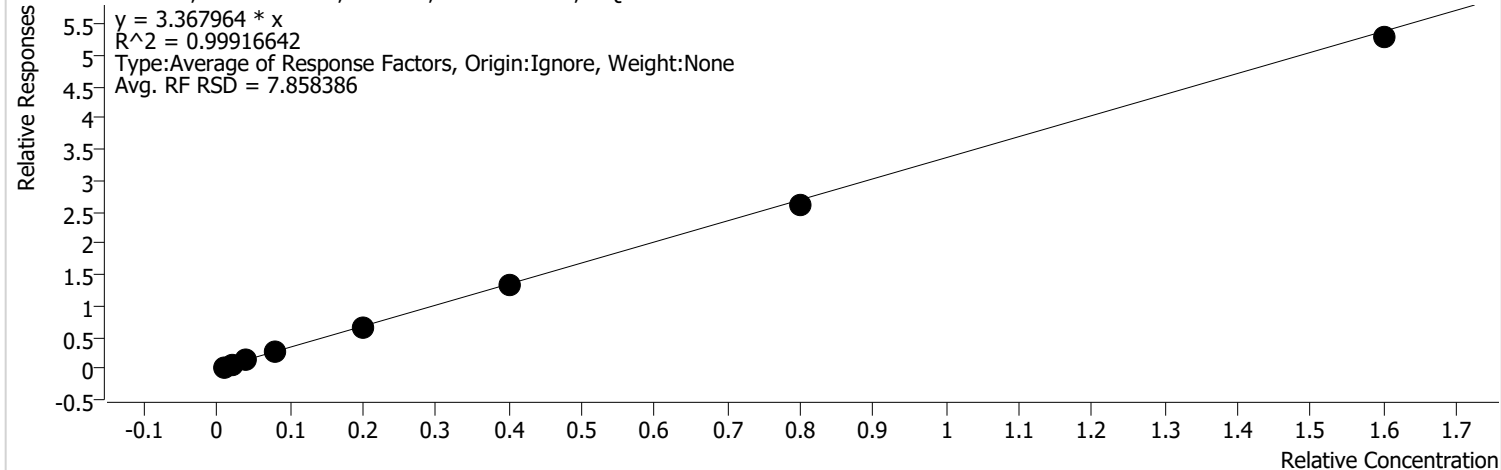
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\082123\082120.D	Calibration	1	x	10832	0.2000	1.6928	
D:\GC-19\Data\082123\082121.D	Calibration	2	x	22179	0.5000	1.3083	
D:\GC-19\Data\082123\082122.D	Calibration	3	x	45660	1.0000	1.3274	
D:\GC-19\Data\082123\082123.D	Calibration	4	x	79014	2.0000	1.1645	
D:\GC-19\Data\082123\082124.D	Calibration	5	x	175991	5.0000	1.0191	
D:\GC-19\Data\082123\082125.D	Calibration	6	x	365238	10.0000	1.0226	
D:\GC-19\Data\082123\082126.D	Calibration	7	x	721935	20.0000	0.9962	
D:\GC-19\Data\082123\082127.D	Calibration	8	x	1505940	40.0000	1.0002	

Calibration Report

Batch Path	D:\GC-19\Data\082123\QuantResults\VOC S CAL.batch.bin	Analyst Name	FA\GC19
Analysis Time	8/22/2023 3:13 PM	Reporter Name	FA\GC19
Report Time	8/22/2023 3:15:41 PM	Batch State	Processed
Last Calib Update	8/22/2023 12:55 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

Benzene %RSE = 7.9

Benzene - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

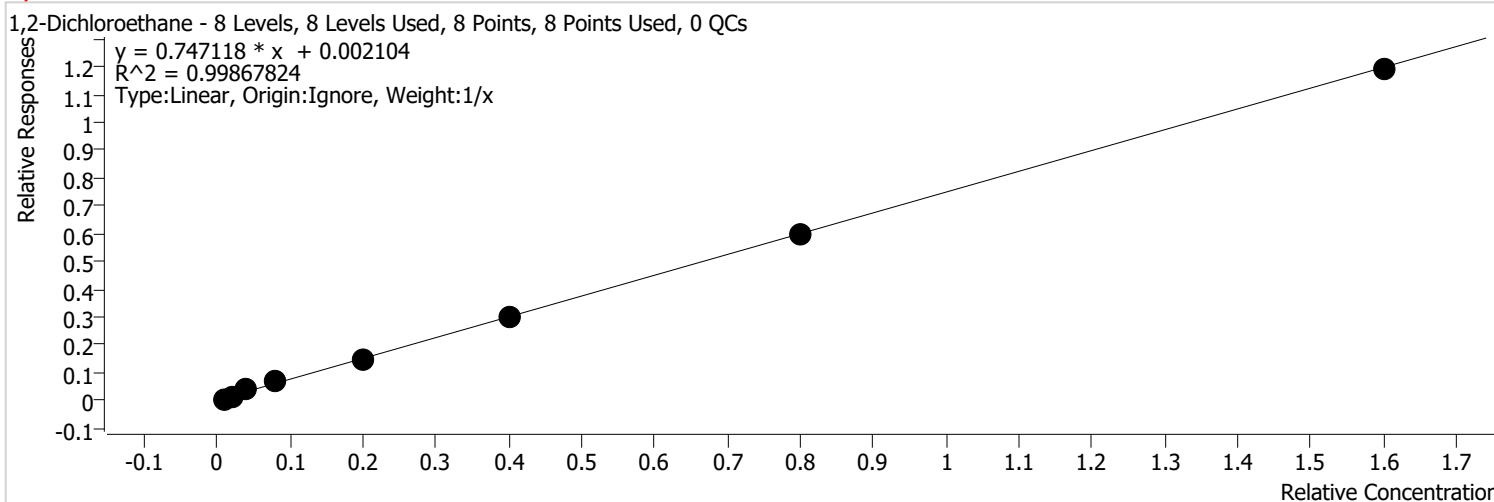


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\082123\082120.D	Calibration	1	x	19430	0.2000	3.0364	
D:\GC-19\Data\082123\082121.D	Calibration	2	x	56842	0.5000	3.3531	
D:\GC-19\Data\082123\082122.D	Calibration	3	x	135120	1.0000	3.9282	
D:\GC-19\Data\082123\082123.D	Calibration	4	x	239669	2.0000	3.5323	
D:\GC-19\Data\082123\082124.D	Calibration	5	x	557569	5.0000	3.2286	
D:\GC-19\Data\082123\082125.D	Calibration	6	x	1177382	10.0000	3.2963	
D:\GC-19\Data\082123\082126.D	Calibration	7	x	2366028	20.0000	3.2649	
D:\GC-19\Data\082123\082127.D	Calibration	8	x	4974455	40.0000	3.3038	

Calibration Report

Batch Path	D:\GC-19\Data\082123\QuantResults\VOC S CAL.batch.bin		
Analysis Time	8/22/2023 3:13 PM	Analyst Name	FA\GC19
Report Time	8/22/2023 3:15:41 PM	Reporter Name	FA\GC19
Last Calib Update	8/22/2023 12:55 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,2-Dichloroethane %RSE = 14.7



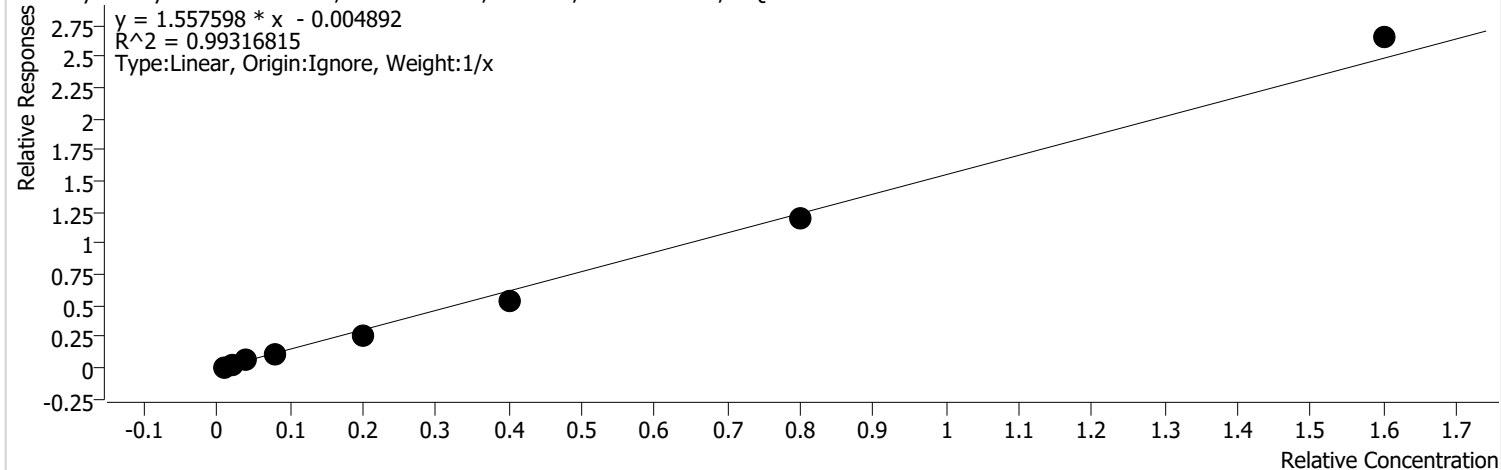
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\082123\082120.D	Calibration	1	x	5171	0.2000	0.8081	
D:\GC-19\Data\082123\082121.D	Calibration	2	x	14035	0.5000	0.8279	
D:\GC-19\Data\082123\082122.D	Calibration	3	x	32423	1.0000	0.9426	
D:\GC-19\Data\082123\082123.D	Calibration	4	x	59452	2.0000	0.8762	
D:\GC-19\Data\082123\082124.D	Calibration	5	x	128031	5.0000	0.7414	
D:\GC-19\Data\082123\082125.D	Calibration	6	x	270332	10.0000	0.7569	
D:\GC-19\Data\082123\082126.D	Calibration	7	x	541816	20.0000	0.7477	
D:\GC-19\Data\082123\082127.D	Calibration	8	x	1118706	40.0000	0.7430	

Calibration Report

Batch Path	D:\GC-19\Data\082123\QuantResults\VOC S CAL.batch.bin		
Analysis Time	8/22/2023 3:13 PM	Analyst Name	FA\GC19
Report Time	8/22/2023 3:15:41 PM	Reporter Name	FA\GC19
Last Calib Update	8/22/2023 12:55 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

tert-Amyl Methyl Ether %RSE = 11.0

tert-Amyl Methyl Ether - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



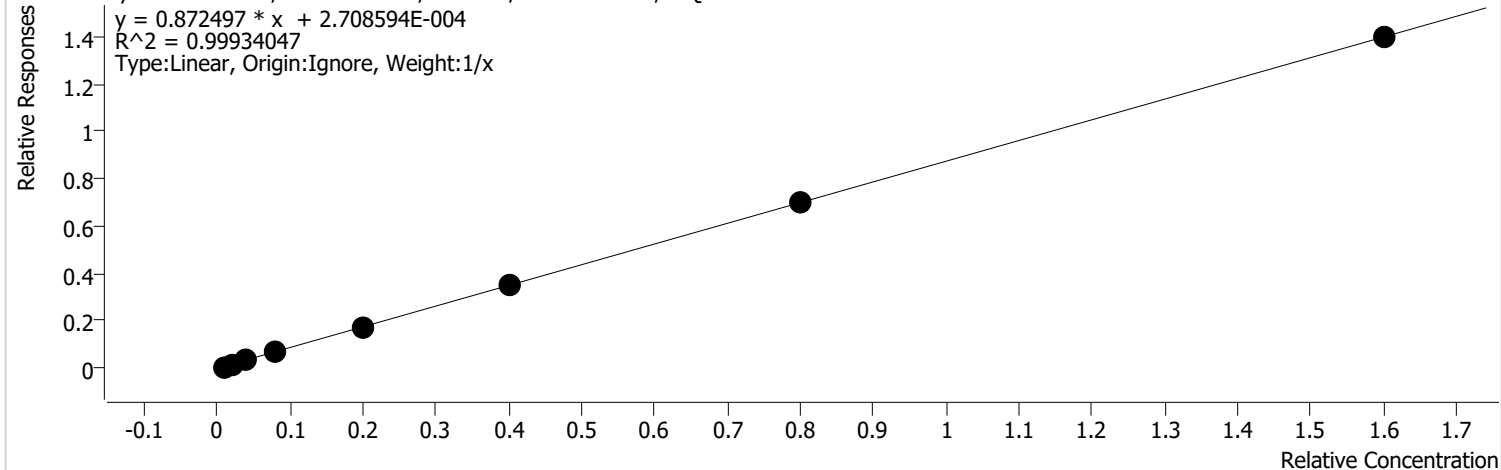
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\082123\082120.D	Calibration	1	x	7674	0.2000	1.1993	
D:\GC-19\Data\082123\082121.D	Calibration	2	x	23332	0.5000	1.3763	
D:\GC-19\Data\082123\082122.D	Calibration	3	x	52179	1.0000	1.5170	
D:\GC-19\Data\082123\082123.D	Calibration	4	x	99290	2.0000	1.4634	
D:\GC-19\Data\082123\082124.D	Calibration	5	x	231467	5.0000	1.3403	
D:\GC-19\Data\082123\082125.D	Calibration	6	x	471730	10.0000	1.3207	
D:\GC-19\Data\082123\082126.D	Calibration	7	x	1087411	20.0000	1.5005	
D:\GC-19\Data\082123\082127.D	Calibration	8	x	2496161	40.0000	1.6578	

Calibration Report

Batch Path	D:\GC-19\Data\082123\QuantResults\VOC S CAL.batch.bin		
Analysis Time	8/22/2023 3:13 PM	Analyst Name	FA\GC19
Report Time	8/22/2023 3:15:41 PM	Reporter Name	FA\GC19
Last Calib Update	8/22/2023 12:55 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

trichloroethylene %RSE = 10.1

trichloroethylene - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

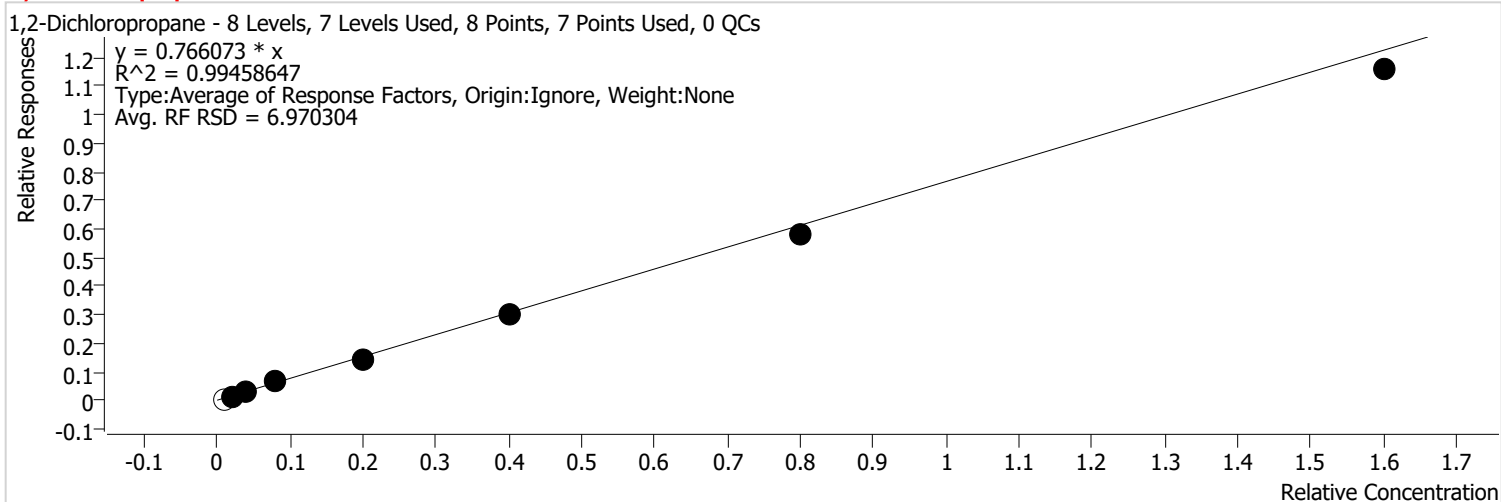


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\082123\082120.D	Calibration	1	x	4994	0.2000	0.7804	
D:\GC-19\Data\082123\082121.D	Calibration	2	x	13933	0.5000	0.8219	
D:\GC-19\Data\082123\082122.D	Calibration	3	x	35540	1.0000	1.0332	
D:\GC-19\Data\082123\082123.D	Calibration	4	x	63137	2.0000	0.9305	
D:\GC-19\Data\082123\082124.D	Calibration	5	x	148873	5.0000	0.8620	
D:\GC-19\Data\082123\082125.D	Calibration	6	x	310932	10.0000	0.8705	
D:\GC-19\Data\082123\082126.D	Calibration	7	x	631008	20.0000	0.8707	
D:\GC-19\Data\082123\082127.D	Calibration	8	x	1310996	40.0000	0.8707	

Calibration Report

Batch Path	D:\GC-19\Data\082123\QuantResults\VOC S CAL.batch.bin		
Analysis Time	8/22/2023 3:13 PM	Analyst Name	FA\GC19
Report Time	8/22/2023 3:15:41 PM	Reporter Name	FA\GC19
Last Calib Update	8/22/2023 12:55 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,2-Dichloropropane %RSE = 7.0



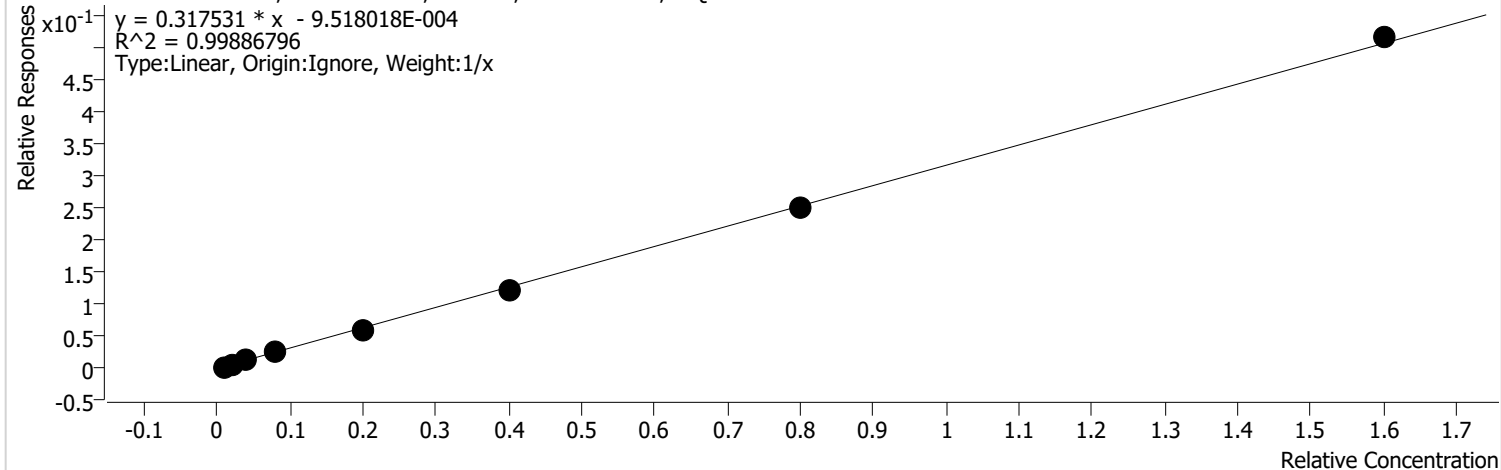
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\082123\082120.D	Calibration	1		4068	0.2000	0.6357	
D:\GC-19\Data\082123\082121.D	Calibration	2	x	12918	0.5000	0.7620	
D:\GC-19\Data\082123\082122.D	Calibration	3	x	29733	1.0000	0.8644	
D:\GC-19\Data\082123\082123.D	Calibration	4	x	55020	2.0000	0.8109	
D:\GC-19\Data\082123\082124.D	Calibration	5	x	124459	5.0000	0.7207	
D:\GC-19\Data\082123\082125.D	Calibration	6	x	268313	10.0000	0.7512	
D:\GC-19\Data\082123\082126.D	Calibration	7	x	528905	20.0000	0.7298	
D:\GC-19\Data\082123\082127.D	Calibration	8	x	1089278	40.0000	0.7234	

Calibration Report

Batch Path	D:\GC-19\Data\082123\QuantResults\VOC S CAL.batch.bin		
Analysis Time	8/22/2023 3:13 PM	Analyst Name	FA\GC19
Report Time	8/22/2023 3:15:41 PM	Reporter Name	FA\GC19
Last Calib Update	8/22/2023 12:55 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Dibromomethane %RSE = 6.4

Dibromomethane - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



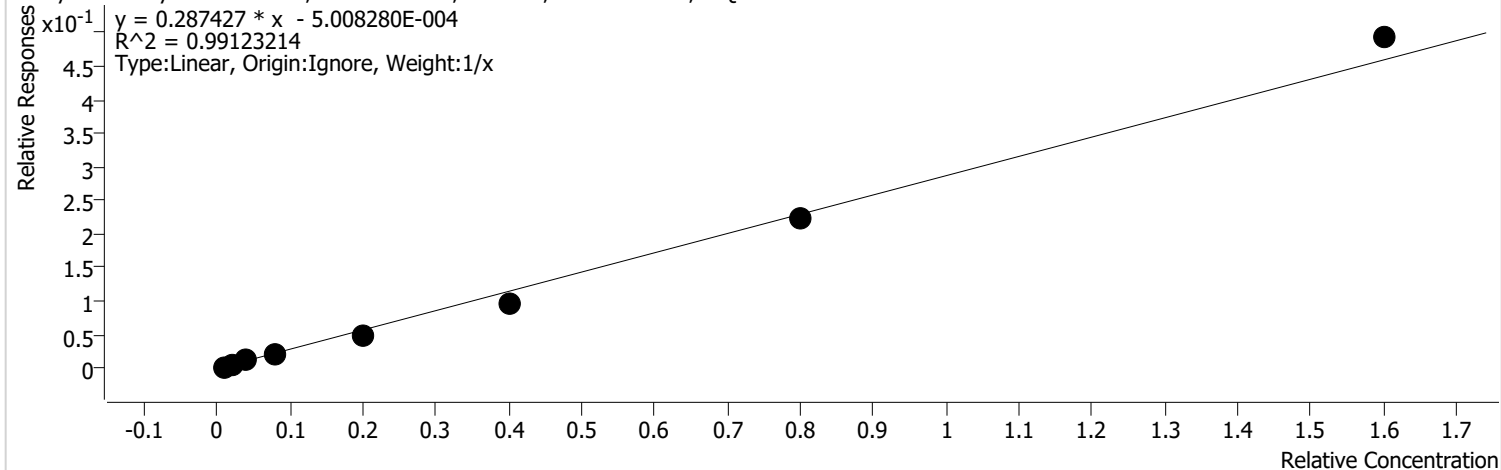
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\082123\082120.D	Calibration	1	x	1140	0.2000	0.1782	
D:\GC-19\Data\082123\082121.D	Calibration	2	x	4723	0.5000	0.2786	
D:\GC-19\Data\082123\082122.D	Calibration	3	x	10867	1.0000	0.3159	
D:\GC-19\Data\082123\082123.D	Calibration	4	x	22417	2.0000	0.3304	
D:\GC-19\Data\082123\082124.D	Calibration	5	x	49212	5.0000	0.2850	
D:\GC-19\Data\082123\082125.D	Calibration	6	x	108810	10.0000	0.3046	
D:\GC-19\Data\082123\082126.D	Calibration	7	x	227441	20.0000	0.3138	
D:\GC-19\Data\082123\082127.D	Calibration	8	x	485562	40.0000	0.3225	

Calibration Report

Batch Path	D:\GC-19\Data\082123\QuantResults\VOC S CAL.batch.bin		
Analysis Time	8/22/2023 3:13 PM	Analyst Name	FA\GC19
Report Time	8/22/2023 3:15:41 PM	Reporter Name	FA\GC19
Last Calib Update	8/22/2023 12:55 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Methyl methacrylate %RSE = 11.9

Methyl methacrylate - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



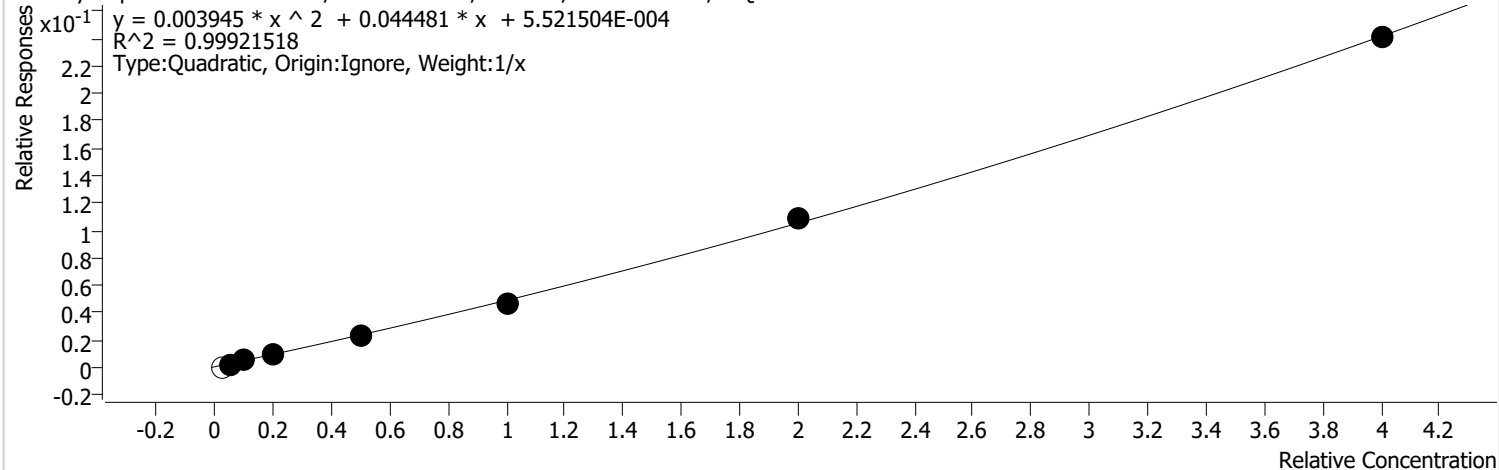
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\082123\082120.D	Calibration	1	x	1622	0.2000	0.2535	
D:\GC-19\Data\082123\082121.D	Calibration	2	x	4957	0.5000	0.2924	
D:\GC-19\Data\082123\082122.D	Calibration	3	x	10217	1.0000	0.2970	
D:\GC-19\Data\082123\082123.D	Calibration	4	x	19037	2.0000	0.2806	
D:\GC-19\Data\082123\082124.D	Calibration	5	x	41412	5.0000	0.2398	
D:\GC-19\Data\082123\082125.D	Calibration	6	x	85342	10.0000	0.2389	
D:\GC-19\Data\082123\082126.D	Calibration	7	x	201606	20.0000	0.2782	
D:\GC-19\Data\082123\082127.D	Calibration	8	x	463481	40.0000	0.3078	

Calibration Report

Batch Path	D:\GC-19\Data\082123\QuantResults\VOC S CAL.batch.bin	Analyst Name	FA\GC19
Analysis Time	8/22/2023 3:13 PM	Reporter Name	FA\GC19
Report Time	8/22/2023 3:15:41 PM	Batch State	Processed
Last Calib Update	8/22/2023 12:55 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

4-methyl-2-pentanone %RSE = 7.9

4-methyl-2-pentanone - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 0 QCs



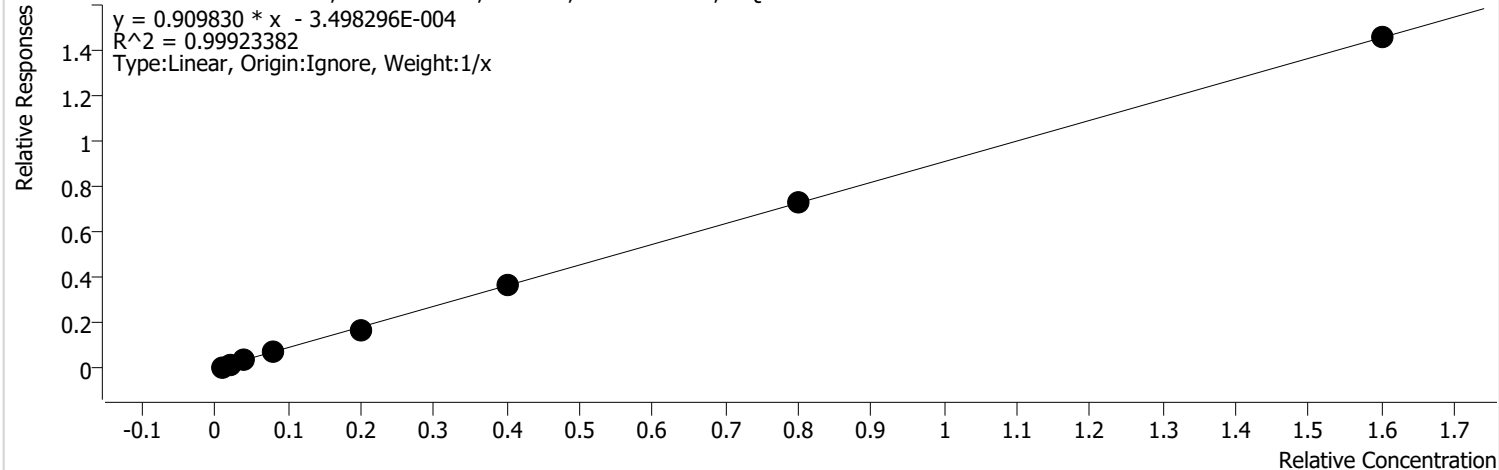
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\082123\082120.D	Calibration	1		371	0.5000	0.0232	
D:\GC-19\Data\082123\082121.D	Calibration	2	x	2193	1.2500	0.0517	
D:\GC-19\Data\082123\082122.D	Calibration	3	x	4629	2.5000	0.0538	
D:\GC-19\Data\082123\082123.D	Calibration	4	x	8769	5.0000	0.0517	
D:\GC-19\Data\082123\082124.D	Calibration	5	x	19285	12.5000	0.0447	
D:\GC-19\Data\082123\082125.D	Calibration	6	x	42352	25.0000	0.0474	
D:\GC-19\Data\082123\082126.D	Calibration	7	x	98264	50.0000	0.0542	
D:\GC-19\Data\082123\082127.D	Calibration	8	x	226342	100.0000	0.0601	

Calibration Report

Batch Path	D:\GC-19\Data\082123\QuantResults\VOC S CAL.batch.bin		
Analysis Time	8/22/2023 3:13 PM	Analyst Name	FA\GC19
Report Time	8/22/2023 3:15:41 PM	Reporter Name	FA\GC19
Last Calib Update	8/22/2023 12:55 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

bromodichloromethane %RSE = 8.3

bromodichloromethane - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



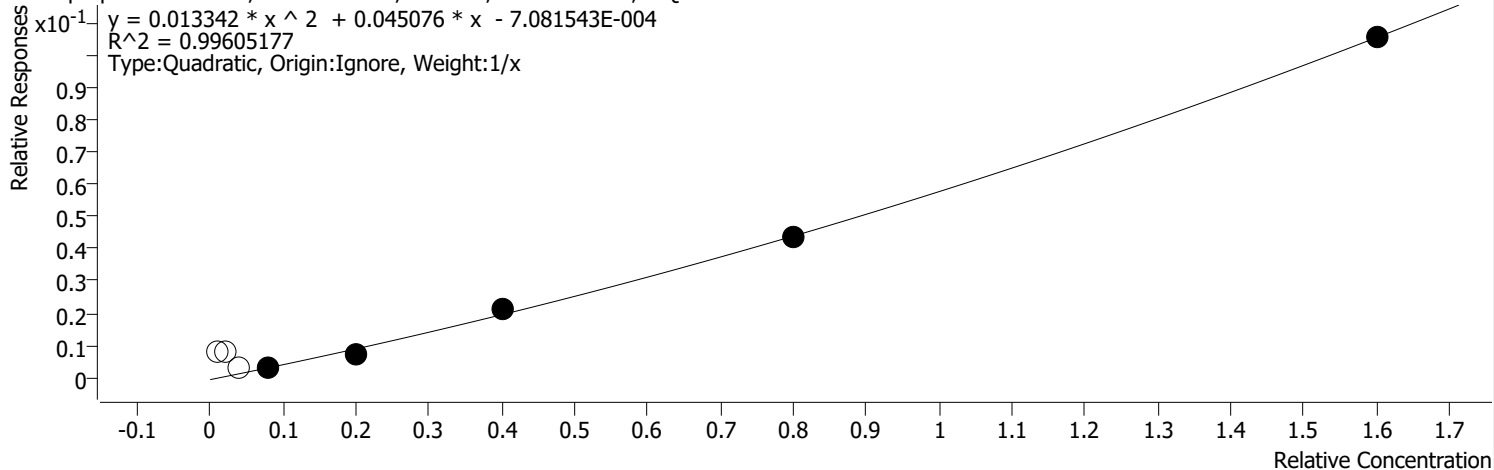
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\082123\082120.D	Calibration	1	x	5004	0.2000	0.7821	
D:\GC-19\Data\082123\082121.D	Calibration	2	x	14397	0.5000	0.8493	
D:\GC-19\Data\082123\082122.D	Calibration	3	x	35747	1.0000	1.0392	
D:\GC-19\Data\082123\082123.D	Calibration	4	x	64522	2.0000	0.9509	
D:\GC-19\Data\082123\082124.D	Calibration	5	x	146266	5.0000	0.8469	
D:\GC-19\Data\082123\082125.D	Calibration	6	x	323762	10.0000	0.9064	
D:\GC-19\Data\082123\082126.D	Calibration	7	x	664295	20.0000	0.9167	
D:\GC-19\Data\082123\082127.D	Calibration	8	x	1369368	40.0000	0.9095	

Calibration Report

Batch Path	D:\GC-19\Data\082123\QuantResults\VOC S CAL.batch.bin		
Analysis Time	8/22/2023 3:13 PM	Analyst Name	FA\GC19
Report Time	8/22/2023 3:15:41 PM	Reporter Name	FA\GC19
Last Calib Update	8/22/2023 12:55 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

2-Nitropropane %RSE = 16.9

2-Nitropropane - 8 Levels, 5 Levels Used, 8 Points, 5 Points Used, 0 QCs



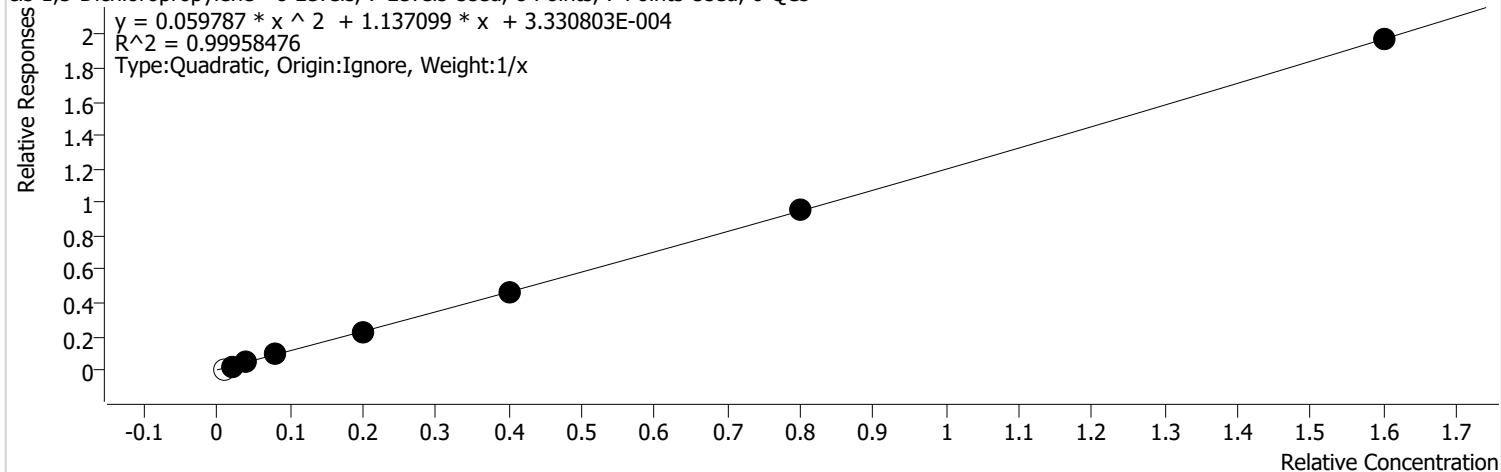
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\082123\082120.D	Calibration	1		6115	0.2000	0.9556	
D:\GC-19\Data\082123\082121.D	Calibration	2		6872	0.5000	0.4054	
D:\GC-19\Data\082123\082122.D	Calibration	3		2827	1.0000	0.0822	
D:\GC-19\Data\082123\082123.D	Calibration	4	x	2876	2.0000	0.0424	
D:\GC-19\Data\082123\082124.D	Calibration	5	x	5977	5.0000	0.0346	
D:\GC-19\Data\082123\082125.D	Calibration	6	x	19218	10.0000	0.0538	
D:\GC-19\Data\082123\082126.D	Calibration	7	x	39293	20.0000	0.0542	
D:\GC-19\Data\082123\082127.D	Calibration	8	x	99308	40.0000	0.0660	

Calibration Report

Batch Path	D:\GC-19\Data\082123\QuantResults\VOC S CAL.batch.bin	Analyst Name	FA\GC19
Analysis Time	8/22/2023 3:13 PM	Reporter Name	FA\GC19
Report Time	8/22/2023 3:15:41 PM	Batch State	Processed
Last Calib Update	8/22/2023 12:55 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

cis-1,3-Dichloropropylene %RSE = 7.9

cis-1,3-Dichloropropylene - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 0 QCs

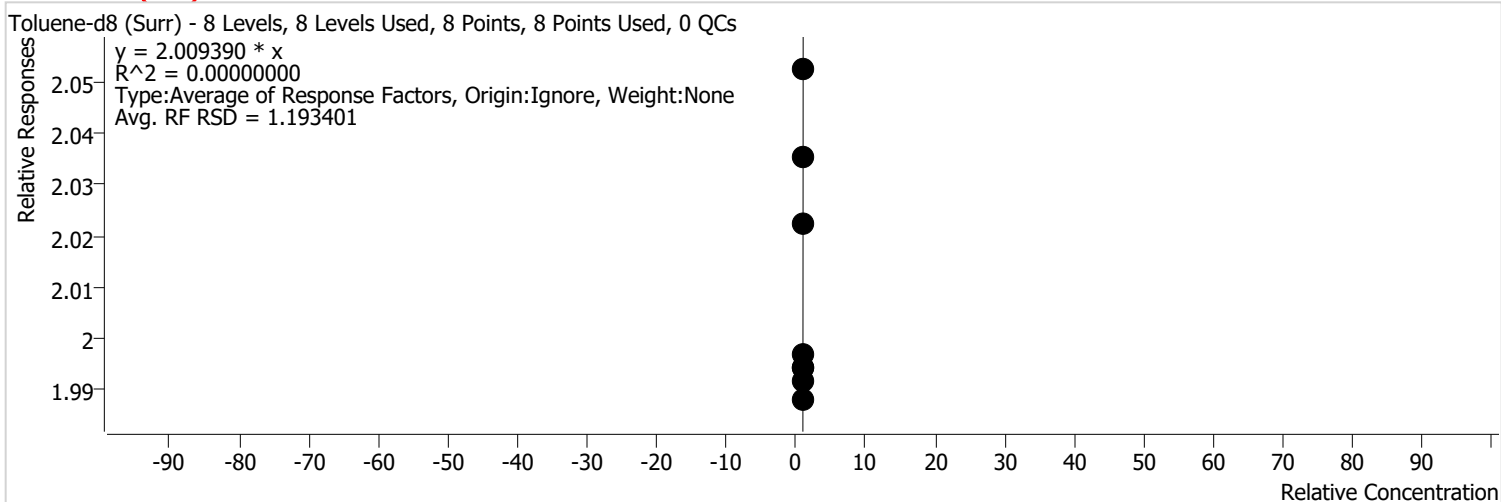


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\082123\082120.D	Calibration	1		5686	0.2000	0.8886	
D:\GC-19\Data\082123\082121.D	Calibration	2	x	17574	0.5000	1.0367	
D:\GC-19\Data\082123\082122.D	Calibration	3	x	43573	1.0000	1.2668	
D:\GC-19\Data\082123\082123.D	Calibration	4	x	80707	2.0000	1.1895	
D:\GC-19\Data\082123\082124.D	Calibration	5	x	190980	5.0000	1.1059	
D:\GC-19\Data\082123\082125.D	Calibration	6	x	411168	10.0000	1.1512	
D:\GC-19\Data\082123\082126.D	Calibration	7	x	868881	20.0000	1.1990	
D:\GC-19\Data\082123\082127.D	Calibration	8	x	1853123	40.0000	1.2308	

Calibration Report

Batch Path	D:\GC-19\Data\082123\QuantResults\VOC S CAL.batch.bin	Analyst Name	FA\GC19
Analysis Time	8/22/2023 3:13 PM	Reporter Name	FA\GC19
Report Time	8/22/2023 3:15:41 PM	Batch State	Processed
Last Calib Update	8/22/2023 12:55 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

Toluene-d8 (Surr) %RSE =



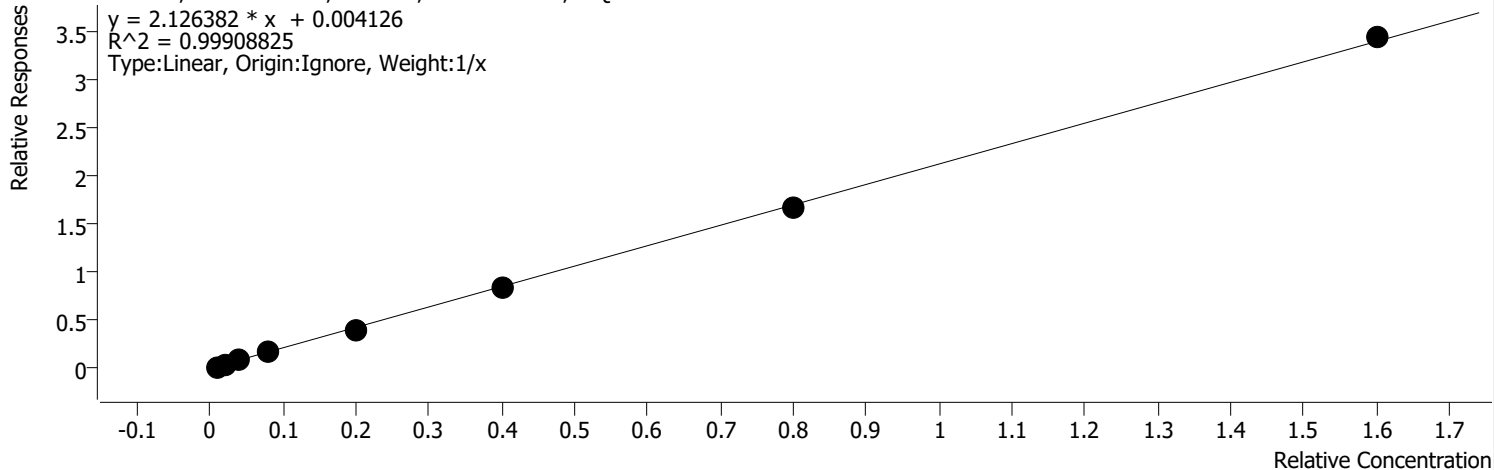
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\082123\082127.D	Calibration	8	x	1915090	25.0000	2.0351	
D:\GC-19\Data\082123\082126.D	Calibration	7	x	1859014	25.0000	2.0522	
D:\GC-19\Data\082123\082125.D	Calibration	6	x	1805732	25.0000	2.0222	
D:\GC-19\Data\082123\082124.D	Calibration	5	x	1724400	25.0000	1.9970	
D:\GC-19\Data\082123\082123.D	Calibration	4	x	1686389	25.0000	1.9883	
D:\GC-19\Data\082123\082122.D	Calibration	3	x	1715095	25.0000	1.9945	
D:\GC-19\Data\082123\082121.D	Calibration	2	x	1688077	25.0000	1.9916	
D:\GC-19\Data\082123\082120.D	Calibration	1	x	1595112	25.0000	1.9942	

Calibration Report

Batch Path	D:\GC-19\Data\082123\QuantResults\VOC S CAL.batch.bin	Analyst Name	FA\GC19
Analysis Time	8/22/2023 3:13 PM	Reporter Name	FA\GC19
Report Time	8/22/2023 3:15:41 PM	Batch State	Processed
Last Calib Update	8/22/2023 12:55 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

Toluene %RSE = 9.6

Toluene - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

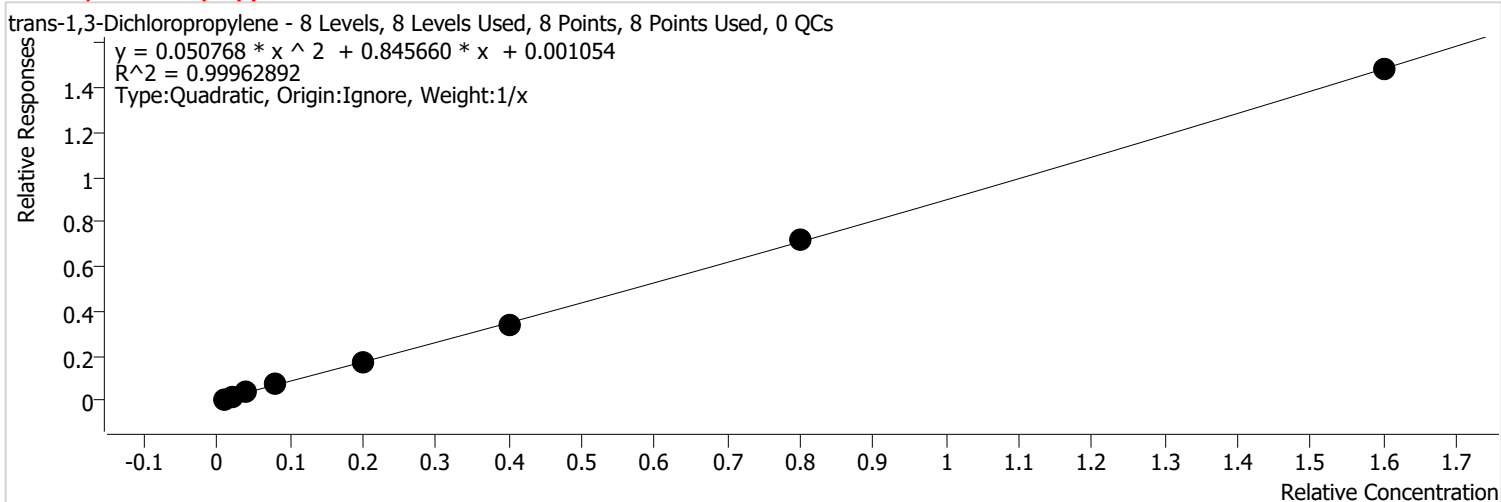


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\082123\082120.D	Calibration	1	x	15267	0.2000	2.3858	
D:\GC-19\Data\082123\082121.D	Calibration	2	x	38024	0.5000	2.2430	
D:\GC-19\Data\082123\082122.D	Calibration	3	x	90183	1.0000	2.6218	
D:\GC-19\Data\082123\082123.D	Calibration	4	x	154420	2.0000	2.2759	
D:\GC-19\Data\082123\082124.D	Calibration	5	x	353889	5.0000	2.0492	
D:\GC-19\Data\082123\082125.D	Calibration	6	x	747455	10.0000	2.0927	
D:\GC-19\Data\082123\082126.D	Calibration	7	x	1525467	20.0000	2.1050	
D:\GC-19\Data\082123\082127.D	Calibration	8	x	3241956	40.0000	2.1532	

Calibration Report

Batch Path	D:\GC-19\Data\082123\QuantResults\VOC S CAL.batch.bin		
Analysis Time	8/22/2023 3:13 PM	Analyst Name	FA\GC19
Report Time	8/22/2023 3:15:41 PM	Reporter Name	FA\GC19
Last Calib Update	8/22/2023 12:55 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

trans-1,3-Dichloropropylene %RSE = 5.0



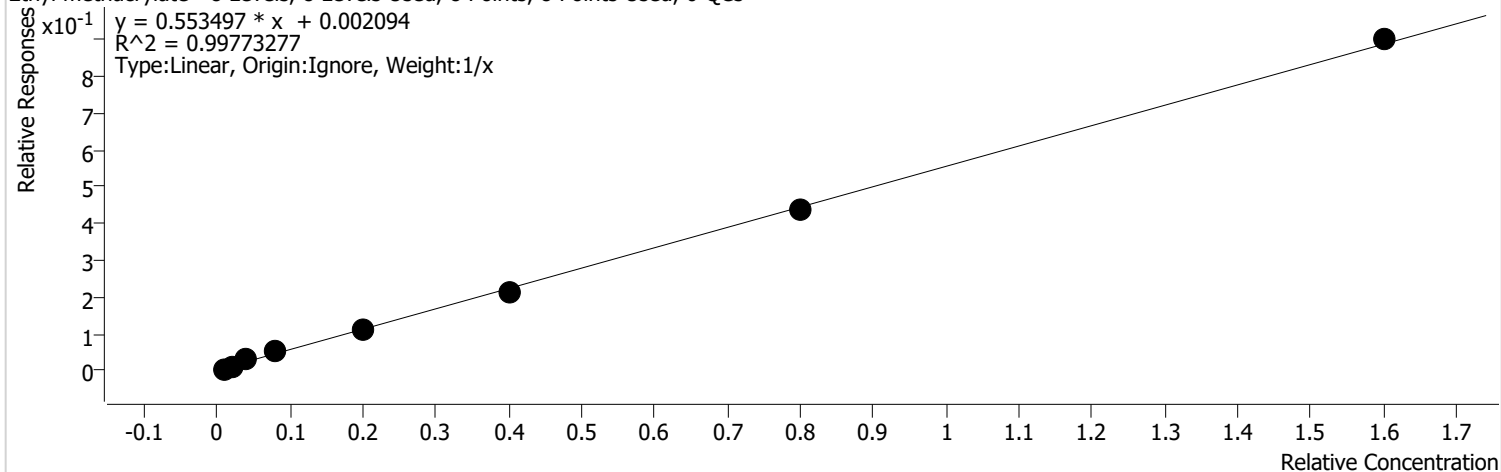
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\082123\082120.D	Calibration	1	x	5960	0.2000	0.9314	
D:\GC-19\Data\082123\082121.D	Calibration	2	x	15005	0.5000	0.8852	
D:\GC-19\Data\082123\082122.D	Calibration	3	x	32070	1.0000	0.9323	
D:\GC-19\Data\082123\082123.D	Calibration	4	x	61356	2.0000	0.9043	
D:\GC-19\Data\082123\082124.D	Calibration	5	x	142367	5.0000	0.8244	
D:\GC-19\Data\082123\082125.D	Calibration	6	x	304717	10.0000	0.8531	
D:\GC-19\Data\082123\082126.D	Calibration	7	x	654642	20.0000	0.9034	
D:\GC-19\Data\082123\082127.D	Calibration	8	x	1392766	40.0000	0.9250	

Calibration Report

Batch Path	D:\GC-19\Data\082123\QuantResults\VOC S CAL.batch.bin		
Analysis Time	8/22/2023 3:13 PM	Analyst Name	FA\GC19
Report Time	8/22/2023 3:15:41 PM	Reporter Name	FA\GC19
Last Calib Update	8/22/2023 12:55 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Ethyl methacrylate %RSE = 17.2

Ethyl methacrylate - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

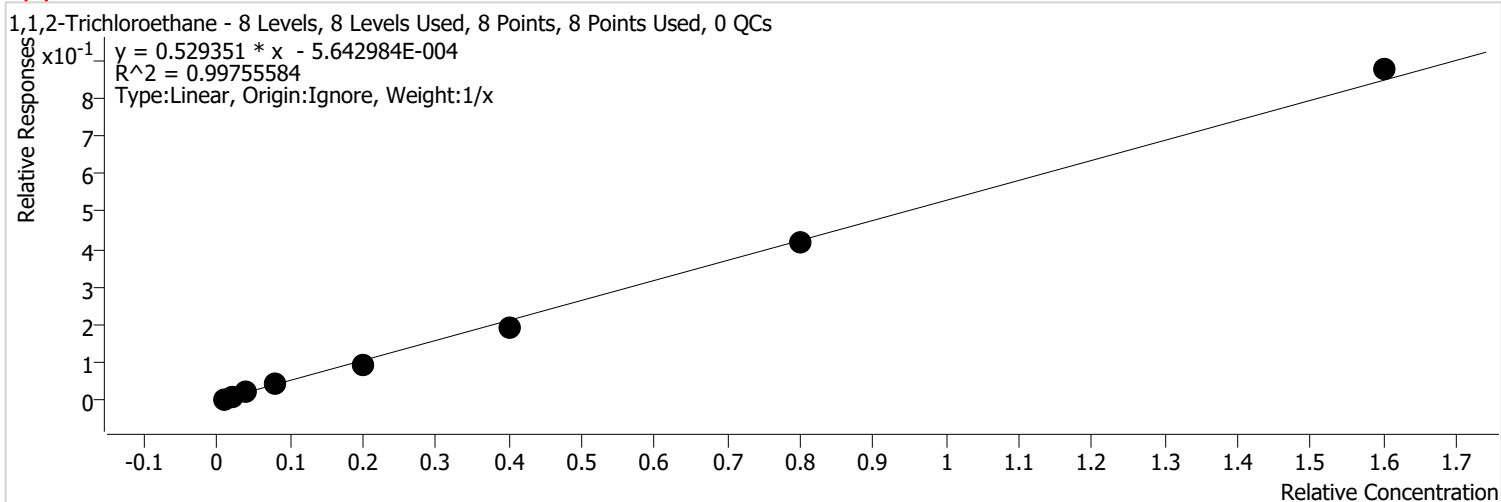


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\082123\082120.D	Calibration	1	x	4105	0.2000	0.6415	
D:\GC-19\Data\082123\082121.D	Calibration	2	x	11475	0.5000	0.6769	
D:\GC-19\Data\082123\082122.D	Calibration	3	x	25275	1.0000	0.7348	
D:\GC-19\Data\082123\082123.D	Calibration	4	x	44466	2.0000	0.6553	
D:\GC-19\Data\082123\082124.D	Calibration	5	x	94416	5.0000	0.5467	
D:\GC-19\Data\082123\082125.D	Calibration	6	x	187876	10.0000	0.5260	
D:\GC-19\Data\082123\082126.D	Calibration	7	x	397860	20.0000	0.5490	
D:\GC-19\Data\082123\082127.D	Calibration	8	x	846675	40.0000	0.5623	

Calibration Report

Batch Path	D:\GC-19\Data\082123\QuantResults\VOC S CAL.batch.bin		
Analysis Time	8/22/2023 3:13 PM	Analyst Name	FA\GC19
Report Time	8/22/2023 3:15:41 PM	Reporter Name	FA\GC19
Last Calib Update	8/22/2023 12:55 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,1,2-Trichloroethane %RSE = 6.8

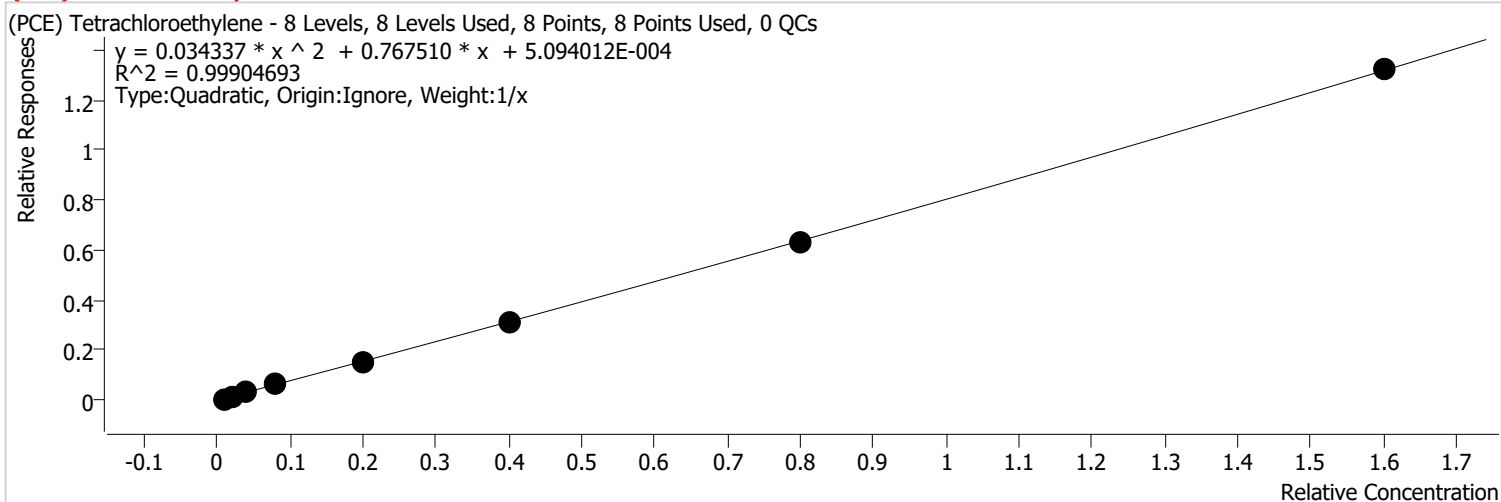


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\082123\082120.D	Calibration	1	x	3062	0.2000	0.4786	
D:\GC-19\Data\082123\082121.D	Calibration	2	x	8304	0.5000	0.4899	
D:\GC-19\Data\082123\082122.D	Calibration	3	x	19061	1.0000	0.5541	
D:\GC-19\Data\082123\082123.D	Calibration	4	x	37732	2.0000	0.5561	
D:\GC-19\Data\082123\082124.D	Calibration	5	x	82762	5.0000	0.4792	
D:\GC-19\Data\082123\082125.D	Calibration	6	x	172175	10.0000	0.4820	
D:\GC-19\Data\082123\082126.D	Calibration	7	x	379108	20.0000	0.5231	
D:\GC-19\Data\082123\082127.D	Calibration	8	x	822880	40.0000	0.5465	

Calibration Report

Batch Path	D:\GC-19\Data\082123\QuantResults\VOC S CAL.batch.bin		
Analysis Time	8/22/2023 3:13 PM	Analyst Name	FA\GC19
Report Time	8/22/2023 3:15:41 PM	Reporter Name	FA\GC19
Last Calib Update	8/22/2023 12:55 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

(PCE) Tetrachloroethylene %RSE = 14.0



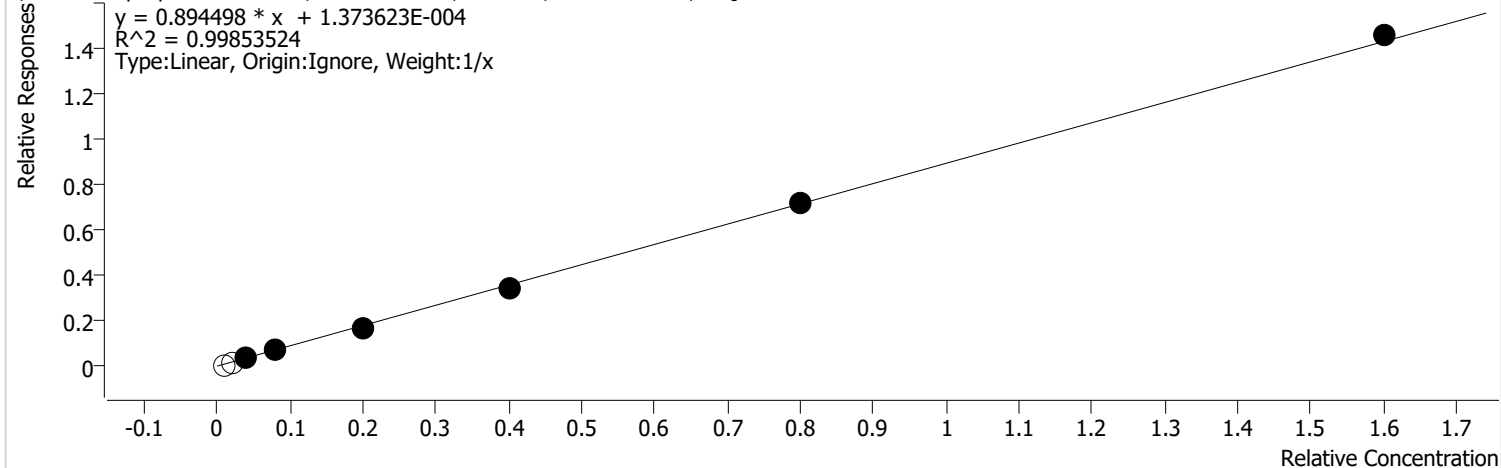
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\082123\082120.D	Calibration	1	x	4386	0.2000	0.6854	
D:\GC-19\Data\082123\082121.D	Calibration	2	x	12642	0.5000	0.7457	
D:\GC-19\Data\082123\082122.D	Calibration	3	x	33073	1.0000	0.9615	
D:\GC-19\Data\082123\082123.D	Calibration	4	x	55570	2.0000	0.8190	
D:\GC-19\Data\082123\082124.D	Calibration	5	x	131829	5.0000	0.7633	
D:\GC-19\Data\082123\082125.D	Calibration	6	x	275720	10.0000	0.7719	
D:\GC-19\Data\082123\082126.D	Calibration	7	x	571899	20.0000	0.7892	
D:\GC-19\Data\082123\082127.D	Calibration	8	x	1242247	40.0000	0.8250	

Calibration Report

Batch Path	D:\GC-19\Data\082123\QuantResults\VOC S CAL.batch.bin		
Analysis Time	8/22/2023 3:13 PM	Analyst Name	FA\GC19
Report Time	8/22/2023 3:15:41 PM	Reporter Name	FA\GC19
Last Calib Update	8/22/2023 12:55 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,3-Dichloropropane %RSE = 6.7

1,3-Dichloropropane - 8 Levels, 6 Levels Used, 8 Points, 6 Points Used, 0 QCs



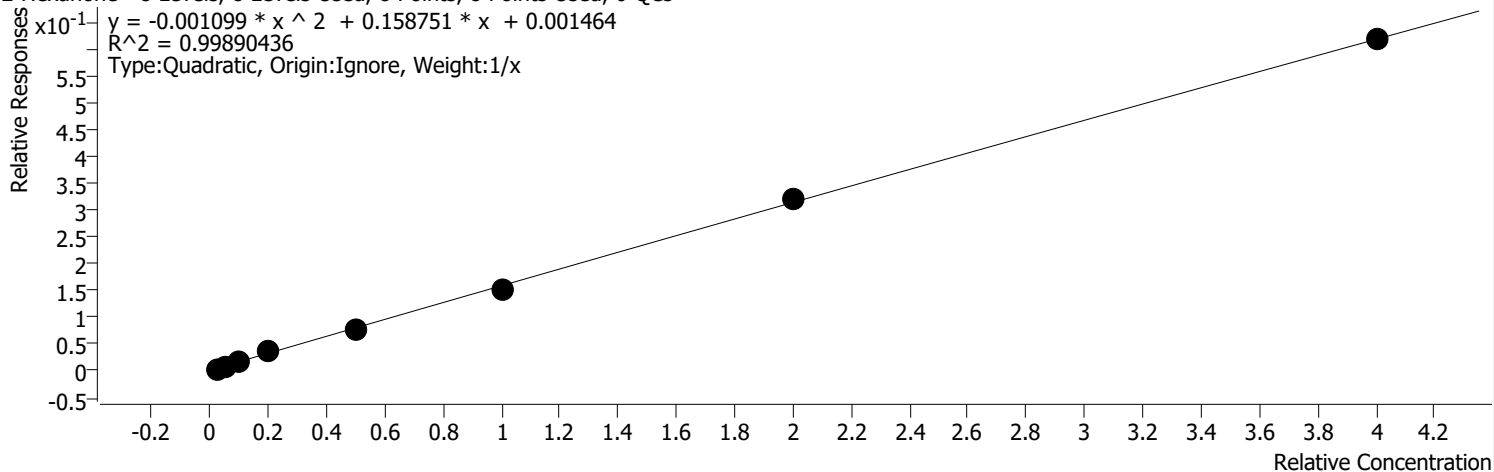
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\082123\082120.D	Calibration	1		4703	0.2000	0.7350	
D:\GC-19\Data\082123\082121.D	Calibration	2		14217	0.5000	0.8387	
D:\GC-19\Data\082123\082122.D	Calibration	3	x	33413	1.0000	0.9714	
D:\GC-19\Data\082123\082123.D	Calibration	4	x	62828	2.0000	0.9260	
D:\GC-19\Data\082123\082124.D	Calibration	5	x	141574	5.0000	0.8198	
D:\GC-19\Data\082123\082125.D	Calibration	6	x	302623	10.0000	0.8473	
D:\GC-19\Data\082123\082126.D	Calibration	7	x	650931	20.0000	0.8982	
D:\GC-19\Data\082123\082127.D	Calibration	8	x	1371368	40.0000	0.9108	

Calibration Report

Batch Path	D:\GC-19\Data\082123\QuantResults\VOC S CAL.batch.bin		
Analysis Time	8/22/2023 3:13 PM	Analyst Name	FA\GC19
Report Time	8/22/2023 3:15:41 PM	Reporter Name	FA\GC19
Last Calib Update	8/22/2023 12:55 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

2-Hexanone %RSE = 11.3

2-Hexanone - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



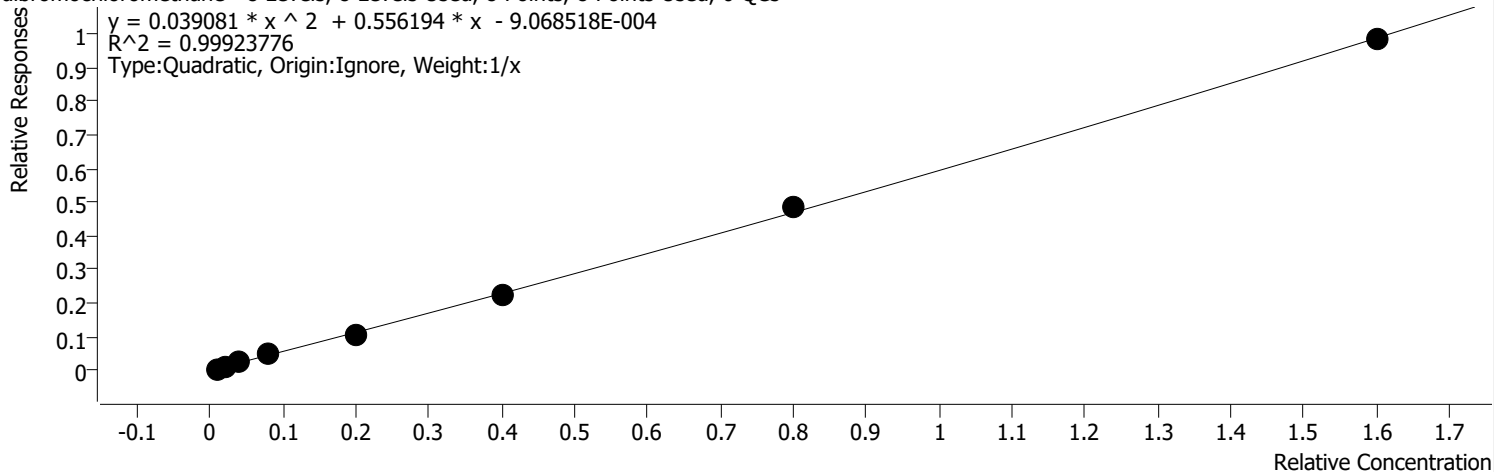
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\082123\082120.D	Calibration	1	x	3247	0.5000	0.2030	
D:\GC-19\Data\082123\082121.D	Calibration	2	x	8086	1.2500	0.1908	
D:\GC-19\Data\082123\082122.D	Calibration	3	x	16499	2.5000	0.1919	
D:\GC-19\Data\082123\082123.D	Calibration	4	x	31134	5.0000	0.1835	
D:\GC-19\Data\082123\082124.D	Calibration	5	x	66802	12.5000	0.1547	
D:\GC-19\Data\082123\082125.D	Calibration	6	x	136478	25.0000	0.1528	
D:\GC-19\Data\082123\082126.D	Calibration	7	x	289975	50.0000	0.1601	
D:\GC-19\Data\082123\082127.D	Calibration	8	x	581435	100.0000	0.1545	

Calibration Report

Batch Path	D:\GC-19\Data\082123\QuantResults\VOC S CAL.batch.bin		
Analysis Time	8/22/2023 3:13 PM	Analyst Name	FA\GC19
Report Time	8/22/2023 3:15:41 PM	Reporter Name	FA\GC19
Last Calib Update	8/22/2023 12:55 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

dibromochloromethane %RSE = 6.0

dibromochloromethane - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



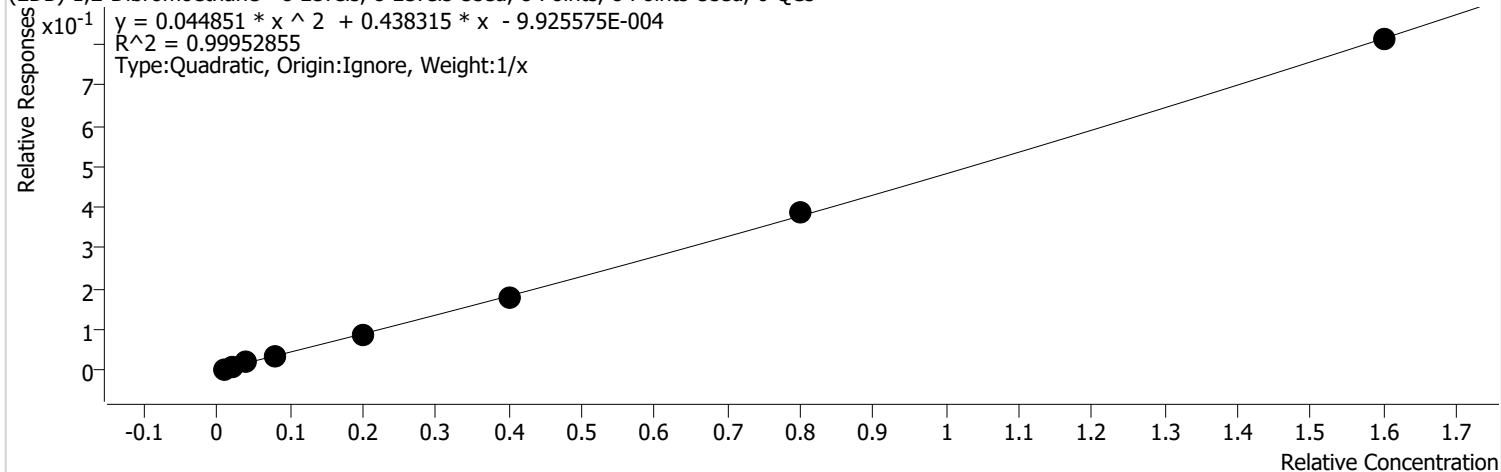
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\082123\082120.D	Calibration	1	x	2668	0.2000	0.4170	
D:\GC-19\Data\082123\082121.D	Calibration	2	x	8459	0.5000	0.4990	
D:\GC-19\Data\082123\082122.D	Calibration	3	x	19972	1.0000	0.5806	
D:\GC-19\Data\082123\082123.D	Calibration	4	x	39242	2.0000	0.5783	
D:\GC-19\Data\082123\082124.D	Calibration	5	x	89918	5.0000	0.5207	
D:\GC-19\Data\082123\082125.D	Calibration	6	x	198899	10.0000	0.5569	
D:\GC-19\Data\082123\082126.D	Calibration	7	x	437537	20.0000	0.6038	
D:\GC-19\Data\082123\082127.D	Calibration	8	x	926133	40.0000	0.6151	

Calibration Report

Batch Path	D:\GC-19\Data\082123\QuantResults\VOC S CAL.batch.bin		
Analysis Time	8/22/2023 3:13 PM	Analyst Name	FA\GC19
Report Time	8/22/2023 3:15:41 PM	Reporter Name	FA\GC19
Last Calib Update	8/22/2023 12:55 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

(EDB) 1,2-Dibromoethane %RSE = 4.9

(EDB) 1,2-Dibromoethane - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



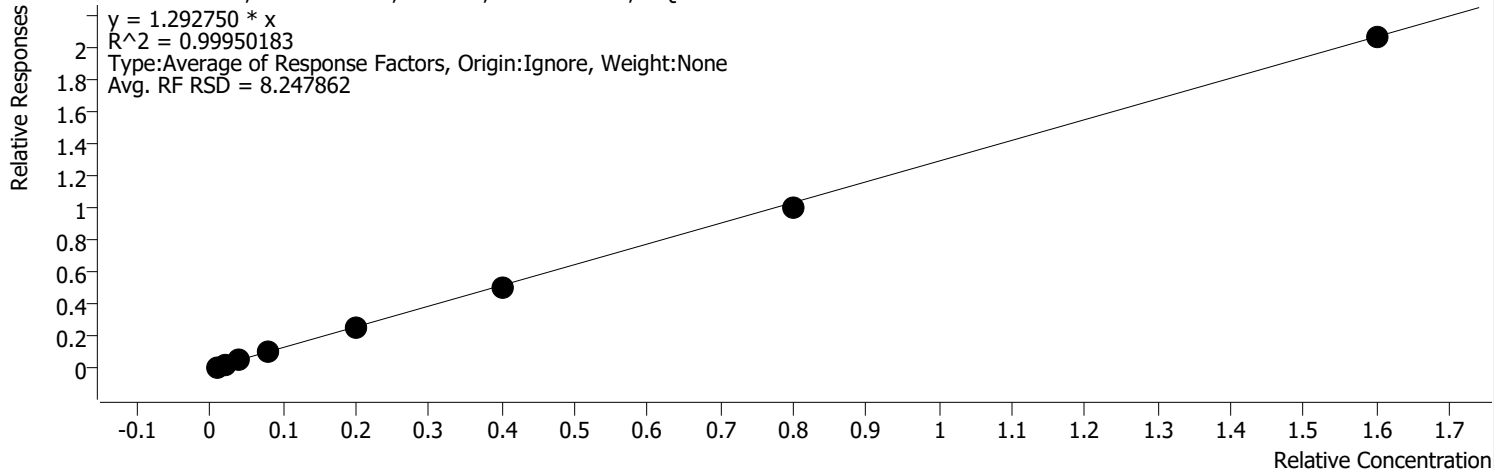
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\082123\082120.D	Calibration	1	x	1876	0.2000	0.2931	
D:\GC-19\Data\082123\082121.D	Calibration	2	x	6533	0.5000	0.3854	
D:\GC-19\Data\082123\082122.D	Calibration	3	x	15230	1.0000	0.4428	
D:\GC-19\Data\082123\082123.D	Calibration	4	x	30595	2.0000	0.4509	
D:\GC-19\Data\082123\082124.D	Calibration	5	x	72528	5.0000	0.4200	
D:\GC-19\Data\082123\082125.D	Calibration	6	x	158374	10.0000	0.4434	
D:\GC-19\Data\082123\082126.D	Calibration	7	x	351035	20.0000	0.4844	
D:\GC-19\Data\082123\082127.D	Calibration	8	x	764163	40.0000	0.5075	

Calibration Report

Batch Path	D:\GC-19\Data\082123\QuantResults\VOC S CAL.batch.bin		
Analysis Time	8/22/2023 3:13 PM	Analyst Name	FA\GC19
Report Time	8/22/2023 3:15:41 PM	Reporter Name	FA\GC19
Last Calib Update	8/22/2023 12:55 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Chlorobenzene %RSE = 8.2

Chlorobenzene - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

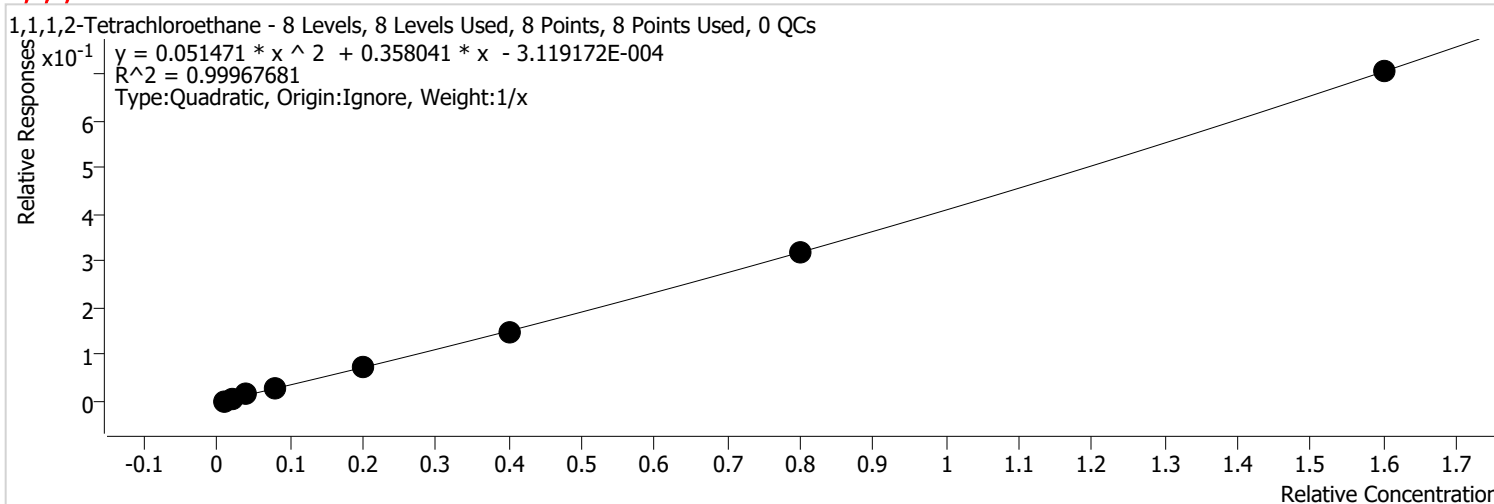


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\082123\082120.D	Calibration	1	x	13826	0.2000	1.1517	
D:\GC-19\Data\082123\082121.D	Calibration	2	x	39772	0.5000	1.2689	
D:\GC-19\Data\082123\082122.D	Calibration	3	x	95097	1.0000	1.5083	
D:\GC-19\Data\082123\082123.D	Calibration	4	x	168012	2.0000	1.3752	
D:\GC-19\Data\082123\082124.D	Calibration	5	x	382506	5.0000	1.2398	
D:\GC-19\Data\082123\082125.D	Calibration	6	x	814479	10.0000	1.2625	
D:\GC-19\Data\082123\082126.D	Calibration	7	x	1656513	20.0000	1.2467	
D:\GC-19\Data\082123\082127.D	Calibration	8	x	3437210	40.0000	1.2888	

Calibration Report

Batch Path	D:\GC-19\Data\082123\QuantResults\VOC S CAL.batch.bin		
Analysis Time	8/22/2023 3:13 PM	Analyst Name	FA\GC19
Report Time	8/22/2023 3:15:41 PM	Reporter Name	FA\GC19
Last Calib Update	8/22/2023 12:55 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,1,1,2-Tetrachloroethane %RSE = 7.5



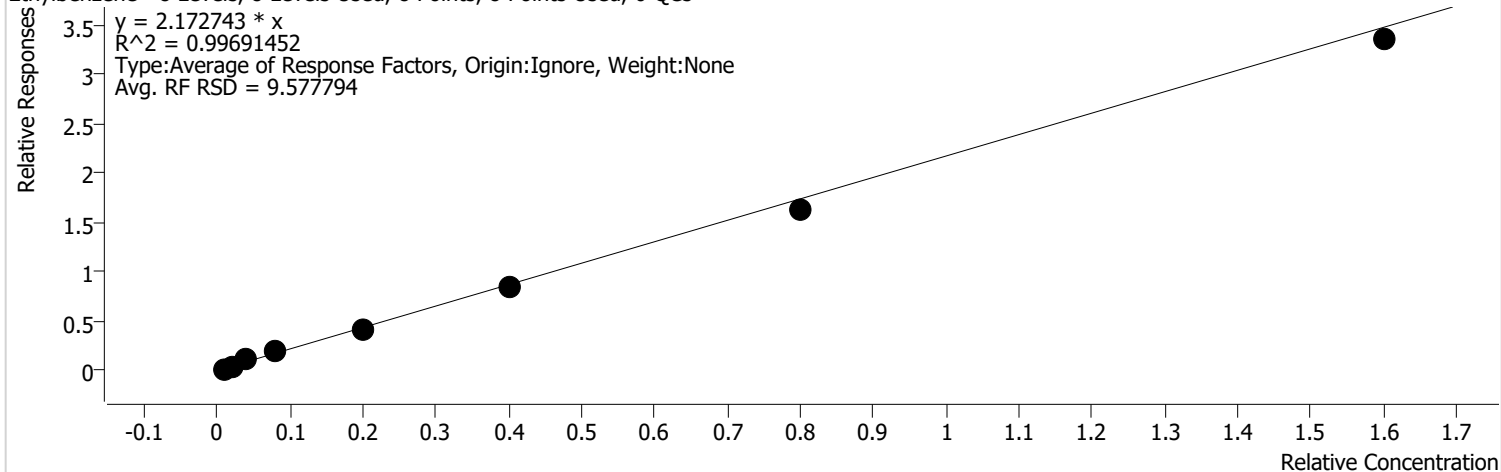
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\082123\082120.D	Calibration	1	x	3413	0.2000	0.2843	
D:\GC-19\Data\082123\082121.D	Calibration	2	x	10323	0.5000	0.3293	
D:\GC-19\Data\082123\082122.D	Calibration	3	x	24743	1.0000	0.3924	
D:\GC-19\Data\082123\082123.D	Calibration	4	x	46535	2.0000	0.3809	
D:\GC-19\Data\082123\082124.D	Calibration	5	x	110610	5.0000	0.3585	
D:\GC-19\Data\082123\082125.D	Calibration	6	x	238816	10.0000	0.3702	
D:\GC-19\Data\082123\082126.D	Calibration	7	x	533316	20.0000	0.4014	
D:\GC-19\Data\082123\082127.D	Calibration	8	x	1173677	40.0000	0.4401	

Calibration Report

Batch Path	D:\GC-19\Data\082123\QuantResults\VOC S CAL.batch.bin		
Analysis Time	8/22/2023 3:13 PM	Analyst Name	FA\GC19
Report Time	8/22/2023 3:15:41 PM	Reporter Name	FA\GC19
Last Calib Update	8/22/2023 12:55 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Ethylbenzene %RSE = 9.6

Ethylbenzene - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

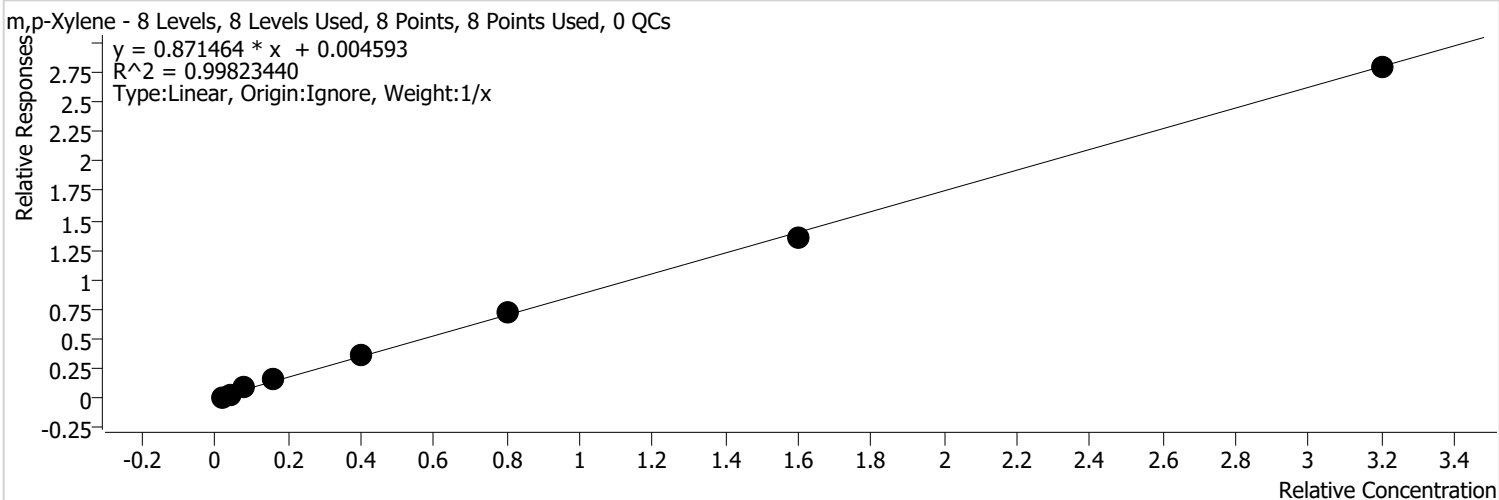


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\082123\082120.D	Calibration	1	x	24132	0.2000	2.0101	
D:\GC-19\Data\082123\082121.D	Calibration	2	x	66444	0.5000	2.1198	
D:\GC-19\Data\082123\082122.D	Calibration	3	x	166208	1.0000	2.6362	
D:\GC-19\Data\082123\082123.D	Calibration	4	x	282415	2.0000	2.3117	
D:\GC-19\Data\082123\082124.D	Calibration	5	x	638585	5.0000	2.0698	
D:\GC-19\Data\082123\082125.D	Calibration	6	x	1355718	10.0000	2.1015	
D:\GC-19\Data\082123\082126.D	Calibration	7	x	2708654	20.0000	2.0385	
D:\GC-19\Data\082123\082127.D	Calibration	8	x	5585302	40.0000	2.0943	

Calibration Report

Batch Path	D:\GC-19\Data\082123\QuantResults\VOC S CAL.batch.bin		
Analysis Time	8/22/2023 3:13 PM	Analyst Name	FA\GC19
Report Time	8/22/2023 3:15:41 PM	Reporter Name	FA\GC19
Last Calib Update	8/22/2023 12:55 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

m,p-Xylene %RSE = 16.3

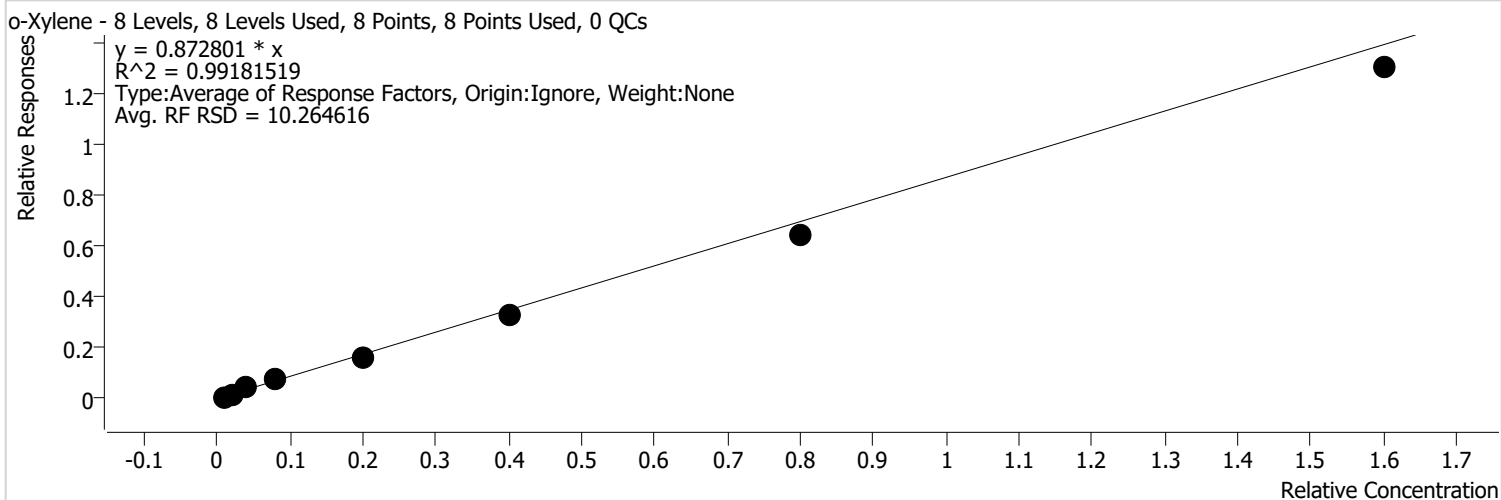


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\082123\082120.D	Calibration	1	x	22011	0.4000	0.9167	
D:\GC-19\Data\082123\082121.D	Calibration	2	x	56940	1.0000	0.9083	
D:\GC-19\Data\082123\082122.D	Calibration	3	x	143559	2.0000	1.1385	
D:\GC-19\Data\082123\082123.D	Calibration	4	x	247255	4.0000	1.0119	
D:\GC-19\Data\082123\082124.D	Calibration	5	x	548054	10.0000	0.8882	
D:\GC-19\Data\082123\082125.D	Calibration	6	x	1154158	20.0000	0.8945	
D:\GC-19\Data\082123\082126.D	Calibration	7	x	2267576	40.0000	0.8533	
D:\GC-19\Data\082123\082127.D	Calibration	8	x	4639288	80.0000	0.8698	

Calibration Report

Batch Path	D:\GC-19\Data\082123\QuantResults\VOC S CAL.batch.bin		
Analysis Time	8/22/2023 3:13 PM	Analyst Name	FA\GC19
Report Time	8/22/2023 3:15:41 PM	Reporter Name	FA\GC19
Last Calib Update	8/22/2023 12:55 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

o-Xylene %RSE = 10.3



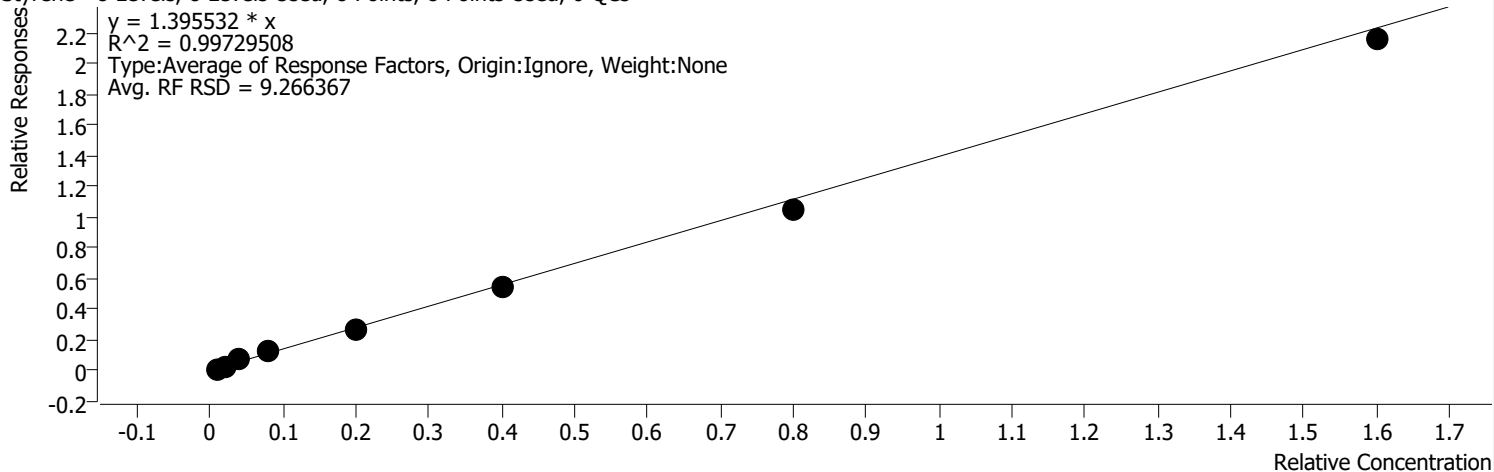
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\082123\082120.D	Calibration	1	x	9933	0.2000	0.8274	
D:\GC-19\Data\082123\082121.D	Calibration	2	x	27190	0.5000	0.8675	
D:\GC-19\Data\082123\082122.D	Calibration	3	x	67043	1.0000	1.0634	
D:\GC-19\Data\082123\082123.D	Calibration	4	x	115863	2.0000	0.9484	
D:\GC-19\Data\082123\082124.D	Calibration	5	x	253039	5.0000	0.8202	
D:\GC-19\Data\082123\082125.D	Calibration	6	x	538705	10.0000	0.8350	
D:\GC-19\Data\082123\082126.D	Calibration	7	x	1069107	20.0000	0.8046	
D:\GC-19\Data\082123\082127.D	Calibration	8	x	2176094	40.0000	0.8160	

Calibration Report

Batch Path	D:\GC-19\Data\082123\QuantResults\VOC S CAL.batch.bin	Analyst Name	FA\GC19
Analysis Time	8/22/2023 3:13 PM	Reporter Name	FA\GC19
Report Time	8/22/2023 3:15:41 PM	Batch State	Processed
Last Calib Update	8/22/2023 12:55 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

Styrene %RSE = 9.3

Styrene - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

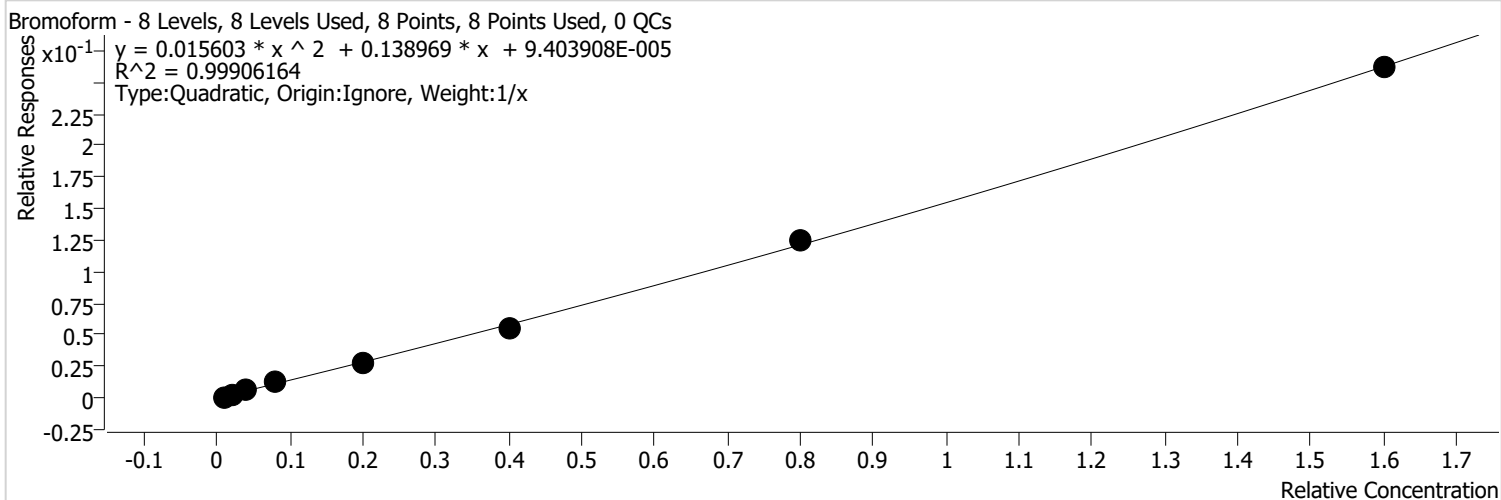


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\082123\082120.D	Calibration	1	x	15392	0.2000	1.2822	
D:\GC-19\Data\082123\082121.D	Calibration	2	x	41673	0.5000	1.3295	
D:\GC-19\Data\082123\082122.D	Calibration	3	x	104507	1.0000	1.6576	
D:\GC-19\Data\082123\082123.D	Calibration	4	x	186934	2.0000	1.5301	
D:\GC-19\Data\082123\082124.D	Calibration	5	x	412896	5.0000	1.3383	
D:\GC-19\Data\082123\082125.D	Calibration	6	x	880007	10.0000	1.3641	
D:\GC-19\Data\082123\082126.D	Calibration	7	x	1746774	20.0000	1.3146	
D:\GC-19\Data\082123\082127.D	Calibration	8	x	3594580	40.0000	1.3479	

Calibration Report

Batch Path	D:\GC-19\Data\082123\QuantResults\VOC S CAL.batch.bin		
Analysis Time	8/22/2023 3:13 PM	Analyst Name	FA\GC19
Report Time	8/22/2023 3:15:41 PM	Reporter Name	FA\GC19
Last Calib Update	8/22/2023 12:55 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Bromoform %RSE = 11.2



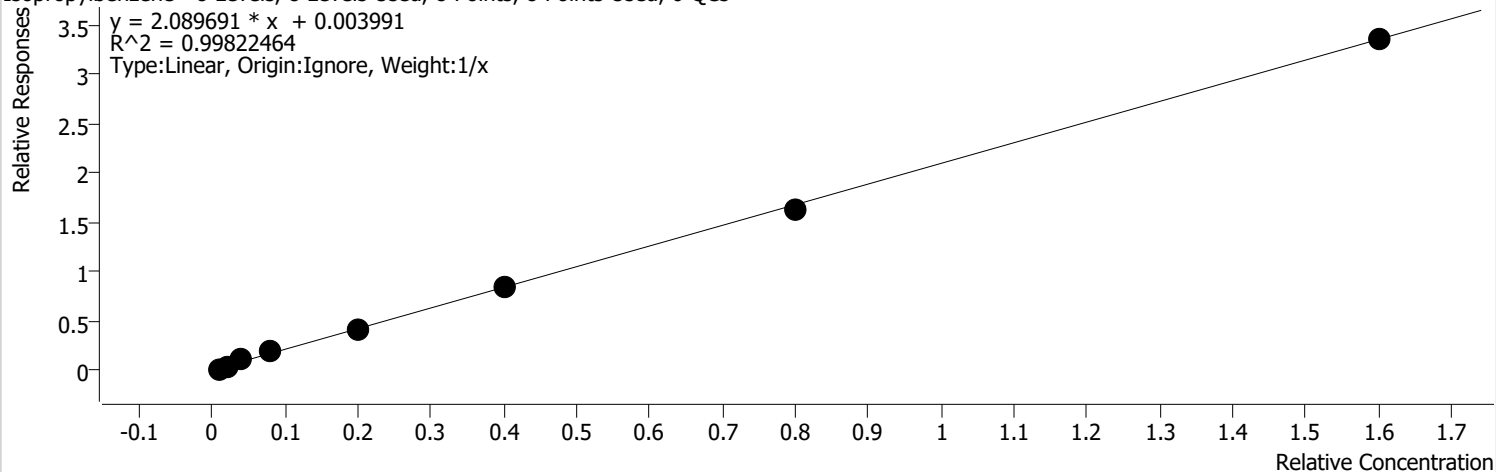
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\082123\082120.D	Calibration	1	x	1510	0.2000	0.1258	
D:\GC-19\Data\082123\082121.D	Calibration	2	x	4688	0.5000	0.1496	
D:\GC-19\Data\082123\082122.D	Calibration	3	x	10129	1.0000	0.1607	
D:\GC-19\Data\082123\082123.D	Calibration	4	x	18600	2.0000	0.1522	
D:\GC-19\Data\082123\082124.D	Calibration	5	x	41484	5.0000	0.1345	
D:\GC-19\Data\082123\082125.D	Calibration	6	x	90371	10.0000	0.1401	
D:\GC-19\Data\082123\082126.D	Calibration	7	x	206580	20.0000	0.1555	
D:\GC-19\Data\082123\082127.D	Calibration	8	x	435876	40.0000	0.1634	

Calibration Report

Batch Path	D:\GC-19\Data\082123\QuantResults\VOC S CAL.batch.bin		
Analysis Time	8/22/2023 3:13 PM	Analyst Name	FA\GC19
Report Time	8/22/2023 3:15:41 PM	Reporter Name	FA\GC19
Last Calib Update	8/22/2023 12:55 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Isopropylbenzene %RSE = 17.1

Isopropylbenzene - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

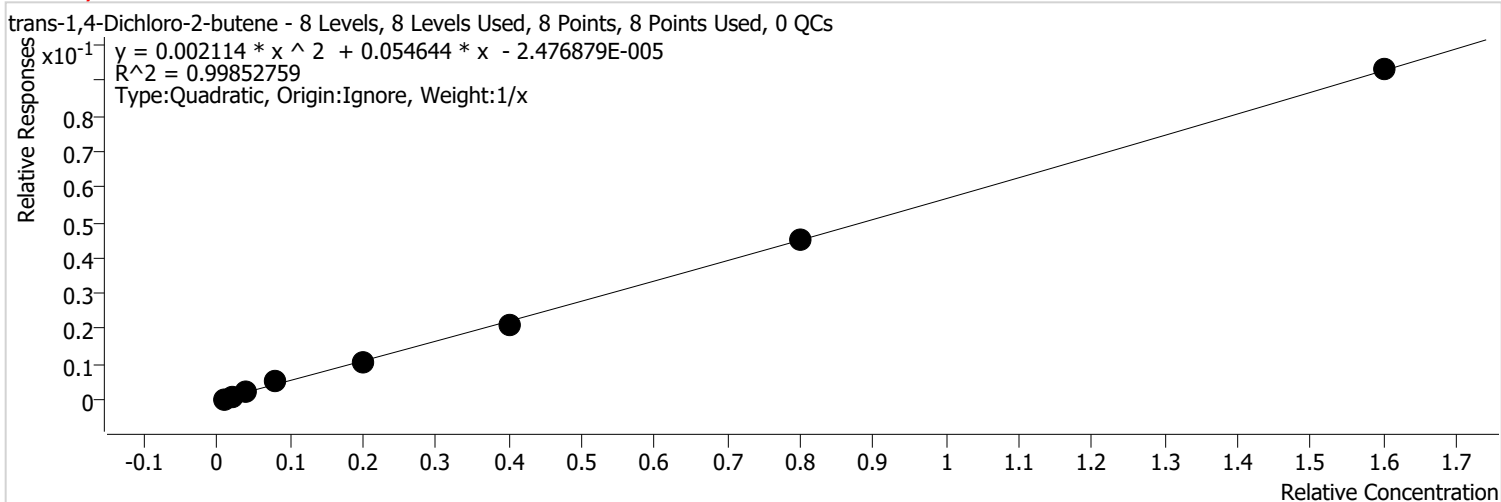


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\082123\082120.D	Calibration	1	x	23820	0.2000	1.9842	
D:\GC-19\Data\082123\082121.D	Calibration	2	x	66851	0.5000	2.1328	
D:\GC-19\Data\082123\082122.D	Calibration	3	x	174113	1.0000	2.7615	
D:\GC-19\Data\082123\082123.D	Calibration	4	x	286923	2.0000	2.3486	
D:\GC-19\Data\082123\082124.D	Calibration	5	x	652910	5.0000	2.1163	
D:\GC-19\Data\082123\082125.D	Calibration	6	x	1370437	10.0000	2.1243	
D:\GC-19\Data\082123\082126.D	Calibration	7	x	2717598	20.0000	2.0453	
D:\GC-19\Data\082123\082127.D	Calibration	8	x	5574178	40.0000	2.0901	

Calibration Report

Batch Path	D:\GC-19\Data\082123\QuantResults\VOC S CAL.batch.bin		
Analysis Time	8/22/2023 3:13 PM	Analyst Name	FA\GC19
Report Time	8/22/2023 3:15:41 PM	Reporter Name	FA\GC19
Last Calib Update	8/22/2023 12:55 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

trans-1,4-Dichloro-2-butene %RSE = 14.7

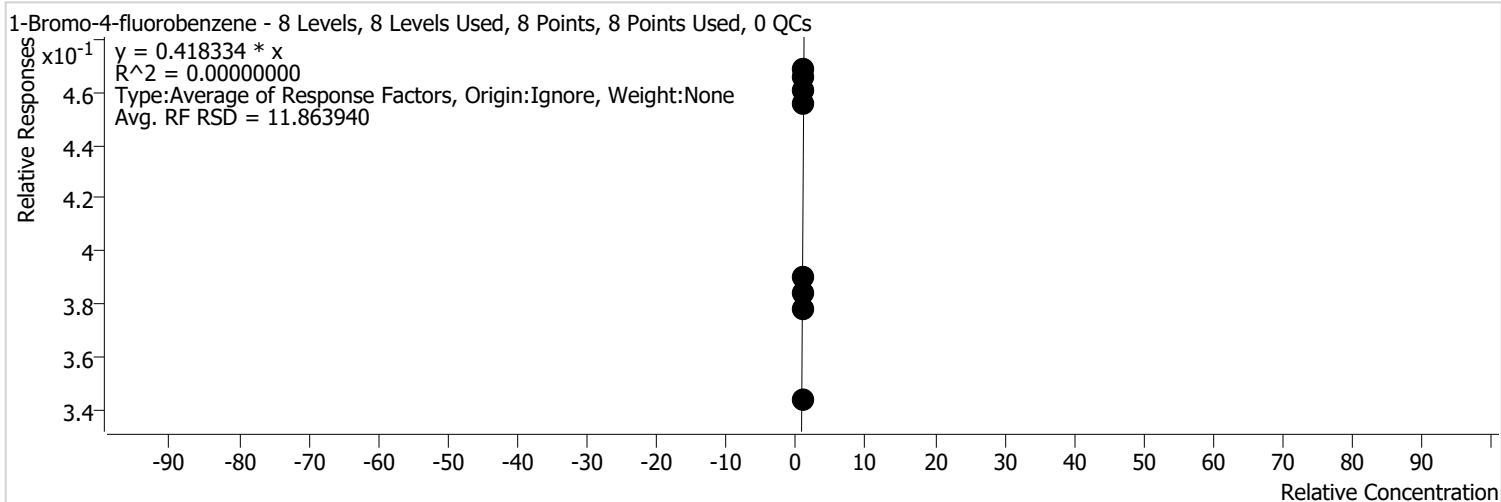


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\082123\082120.D	Calibration	1	x	469	0.2000	0.0391	
D:\GC-19\Data\082123\082121.D	Calibration	2	x	1611	0.5000	0.0514	
D:\GC-19\Data\082123\082122.D	Calibration	3	x	3925	1.0000	0.0623	
D:\GC-19\Data\082123\082123.D	Calibration	4	x	7847	2.0000	0.0642	
D:\GC-19\Data\082123\082124.D	Calibration	5	x	16580	5.0000	0.0537	
D:\GC-19\Data\082123\082125.D	Calibration	6	x	34373	10.0000	0.0533	
D:\GC-19\Data\082123\082126.D	Calibration	7	x	74605	20.0000	0.0561	
D:\GC-19\Data\082123\082127.D	Calibration	8	x	155143	40.0000	0.0582	

Calibration Report

Batch Path	D:\GC-19\Data\082123\QuantResults\VOC S CAL.batch.bin	Analyst Name	FA\GC19
Analysis Time	8/22/2023 3:13 PM	Reporter Name	FA\GC19
Report Time	8/22/2023 3:15:41 PM	Batch State	Processed
Last Calib Update	8/22/2023 12:55 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

1-Bromo-4-fluorobenzene %RSE =



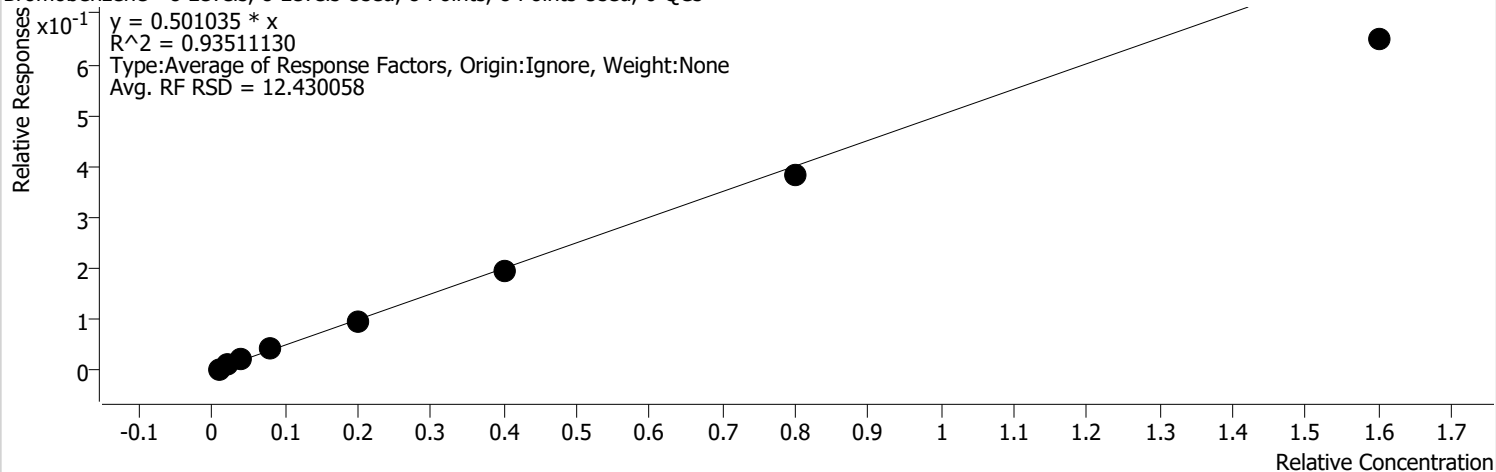
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\082123\082127.D	Calibration	8	x	573220	25.0000	0.3439	
D:\GC-19\Data\082123\082126.D	Calibration	7	x	627588	25.0000	0.3779	
D:\GC-19\Data\082123\082125.D	Calibration	6	x	618824	25.0000	0.3837	
D:\GC-19\Data\082123\082124.D	Calibration	5	x	601067	25.0000	0.3896	
D:\GC-19\Data\082123\082123.D	Calibration	4	x	696108	25.0000	0.4558	
D:\GC-19\Data\082123\082122.D	Calibration	3	x	738671	25.0000	0.4686	
D:\GC-19\Data\082123\082121.D	Calibration	2	x	722271	25.0000	0.4609	
D:\GC-19\Data\082123\082120.D	Calibration	1	x	699662	25.0000	0.4663	

Calibration Report

Batch Path	D:\GC-19\Data\082123\QuantResults\VOC S CAL.batch.bin		
Analysis Time	8/22/2023 3:13 PM	Analyst Name	FA\GC19
Report Time	8/22/2023 3:15:41 PM	Reporter Name	FA\GC19
Last Calib Update	8/22/2023 12:55 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Bromobenzene %RSE = 12.4

Bromobenzene - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

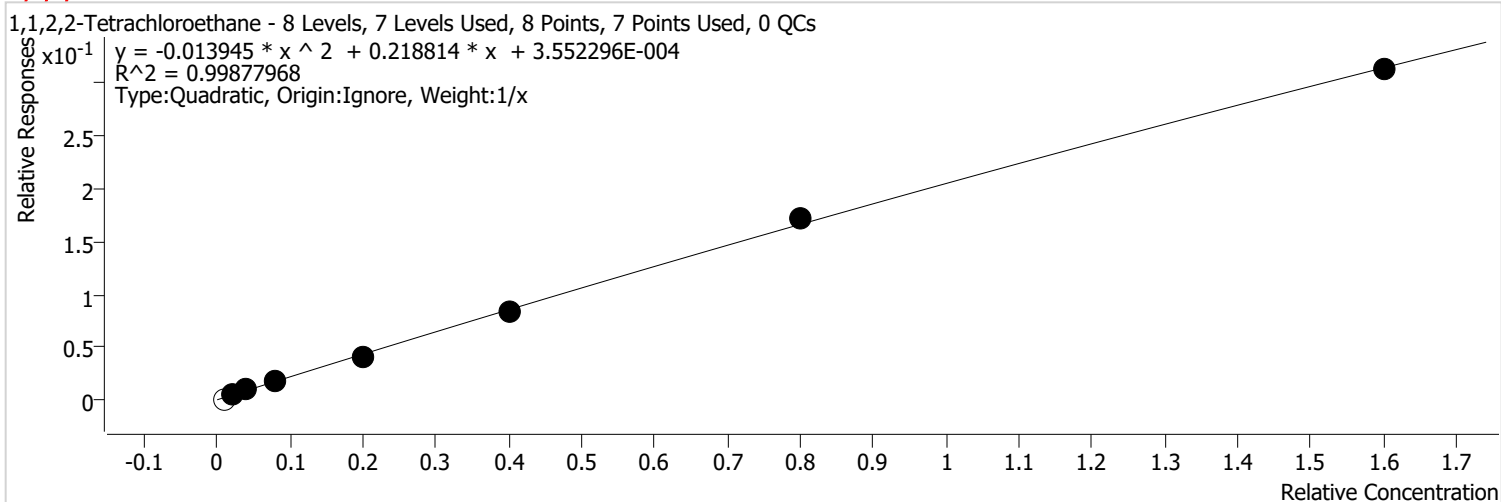


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\082123\082120.D	Calibration	1	x	5718	0.2000	0.4763	
D:\GC-19\Data\082123\082121.D	Calibration	2	x	15847	0.5000	0.5056	
D:\GC-19\Data\082123\082122.D	Calibration	3	x	39016	1.0000	0.6188	
D:\GC-19\Data\082123\082123.D	Calibration	4	x	67279	2.0000	0.5507	
D:\GC-19\Data\082123\082124.D	Calibration	5	x	148793	5.0000	0.4823	
D:\GC-19\Data\082123\082125.D	Calibration	6	x	316713	10.0000	0.4909	
D:\GC-19\Data\082123\082126.D	Calibration	7	x	636057	20.0000	0.4787	
D:\GC-19\Data\082123\082127.D	Calibration	8	x	1080095	40.0000	0.4050	

Calibration Report

Batch Path	D:\GC-19\Data\082123\QuantResults\VOC S CAL.batch.bin		
Analysis Time	8/22/2023 3:13 PM	Analyst Name	FA\GC19
Report Time	8/22/2023 3:15:41 PM	Reporter Name	FA\GC19
Last Calib Update	8/22/2023 12:55 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,1,2,2-Tetrachloroethane %RSE = 7.8

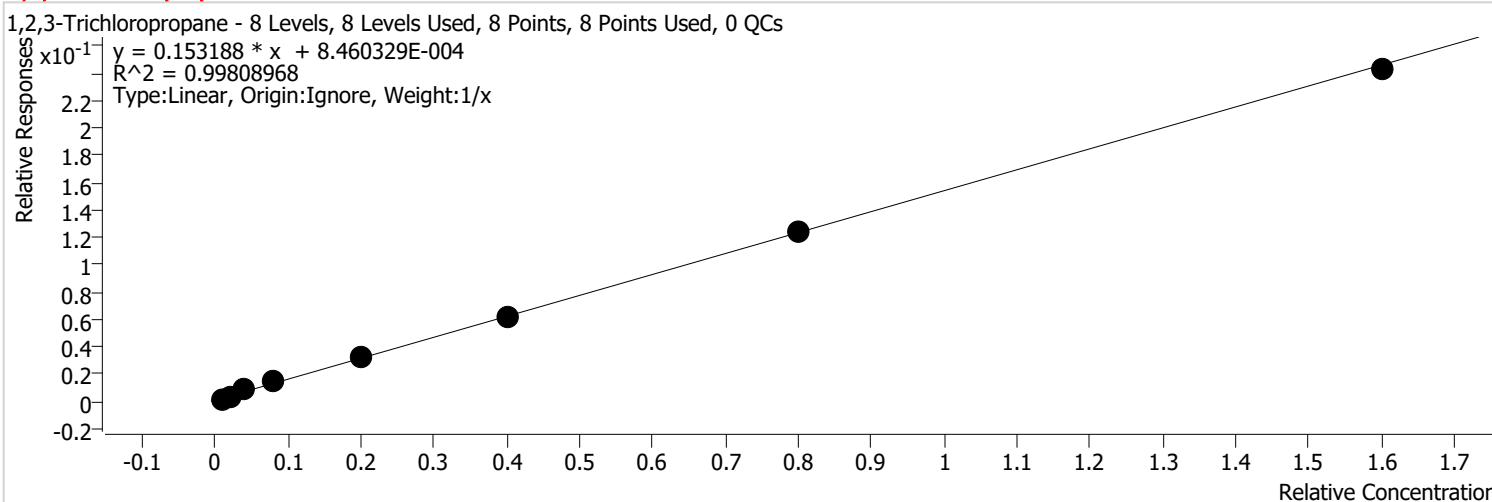


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\082123\082120.D	Calibration	1		2001	0.2000	0.1666	
D:\GC-19\Data\082123\082121.D	Calibration	2	x	6858	0.5000	0.2188	
D:\GC-19\Data\082123\082122.D	Calibration	3	x	15289	1.0000	0.2425	
D:\GC-19\Data\082123\082123.D	Calibration	4	x	29201	2.0000	0.2390	
D:\GC-19\Data\082123\082124.D	Calibration	5	x	62574	5.0000	0.2028	
D:\GC-19\Data\082123\082125.D	Calibration	6	x	134769	10.0000	0.2089	
D:\GC-19\Data\082123\082126.D	Calibration	7	x	285325	20.0000	0.2147	
D:\GC-19\Data\082123\082127.D	Calibration	8	x	521584	40.0000	0.1956	

Calibration Report

Batch Path	D:\GC-19\Data\082123\QuantResults\VOC S CAL.batch.bin		
Analysis Time	8/22/2023 3:13 PM	Analyst Name	FA\GC19
Report Time	8/22/2023 3:15:41 PM	Reporter Name	FA\GC19
Last Calib Update	8/22/2023 12:55 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,2,3-Trichloropropane %RSE = 15.8



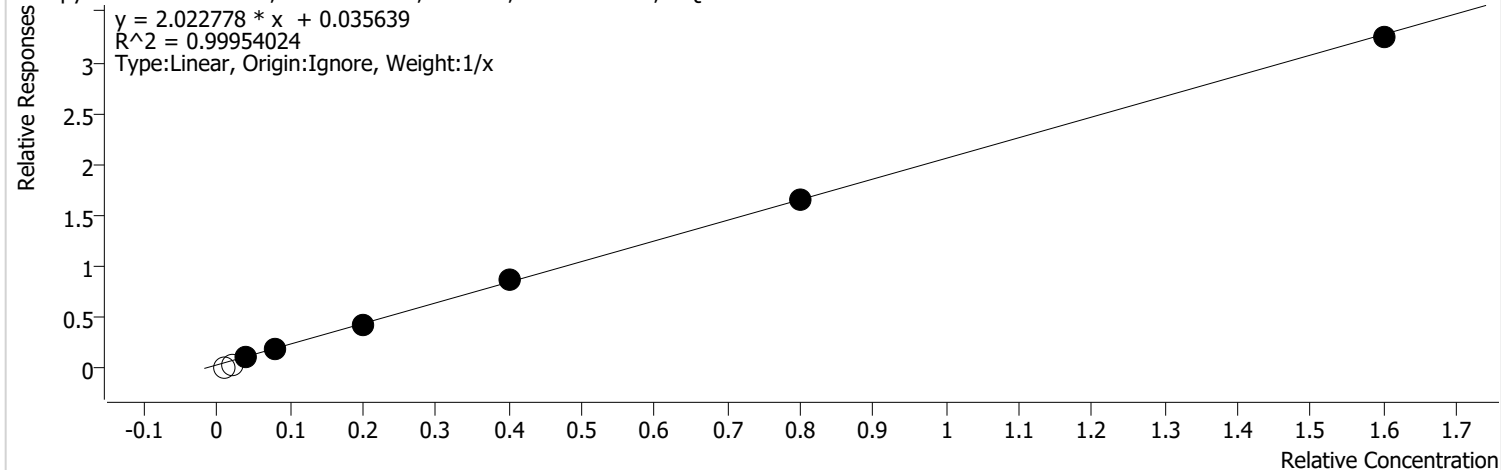
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\082123\082120.D	Calibration	1	x	2734	0.2000	0.2277	
D:\GC-19\Data\082123\082121.D	Calibration	2	x	5278	0.5000	0.1684	
D:\GC-19\Data\082123\082122.D	Calibration	3	x	13260	1.0000	0.2103	
D:\GC-19\Data\082123\082123.D	Calibration	4	x	22628	2.0000	0.1852	
D:\GC-19\Data\082123\082124.D	Calibration	5	x	49889	5.0000	0.1617	
D:\GC-19\Data\082123\082125.D	Calibration	6	x	98241	10.0000	0.1523	
D:\GC-19\Data\082123\082126.D	Calibration	7	x	207341	20.0000	0.1560	
D:\GC-19\Data\082123\082127.D	Calibration	8	x	404194	40.0000	0.1516	

Calibration Report

Batch Path	D:\GC-19\Data\082123\QuantResults\VOC S CAL.batch.bin		
Analysis Time	8/22/2023 3:13 PM	Analyst Name	FA\GC19
Report Time	8/22/2023 3:15:41 PM	Reporter Name	FA\GC19
Last Calib Update	8/22/2023 12:55 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

n-Propylbenzene %RSE = 2.9

n-Propylbenzene - 8 Levels, 6 Levels Used, 8 Points, 6 Points Used, 0 QCs



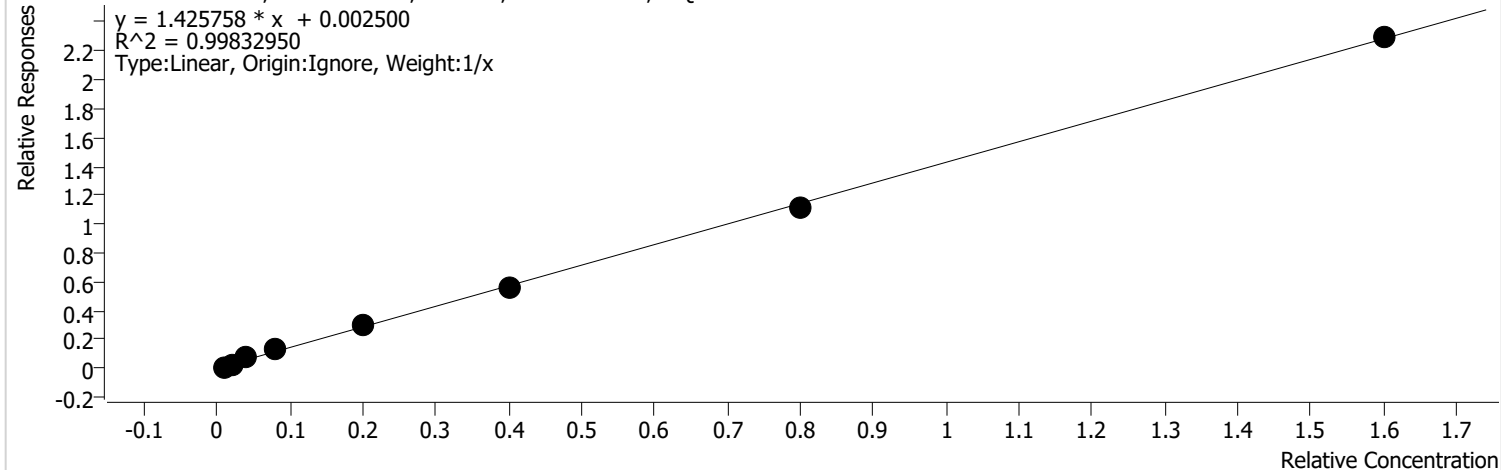
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\082123\082120.D	Calibration	1		24592	0.2000	2.0485	
D:\GC-19\Data\082123\082121.D	Calibration	2		68617	0.5000	2.1892	
D:\GC-19\Data\082123\082122.D	Calibration	3	x	180169	1.0000	2.8576	
D:\GC-19\Data\082123\082123.D	Calibration	4	x	303398	2.0000	2.4834	
D:\GC-19\Data\082123\082124.D	Calibration	5	x	668193	5.0000	2.1658	
D:\GC-19\Data\082123\082125.D	Calibration	6	x	1421574	10.0000	2.2035	
D:\GC-19\Data\082123\082126.D	Calibration	7	x	2753227	20.0000	2.0721	
D:\GC-19\Data\082123\082127.D	Calibration	8	x	5399930	40.0000	2.0248	

Calibration Report

Batch Path	D:\GC-19\Data\082123\QuantResults\VOC S CAL.batch.bin		
Analysis Time	8/22/2023 3:13 PM	Analyst Name	FA\GC19
Report Time	8/22/2023 3:15:41 PM	Reporter Name	FA\GC19
Last Calib Update	8/22/2023 12:55 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

2-Chlorotoluene %RSE = 15.9

2-Chlorotoluene - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

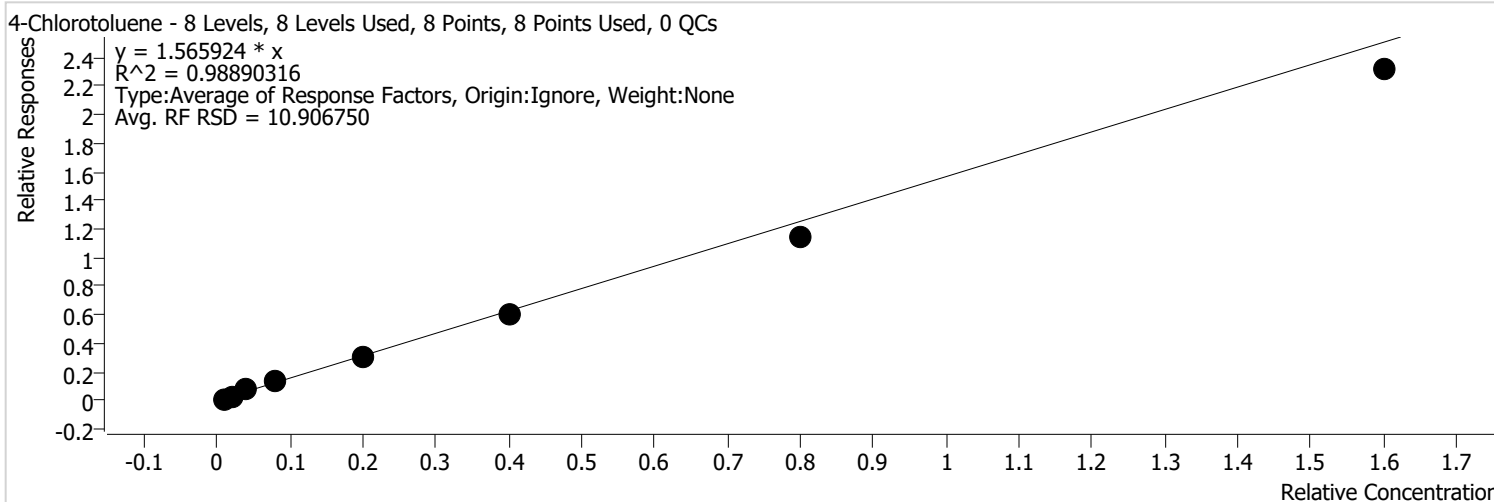


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\082123\082120.D	Calibration	1	x	16616	0.2000	1.3841	
D:\GC-19\Data\082123\082121.D	Calibration	2	x	44534	0.5000	1.4208	
D:\GC-19\Data\082123\082122.D	Calibration	3	x	118011	1.0000	1.8717	
D:\GC-19\Data\082123\082123.D	Calibration	4	x	192380	2.0000	1.5747	
D:\GC-19\Data\082123\082124.D	Calibration	5	x	456001	5.0000	1.4780	
D:\GC-19\Data\082123\082125.D	Calibration	6	x	900518	10.0000	1.3959	
D:\GC-19\Data\082123\082126.D	Calibration	7	x	1864705	20.0000	1.4034	
D:\GC-19\Data\082123\082127.D	Calibration	8	x	3819147	40.0000	1.4321	

Calibration Report

Batch Path	D:\GC-19\Data\082123\QuantResults\VOC S CAL.batch.bin		
Analysis Time	8/22/2023 3:13 PM	Analyst Name	FA\GC19
Report Time	8/22/2023 3:15:41 PM	Reporter Name	FA\GC19
Last Calib Update	8/22/2023 12:55 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

4-Chlorotoluene %RSE = 10.9

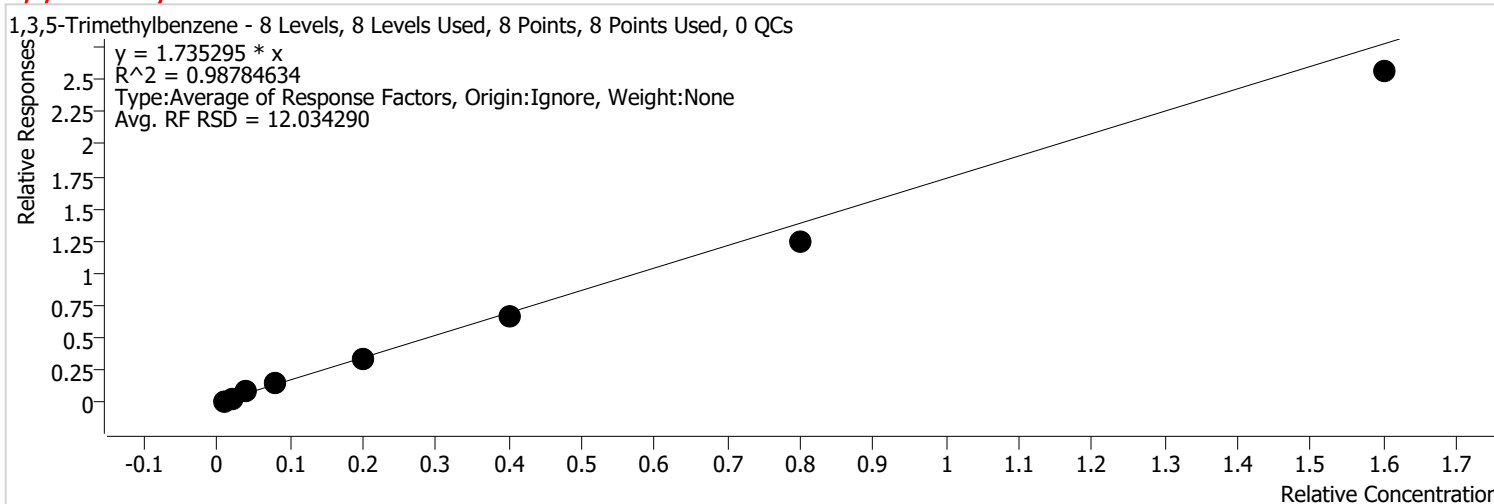


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\082123\082120.D	Calibration	1	x	17583	0.2000	1.4647	
D:\GC-19\Data\082123\082121.D	Calibration	2	x	48389	0.5000	1.5438	
D:\GC-19\Data\082123\082122.D	Calibration	3	x	121961	1.0000	1.9344	
D:\GC-19\Data\082123\082123.D	Calibration	4	x	207475	2.0000	1.6983	
D:\GC-19\Data\082123\082124.D	Calibration	5	x	464015	5.0000	1.5040	
D:\GC-19\Data\082123\082125.D	Calibration	6	x	971474	10.0000	1.5059	
D:\GC-19\Data\082123\082126.D	Calibration	7	x	1900826	20.0000	1.4306	
D:\GC-19\Data\082123\082127.D	Calibration	8	x	3856032	40.0000	1.4459	

Calibration Report

Batch Path	D:\GC-19\Data\082123\QuantResults\VOC S CAL.batch.bin		
Analysis Time	8/22/2023 3:13 PM	Analyst Name	FA\GC19
Report Time	8/22/2023 3:15:41 PM	Reporter Name	FA\GC19
Last Calib Update	8/22/2023 12:55 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,3,5-Trimethylbenzene %RSE = 12.0



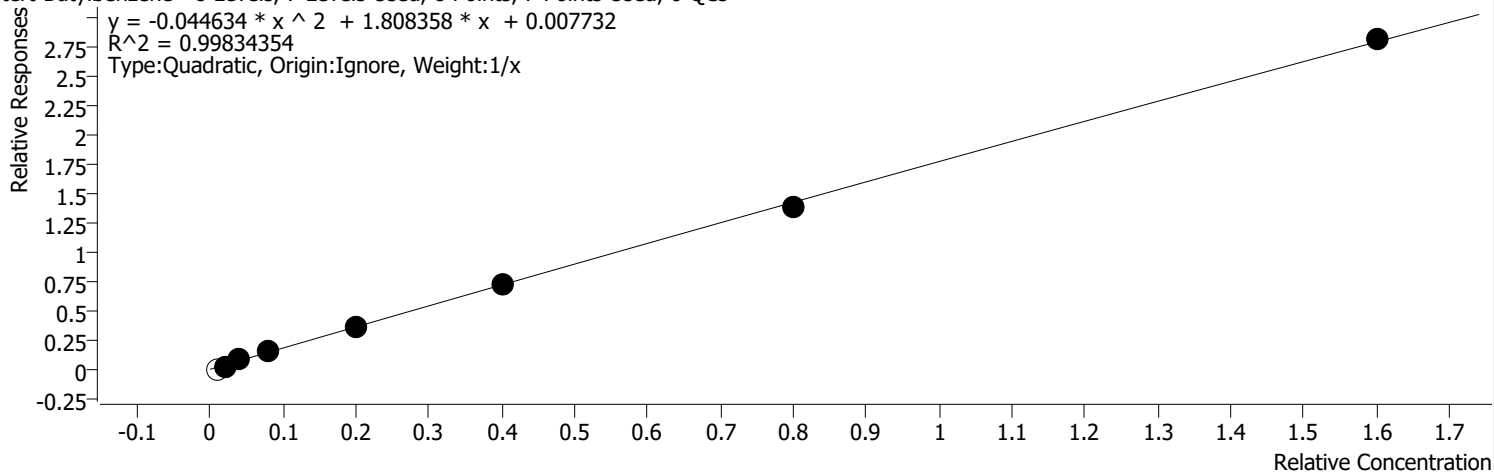
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\082123\082120.D	Calibration	1	x	19125	0.2000	1.5931	
D:\GC-19\Data\082123\082121.D	Calibration	2	x	53535	0.5000	1.7080	
D:\GC-19\Data\082123\082122.D	Calibration	3	x	137405	1.0000	2.1793	
D:\GC-19\Data\082123\082123.D	Calibration	4	x	233107	2.0000	1.9081	
D:\GC-19\Data\082123\082124.D	Calibration	5	x	516289	5.0000	1.6734	
D:\GC-19\Data\082123\082125.D	Calibration	6	x	1066955	10.0000	1.6539	
D:\GC-19\Data\082123\082126.D	Calibration	7	x	2080400	20.0000	1.5657	
D:\GC-19\Data\082123\082127.D	Calibration	8	x	4269261	40.0000	1.6008	

Calibration Report

Batch Path	D:\GC-19\Data\082123\QuantResults\VOC S CAL.batch.bin		
Analysis Time	8/22/2023 3:13 PM	Analyst Name	FA\GC19
Report Time	8/22/2023 3:15:41 PM	Reporter Name	FA\GC19
Last Calib Update	8/22/2023 12:55 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

tert-Butylbenzene %RSE = 16.3

tert-Butylbenzene - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 0 QCs

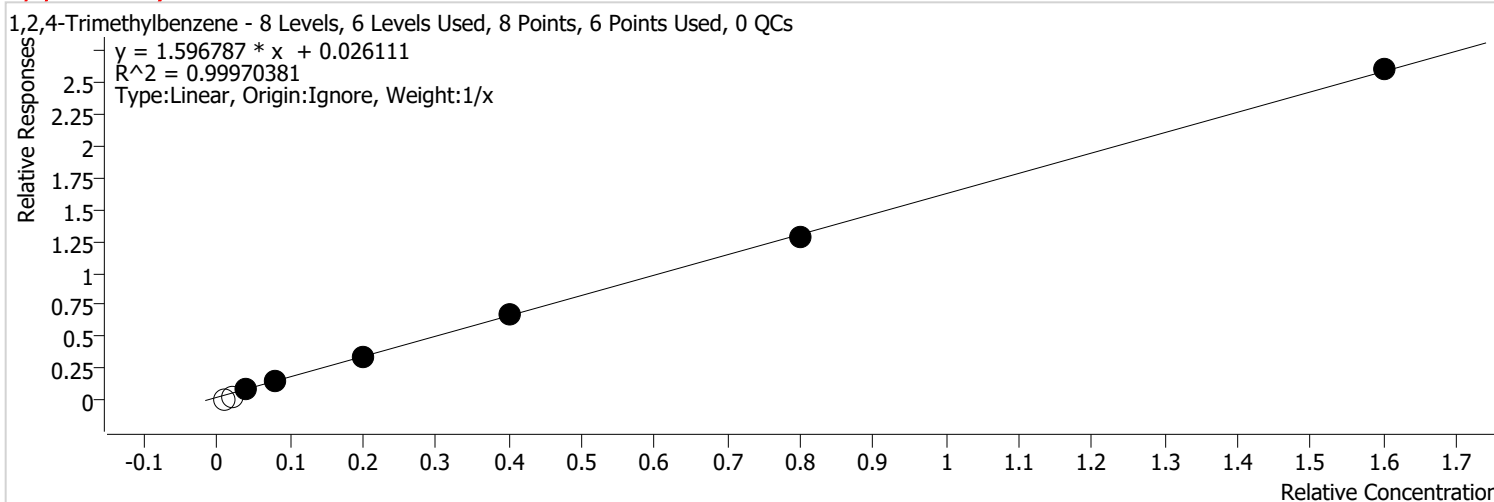


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\082123\082120.D	Calibration	1		17966	0.2000	1.4966	
D:\GC-19\Data\082123\082121.D	Calibration	2	x	54577	0.5000	1.7412	
D:\GC-19\Data\082123\082122.D	Calibration	3	x	147781	1.0000	2.3439	
D:\GC-19\Data\082123\082123.D	Calibration	4	x	248384	2.0000	2.0331	
D:\GC-19\Data\082123\082124.D	Calibration	5	x	563370	5.0000	1.8260	
D:\GC-19\Data\082123\082125.D	Calibration	6	x	1189356	10.0000	1.8436	
D:\GC-19\Data\082123\082126.D	Calibration	7	x	2293489	20.0000	1.7261	
D:\GC-19\Data\082123\082127.D	Calibration	8	x	4676231	40.0000	1.7534	

Calibration Report

Batch Path	D:\GC-19\Data\082123\QuantResults\VOC S CAL.batch.bin		
Analysis Time	8/22/2023 3:13 PM	Analyst Name	FA\GC19
Report Time	8/22/2023 3:15:41 PM	Reporter Name	FA\GC19
Last Calib Update	8/22/2023 12:55 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,2,4-Trimethylbenzene %RSE = 2.1



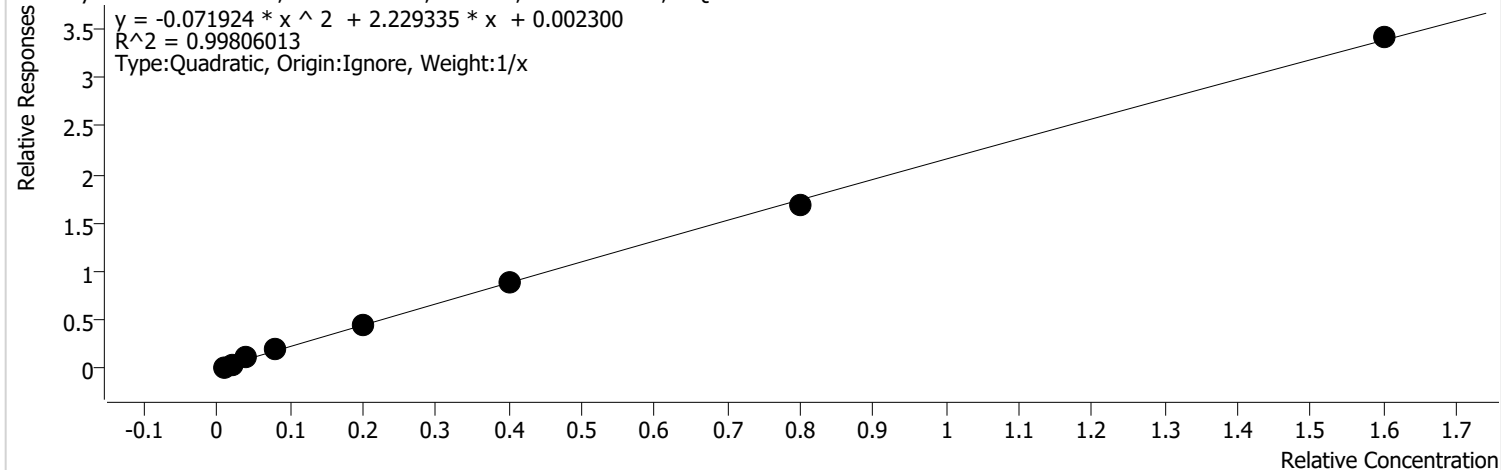
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\082123\082120.D	Calibration	1		21015	0.2000	1.7505	
D:\GC-19\Data\082123\082121.D	Calibration	2		55432	0.5000	1.7685	
D:\GC-19\Data\082123\082122.D	Calibration	3	x	140350	1.0000	2.2260	
D:\GC-19\Data\082123\082123.D	Calibration	4	x	238781	2.0000	1.9545	
D:\GC-19\Data\082123\082124.D	Calibration	5	x	526304	5.0000	1.7059	
D:\GC-19\Data\082123\082125.D	Calibration	6	x	1096783	10.0000	1.7001	
D:\GC-19\Data\082123\082126.D	Calibration	7	x	2120955	20.0000	1.5962	
D:\GC-19\Data\082123\082127.D	Calibration	8	x	4325425	40.0000	1.6219	

Calibration Report

Batch Path	D:\GC-19\Data\082123\QuantResults\VOC S CAL.batch.bin	Analyst Name	FA\GC19
Analysis Time	8/22/2023 3:13 PM	Reporter Name	FA\GC19
Report Time	8/22/2023 3:15:41 PM	Batch State	Processed
Last Calib Update	8/22/2023 12:55 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

sec-Butylbenzene %RSE = 17.0

sec-Butylbenzene - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

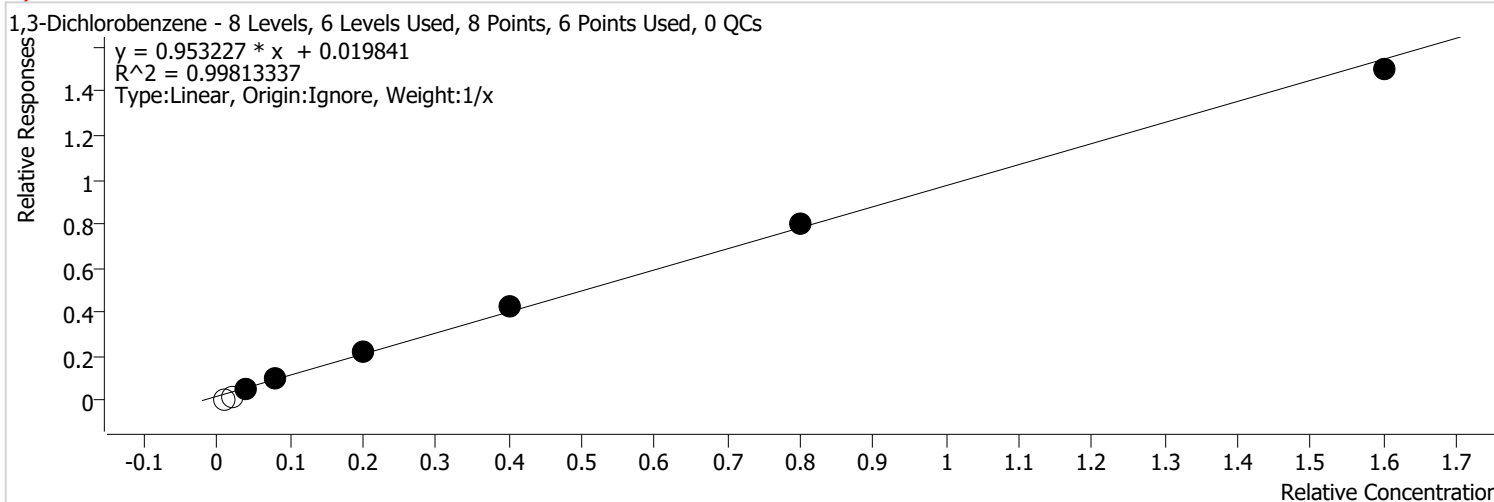


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\082123\082120.D	Calibration	1	x	24056	0.2000	2.0038	
D:\GC-19\Data\082123\082121.D	Calibration	2	x	66915	0.5000	2.1349	
D:\GC-19\Data\082123\082122.D	Calibration	3	x	181810	1.0000	2.8836	
D:\GC-19\Data\082123\082123.D	Calibration	4	x	299279	2.0000	2.4497	
D:\GC-19\Data\082123\082124.D	Calibration	5	x	674459	5.0000	2.1861	
D:\GC-19\Data\082123\082125.D	Calibration	6	x	1436076	10.0000	2.2260	
D:\GC-19\Data\082123\082126.D	Calibration	7	x	2793056	20.0000	2.1020	
D:\GC-19\Data\082123\082127.D	Calibration	8	x	5686936	40.0000	2.1324	

Calibration Report

Batch Path	D:\GC-19\Data\082123\QuantResults\VOC S CAL.batch.bin		
Analysis Time	8/22/2023 3:13 PM	Analyst Name	FA\GC19
Report Time	8/22/2023 3:15:41 PM	Reporter Name	FA\GC19
Last Calib Update	8/22/2023 12:55 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,3-Dichlorobenzene %RSE = 7.7

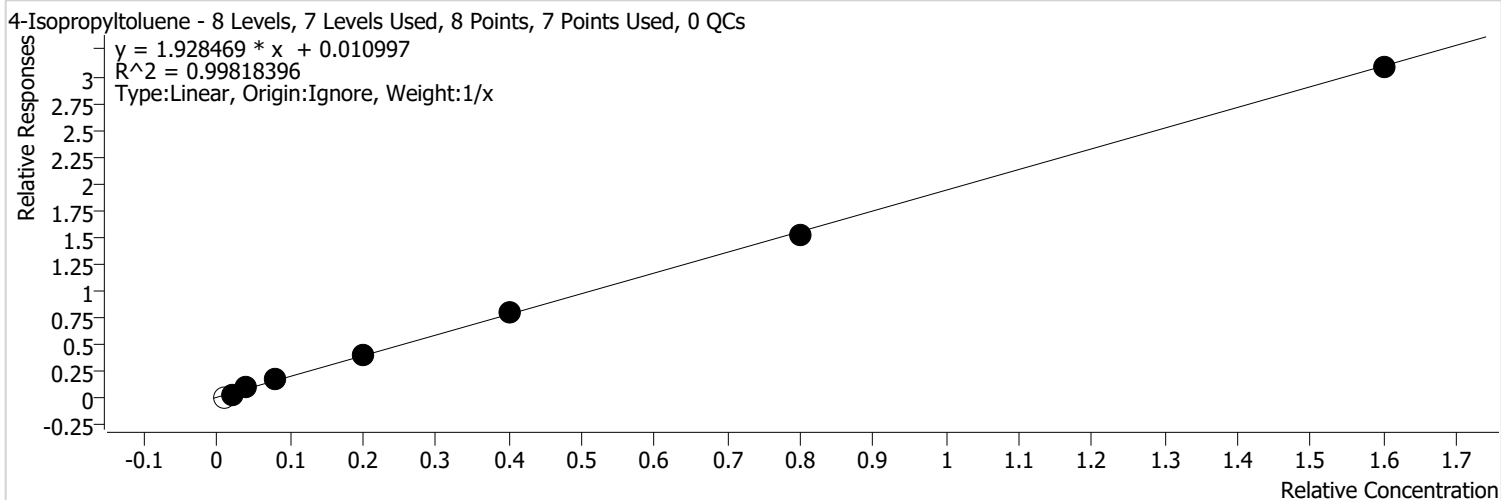


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\082123\082120.D	Calibration	1		11161	0.2000	1.0455	
D:\GC-19\Data\082123\082121.D	Calibration	2		30035	0.5000	1.0855	
D:\GC-19\Data\082123\082122.D	Calibration	3	x	75668	1.0000	1.3279	
D:\GC-19\Data\082123\082123.D	Calibration	4	x	133031	2.0000	1.2357	
D:\GC-19\Data\082123\082124.D	Calibration	5	x	295855	5.0000	1.0914	
D:\GC-19\Data\082123\082125.D	Calibration	6	x	627818	10.0000	1.0536	
D:\GC-19\Data\082123\082126.D	Calibration	7	x	1229930	20.0000	1.0048	
D:\GC-19\Data\082123\082127.D	Calibration	8	x	2459159	40.0000	0.9360	

Calibration Report

Batch Path	D:\GC-19\Data\082123\QuantResults\VOC S CAL.batch.bin		
Analysis Time	8/22/2023 3:13 PM	Analyst Name	FA\GC19
Report Time	8/22/2023 3:15:41 PM	Reporter Name	FA\GC19
Last Calib Update	8/22/2023 12:55 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

4-Isopropyltoluene %RSE = 16.5



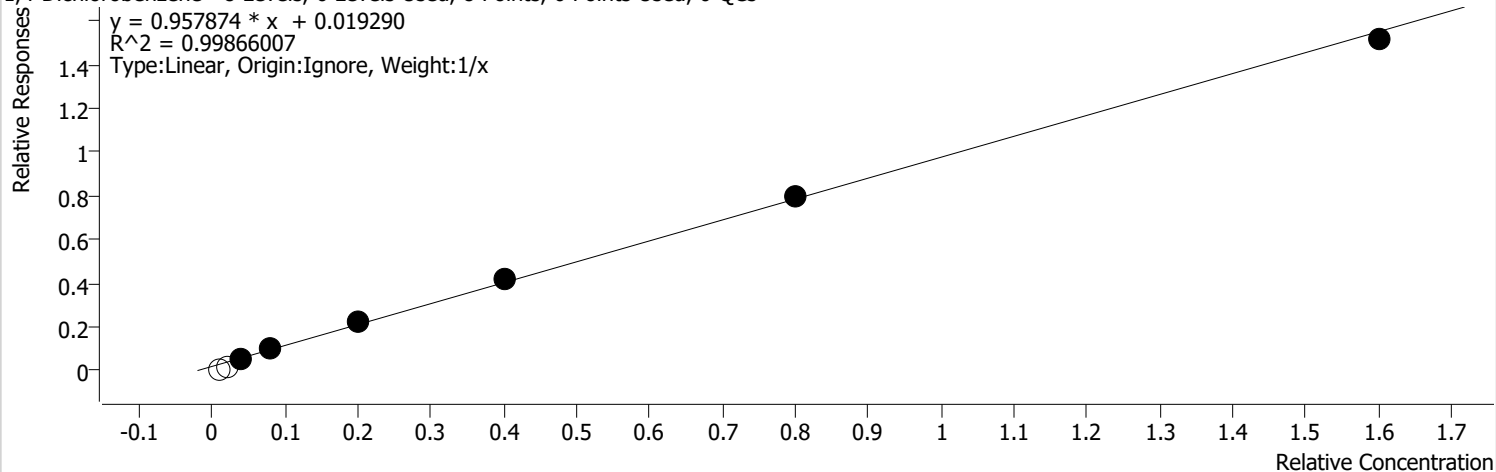
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\082123\082120.D	Calibration	1		21953	0.2000	1.8287	
D:\GC-19\Data\082123\082121.D	Calibration	2	x	59698	0.5000	1.9046	
D:\GC-19\Data\082123\082122.D	Calibration	3	x	162835	1.0000	2.5827	
D:\GC-19\Data\082123\082123.D	Calibration	4	x	271914	2.0000	2.2257	
D:\GC-19\Data\082123\082124.D	Calibration	5	x	615739	5.0000	1.9958	
D:\GC-19\Data\082123\082125.D	Calibration	6	x	1307924	10.0000	2.0274	
D:\GC-19\Data\082123\082126.D	Calibration	7	x	2529141	20.0000	1.9034	
D:\GC-19\Data\082123\082127.D	Calibration	8	x	5133870	40.0000	1.9250	

Calibration Report

Batch Path	D:\GC-19\Data\082123\QuantResults\VOC S CAL.batch.bin		
Analysis Time	8/22/2023 3:13 PM	Analyst Name	FA\GC19
Report Time	8/22/2023 3:15:41 PM	Reporter Name	FA\GC19
Last Calib Update	8/22/2023 12:55 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,4-Dichlorobenzene %RSE = 7.1

1,4-Dichlorobenzene - 8 Levels, 6 Levels Used, 8 Points, 6 Points Used, 0 QCs



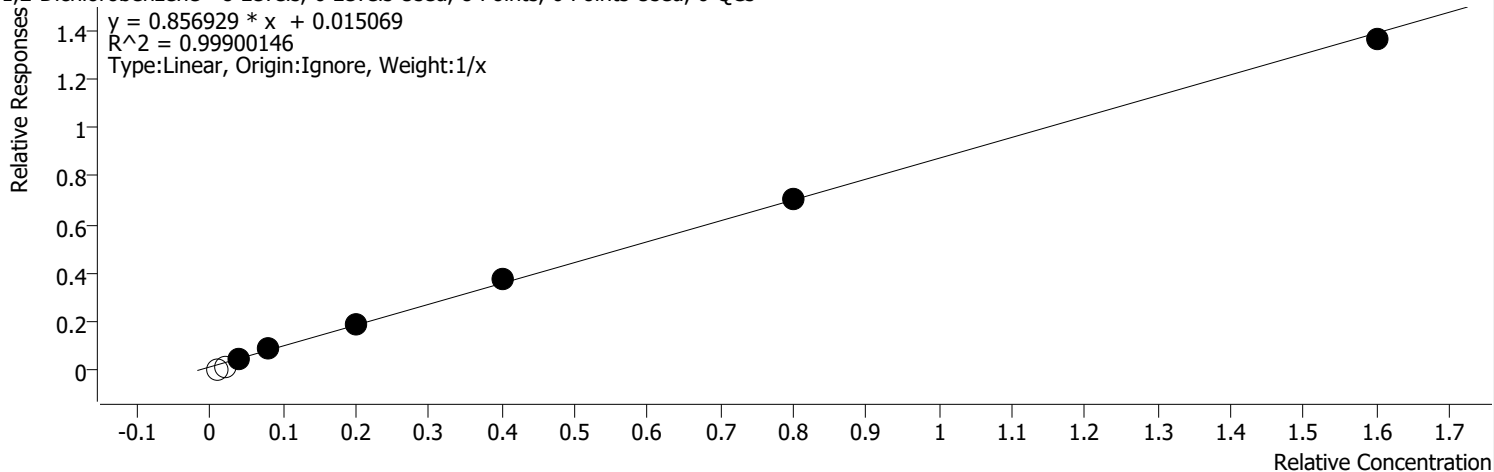
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\082123\082120.D	Calibration	1		11107	0.2000	1.0404	
D:\GC-19\Data\082123\082121.D	Calibration	2		30985	0.5000	1.1198	
D:\GC-19\Data\082123\082122.D	Calibration	3	x	75601	1.0000	1.3268	
D:\GC-19\Data\082123\082123.D	Calibration	4	x	132815	2.0000	1.2337	
D:\GC-19\Data\082123\082124.D	Calibration	5	x	296098	5.0000	1.0923	
D:\GC-19\Data\082123\082125.D	Calibration	6	x	629307	10.0000	1.0561	
D:\GC-19\Data\082123\082126.D	Calibration	7	x	1218798	20.0000	0.9957	
D:\GC-19\Data\082123\082127.D	Calibration	8	x	2487890	40.0000	0.9469	

Calibration Report

Batch Path	D:\GC-19\Data\082123\QuantResults\VOC S CAL.batch.bin		
Analysis Time	8/22/2023 3:13 PM	Analyst Name	FA\GC19
Report Time	8/22/2023 3:15:41 PM	Reporter Name	FA\GC19
Last Calib Update	8/22/2023 12:55 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,2-Dichlorobenzene %RSE = 6.3

1,2-Dichlorobenzene - 8 Levels, 6 Levels Used, 8 Points, 6 Points Used, 0 QCs



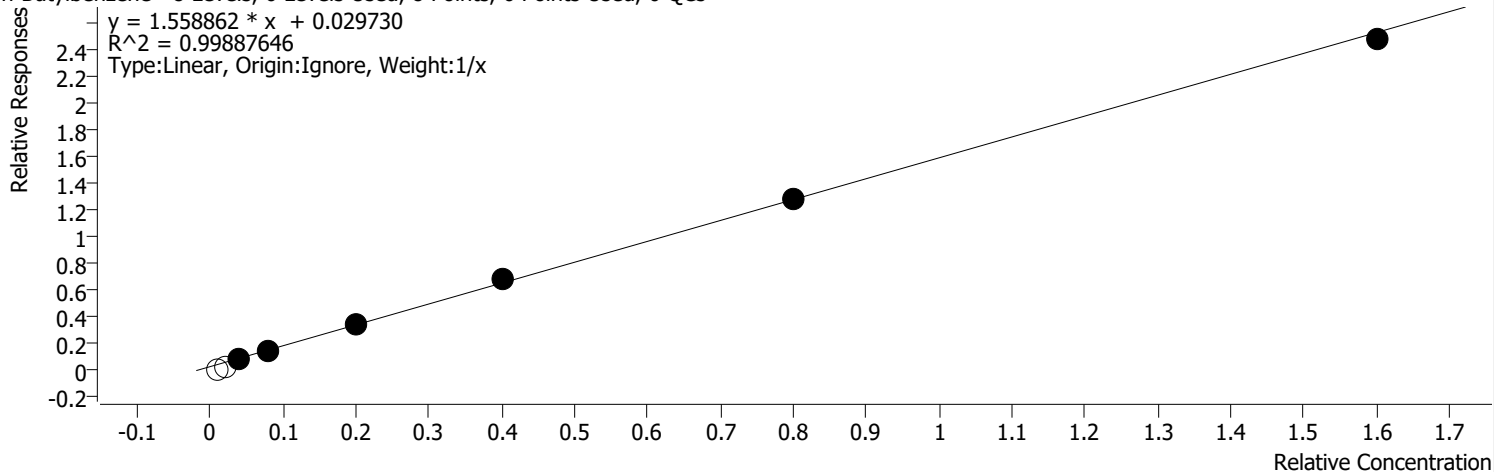
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\082123\082120.D	Calibration	1		9526	0.2000	0.8923	
D:\GC-19\Data\082123\082121.D	Calibration	2		26713	0.5000	0.9654	
D:\GC-19\Data\082123\082122.D	Calibration	3	x	65342	1.0000	1.1467	
D:\GC-19\Data\082123\082123.D	Calibration	4	x	117150	2.0000	1.0882	
D:\GC-19\Data\082123\082124.D	Calibration	5	x	254941	5.0000	0.9405	
D:\GC-19\Data\082123\082125.D	Calibration	6	x	557755	10.0000	0.9360	
D:\GC-19\Data\082123\082126.D	Calibration	7	x	1086164	20.0000	0.8873	
D:\GC-19\Data\082123\082127.D	Calibration	8	x	2231148	40.0000	0.8492	

Calibration Report

Batch Path	D:\GC-19\Data\082123\QuantResults\VOC S CAL.batch.bin		
Analysis Time	8/22/2023 3:13 PM	Analyst Name	FA\GC19
Report Time	8/22/2023 3:15:41 PM	Reporter Name	FA\GC19
Last Calib Update	8/22/2023 12:55 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

n-Butylbenzene %RSE = 5.3

n-Butylbenzene - 8 Levels, 6 Levels Used, 8 Points, 6 Points Used, 0 QCs

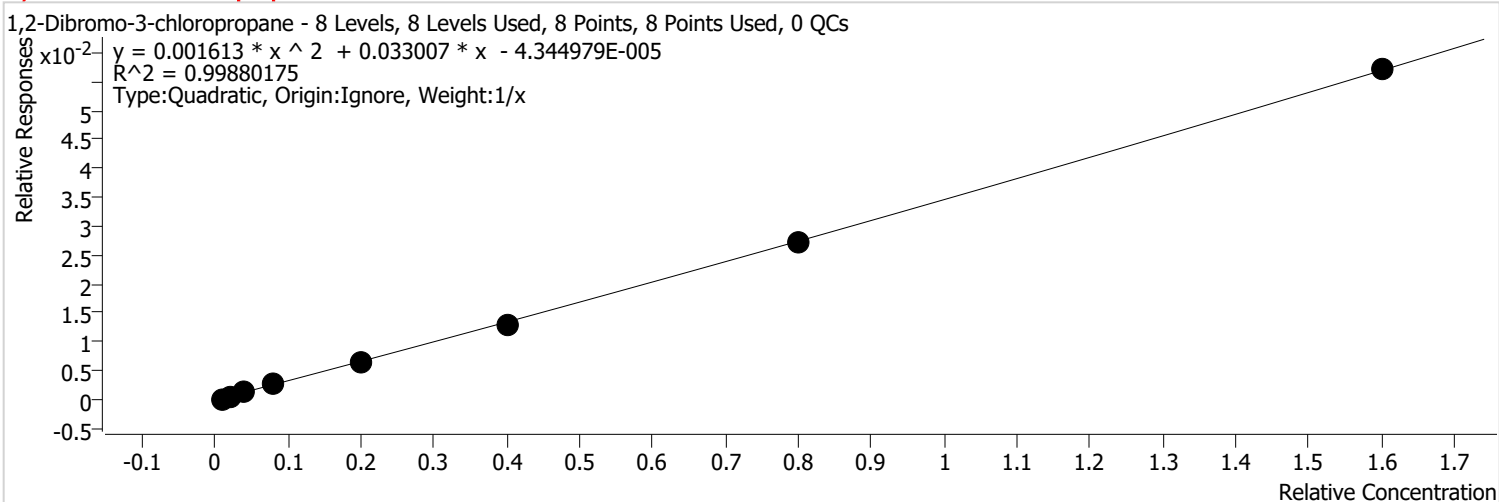


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\082123\082120.D	Calibration	1		18250	0.2000	1.7095	
D:\GC-19\Data\082123\082121.D	Calibration	2		44784	0.5000	1.6185	
D:\GC-19\Data\082123\082122.D	Calibration	3	x	124182	1.0000	2.1793	
D:\GC-19\Data\082123\082123.D	Calibration	4	x	208442	2.0000	1.9362	
D:\GC-19\Data\082123\082124.D	Calibration	5	x	474217	5.0000	1.7493	
D:\GC-19\Data\082123\082125.D	Calibration	6	x	1028559	10.0000	1.7261	
D:\GC-19\Data\082123\082126.D	Calibration	7	x	1973210	20.0000	1.6120	
D:\GC-19\Data\082123\082127.D	Calibration	8	x	4055984	40.0000	1.5438	

Calibration Report

Batch Path	D:\GC-19\Data\082123\QuantResults\VOC S CAL.batch.bin		
Analysis Time	8/22/2023 3:13 PM	Analyst Name	FA\GC19
Report Time	8/22/2023 3:15:41 PM	Reporter Name	FA\GC19
Last Calib Update	8/22/2023 12:55 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,2-Dibromo-3-chloropropane %RSE = 15.1

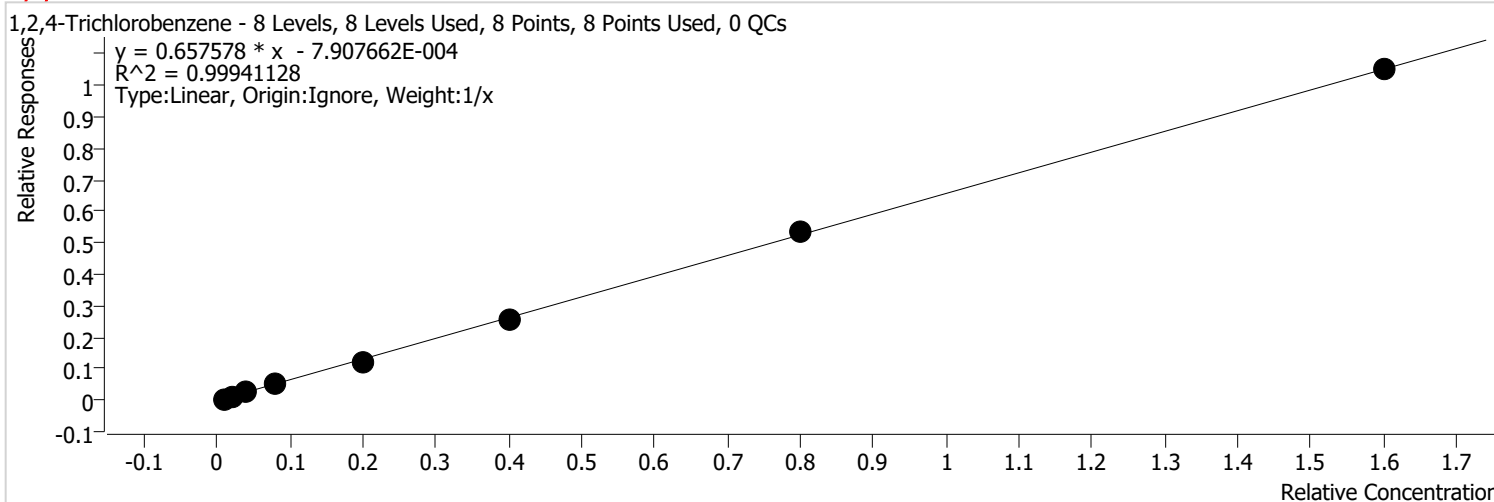


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\082123\082120.D	Calibration	1	x	204	0.2000	0.0191	
D:\GC-19\Data\082123\082121.D	Calibration	2	x	858	0.5000	0.0310	
D:\GC-19\Data\082123\082122.D	Calibration	3	x	2159	1.0000	0.0379	
D:\GC-19\Data\082123\082123.D	Calibration	4	x	3927	2.0000	0.0365	
D:\GC-19\Data\082123\082124.D	Calibration	5	x	8983	5.0000	0.0331	
D:\GC-19\Data\082123\082125.D	Calibration	6	x	19056	10.0000	0.0320	
D:\GC-19\Data\082123\082126.D	Calibration	7	x	41928	20.0000	0.0343	
D:\GC-19\Data\082123\082127.D	Calibration	8	x	93644	40.0000	0.0356	

Calibration Report

Batch Path	D:\GC-19\Data\082123\QuantResults\VOC S CAL.batch.bin		
Analysis Time	8/22/2023 3:13 PM	Analyst Name	FA\GC19
Report Time	8/22/2023 3:15:41 PM	Reporter Name	FA\GC19
Last Calib Update	8/22/2023 12:55 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,2,4-Trichlorobenzene %RSE = 5.2



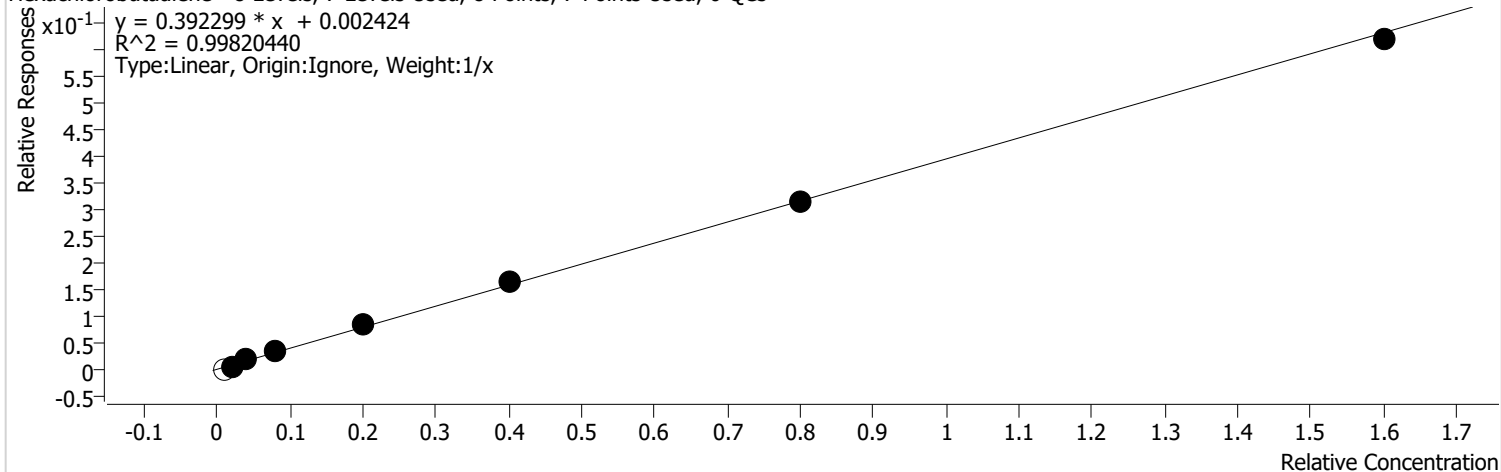
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\082123\082120.D	Calibration	1	x	5853	0.2000	0.5483	
D:\GC-19\Data\082123\082121.D	Calibration	2	x	16069	0.5000	0.5807	
D:\GC-19\Data\082123\082122.D	Calibration	3	x	39061	1.0000	0.6855	
D:\GC-19\Data\082123\082123.D	Calibration	4	x	73987	2.0000	0.6873	
D:\GC-19\Data\082123\082124.D	Calibration	5	x	166757	5.0000	0.6152	
D:\GC-19\Data\082123\082125.D	Calibration	6	x	383220	10.0000	0.6431	
D:\GC-19\Data\082123\082126.D	Calibration	7	x	818920	20.0000	0.6690	
D:\GC-19\Data\082123\082127.D	Calibration	8	x	1723914	40.0000	0.6561	

Calibration Report

Batch Path	D:\GC-19\Data\082123\QuantResults\VOC S CAL.batch.bin		
Analysis Time	8/22/2023 3:13 PM	Analyst Name	FA\GC19
Report Time	8/22/2023 3:15:41 PM	Reporter Name	FA\GC19
Last Calib Update	8/22/2023 12:55 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Hexachlorobutadiene %RSE = 15.3

Hexachlorobutadiene - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 0 QCs



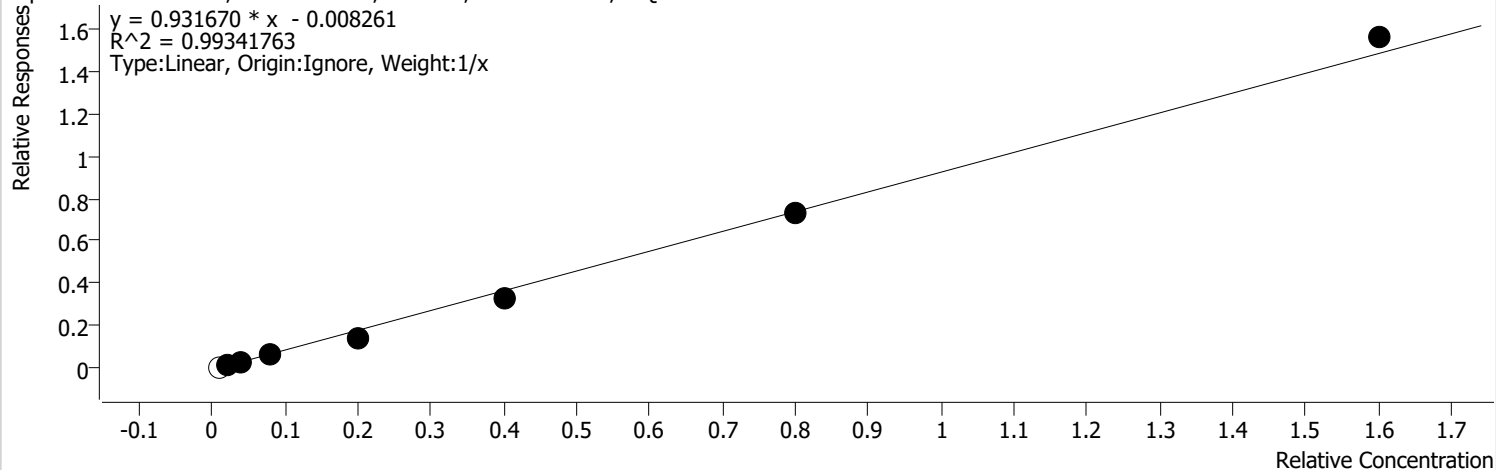
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\082123\082120.D	Calibration	1		4428	0.2000	0.4148	
D:\GC-19\Data\082123\082121.D	Calibration	2	x	11083	0.5000	0.4005	
D:\GC-19\Data\082123\082122.D	Calibration	3	x	29480	1.0000	0.5174	
D:\GC-19\Data\082123\082123.D	Calibration	4	x	47820	2.0000	0.4442	
D:\GC-19\Data\082123\082124.D	Calibration	5	x	114516	5.0000	0.4224	
D:\GC-19\Data\082123\082125.D	Calibration	6	x	246674	10.0000	0.4140	
D:\GC-19\Data\082123\082126.D	Calibration	7	x	485672	20.0000	0.3968	
D:\GC-19\Data\082123\082127.D	Calibration	8	x	1013253	40.0000	0.3857	

Calibration Report

Batch Path	D:\GC-19\Data\082123\QuantResults\VOC S CAL.batch.bin		
Analysis Time	8/22/2023 3:13 PM	Analyst Name	FA\GC19
Report Time	8/22/2023 3:15:41 PM	Reporter Name	FA\GC19
Last Calib Update	8/22/2023 12:55 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Naphthalene %RSE = 14.6

Naphthalene - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 0 QCs

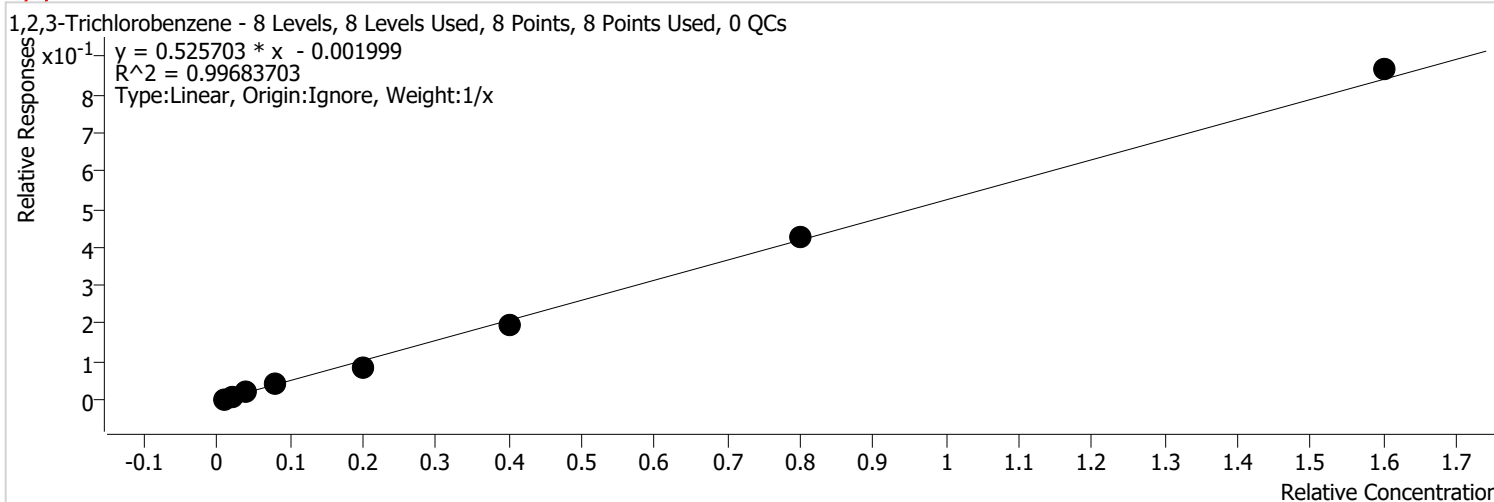


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\082123\082120.D	Calibration	1		8040	0.2000	0.7531	
D:\GC-19\Data\082123\082121.D	Calibration	2	x	20151	0.5000	0.7283	
D:\GC-19\Data\082123\082122.D	Calibration	3	x	44372	1.0000	0.7787	
D:\GC-19\Data\082123\082123.D	Calibration	4	x	86491	2.0000	0.8034	
D:\GC-19\Data\082123\082124.D	Calibration	5	x	192321	5.0000	0.7095	
D:\GC-19\Data\082123\082125.D	Calibration	6	x	482709	10.0000	0.8101	
D:\GC-19\Data\082123\082126.D	Calibration	7	x	1124141	20.0000	0.9184	
D:\GC-19\Data\082123\082127.D	Calibration	8	x	2556737	40.0000	0.9731	

Calibration Report

Batch Path	D:\GC-19\Data\082123\QuantResults\VOC S CAL.batch.bin		
Analysis Time	8/22/2023 3:13 PM	Analyst Name	FA\GC19
Report Time	8/22/2023 3:15:41 PM	Reporter Name	FA\GC19
Last Calib Update	8/22/2023 12:55 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,2,3-Trichlorobenzene %RSE = 10.9



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\082123\082120.D	Calibration	1	x	4021	0.2000	0.3767	
D:\GC-19\Data\082123\082121.D	Calibration	2	x	11294	0.5000	0.4082	
D:\GC-19\Data\082123\082122.D	Calibration	3	x	28036	1.0000	0.4920	
D:\GC-19\Data\082123\082123.D	Calibration	4	x	53900	2.0000	0.5007	
D:\GC-19\Data\082123\082124.D	Calibration	5	x	116398	5.0000	0.4294	
D:\GC-19\Data\082123\082125.D	Calibration	6	x	289427	10.0000	0.4857	
D:\GC-19\Data\082123\082126.D	Calibration	7	x	647910	20.0000	0.5293	
D:\GC-19\Data\082123\082127.D	Calibration	8	x	1419417	40.0000	0.5403	

VOC Soil Calibration



Date: 8/21/23

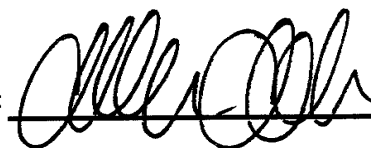
Analyst: CC

Instrument: GC-19

Cal	ICV
8260 Standard: <u>28800</u>	8260 Standard: <u>28810</u>

IS/Surrogate 28662

Cal Level	Spike Conc. (ppb)	Cal 8260 Spike (uL)	ICV 8260 Spike (uL)	Amount MeOH (mL)	Final Vol. (mL)	Comments
1	0.2	0.50	--	1.00	50	
2	0.5	1.25	--	1.00	50	
3	1	2.50	--	1.00	50	
4	2	5.00	--	1.00	50	
5	5	12.50	--	1.00	50	
6	10	25.00	--	1.00	50	
7	20	50.00	--	1.00	50	
8	40	100.00	--	1.00	50	
	ICV (20 ppb)	--	50.00	1.00	50	

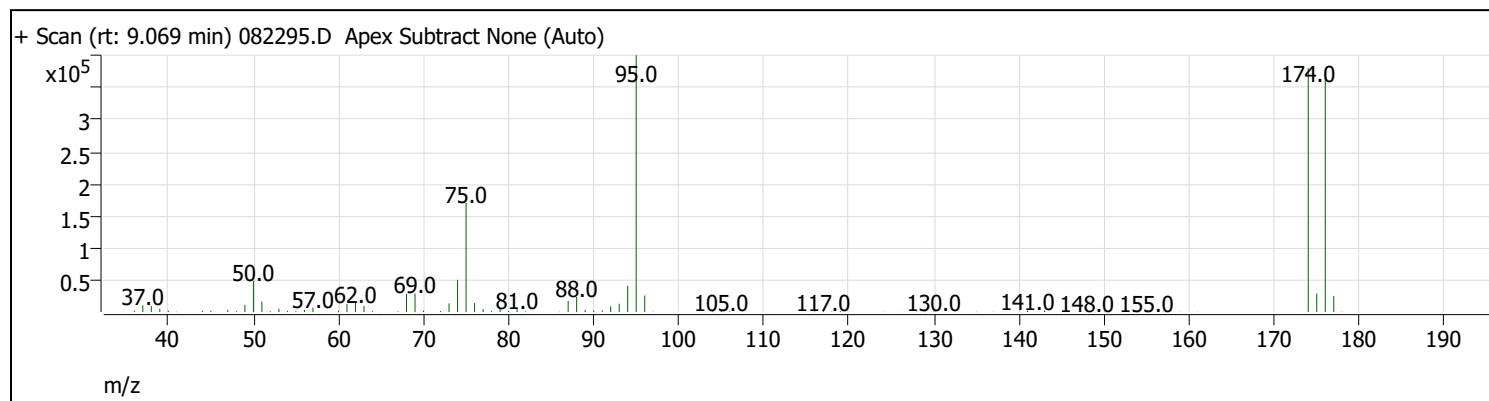
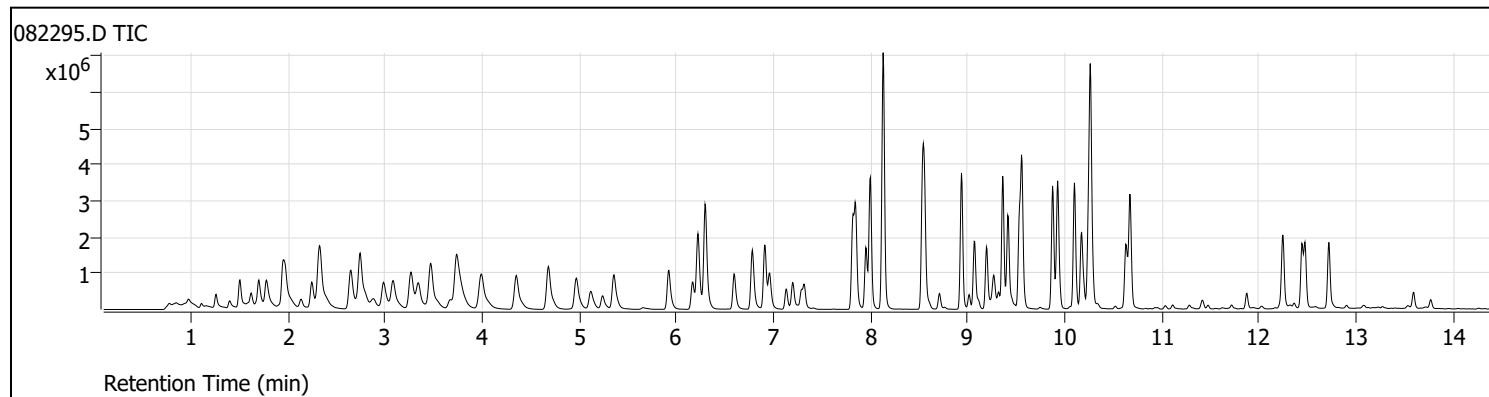
Signature and Date:  8/21/23



Tunes

Tune Evaluation Report

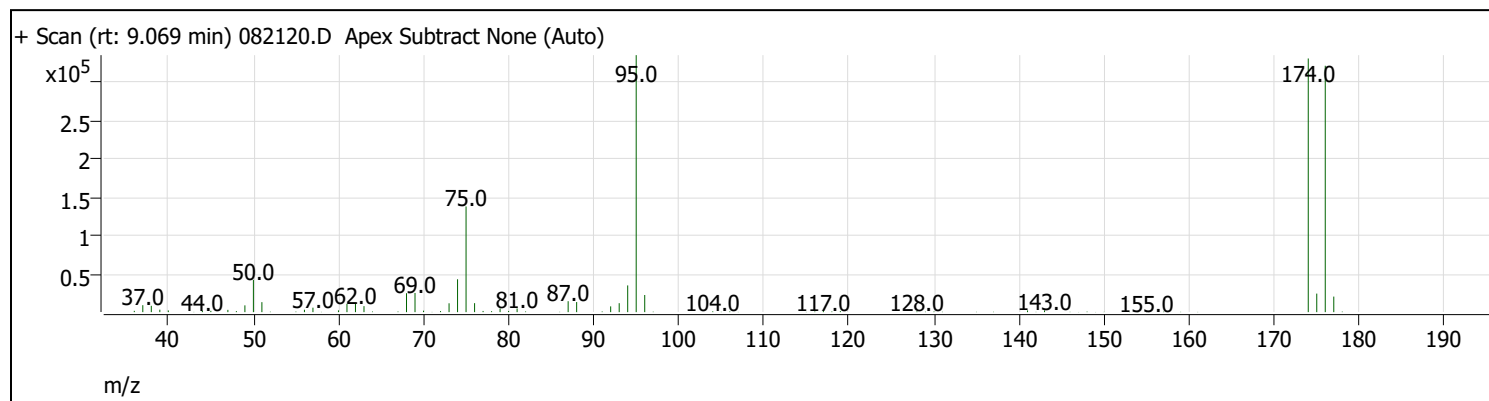
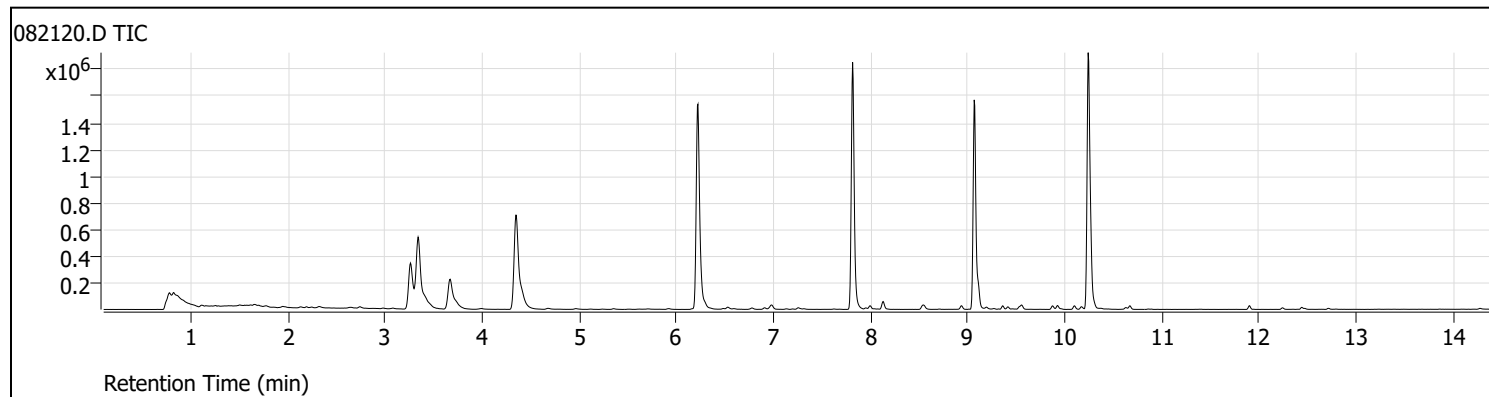
Data Path: D:\GC-19\Data\082223\082295.D
 Acq on: 8/24/2023 6:53:35 AM
 Operator: FA\GC19
 Sample: VOC S CCV A
 Inst Name: GC19
 ALS Vial: 1
 Method: D:\MassHunter\Methods\Quant\BFB2021.m



Target Mass	Rel. To Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Pass/Fail
95	174	50	200	105.4	400992	Pass
96	95	5	9	6.5	25968	Pass
173	174	0	2	0.0	0	Pass
174	95	50	200	94.9	380613	Pass
175	174	5	9	7.7	29172	Pass
176	174	95	105	97.8	372127	Pass
177	176	5	10	6.8	25145	Pass

Tune Evaluation Report

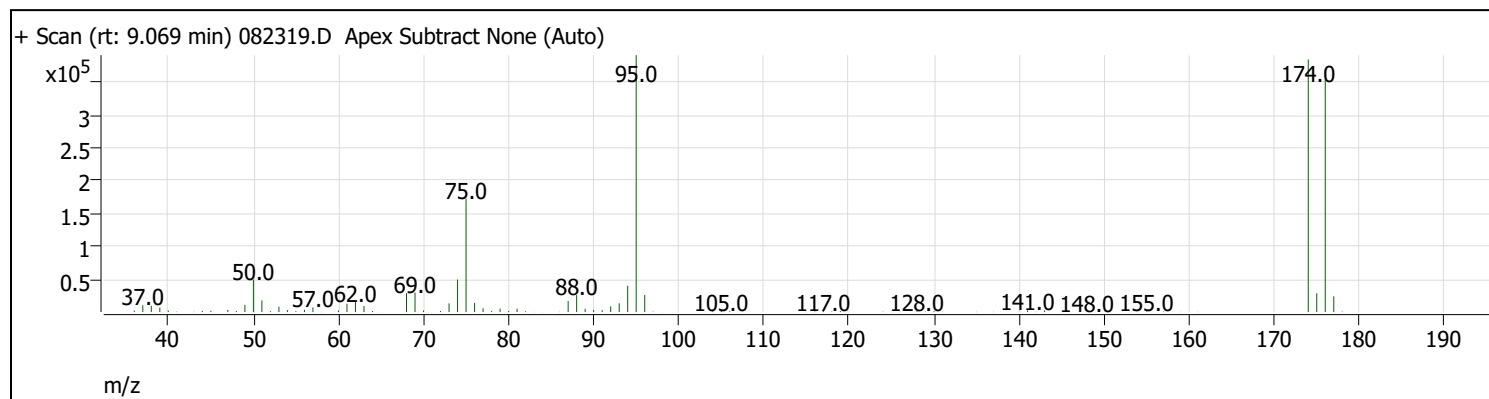
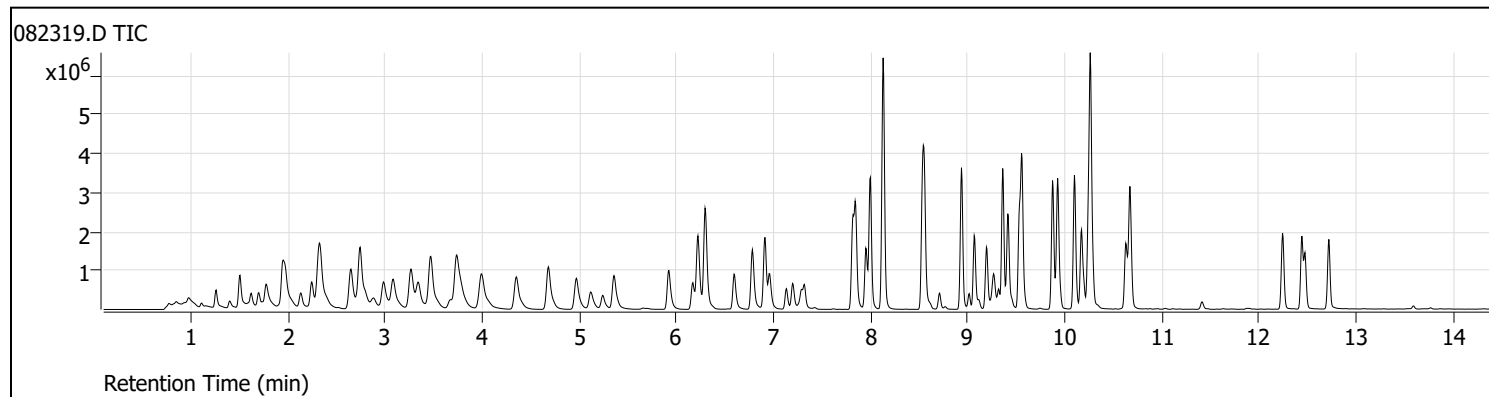
Data Path: D:\GC-19\Data\082123\082120.D
 Acq on: 8/21/2023 6:51:05 PM
 Operator: FA\GC19
 Sample: VOC S CAL 1
 Inst Name: GC19
 ALS Vial: 1
 Method: D:\MassHunter\Methods\Quant\BFB2021.m



Target Mass	Rel. To Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Pass/Fail
95	174	50	200	101.3	335686	Pass
96	95	5	9	6.7	22372	Pass
173	174	0	2	0.0	0	Pass
174	95	50	200	98.7	331334	Pass
175	174	5	9	7.3	24191	Pass
176	174	95	105	97.1	321818	Pass
177	176	5	10	6.3	20307	Pass

Tune Evaluation Report

Data Path: D:\GC-19\Data\082223\082319.D
 Acq on: 8/24/2023 4:53:32 PM
 Operator: FA\GC19
 Sample: VOC S CCV B
 Inst Name: GC19
 ALS Vial: 16
 Method: D:\MassHunter\Methods\Quant\BFB2021.m



Target Mass	Rel. To Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Pass/Fail
95	174	50	200	101.7	391409	Pass
96	95	5	9	6.7	26191	Pass
173	174	0	2	0.0	0	Pass
174	95	50	200	98.3	384790	Pass
175	174	5	9	7.5	28771	Pass
176	174	95	105	96.3	370374	Pass
177	176	5	10	6.5	24080	Pass



Internal Standards

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-19 230824C CCV Name: VOC S 86065
 Run No: 86120 CCV SeqNo: 1797170
 Lab File ID (Standard): 082126.D Date Analyzed: 8/21/2023
 Instrument ID: GC-19 Time Analyzed: 21:52
 GC Column: ID (mm): Length (M):

	IS1 FBZ AREA #	RT #	IS2 (CBZ) AREA #	RT #	IS3 (14DCBZ) AREA #	RT #		
12 HOUR STD	905853	3.339	1660917	7.816	1530067	10.244		
UPPER LIMIT	1811706	3.839	3321834	8.316	3060134	10.744		
LOWER LIMIT	452927	2.839	830459	7.316	765034	9.744		
SAMPLE NO.								
01 CCV-41291A	898268	3.343	1.96648e+006	7.816	1.81655e+006	10.249		
02 CCV-41291B	851115	3.344	1.83087e+006	7.816	1.75448e+006	10.244		

IS1 FBZ = Fluorobenzene
 IS2 (CBZ) = Chlorobenzene-d5

IS3 (14DCBZ) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = -50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-19 230824C

CCV Name: CCV-41291A

Run No: 86120

CCV SeqNo: 1797157

Lab File ID (Standard): 082295.D

Date Analyzed: 8/24/2023

Instrument ID: GC-19

Time Analyzed: 6:53

GC Column: ID (mm):

Length (M):

	IS1 FBZ AREA #	RT #	IS2 (CBZ) AREA #	RT #	IS3 (14DCBZ) AREA #	RT #		
12 HOUR STD	898268	3.343	1966482	7.816	1816554	10.249		
UPPER LIMIT	1796536	3.843	3932964	8.316	3633108	10.749		
LOWER LIMIT	449134	2.843	983241	7.316	908277	9.749		
SAMPLE NO.								
01 LCS-41291	898268	3.343	1.96648e+006	7.816	1.81655e+006	10.249		
02 MB-41291	854892	3.339	1.87836e+006	7.816	1.68368e+006	10.244		
03 2308312-001B	866101	3.344	1.89277e+006	7.816	1.70705e+006	10.249		
04 2308316-002B	860013	3.344	1.90679e+006	7.816	1.69892e+006	10.244		
05 2308316-002BDUP	840458	3.349	1.87291e+006	7.816	1.70946e+006	10.249		

IS1 FBZ = Fluorobenzene

IS3 (14DCBZ) = 1,4-Dichlorobenzene-d4

IS2 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-19 230824C

CCV Name: CCV-41291B

Run No: 86120

CCV SeqNo: 1797797

Lab File ID (Standard): 082319.D

Date Analyzed: 8/24/2023

Instrument ID: GC-19

Time Analyzed: 16:53

GC Column: ID (mm):

Length (M):

	IS1 FBZ AREA #	RT #	IS2 (CBZ) AREA #	RT #	IS3 (14DCBZ) AREA #	RT #		
12 HOUR STD	851115	3.344	1830866	7.816	1754476	10.244		
UPPER LIMIT	1702230	3.844	3661732	8.316	3508952	10.744		
LOWER LIMIT	425558	2.844	915433	7.316	877238	9.744		
SAMPLE NO.								
01 2308286-001B	790149	3.349	1.83692e+006	7.816	1.64858e+006	10.244		
02 2308286-001BDUP	800114	3.349	1.87749e+006	7.816	1.67728e+006	10.249		
03 2308286-003B	811875	3.349	1.92854e+006	7.816	1.71543e+006	10.249		
04 2308286-005B	811414	3.349	1.87573e+006	7.816	1.66152e+006	10.249		
05 2308286-007B	815603	3.349	1.97779e+006	7.816	1.79905e+006	10.244		
06 2308286-008B	790528	3.349	1.87002e+006	7.816	1.66855e+006	10.249		
07 2308286-009B	741090	3.349	1.77979e+006	7.816	1.59077e+006	10.249		
08 2308286-010B	882292	3.349	1.9949e+006	7.816	1.76601e+006	10.244		
09 2308286-011B	838806	3.349	1.94964e+006	7.816	1.72773e+006	10.249		
10 2308286-012B	843757	3.344	1.91142e+006	7.816	1.65237e+006	10.249		
11 2308286-013B	833459	3.349	1.94673e+006	7.821	1.7247e+006	10.249		
12 2308316-001B	803360	3.349	1.96766e+006	7.816	1.76552e+006	10.244		
13 2308316-003B	794534	3.349	1.91723e+006	7.816	1.69323e+006	10.249		
14 2308316-004B	795382	3.344	1.92781e+006	7.816	1.72036e+006	10.244		
15 2308286-005BMS	830439	3.344	1.95683e+006	7.816	1.82376e+006	10.244		

IS1 FBZ = Fluorobenzene

IS3 (14DCBZ) = 1,4-Dichlorobenzene-d4

IS2 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.



3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

GeoEngineers

Robert Trahan
2101 4th Ave, Suite 950
Seattle, WA 98121

RE: 701 S Jackson
Work Order Number: 2308369

August 31, 2023

Attention Robert Trahan:

Fremont Analytical, Inc. received 6 sample(s) on 8/28/2023 for the analyses presented in the following report.

Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.
Gasoline by NWTPH-Gx
Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)
Sample Moisture (Percent Moisture)
Volatile Organic Compounds by EPA Method 8260D

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager

DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.3 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910

Revision v1

www.fremontanalytical.com

CLIENT: GeoEngineers
Project: 701 S Jackson
Work Order: 2308369

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2308369-001	R3-B1-81	08/25/2023 9:25 AM	08/28/2023 11:49 AM
2308369-002	R3-B2-81	08/25/2023 9:30 AM	08/28/2023 11:49 AM
2308369-003	R3-B3-81	08/25/2023 9:45 AM	08/28/2023 11:49 AM
2308369-004	Trip Blank	08/25/2023 1:38 PM	08/28/2023 11:49 AM
2308369-005	R3-B4-81	08/25/2023 12:15 PM	08/28/2023 11:49 AM
2308369-006	R3-B5-81	08/25/2023 12:20 PM	08/28/2023 11:49 AM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: GeoEngineers

Project: 701 S Jackson

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

9/28/2023: Revision 1 includes level 2B data.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Analytical Report

Work Order: 2308369
Date Reported: 8/31/2023

Client: GeoEngineers

Collection Date: 8/25/2023 9:25:00 AM

Project: 701 S Jackson

Lab ID: 2308369-001

Matrix: Soil

Client Sample ID: R3-B1-81

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
----------	--------	----	------	-------	----	---------------

Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Batch ID: 41330 Analyst: SK

Diesel Range Organics	ND	62.3		mg/Kg-dry	1	8/29/2023 10:16:30 AM
Heavy Oil	ND	125		mg/Kg-dry	1	8/29/2023 10:16:30 AM
Total Petroleum Hydrocarbons	ND	187		mg/Kg-dry	1	8/29/2023 10:16:30 AM
Surr: 2-Fluorobiphenyl	84.7	50 - 150		%Rec	1	8/29/2023 10:16:30 AM
Surr: o-Terphenyl	90.1	50 - 150		%Rec	1	8/29/2023 10:16:30 AM

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Batch ID: 41343 Analyst: RG

Naphthalene	ND	23.2		µg/Kg-dry	1	8/30/2023 6:46:20 PM
2-Methylnaphthalene	ND	23.2		µg/Kg-dry	1	8/30/2023 6:46:20 PM
1-Methylnaphthalene	ND	23.2		µg/Kg-dry	1	8/30/2023 6:46:20 PM
Surr: 2-Fluorobiphenyl	94.4	22.2 - 146		%Rec	1	8/30/2023 6:46:20 PM
Surr: Terphenyl-d14 (surr)	100	20.2 - 159		%Rec	1	8/30/2023 6:46:20 PM

Gasoline by NWTPH-Gx

Batch ID: 41329 Analyst: CC

Gasoline Range Organics	7.74	5.49		mg/Kg-dry	1	8/28/2023 3:25:10 PM
Surr: Toluene-d8	103	65 - 135		%Rec	1	8/28/2023 3:25:10 PM
Surr: 4-Bromofluorobenzene	97.5	65 - 135		%Rec	1	8/28/2023 3:25:10 PM

Volatile Organic Compounds by EPA Method 8260D

Batch ID: 41329 Analyst: CC

Benzene	0.0472	0.0192		mg/Kg-dry	1	8/28/2023 3:25:10 PM
Toluene	ND	0.0329		mg/Kg-dry	1	8/28/2023 3:25:10 PM
Ethylbenzene	ND	0.0275		mg/Kg-dry	1	8/28/2023 3:25:10 PM
m,p-Xylene	ND	0.0549		mg/Kg-dry	1	8/28/2023 3:25:10 PM
o-Xylene	ND	0.0275		mg/Kg-dry	1	8/28/2023 3:25:10 PM
Surr: Dibromofluoromethane	101	79.5 - 124		%Rec	1	8/28/2023 3:25:10 PM
Surr: Toluene-d8	101	77.5 - 124		%Rec	1	8/28/2023 3:25:10 PM
Surr: 1-Bromo-4-fluorobenzene	97.5	60.5 - 139		%Rec	1	8/28/2023 3:25:10 PM

Sample Moisture (Percent Moisture)

Batch ID: R86186 Analyst: MP

Percent Moisture	19.8	0.500		wt%	1	8/29/2023 8:46:40 AM
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Analytical Report

Work Order: 2308369
Date Reported: 8/31/2023

Client: GeoEngineers

Collection Date: 8/25/2023 9:30:00 AM

Project: 701 S Jackson

Lab ID: 2308369-002

Matrix: Soil

Client Sample ID: R3-B2-81

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Batch ID: 41330 Analyst: SK

Diesel Range Organics	ND	60.5		mg/Kg-dry	1	8/29/2023 10:27:21 AM
Heavy Oil	ND	121		mg/Kg-dry	1	8/29/2023 10:27:21 AM
Total Petroleum Hydrocarbons	ND	181		mg/Kg-dry	1	8/29/2023 10:27:21 AM
Surr: 2-Fluorobiphenyl	84.1	50 - 150		%Rec	1	8/29/2023 10:27:21 AM
Surr: o-Terphenyl	89.7	50 - 150		%Rec	1	8/29/2023 10:27:21 AM

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Batch ID: 41343 Analyst: RG

Naphthalene	ND	24.5		µg/Kg-dry	1	8/30/2023 7:14:34 PM
2-Methylnaphthalene	ND	24.5		µg/Kg-dry	1	8/30/2023 7:14:34 PM
1-Methylnaphthalene	ND	24.5		µg/Kg-dry	1	8/30/2023 7:14:34 PM
Surr: 2-Fluorobiphenyl	103	22.2 - 146		%Rec	1	8/30/2023 7:14:34 PM
Surr: Terphenyl-d14 (surr)	111	20.2 - 159		%Rec	1	8/30/2023 7:14:34 PM

Gasoline by NWTPH-Gx

Batch ID: 41329 Analyst: CC

Gasoline Range Organics	ND	5.41		mg/Kg-dry	1	8/28/2023 4:27:11 PM
Surr: Toluene-d8	103	65 - 135		%Rec	1	8/28/2023 4:27:11 PM
Surr: 4-Bromofluorobenzene	95.0	65 - 135		%Rec	1	8/28/2023 4:27:11 PM

Volatile Organic Compounds by EPA Method 8260D

Batch ID: 41329 Analyst: CC

Benzene	ND	0.0189		mg/Kg-dry	1	8/28/2023 4:27:11 PM
Toluene	ND	0.0325		mg/Kg-dry	1	8/28/2023 4:27:11 PM
Ethylbenzene	ND	0.0270		mg/Kg-dry	1	8/28/2023 4:27:11 PM
m,p-Xylene	ND	0.0541		mg/Kg-dry	1	8/28/2023 4:27:11 PM
o-Xylene	ND	0.0270		mg/Kg-dry	1	8/28/2023 4:27:11 PM
Surr: Dibromofluoromethane	99.9	79.5 - 124		%Rec	1	8/28/2023 4:27:11 PM
Surr: Toluene-d8	96.0	77.5 - 124		%Rec	1	8/28/2023 4:27:11 PM
Surr: 1-Bromo-4-fluorobenzene	94.9	60.5 - 139		%Rec	1	8/28/2023 4:27:11 PM

Sample Moisture (Percent Moisture)

Batch ID: R86186 Analyst: MP

Percent Moisture	20.6	0.500		wt%	1	8/29/2023 8:46:40 AM
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Analytical Report

Work Order: 2308369
Date Reported: 8/31/2023

Client: GeoEngineers

Collection Date: 8/25/2023 9:45:00 AM

Project: 701 S Jackson

Lab ID: 2308369-003

Matrix: Soil

Client Sample ID: R3-B3-81

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Batch ID: 41330 Analyst: SK

Diesel Range Organics	ND	62.4		mg/Kg-dry	1	8/29/2023 10:38:09 AM
Heavy Oil	ND	125		mg/Kg-dry	1	8/29/2023 10:38:09 AM
Total Petroleum Hydrocarbons	ND	187		mg/Kg-dry	1	8/29/2023 10:38:09 AM
Surr: 2-Fluorobiphenyl	78.1	50 - 150		%Rec	1	8/29/2023 10:38:09 AM
Surr: o-Terphenyl	84.1	50 - 150		%Rec	1	8/29/2023 10:38:09 AM

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Batch ID: 41343 Analyst: RG

Naphthalene	781	23.7		µg/Kg-dry	1	8/30/2023 8:39:23 PM
2-Methylnaphthalene	287	23.7		µg/Kg-dry	1	8/30/2023 8:39:23 PM
1-Methylnaphthalene	131	23.7		µg/Kg-dry	1	8/30/2023 8:39:23 PM
Surr: 2-Fluorobiphenyl	121	22.2 - 146		%Rec	1	8/30/2023 8:39:23 PM
Surr: Terphenyl-d14 (surr)	125	20.2 - 159		%Rec	1	8/30/2023 8:39:23 PM

Gasoline by NWTPH-Gx

Batch ID: 41329 Analyst: CC

Gasoline Range Organics	168	71.0	D	mg/Kg-dry	10	8/28/2023 5:57:32 PM
Surr: Toluene-d8	101	65 - 135	D	%Rec	10	8/28/2023 5:57:32 PM
Surr: 4-Bromofluorobenzene	102	65 - 135	D	%Rec	10	8/28/2023 5:57:32 PM

Volatile Organic Compounds by EPA Method 8260D

Batch ID: 41329 Analyst: CC

Benzene	0.929	0.248	D	mg/Kg-dry	10	8/28/2023 5:57:32 PM
Toluene	3.44	0.426	D	mg/Kg-dry	10	8/28/2023 5:57:32 PM
Ethylbenzene	2.89	0.355	D	mg/Kg-dry	10	8/28/2023 5:57:32 PM
m,p-Xylene	11.9	0.710	D	mg/Kg-dry	10	8/28/2023 5:57:32 PM
o-Xylene	5.64	0.355	D	mg/Kg-dry	10	8/28/2023 5:57:32 PM
Surr: Dibromofluoromethane	96.5	79.5 - 124	D	%Rec	10	8/28/2023 5:57:32 PM
Surr: Toluene-d8	103	77.5 - 124	D	%Rec	10	8/28/2023 5:57:32 PM
Surr: 1-Bromo-4-fluorobenzene	101	60.5 - 139	D	%Rec	10	8/28/2023 5:57:32 PM

Sample Moisture (Percent Moisture)

Batch ID: R86186 Analyst: MP

Percent Moisture	20.8	0.500		wt%	1	8/29/2023 8:46:40 AM
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Client: GeoEngineers

Collection Date: 8/25/2023 1:38:00 PM

Project: 701 S Jackson

Lab ID: 2308369-004

Matrix: Soil

Client Sample ID: Trip Blank

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Gasoline by NWTPH-Gx

Batch ID: 41329 Analyst: CC

Gasoline Range Organics	ND	5.00		mg/Kg	1	8/28/2023 2:55:01 PM
Surr: Toluene-d8	104	65 - 135		%Rec	1	8/28/2023 2:55:01 PM
Surr: 4-Bromofluorobenzene	96.1	65 - 135		%Rec	1	8/28/2023 2:55:01 PM

Volatile Organic Compounds by EPA Method 8260D

Batch ID: 41329 Analyst: CC

Benzene	ND	0.0175		mg/Kg	1	8/28/2023 2:55:01 PM
Toluene	ND	0.0300		mg/Kg	1	8/28/2023 2:55:01 PM
Ethylbenzene	ND	0.0250		mg/Kg	1	8/28/2023 2:55:01 PM
m,p-Xylene	ND	0.0500		mg/Kg	1	8/28/2023 2:55:01 PM
o-Xylene	ND	0.0250		mg/Kg	1	8/28/2023 2:55:01 PM
Surr: Dibromofluoromethane	99.0	79.5 - 124		%Rec	1	8/28/2023 2:55:01 PM
Surr: Toluene-d8	101	77.5 - 124		%Rec	1	8/28/2023 2:55:01 PM
Surr: 1-Bromo-4-fluorobenzene	96.1	60.5 - 139		%Rec	1	8/28/2023 2:55:01 PM



Analytical Report

Work Order: 2308369
Date Reported: 8/31/2023

Client: GeoEngineers

Collection Date: 8/25/2023 12:15:00 PM

Project: 701 S Jackson

Lab ID: 2308369-005

Matrix: Soil

Client Sample ID: R3-B4-81

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Batch ID: 41330 Analyst: SK

Diesel Range Organics	ND	63.2		mg/Kg-dry	1	8/29/2023 10:49:04 AM
Heavy Oil	ND	126		mg/Kg-dry	1	8/29/2023 10:49:04 AM
Total Petroleum Hydrocarbons	ND	190		mg/Kg-dry	1	8/29/2023 10:49:04 AM
Surr: 2-Fluorobiphenyl	78.1	50 - 150		%Rec	1	8/29/2023 10:49:04 AM
Surr: o-Terphenyl	85.9	50 - 150		%Rec	1	8/29/2023 10:49:04 AM

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Batch ID: 41343 Analyst: RG

Naphthalene	207	25.2		µg/Kg-dry	1	8/30/2023 9:07:35 PM
2-Methylnaphthalene	81.8	25.2		µg/Kg-dry	1	8/30/2023 9:07:35 PM
1-Methylnaphthalene	42.6	25.2		µg/Kg-dry	1	8/30/2023 9:07:35 PM
Surr: 2-Fluorobiphenyl	96.7	22.2 - 146		%Rec	1	8/30/2023 9:07:35 PM
Surr: Terphenyl-d14 (surr)	104	20.2 - 159		%Rec	1	8/30/2023 9:07:35 PM

Gasoline by NWTPH-Gx

Batch ID: 41329 Analyst: CC

Gasoline Range Organics	30.1	9.07		mg/Kg-dry	1	8/28/2023 4:57:18 PM
Surr: Toluene-d8	102	65 - 135		%Rec	1	8/28/2023 4:57:18 PM
Surr: 4-Bromofluorobenzene	98.9	65 - 135		%Rec	1	8/28/2023 4:57:18 PM

Volatile Organic Compounds by EPA Method 8260D

Batch ID: 41329 Analyst: CC

Benzene	0.243	0.0317		mg/Kg-dry	1	8/28/2023 4:57:18 PM
Toluene	0.0828	0.0544		mg/Kg-dry	1	8/28/2023 4:57:18 PM
Ethylbenzene	1.10	0.0453		mg/Kg-dry	1	8/28/2023 4:57:18 PM
m,p-Xylene	0.893	0.0907		mg/Kg-dry	1	8/28/2023 4:57:18 PM
o-Xylene	0.0830	0.0453		mg/Kg-dry	1	8/28/2023 4:57:18 PM
Surr: Dibromofluoromethane	95.8	79.5 - 124		%Rec	1	8/28/2023 4:57:18 PM
Surr: Toluene-d8	94.8	77.5 - 124		%Rec	1	8/28/2023 4:57:18 PM
Surr: 1-Bromo-4-fluorobenzene	98.8	60.5 - 139		%Rec	1	8/28/2023 4:57:18 PM

Sample Moisture (Percent Moisture)

Batch ID: R86186 Analyst: MP

Percent Moisture	21.2	0.500		wt%	1	8/29/2023 8:46:40 AM
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Analytical Report

Work Order: 2308369
Date Reported: 8/31/2023

Client: GeoEngineers

Collection Date: 8/25/2023 12:20:00 PM

Project: 701 S Jackson

Lab ID: 2308369-006

Matrix: Soil

Client Sample ID: R3-B5-81

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Batch ID: 41330 Analyst: SK

Diesel Range Organics	445	59.0		mg/Kg-dry	1	8/29/2023 11:21:52 AM
Heavy Oil	ND	118		mg/Kg-dry	1	8/29/2023 11:21:52 AM
Total Petroleum Hydrocarbons	445	177		mg/Kg-dry	1	8/29/2023 11:21:52 AM
Surr: 2-Fluorobiphenyl	87.1	50 - 150		%Rec	1	8/29/2023 11:21:52 AM
Surr: o-Terphenyl	91.1	50 - 150		%Rec	1	8/29/2023 11:21:52 AM

NOTES:

Detection is due to overlap with gasoline-range material

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Batch ID: 41343 Analyst: RG

Naphthalene	611	23.7		µg/Kg-dry	1	8/30/2023 9:35:57 PM
2-Methylnaphthalene	1,680	23.7		µg/Kg-dry	1	8/30/2023 9:35:57 PM
1-Methylnaphthalene	773	23.7		µg/Kg-dry	1	8/30/2023 9:35:57 PM
Surr: 2-Fluorobiphenyl	113	22.2 - 146		%Rec	1	8/30/2023 9:35:57 PM
Surr: Terphenyl-d14 (surr)	105	20.2 - 159		%Rec	1	8/30/2023 9:35:57 PM

Gasoline by NWTPH-Gx

Batch ID: 41329 Analyst: CC

Gasoline Range Organics	23.8	5.55		mg/Kg-dry	1	8/28/2023 5:27:24 PM
Surr: Toluene-d8	107	65 - 135		%Rec	1	8/28/2023 5:27:24 PM
Surr: 4-Bromofluorobenzene	103	65 - 135		%Rec	1	8/28/2023 5:27:24 PM

Volatile Organic Compounds by EPA Method 8260D

Batch ID: 41329 Analyst: CC

Benzene	ND	0.0194		mg/Kg-dry	1	8/28/2023 5:27:24 PM
Toluene	ND	0.0333		mg/Kg-dry	1	8/28/2023 5:27:24 PM
Ethylbenzene	ND	0.0278		mg/Kg-dry	1	8/28/2023 5:27:24 PM
m,p-Xylene	ND	0.0555		mg/Kg-dry	1	8/28/2023 5:27:24 PM
o-Xylene	ND	0.0278		mg/Kg-dry	1	8/28/2023 5:27:24 PM
Surr: Dibromofluoromethane	94.9	79.5 - 124		%Rec	1	8/28/2023 5:27:24 PM
Surr: Toluene-d8	93.6	77.5 - 124		%Rec	1	8/28/2023 5:27:24 PM
Surr: 1-Bromo-4-fluorobenzene	103	60.5 - 139		%Rec	1	8/28/2023 5:27:24 PM

Sample Moisture (Percent Moisture)

Batch ID: R86186 Analyst: MP

Percent Moisture	17.7	0.500		wt%	1	8/29/2023 8:46:40 AM
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Work Order: 2308369
CLIENT: GeoEngineers
Project: 701 S Jackson

QC SUMMARY REPORT
Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Sample ID: HO ICV		SampType: ICV		Units: mg/Kg		Prep Date: 7/27/2023		RunNo: 85547			
Client ID: ICV		Batch ID: 41330				Analysis Date: 7/27/2023		SeqNo: 1784893			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Heavy Oil	515	100	500.0	0	103	70	130				
Surr: 2-Fluorobiphenyl	10.5		10.00		105	50	150				
Surr: o-Terphenyl	10.8		10.00		108	50	150				

Sample ID: HO ICB		SampType: ICB		Units: mg/Kg		Prep Date: 7/27/2023		RunNo: 85547			
Client ID: ICB		Batch ID: 41330				Analysis Date: 7/27/2023		SeqNo: 1784901			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Heavy Oil	ND	100									
Surr: 2-Fluorobiphenyl	9.91		10.00		99.1	50	150				
Surr: o-Terphenyl	9.84		10.00		98.4	50	150				

Sample ID: DX ICB		SampType: ICB		Units: mg/Kg		Prep Date: 7/27/2023		RunNo: 85547			
Client ID: ICB		Batch ID: 41330				Analysis Date: 7/27/2023		SeqNo: 1784903			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics	ND	50.0									
Surr: 2-Fluorobiphenyl	10.0		10.00		100	50	150				
Surr: o-Terphenyl	10.0		10.00		100	50	150				

Sample ID: DX ICV		SampType: ICV		Units: mg/Kg		Prep Date: 7/27/2023		RunNo: 85547			
Client ID: ICV		Batch ID: 41330				Analysis Date: 7/27/2023		SeqNo: 1784904			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics	479	50.0	500.0	0	95.8	70	130				
Surr: 2-Fluorobiphenyl	10.5		10.00		105	50	150				
Surr: o-Terphenyl	11.0		10.00		110	50	150				

Work Order: 2308369
CLIENT: GeoEngineers
Project: 701 S Jackson

QC SUMMARY REPORT
Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Sample ID: OIL-CCV-41330A		SampType: CCV		Units: mg/Kg		Prep Date: 8/29/2023		RunNo: 86196			
Client ID: CCV		Batch ID: 41330				Analysis Date: 8/29/2023		SeqNo: 1798966			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Heavy Oil	533	100	500.0	0	107	85	115				
Surr: 2-Fluorobiphenyl	12.8		10.00		128	50	150				
Surr: o-Terphenyl	13.2		10.00		132	50	150				

Sample ID: DX-CCV-41330A		SampType: CCV		Units: mg/Kg		Prep Date: 8/29/2023		RunNo: 86196			
Client ID: CCV		Batch ID: 41330				Analysis Date: 8/29/2023		SeqNo: 1798967			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics	493	50.0	500.0	0	98.7	85	115				
Surr: 2-Fluorobiphenyl	11.1		10.00		111	50	150				
Surr: o-Terphenyl	13.0		10.00		130	50	150				

Sample ID: MB-41330		SampType: MBLK		Units: mg/Kg		Prep Date: 8/28/2023		RunNo: 86196			
Client ID: MBLKS		Batch ID: 41330				Analysis Date: 8/29/2023		SeqNo: 1798968			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics	ND	50.0									
Heavy Oil	ND	100									
Total Petroleum Hydrocarbons	ND	150									
Surr: 2-Fluorobiphenyl	11.2		10.00		112	50	150				
Surr: o-Terphenyl	10.9		10.00		109	50	150				

Sample ID: LCS-41330		SampType: LCS		Units: mg/Kg		Prep Date: 8/28/2023		RunNo: 86196			
Client ID: LCSS		Batch ID: 41330				Analysis Date: 8/29/2023		SeqNo: 1798969			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Petroleum Hydrocarbons	510	150	500.0	0	102	76.8	124				
Surr: 2-Fluorobiphenyl	11.0		10.00		110	50	150				
Surr: o-Terphenyl	13.1		10.00		131	50	150				

Work Order: 2308369
CLIENT: GeoEngineers
Project: 701 S Jackson

QC SUMMARY REPORT
Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Sample ID: 2308369-005AMS	SampType: MS	Units: mg/Kg-dry			Prep Date: 8/28/2023	RunNo: 86196					
Client ID: R3-B4-81	Batch ID: 41330				Analysis Date: 8/29/2023	SeqNo: 1798975					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Petroleum Hydrocarbons	648	190	633.9	0	102	21.8	165				
Surr: 2-Fluorobiphenyl	12.2		12.68		96.3	50	150				
Surr: o-Terphenyl	14.8		12.68		117	50	150				

Sample ID: 2308369-005AMSD	SampType: MSD	Units: mg/Kg-dry			Prep Date: 8/28/2023	RunNo: 86196					
Client ID: R3-B4-81	Batch ID: 41330				Analysis Date: 8/29/2023	SeqNo: 1798976					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Petroleum Hydrocarbons	564	190	632.7	0	89.2	21.8	165	647.8	13.8	30	
Surr: 2-Fluorobiphenyl	8.24		12.65		65.1	50	150		0		
Surr: o-Terphenyl	12.3		12.65		97.4	50	150		0		

Sample ID: 2308369-006ADUP	SampType: DUP	Units: mg/Kg-dry			Prep Date: 8/28/2023	RunNo: 86196					
Client ID: R3-B5-81	Batch ID: 41330				Analysis Date: 8/29/2023	SeqNo: 1798978					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics	425	59.0						445.4	4.74	30	
Heavy Oil	ND	118						0		30	
Total Petroleum Hydrocarbons	425	177						445.4	4.74	30	
Surr: 2-Fluorobiphenyl	13.1		11.81		111	50	150		0		
Surr: o-Terphenyl	13.2		11.81		111	50	150		0		

NOTES:
Detection is due to overlap with gasoline-range material

Sample ID: OIL-CCV-41330B	SampType: CCV	Units: mg/Kg			Prep Date: 8/29/2023	RunNo: 86196					
Client ID: CCV	Batch ID: 41330				Analysis Date: 8/29/2023	SeqNo: 1798981					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Heavy Oil	501	100	500.0	0	100	85	115				
Surr: 2-Fluorobiphenyl	11.7		10.00		117	50	150				
Surr: o-Terphenyl	12.1		10.00		121	50	150				

Work Order: 2308369
CLIENT: GeoEngineers
Project: 701 S Jackson

QC SUMMARY REPORT
Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Sample ID: OIL-CCV-41330B	SampType: CCV	Units: mg/Kg	Prep Date: 8/29/2023	RunNo: 86196							
Client ID: CCV	Batch ID: 41330	Analysis Date: 8/29/2023	SeqNo: 1798981								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sample ID: DX-CCV-41330B	SampType: CCV	Units: mg/Kg	Prep Date: 8/29/2023	RunNo: 86196							
Client ID: CCV	Batch ID: 41330	Analysis Date: 8/29/2023	SeqNo: 1798982								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics	503	50.0	500.0	0	101	85	115				
Surr: 2-Fluorobiphenyl	11.7		10.00		117	50	150				
Surr: o-Terphenyl	13.6		10.00		136	50	150				

Work Order: 2308369
CLIENT: GeoEngineers
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QC SUMMARY REPORT

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Sample ID: ICV	SampType: ICV	Units: µg/L			Prep Date: 8/29/2023	RunNo: 86212					
Client ID: ICV	Batch ID: 41343				Analysis Date: 8/29/2023	SeqNo: 1799529					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	887	20.0	1,000	0	88.7	70	130				
2-Methylnaphthalene	845	20.0	1,000	0	84.5	70	130				
1-Methylnaphthalene	862	20.0	1,000	0	86.2	70	130				
Surr: 2-Fluorobiphenyl	450		500.0		90.0	60.9	160				
Surr: Terphenyl-d14 (surr)	441		500.0		88.2	62.2	159				

Sample ID: ICB	SampType: ICB	Units: µg/L			Prep Date: 8/30/2023	RunNo: 86212					
Client ID: ICB	Batch ID: 41343				Analysis Date: 8/30/2023	SeqNo: 1799530					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	ND	20.0									
2-Methylnaphthalene	ND	20.0									
1-Methylnaphthalene	ND	20.0									
Surr: 2-Fluorobiphenyl	346		500.0		69.3	50.4	142				
Surr: Terphenyl-d14 (surr)	348		500.0		69.6	48.8	157				

Sample ID: CCV-41343	SampType: CCV	Units: µg/L			Prep Date: 8/30/2023	RunNo: 86264					
Client ID: CCV	Batch ID: 41343				Analysis Date: 8/30/2023	SeqNo: 1800248					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	1,060	20.0	1,000	0	106	80	120				
2-Methylnaphthalene	1,040	20.0	1,000	0	104	80	120				
1-Methylnaphthalene	1,030	20.0	1,000	0	103	80	120				
Surr: 2,4,6-Tribromophenol	1,140		1,000		114	14	136				
Surr: 2-Fluorobiphenyl	531		500.0		106	69.5	150				
Surr: Terphenyl-d14 (surr)	494		500.0		98.8	71.6	145				

Work Order: 2308369
 CLIENT: GeoEngineers
 Project: 701 S Jackson

QC SUMMARY REPORT

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Sample ID: MB-41343	SampType: MBLK	Units: µg/Kg	Prep Date: 8/29/2023	RunNo: 86264							
Client ID: MBLKS	Batch ID: 41343		Analysis Date: 8/30/2023	SeqNo: 1800249							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Naphthalene	ND	20.0									
2-Methylnaphthalene	ND	20.0									
1-Methylnaphthalene	ND	20.0									
Surr: 2,4,6-Tribromophenol	1,130		2,000		56.3	27	142				
Surr: 2-Fluorobiphenyl	969		1,000		96.9	22.2	146				
Surr: Terphenyl-d14 (surr)	1,020		1,000		102	20.2	159				

Sample ID: LCS-41343	SampType: LCS	Units: µg/Kg	Prep Date: 8/29/2023	RunNo: 86264							
Client ID: LCSS	Batch ID: 41343		Analysis Date: 8/30/2023	SeqNo: 1800250							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Naphthalene	1,830	20.0	2,000	0	91.6	59.3	114				
2-Methylnaphthalene	1,800	20.0	2,000	0	90.2	55.5	115				
1-Methylnaphthalene	1,800	20.0	2,000	0	90.1	57.2	116				
Surr: 2,4,6-Tribromophenol	2,260		2,000		113	27	142				
Surr: 2-Fluorobiphenyl	1,100		1,000		110	22.2	146				
Surr: Terphenyl-d14 (surr)	1,070		1,000		107	20.2	159				

Sample ID: 2308369-002AMS	SampType: MS	Units: µg/Kg-dry	Prep Date: 8/29/2023	RunNo: 86264							
Client ID: R3-B2-81	Batch ID: 41343		Analysis Date: 8/30/2023	SeqNo: 1800254							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Naphthalene	2,560	24.7	2,471	5.281	103	48.9	121				
2-Methylnaphthalene	2,530	24.7	2,471	0	103	45.9	118				
1-Methylnaphthalene	2,540	24.7	2,471	0	103	48.5	121				
Surr: 2,4,6-Tribromophenol	3,030		2,471		123	27	142				
Surr: 2-Fluorobiphenyl	1,530		1,235		124	22.2	146				
Surr: Terphenyl-d14 (surr)	1,520		1,235		123	20.2	159				

Work Order: 2308369
CLIENT: GeoEngineers
Project: 701 S Jackson

QC SUMMARY REPORT

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Sample ID: 2308369-002AMSD	SampType: MSD	Units: µg/Kg-dry	Prep Date: 8/29/2023	RunNo: 86264							
Client ID: R3-B2-81	Batch ID: 41343	Analysis Date: 8/30/2023	SeqNo: 1800255								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	2,480	23.3	2,327	5.281	106	48.9	121	2,561	3.11	30	
2-Methylnaphthalene	2,460	23.3	2,327	0	106	45.9	118	2,534	3.04	30	
1-Methylnaphthalene	2,460	23.3	2,327	0	106	48.5	121	2,536	3.23	30	
Surr: 2,4,6-Tribromophenol	2,720		2,327		117	27	142		0		
Surr: 2-Fluorobiphenyl	1,330		1,164		115	22.2	146		0		
Surr: Terphenyl-d14 (surr)	1,330		1,164		115	20.2	159		0		

Work Order: 2308369
CLIENT: GeoEngineers
Project: 701 S Jackson

QC SUMMARY REPORT

Gasoline by NWTPH-Gx

Sample ID: GX ICB	SampType: ICB	Units: µg/L	Prep Date: 8/24/2023	RunNo: 86113							
Client ID: ICB	Batch ID: 41329		Analysis Date: 8/24/2023	SeqNo: 1796976							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline Range Organics	ND	50.0									
Surr: Toluene-d8	24.5		25.00		98.2	65	135				
Surr: 4-Bromofluorobenzene	24.7		25.00		98.8	65	135				

Sample ID: GX ICV	SampType: ICV	Units: µg/L	Prep Date: 8/24/2023	RunNo: 86113							
Client ID: ICV	Batch ID: 41329		Analysis Date: 8/24/2023	SeqNo: 1796977							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline Range Organics	448	50.0	500.0	0	89.6	80	120				
Surr: Toluene-d8	25.6		25.00		102	65	135				
Surr: 4-Bromofluorobenzene	25.7		25.00		103	65	135				

Sample ID: CCV-41329A	SampType: CCV	Units: mg/Kg	Prep Date: 8/28/2023	RunNo: 86190							
Client ID: CCV	Batch ID: 41329		Analysis Date: 8/28/2023	SeqNo: 1798808							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline Range Organics	546	5.00	500.0	0	109	80	120				
Surr: Toluene-d8	24.5		25.00		98.0	65	135				
Surr: 4-Bromofluorobenzene	25.5		25.00		102	65	135				

Sample ID: LCS-41329	SampType: LCS	Units: mg/Kg	Prep Date: 8/28/2023	RunNo: 86190							
Client ID: LCSS	Batch ID: 41329		Analysis Date: 8/28/2023	SeqNo: 1798813							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline Range Organics	27.3	5.00	25.00	0	109	65	135				
Surr: Toluene-d8	1.22		1.250		98.0	65	135				
Surr: 4-Bromofluorobenzene	1.28		1.250		102	65	135				

Work Order: 2308369
CLIENT: GeoEngineers
Project: 701 S Jackson

QC SUMMARY REPORT
Gasoline by NWTPH-Gx

Sample ID: MB-41329		SampType: MBLK		Units: mg/Kg		Prep Date: 8/28/2023		RunNo: 86190			
Client ID: MBLKS		Batch ID: 41329				Analysis Date: 8/28/2023		SeqNo: 1798812			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	ND	5.00									
Surr: Toluene-d8	1.28		1.250		102	65	135				
Surr: 4-Bromofluorobenzene	1.21		1.250		96.5	65	135				

Sample ID: 2308369-001BDUP		SampType: DUP		Units: mg/Kg-dry		Prep Date: 8/28/2023		RunNo: 86190			
Client ID: R3-B1-81		Batch ID: 41329				Analysis Date: 8/28/2023		SeqNo: 1798800			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	8.08	5.49						7.739	4.30	30	
Surr: Toluene-d8	1.42		1.373		104	65	135		0		
Surr: 4-Bromofluorobenzene	1.33		1.373		96.7	65	135		0		

Sample ID: 2308369-002BMS		SampType: MS		Units: mg/Kg-dry		Prep Date: 8/28/2023		RunNo: 86190			
Client ID: R3-B2-81		Batch ID: 41329				Analysis Date: 8/28/2023		SeqNo: 1798802			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	23.0	5.41	27.05	3.978	70.2	65	135				
Surr: Toluene-d8	1.40		1.352		103	65	135				
Surr: 4-Bromofluorobenzene	1.35		1.352		100	65	135				

Sample ID: CCV-41329B		SampType: CCV		Units: %Rec		Prep Date: 8/28/2023		RunNo: 86190			
Client ID: CCV		Batch ID: 41329				Analysis Date: 8/28/2023		SeqNo: 1798809			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Toluene-d8	22.0		25.00		88.0	65	135				
Surr: 4-Bromofluorobenzene	26.2		25.00		105	65	135				

Work Order: 2308369
CLIENT: GeoEngineers
Project: 701 S Jackson

QC SUMMARY REPORT

Gasoline by NWTPH-Gx

Sample ID: 2308362-001BDUP		SampType: DUP		Units: mg/Kg-dry		Prep Date: 8/28/2023		RunNo: 86190			
Client ID: BATCH		Batch ID: 41329				Analysis Date: 8/28/2023		SeqNo: 1798789			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	ND	4.85						0		30	
Surr: Toluene-d8	1.26		1.213		104	65	135		0		
Surr: 4-Bromofluorobenzene	1.16		1.213		95.3	65	135		0		

Sample ID: CCV-41329C		SampType: CCV		Units: mg/Kg		Prep Date: 8/29/2023		RunNo: 86190			
Client ID: CCV		Batch ID: 41329				Analysis Date: 8/29/2023		SeqNo: 1798810			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	485	5.00	500.0	0	97.1	80	120				
Surr: Toluene-d8	25.7		25.00		103	65	135				
Surr: 4-Bromofluorobenzene	26.4		25.00		106	65	135				

Sample ID: CCV-41329D		SampType: CCV		Units: mg/Kg		Prep Date: 8/29/2023		RunNo: 86190			
Client ID: CCV		Batch ID: 41329				Analysis Date: 8/29/2023		SeqNo: 1798811			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	481	5.00	500.0	0	96.1	80	120				
Surr: Toluene-d8	25.3		25.00		101	65	135				
Surr: 4-Bromofluorobenzene	26.0		25.00		104	65	135				

Work Order: 2308369
CLIENT: GeoEngineers
Project: 701 S Jackson

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: ICV	SampType: ICV	Units: µg/L	Prep Date: 8/25/2023	RunNo: 86143							
Client ID: ICV	Batch ID: 41329		Analysis Date: 8/25/2023	SeqNo: 1797749							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	19.2	0.0175	20.00	0	96.0	70	130				
Toluene	18.6	0.0300	20.00	0	93.0	70	130				
Ethylbenzene	20.0	0.0250	20.00	0	100	70	130				
m,p-Xylene	41.2	0.0500	40.00	0	103	70	130				
o-Xylene	20.7	0.0250	20.00	0	103	70	130				
Surr: Dibromofluoromethane	24.4		25.00		97.8	80	120				
Surr: Toluene-d8	25.0		25.00		100	80	120				
Surr: 1-Bromo-4-fluorobenzene	25.0		25.00		99.9	80	120				

Sample ID: ICB	SampType: ICB	Units: µg/L	Prep Date: 8/25/2023	RunNo: 86143							
Client ID: ICB	Batch ID: 41329		Analysis Date: 8/25/2023	SeqNo: 1797750							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	0.0219	0.0175									
Toluene	0.0657	0.0300									
Ethylbenzene	0.0514	0.0250									
m,p-Xylene	0.104	0.0500									
o-Xylene	ND	0.0250									
Surr: Dibromofluoromethane	24.5		25.00		98.1	80	120				
Surr: Toluene-d8	24.5		25.00		97.8	80	120				
Surr: 1-Bromo-4-fluorobenzene	24.4		25.00		97.5	80	120				

Sample ID: CCV-41329A	SampType: CCV	Units: µg/L	Prep Date: 8/28/2023	RunNo: 86189							
Client ID: CCV	Batch ID: 41329		Analysis Date: 8/28/2023	SeqNo: 1798782							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	19.5	0.0175	20.00	0	97.4	80	120				
Toluene	19.9	0.0300	20.00	0	99.4	80	120				
Ethylbenzene	21.9	0.0250	20.00	0	110	80	120				
m,p-Xylene	46.2	0.0500	40.00	0	116	80	120				
o-Xylene	22.4	0.0250	20.00	0	112	80	120				

Work Order: 2308369
CLIENT: GeoEngineers
Project: 701 S Jackson

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: CCV-41329A		SampType: CCV		Units: µg/L		Prep Date: 8/28/2023		RunNo: 86189			
Client ID: CCV		Batch ID: 41329				Analysis Date: 8/28/2023		SeqNo: 1798782			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	24.7		25.00		98.7	80	120				
Surr: Toluene-d8	24.9		25.00		99.4	80	120				
Surr: 1-Bromo-4-fluorobenzene	25.7		25.00		103	80	120				

Sample ID: LCS-41329		SampType: LCS		Units: µg/L		Prep Date: 8/28/2023		RunNo: 86189			
Client ID: LCSS		Batch ID: 41329				Analysis Date: 8/28/2023		SeqNo: 1798785			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	0.974	0.0175	1.000	0	97.4	80	120				
Toluene	0.994	0.0300	1.000	0	99.4	80	120				
Ethylbenzene	1.10	0.0250	1.000	0	110	80	120				
m,p-Xylene	2.31	0.0500	2.000	0	116	80	120				
o-Xylene	1.12	0.0250	1.000	0	112	80	120				
Surr: Dibromofluoromethane	1.23		1.250		98.7	79.5	124				
Surr: Toluene-d8	1.24		1.250		99.4	77.5	124				
Surr: 1-Bromo-4-fluorobenzene	1.29		1.250		103	60.5	139				

Sample ID: MB-41329		SampType: MBLK		Units: mg/Kg		Prep Date: 8/28/2023		RunNo: 86189			
Client ID: MBLKS		Batch ID: 41329				Analysis Date: 8/28/2023		SeqNo: 1798781			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.0175									
Toluene	ND	0.0300									
Ethylbenzene	ND	0.0250									
m,p-Xylene	ND	0.0500									
o-Xylene	ND	0.0250									
Surr: Dibromofluoromethane	1.26		1.250		101	79.5	124				
Surr: Toluene-d8	1.27		1.250		101	77.5	124				
Surr: 1-Bromo-4-fluorobenzene	1.21		1.250		96.5	60.5	139				

Work Order: 2308369
CLIENT: GeoEngineers
Project: 701 S Jackson

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: 2308369-001BDUP		SampType: DUP		Units: mg/Kg-dry		Prep Date: 8/28/2023		RunNo: 86189			
Client ID: R3-B1-81		Batch ID: 41329				Analysis Date: 8/28/2023		SeqNo: 1798774			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	0.0440	0.0192						0.04718	6.87	30	
Toluene	ND	0.0329						0		30	
Ethylbenzene	ND	0.0275						0		30	
m,p-Xylene	ND	0.0549						0		30	
o-Xylene	ND	0.0275						0		30	
Surr: Dibromofluoromethane	1.37		1.373		99.6	79.5	124		0		
Surr: Toluene-d8	1.43		1.373		104	77.5	124		0		
Surr: 1-Bromo-4-fluorobenzene	1.32		1.373		96.4	60.5	139		0		

Sample ID: CCV-41329B		SampType: CCV		Units: µg/L		Prep Date: 8/28/2023		RunNo: 86189			
Client ID: CCV		Batch ID: 41329				Analysis Date: 8/28/2023		SeqNo: 1798783			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	18.4	0.0175	20.00	0	91.8	80	120				
Toluene	19.1	0.0300	20.00	0	95.3	80	120				
Ethylbenzene	20.3	0.0250	20.00	0	101	80	120				
m,p-Xylene	42.7	0.0500	40.00	0	107	80	120				
o-Xylene	20.7	0.0250	20.00	0	104	80	120				
Surr: Dibromofluoromethane	24.2		25.00		96.7	80	120				
Surr: Toluene-d8	25.5		25.00		102	80	120				
Surr: 1-Bromo-4-fluorobenzene	25.8		25.00		103	80	120				

Sample ID: 2308362-001BDUP		SampType: DUP		Units: mg/Kg-dry		Prep Date: 8/28/2023		RunNo: 86189			
Client ID: BATCH		Batch ID: 41329				Analysis Date: 8/28/2023		SeqNo: 1798763			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.0170						0		30	
Toluene	ND	0.0291						0		30	
Ethylbenzene	ND	0.0243						0		30	
m,p-Xylene	ND	0.0485						0		30	
o-Xylene	ND	0.0243						0		30	

Work Order: 2308369
CLIENT: GeoEngineers
Project: 701 S Jackson

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: 2308362-001BDUP		SampType: DUP		Units: mg/Kg-dry		Prep Date: 8/28/2023		RunNo: 86189			
Client ID: BATCH		Batch ID: 41329				Analysis Date: 8/28/2023		SeqNo: 1798763			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	1.18		1.213		97.6	79.5	124		0		
Surr: Toluene-d8	1.34		1.213		110	77.5	124		0		
Surr: 1-Bromo-4-fluorobenzene	1.16		1.213		95.2	60.5	139		0		

Sample ID: 2308362-002BMS		SampType: MS		Units: mg/Kg-dry		Prep Date: 8/28/2023		RunNo: 86189			
Client ID: BATCH		Batch ID: 41329				Analysis Date: 8/29/2023		SeqNo: 1798787			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	0.782	0.0180	1.026	0	76.2	52.3	147				
Toluene	0.768	0.0308	1.026	0	74.8	50.1	147				
Ethylbenzene	0.890	0.0257	1.026	0	86.8	51.7	143				
m,p-Xylene	1.93	0.0513	2.053	0	94.2	54.5	144				
o-Xylene	1.01	0.0257	1.026	0	98.9	57.1	141				
Surr: Dibromofluoromethane	1.21		1.283		94.5	79.5	124				
Surr: Toluene-d8	1.19		1.283		92.5	77.5	124				
Surr: 1-Bromo-4-fluorobenzene	1.41		1.283		110	60.5	139				

Client Name: GEI	Work Order Number: 2308369
Logged by: Morgan Wilson	Date Received: 8/28/2023 11:49:00 AM

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
2. How was the sample delivered? Client

Log In

3. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes No Not Present
4. Was an attempt made to cool the samples? Yes No NA
5. Were all items received at a temperature of >2°C to 6°C * Yes No NA
6. Sample(s) in proper container(s)? Yes No
7. Sufficient sample volume for indicated test(s)? Yes No
8. Are samples properly preserved? Yes No
9. Was preservative added to bottles? Yes No NA
10. Is there headspace in the VOA vials? Yes No NA
11. Did all samples containers arrive in good condition(unbroken)? Yes No
12. Does paperwork match bottle labels? Yes No
13. Are matrices correctly identified on Chain of Custody? Yes No
14. Is it clear what analyses were requested? Yes No
15. Were all holding times able to be met? Yes No

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text" value="Robert Trahan"/>	Date:	<input type="text" value="8/28/2023"/>
By Whom:	<input type="text" value="Morgan Wilson"/>	Via:	<input checked="" type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text" value="Confirm 2B Data Package"/>		
Client Instructions:	<input type="text" value="Please proceed with 2B Data Package"/>		

17. Additional remarks:

Item Information

Item #	Temp °C
Sample	5.2

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C



3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Chain of Custody Record & Laboratory Services Agreement

Date: 2023.08 Page: 1 of 1

Project Name: 701 S Jackson

Project No: 24504-001-03

Collected by: Meredith Bush

Location: Seattle

Report To (PM): Robert Trahan

PM Email: rtrahan@geoengineers.com

Laboratory Project No (Internal): 2348369

Special Remarks:

Sample Disposal: Return to client Disposal by lab (after 30 days)

Client: Geo Engineers
Address: 2101 4th Ave
City, State, Zip: Seattle, WA 98121
Telephone: 206-728-2674

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	VOCs (EPA 8260 / 624)	GX/BTEX	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (DX)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T) / Dissolved (D)	Anions (C)***	EDB (8011)	Naphthalenes	Comments
1 R3-B1-81	8/25	0925	S	X			X						X					
2 R3-B2-81	8/25	0930	S	X			X						X					
3 R3-B3-81	8/25	0945	S	X			X						X					
4 Trip blank	8/25	13:38		X														
5 R3-B4-81	8/25	1215	S	X			X						X					
6 R3-B5-81	8/25	1220	S	X			X						X					
7																		
8																		
9																		
10																		

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water
 **Metals (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Tl Ti U V Zn
 ***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above and that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished Date/Time: Aug 28, 2023 11:48
 Received Date/Time: 8/28/23 11:49
 Relinquished Date/Time: _____
 Received Date/Time: _____

Turn-around Time:
 Standard
 3 Day
 2 Day
 Next Day
 Same Day (specify) _____

DATA SET for Review - Deliverable Requirements

Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Fremont Analytical Work Order No. 2308369

GeoEngineers

Project Name: S Jackson Street

Project Number: 24504-001-01

This data set contains the following:

- Analytical Sequence Summary
- Calibration Information

Data Directory: D:\GC-24\Data\2023\230727FRONT\

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) 07270002.D CO	DX_220112.M	150	1.000	27 Jul 2023 10:39 am
2) 07270004.D HO 20	DX_220112.M	21	1.000	27 Jul 2023 10:50 am
3) 07270006.D HO 100	DX_220112.M	22	1.000	27 Jul 2023 11:01 am
4) 07270008.D HO 500	DX_220112.M	23	1.000	27 Jul 2023 11:12 am
5) 07270010.D HO 1000	DX_220112.M	24	1.000	27 Jul 2023 11:23 am
6) 07270012.D HO 2000	DX_220112.M	25	1.000	27 Jul 2023 11:34 am
7) 07270014.D HO 5000	DX_220112.M	26	1.000	27 Jul 2023 11:45 am
8) 07270016.D HO 10000	DX_220112.M	27	1.000	27 Jul 2023 11:56 am
9) 07270018.D CO	DX_220112.M	150	1.000	27 Jul 2023 12:07 pm
10) 07270020.D CO	DX_220112.M	150	1.000	27 Jul 2023 12:18 pm
11) 07270022.D CO	DX_220112.M	148	1.000	27 Jul 2023 12:29 pm
12) 07270024.D HO ICB	DX_220112.M	28	1.000	27 Jul 2023 12:40 pm
13) 07270026.D HO 20	DX_220112.M	21	1.000	27 Jul 2023 12:51 pm
14) 07270028.D HO ICV	DX_220112.M	29	1.000	27 Jul 2023 01:02 pm
15) 07270030.D CO	DX_220112.M	150	1.000	27 Jul 2023 01:13 pm
16) 07270032.D DX 20	DX_220112.M	11	1.000	27 Jul 2023 01:23 pm
17) 07270034.D DX 100	DX_220112.M	12	1.000	27 Jul 2023 01:34 pm
18) 07270036.D DX 500	DX_220112.M	13	1.000	27 Jul 2023 01:46 pm
19) 07270038.D DX 1000	DX_220112.M	14	1.000	27 Jul 2023 01:57 pm
20) 07270040.D DX 2000	DX_220112.M	15	1.000	27 Jul 2023 02:08 pm
21) 07270042.D DX 5000	DX_220112.M	16	1.000	27 Jul 2023 02:19 pm

22) 07270044.D DX 10000	DX_220112.M	17	1.000	27 Jul 2023	02:30 pm
23) 07270046.D HO ICB	DX_220112.M	28	1.000	27 Jul 2023	02:41 pm
24) 07270048.D HO 20	DX_220112.M	21	1.000	27 Jul 2023	02:52 pm
25) 07270050.D CO	DX_220112.M	150	1.000	27 Jul 2023	03:03 pm
26) 07270052.D CO	DX_220112.M	150	1.000	27 Jul 2023	03:14 pm
27) 07270054.D DX ICB	DX_220112.M	18	1.000	27 Jul 2023	03:25 pm
28) 07270056.D DX ICV	DX_220112.M	19	1.000	27 Jul 2023	03:42 pm
29) 07270058.D CO	DX_220112.M	150	1.000	27 Jul 2023	03:53 pm
30) 07270060.D CO	DX_220112.M	150	1.000	27 Jul 2023	04:04 pm
31) 07270062.D CO	DX_220112.M	150	1.000	27 Jul 2023	04:15 pm
32) 07270064.D CO	DX_220112.M	150	1.000	27 Jul 2023	04:26 pm
33) 07270066.D OIL-CCV	DX_220112.M	2	1.000	27 Jul 2023	04:37 pm
34) 07270068.D DX-CCV	DX_220112.M	1	1.000	27 Jul 2023	04:48 pm
35) 07270070.D CO	DX_220112.M	150	1.000	27 Jul 2023	04:59 pm
36) 07270072.D MB-40979	DX_220112.M	61	1.000	27 Jul 2023	05:10 pm
37) 07270074.D LCS-40979	DX_220112.M	62	1.000	27 Jul 2023	05:21 pm
38) 07270076.D LCSD-40979	DX_220112.M	63	1.000	27 Jul 2023	05:32 pm
39) 07270078.D Dx MDL	DX_220112.M	73	1.000	27 Jul 2023	05:43 pm
40) 07270080.D RRO MDL	DX_220112.M	74	1.000	27 Jul 2023	05:54 pm
41) 07270082.D CO	DX_220112.M	150	1.000	27 Jul 2023	06:05 pm
42) 07270084.D CO	DX_220112.M	150	1.000	27 Jul 2023	06:16 pm
43) 07270086.D OIL-CCV	DX_220112.M	2	1.000	27 Jul 2023	06:27 pm
44) 07270088.D DX-CCV	DX_220112.M	1	1.000	27 Jul 2023	06:38 pm
45) 07270090.D	DX_220112.M				

CO			150	1.000	27 Jul 2023	06:49	pm
46)	07270092.D MB-41004	DX_220112.M	111	1.000	27 Jul 2023	07:00	pm
47)	07270094.D LCS-41004	DX_220112.M	112	1.000	27 Jul 2023	07:11	pm
48)	07270096.D 2307262-001B	DX_220112.M	113	1.000	27 Jul 2023	07:22	pm
49)	07270098.D 2307262-002B	DX_220112.M	114	1.000	27 Jul 2023	07:33	pm
50)	07270100.D 2307262-003B	DX_220112.M	115	1.000	27 Jul 2023	07:44	pm
51)	07270102.D 2307262-004B	DX_220112.M	116	1.000	27 Jul 2023	07:55	pm
52)	07270104.D 2307262-005B	DX_220112.M	117	1.000	27 Jul 2023	08:06	pm
53)	07270106.D 2307262-006B	DX_220112.M	118	1.000	27 Jul 2023	08:17	pm
54)	07270108.D 2307262-007B	DX_220112.M	119	1.000	27 Jul 2023	08:28	pm
55)	07270110.D 2307262-007BDUP	DX_220112.M	120	1.000	27 Jul 2023	08:39	pm
56)	07270112.D CO	DX_220112.M	150	1.000	27 Jul 2023	08:50	pm
57)	07270114.D OIL-CCV	DX_220112.M	2	1.000	27 Jul 2023	09:01	pm
58)	07270116.D DX-CCV	DX_220112.M	1	1.000	27 Jul 2023	09:12	pm
59)	07270118.D CO	DX_220112.M	150	1.000	27 Jul 2023	09:23	pm
60)	07270120.D 2307262-008B	DX_220112.M	121	1.000	27 Jul 2023	09:34	pm
61)	07270122.D 2307262-009B	DX_220112.M	122	1.000	27 Jul 2023	09:45	pm
62)	07270124.D 2307262-010B	DX_220112.M	123	1.000	27 Jul 2023	09:56	pm
63)	07270126.D 2307284-001B	DX_220112.M	124	1.000	27 Jul 2023	10:07	pm
64)	07270128.D 2307284-002B	DX_220112.M	125	1.000	27 Jul 2023	10:18	pm
65)	07270130.D 2307284-003B	DX_220112.M	126	1.000	27 Jul 2023	10:29	pm
66)	07270132.D 2307284-004B	DX_220112.M	127	1.000	27 Jul 2023	10:40	pm
67)	07270134.D 2307285-001A	DX_220112.M	128	1.000	27 Jul 2023	10:51	pm
68)	07270136.D CO	DX_220112.M	150	1.000	27 Jul 2023	11:02	pm

69) 07270138.D OIL-CCV	DX_220112.M	2	1.000	27 Jul 2023	11:12 pm
70) 07270140.D DX-CCV	DX_220112.M	1	1.000	27 Jul 2023	11:23 pm
71) 07270142.D CO	DX_220112.M	150	1.000	27 Jul 2023	11:34 pm
72) 07270144.D MB-40989	DX_220112.M	131	1.000	27 Jul 2023	11:45 pm
73) 07270146.D LCS-40989	DX_220112.M	132	1.000	27 Jul 2023	11:56 pm
74) 07270148.D 2307278-002A	DX_220112.M	136	1.000	28 Jul 2023	12:07 am
75) 07270150.D 2307278-002ADUP	DX_220112.M	137	1.000	28 Jul 2023	12:18 am
76) 07270152.D 2307278-003A	DX_220112.M	138	1.000	28 Jul 2023	12:29 am
77) 07270154.D 2307278-004A	DX_220112.M	139	1.000	28 Jul 2023	12:40 am
78) 07270156.D 2307278-005A	DX_220112.M	140	1.000	28 Jul 2023	12:51 am
79) 07270158.D 2307278-006A	DX_220112.M	141	1.000	28 Jul 2023	01:02 am
80) 07270160.D 2307278-009A	DX_220112.M	144	1.000	28 Jul 2023	01:13 am
81) 07270162.D 2307278-010A	DX_220112.M	145	1.000	28 Jul 2023	01:24 am
82) 07270164.D CO	DX_220112.M	150	1.000	28 Jul 2023	01:35 am
83) 07270166.D OIL-CCV	DX_220112.M	2	1.000	28 Jul 2023	01:46 am
84) 07270168.D DX-CCV	DX_220112.M	1	1.000	28 Jul 2023	01:57 am
85) 07270170.D CO	DX_220112.M	150	1.000	28 Jul 2023	02:08 am
86) 07270172.D 2307278-012A	DX_220112.M	147	1.000	28 Jul 2023	02:18 am
87) 07270174.D 2307278-001A	DX_220112.M	133	1.000	28 Jul 2023	02:29 am
88) 07270176.D CO	DX_220112.M	150	1.000	28 Jul 2023	02:40 am
89) 07270178.D 2307278-001AMS	DX_220112.M	134	1.000	28 Jul 2023	02:51 am
90) 07270180.D CO	DX_220112.M	150	1.000	28 Jul 2023	03:02 am
91) 07270182.D 2307278-001AMSD	DX_220112.M	135	1.000	28 Jul 2023	03:13 am

92) 07270184.D CO	DX_220112.M	150	1.000	28 Jul 2023	03:24 am
93) 07270186.D 2307278-011A	DX_220112.M	146	1.000	28 Jul 2023	03:35 am
94) 07270188.D CO	DX_220112.M	150	1.000	28 Jul 2023	03:46 am
95) 07270190.D 2307278-008A	DX_220112.M	143	1.000	28 Jul 2023	03:57 am
96) 07270192.D CO	DX_220112.M	150	1.000	28 Jul 2023	04:08 am
97) 07270194.D 2307278-007A	DX_220112.M	142	1.000	28 Jul 2023	04:19 am
98) 07270196.D CO	DX_220112.M	150	1.000	28 Jul 2023	04:30 am
99) 07270198.D CO	DX_220112.M	150	1.000	28 Jul 2023	04:41 am
100) 07270200.D OIL-CCV	DX_220112.M	2	1.000	28 Jul 2023	04:52 am
101) 07270202.D DX-CCV	DX_220112.M	1	1.000	28 Jul 2023	05:03 am
102) 07270204.D CO	DX_220112.M	150	1.000	28 Jul 2023	05:14 am

Data Directory: D:\GC-24\Data\2023\230829FRONT\

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) 08290002.D CO	DX_220112.M	150	1.000	29 Aug 2023 09:00 am
2) 08290004.D OIL-CCV	DX_220112.M	2	1.000	29 Aug 2023 09:11 am
3) 08290006.D DX-CCV	DX_220112.M	1	1.000	29 Aug 2023 09:21 am
4) 08290008.D CO	DX_220112.M	150	1.000	29 Aug 2023 09:32 am
5) 08290010.D MB-41330	DX_220112.M	11	1.000	29 Aug 2023 09:43 am
6) 08290012.D LCS-41330	DX_220112.M	12	1.000	29 Aug 2023 09:54 am
7) 08290014.D 2308368-001A	DX_220112.M	14	1.000	29 Aug 2023 10:05 am
8) 08290016.D 2308369-001A	DX_220112.M	15	1.000	29 Aug 2023 10:16 am
9) 08290018.D 2308369-002A	DX_220112.M	16	1.000	29 Aug 2023 10:27 am
10) 08290020.D 2308369-003A	DX_220112.M	17	1.000	29 Aug 2023 10:38 am
11) 08290022.D 2308369-005A	DX_220112.M	18	1.000	29 Aug 2023 10:49 am
12) 08290024.D 2308369-005AMS	DX_220112.M	19	1.000	29 Aug 2023 10:59 am
13) 08290026.D 2308369-005AMSD	DX_220112.M	20	1.000	29 Aug 2023 11:10 am
14) 08290028.D 2308369-006A	DX_220112.M	21	1.000	29 Aug 2023 11:21 am
15) 08290030.D 2308369-006ADUP	DX_220112.M	22	1.000	29 Aug 2023 11:32 am
16) 08290032.D 2308355-001A	DX_220112.M	13	1.000	29 Aug 2023 11:43 am
17) 08290034.D CO	DX_220112.M	150	1.000	29 Aug 2023 11:54 am
18) 08290036.D CO	DX_220112.M	150	1.000	29 Aug 2023 12:05 pm
19) 08290038.D CO	DX_220112.M	150	1.000	29 Aug 2023 12:16 pm
20) 08290040.D 2308355-001A rr	DX_220112.M	13	1.000	29 Aug 2023 12:27 pm
21) 08290042.D CO	DX_220112.M	150	1.000	29 Aug 2023 12:38 pm

22) 08290044.D	DX_220112.M	150	1.000	29 Aug 2023	12:49 pm
CO					

23) 08290046.D	DX_220112.M	150	1.000	29 Aug 2023	01:00 pm
CO					

24) 08290048.D	DX_220112.M	2	1.000	29 Aug 2023	01:11 pm
OIL-CCV					

25) 08290050.D	DX_220112.M	1	1.000	29 Aug 2023	01:22 pm
DX-CCV					

26) 08290052.D	DX_220112.M	150	1.000	29 Aug 2023	01:33 pm
CO					



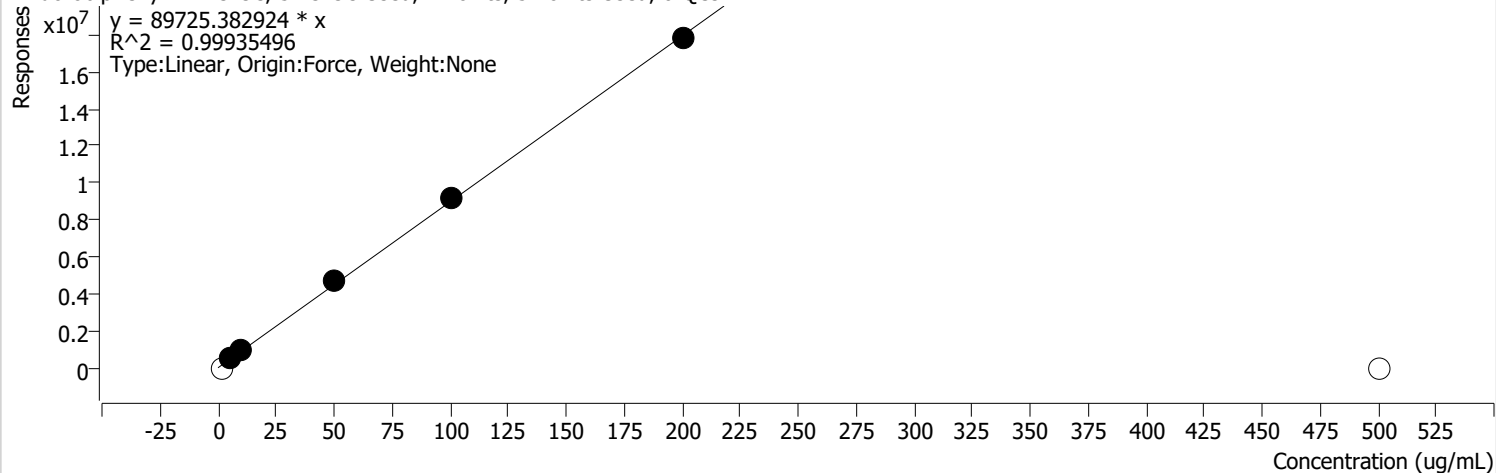
Calibration

Calibration Report

Batch Path	D:\GC-24\Data\2023\230727FRONT\QuantResults\Dx-Oil Cal.batch.bin		
Analysis Time	7/28/2023 9:47:30 AM	Analyst Name	FA\GC24
Report Time	7/28/2023 9:50:54 AM	Reporter Name	GC24
Last Calib Update	7/28/2023 9:45:03 AM	Batch State	Processed

2-Fluorobiphenyl

2-Fluorobiphenyl - 7 Levels, 5 Levels Used, 7 Points, 5 Points Used, 0 QCs



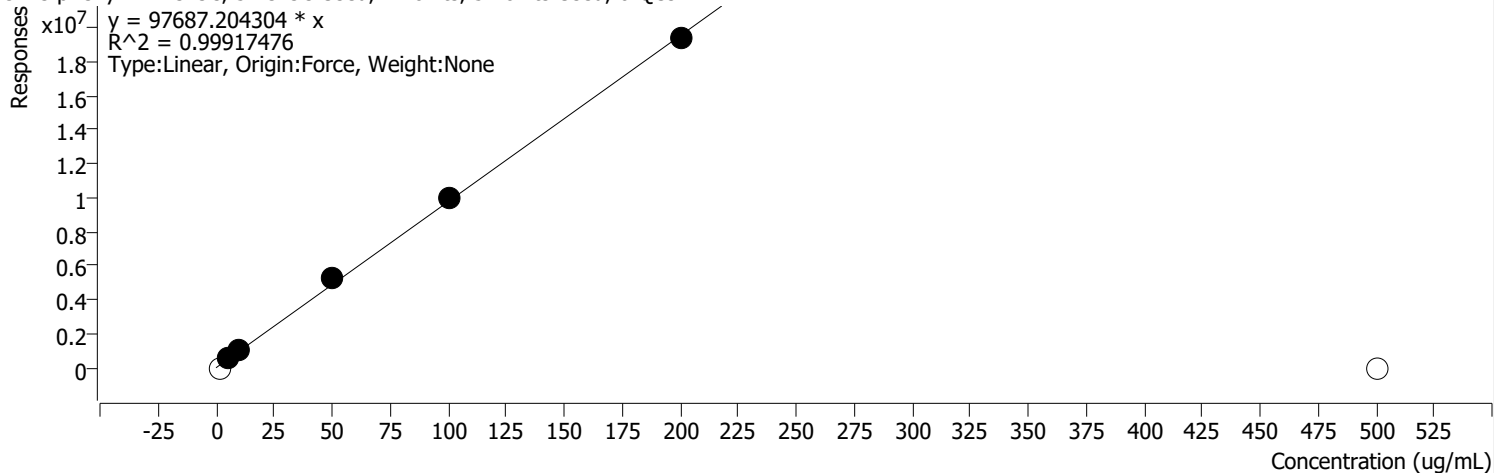
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-24\Data\2023\230727FRONT\07270048.D	Calibration	1		0	2.0000	0.0000
D:\GC-24\Data\2023\230727FRONT\07270006.D	Calibration	2	x	499781	5.0000	99956.2936
D:\GC-24\Data\2023\230727FRONT\07270008.D	Calibration	3	x	1001008	10.0000	100100.7802
D:\GC-24\Data\2023\230727FRONT\07270010.D	Calibration	4	x	4748564	50.0000	94971.2777
D:\GC-24\Data\2023\230727FRONT\07270012.D	Calibration	5	x	9133555	100.0000	91335.5456
D:\GC-24\Data\2023\230727FRONT\07270014.D	Calibration	6	x	17792528	200.0000	88962.6410
D:\GC-24\Data\2023\230727FRONT\07270016.D	Calibration	7		0	500.0000	0.0000

Calibration Report

Batch Path	D:\GC-24\Data\2023\230727FRONT\QuantResults\Dx-Oil Cal.batch.bin		
Analysis Time	7/28/2023 9:47:30 AM	Analyst Name	FA\GC24
Report Time	7/28/2023 9:50:56 AM	Reporter Name	GC24
Last Calib Update	7/28/2023 9:45:03 AM	Batch State	Processed

O-Terphenyl

O-Terphenyl - 7 Levels, 5 Levels Used, 7 Points, 5 Points Used, 0 QCs



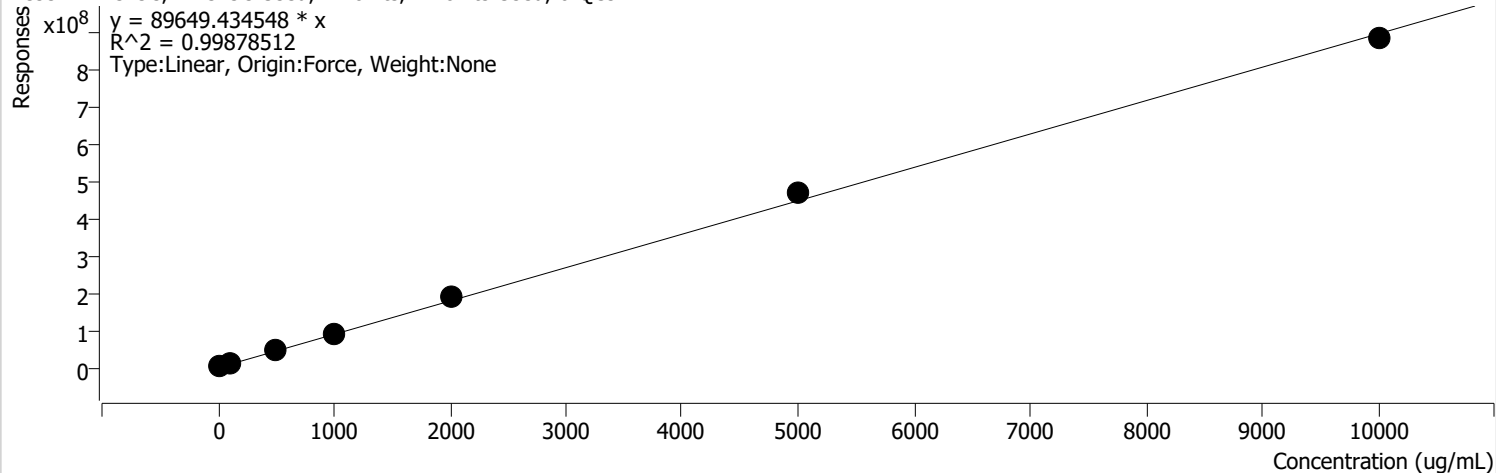
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-24\Data\2023\230727FRONT\07270048.D	Calibration	1		0	2.0000	0.0000
D:\GC-24\Data\2023\230727FRONT\07270006.D	Calibration	2	x	559603	5.0000	111920.5680
D:\GC-24\Data\2023\230727FRONT\07270008.D	Calibration	3	x	1118016	10.0000	111801.6431
D:\GC-24\Data\2023\230727FRONT\07270010.D	Calibration	4	x	5218661	50.0000	104373.2229
D:\GC-24\Data\2023\230727FRONT\07270012.D	Calibration	5	x	9941086	100.0000	99410.8621
D:\GC-24\Data\2023\230727FRONT\07270014.D	Calibration	6	x	19358846	200.0000	96794.2318
D:\GC-24\Data\2023\230727FRONT\07270016.D	Calibration	7		0	500.0000	0.0000

Calibration Report

Batch Path	D:\GC-24\Data\2023\230727FRONT\QuantResults\Dx-Oil Cal.batch.bin		
Analysis Time	7/28/2023 9:47:30 AM	Analyst Name	FA\GC24
Report Time	7/28/2023 9:50:56 AM	Reporter Name	GC24
Last Calib Update	7/28/2023 9:45:03 AM	Batch State	Processed

Diesel

Diesel - 7 Levels, 7 Levels Used, 7 Points, 7 Points Used, 0 QCs



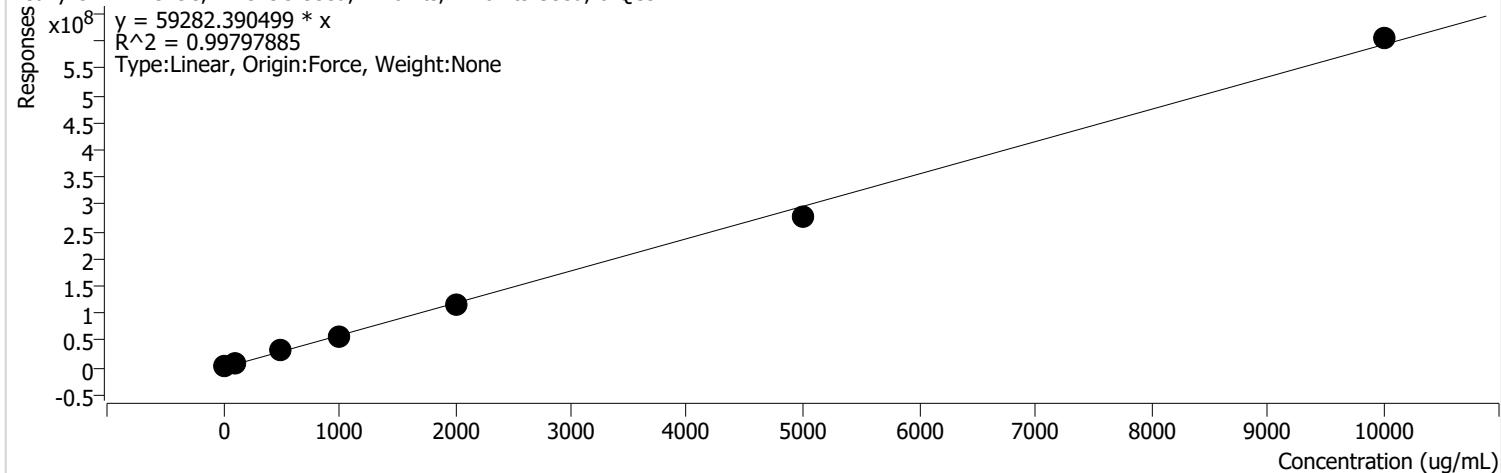
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-24\Data\2023\230727FRONT\07270032.D	Calibration	1	x	1532157	20.0000	76607.8377
D:\GC-24\Data\2023\230727FRONT\07270034.D	Calibration	2	x	8909518	100.0000	89095.1823
D:\GC-24\Data\2023\230727FRONT\07270036.D	Calibration	3	x	45292573	500.0000	90585.1454
D:\GC-24\Data\2023\230727FRONT\07270038.D	Calibration	4	x	91275534	1000.0000	91275.5337
D:\GC-24\Data\2023\230727FRONT\07270040.D	Calibration	5	x	188230632	2000.0000	94115.3159
D:\GC-24\Data\2023\230727FRONT\07270042.D	Calibration	6	x	470981718	5000.0000	94196.3435
D:\GC-24\Data\2023\230727FRONT\07270044.D	Calibration	7	x	883155794	10000.0000	88315.5794

Calibration Report

Batch Path	D:\GC-24\Data\2023\230727FRONT\QuantResults\Dx-Oil Cal.batch.bin		
Analysis Time	7/28/2023 9:47:30 AM	Analyst Name	FA\GC24
Report Time	7/28/2023 9:50:56 AM	Reporter Name	GC24
Last Calib Update	7/28/2023 9:45:03 AM	Batch State	Processed

Heavy Oil

Heavy Oil - 7 Levels, 7 Levels Used, 7 Points, 7 Points Used, 0 QCs



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-24\Data\2023\230727FRONT\07270048.D	Calibration	1	x	1139369	20.0000	56968.4627
D:\GC-24\Data\2023\230727FRONT\07270006.D	Calibration	2	x	6651487	100.0000	66514.8704
D:\GC-24\Data\2023\230727FRONT\07270008.D	Calibration	3	x	32500169	500.0000	65000.3388
D:\GC-24\Data\2023\230727FRONT\07270010.D	Calibration	4	x	56908464	1000.0000	56908.4636
D:\GC-24\Data\2023\230727FRONT\07270012.D	Calibration	5	x	117299033	2000.0000	58649.5166
D:\GC-24\Data\2023\230727FRONT\07270014.D	Calibration	6	x	275285166	5000.0000	55057.0333
D:\GC-24\Data\2023\230727FRONT\07270016.D	Calibration	7	x	603727752	10000.0000	60372.7752

Heavy Oil Calibration

Date: 7/27/23

Oil CAL STD: 28320

Concentration: 50,000 ug/L

Analyst: AHP

Oil ICV (SS): 27047

Concentration: 50,000 ug/L

MeCl2: 7583

SURROGATE: 28541

Concentration: 1,000 ug/L

	Calibration Point (ppm)	Surr Cal Point (ppm)	MeCl2 (uL)	STD Conc (ppm)	STD Amt (uL)	Surr Amt (uL)	Final Vol. (mL)	Comments
21	20	2	980	1000*	20*	-	1	*Note: the 1000 point w/ HO and surr will be used to make points 100 and 20
22	100	5	900	1000*	100*	-	1	
23	500	10	980	50,000	10	10	1	
24	1000*	50	930	50,000	20	50	1	
25	2000	100	860	50,000	40	100	1	
26	5000	200	700	50,000	100	200	1	
27	10000	500 -	800 ⁸⁰⁰	50,000	200	500	1	
28	ICB	-	990	-	-	10	1	
29	ICV (500)	10	980	50,000 SS	10 ^{SS}	10	1	

Signature and Date: Alex Posters 7/27/23

Diesel Calibration

Date: 7/27/23

DX CAL STD: 27149

Concentration: 50,000 ug/L

Analyst: AHP

DX ICV (SS): 28397

Concentration: 50,000 ug/L

MeCl2: 7583

Surr: 28541

Concentration 1000 mg/L

1
3

2

11
12
13
14
15
16
17
18
19

Calibration Point (ppm)	MeCl2 (uL)	STD Conc (ppm)	STD Amt (uL)	Surr (uL)	Final Vol. (mL)	Comments
20	980	1000*	20	-	1	
100	900	1000*	100	-	1	
500	990	50,000	10	-	1	
1000*	980	50,000	20	-	1	
2000	960	50,000	40	-	1	
5000	900	50,000	100	-	1	*Note: the 1000 point will be used to make points 100 and 20
10000	800	50,000	200	-	1	
ICB	990	-	-	10	1	
ICV (500)	980	50,000 SS	10	10	1	

Signature and Date: Alex Potter 7/27/23

DATA SET for Review - Deliverable Requirements

Gasoline by NWTPH-Gx

Fremont Analytical Work Order No. 2308369

GeoEngineers

Project Name: S Jackson Street

Project Number: 24504-001-01

This data set contains the following:

- Analytical Sequence Summary
- Calibration Information
- Tune Information
- Internal Standards Report

Data Directory: D:\GC-27\DATA\082323\

SampleName	MiscInfo	Vial	Multiplier	Injection Time	
1) 082342.D No data found	8260B-0206-1.M		0.000	N/A	
2) 082301.D R	8260B-0206-1.M O-VOC-W		1.000	23 Aug 2023	01:36 pm
3) 082302.D R	8260B-0206-1.M O-VOC-W		1.000	23 Aug 2023	02:05 pm
4) 082303.D R	8260B-0206-1.M O-VOC-W		1.000	23 Aug 2023	02:34 pm
5) 082304.D VOC W CCV A	8260B-0206-1.M O-VOC-W	1	1.000	23 Aug 2023	03:04 pm
6) 082305.D GX CCV A	8260B-0206-1.M O-VOC-W	2	1.000	23 Aug 2023	03:34 pm
7) 082306.D R	8260B-0206-1.M O-VOC-W		1.000	23 Aug 2023	04:03 pm
8) 082307.D R	8260B-0206-1.M O-VOC-W		1.000	23 Aug 2023	05:40 pm
9) 082308.D R	8260B-0206-1.M O-VOC-W		1.000	23 Aug 2023	06:09 pm
10) 082309.D R	8260B-0206-1.M O-VOC-W		1.000	23 Aug 2023	06:38 pm
11) 082310.D R	8260B-0206-1.M O-VOC-W		1.000	23 Aug 2023	07:06 pm
12) 082311.D VOC W ICAL 1	8260B-0206-1.M O-VOC-W	1	1.000	23 Aug 2023	07:36 pm
13) 082312.D VOC W ICAL 2	8260B-0206-1.M O-VOC-W	2	1.000	23 Aug 2023	08:07 pm
14) 082313.D VOC W ICAL 3	8260B-0206-1.M O-VOC-W	3	1.000	23 Aug 2023	08:37 pm
15) 082314.D VOC W ICAL 4	8260B-0206-1.M O-VOC-W	4	1.000	23 Aug 2023	09:07 pm
16) 082315.D VOC W ICAL 5	8260B-0206-1.M O-VOC-W	5	1.000	23 Aug 2023	09:37 pm
17) 082316.D VOC W ICAL 6	8260B-0206-1.M O-VOC-W	6	1.000	23 Aug 2023	10:07 pm
18) 082317.D VOC W ICAL 7	8260B-0206-1.M O-VOC-W	7	1.000	23 Aug 2023	10:37 pm
19) 082318.D VOC W ICAL 8	8260B-0206-1.M O-VOC-W	8	1.000	23 Aug 2023	11:07 pm
20) 082319.D VOC W ICAL 9	8260B-0206-1.M O-VOC-W	9	1.000	23 Aug 2023	11:37 pm
21) 082320.D R	8260B-0206-1.M O-VOC-W		1.000	24 Aug 2023	12:06 am

R	22) 082321.D	8260B-0206-1.M		1.000	24 Aug 2023	12:35 am
		O-VOC-W				
R	23) 082322.D	8260B-0206-1.M		1.000	24 Aug 2023	01:04 am
		O-VOC-W				
VOC W ICB	24) 082323.D	8260B-0206-1.M	10	1.000	24 Aug 2023	01:34 am
		O-VOC-W				
VOC W ICV	25) 082324.D	8260B-0206-1.M	11	1.000	24 Aug 2023	02:04 am
		O-VOC-W				
R	26) 082325.D	8260B-0206-1.M		1.000	24 Aug 2023	02:33 am
		O-VOC-W				
R	27) 082326.D	8260B-0206-1.M		1.000	24 Aug 2023	03:02 am
		O-VOC-W				
GX ICAL 1	28) 082327.D	8260B-0206-1.M	12	1.000	24 Aug 2023	03:32 am
		O-VOC-W				
GX ICAL 2	29) 082328.D	8260B-0206-1.M	13	1.000	24 Aug 2023	04:02 am
		O-VOC-W				
GX ICAL 3	30) 082329.D	8260B-0206-1.M	14	1.000	24 Aug 2023	04:32 am
		O-VOC-W				
GX ICAL 4	31) 082330.D	8260B-0206-1.M	15	1.000	24 Aug 2023	05:02 am
		O-VOC-W				
GX ICAL 5	32) 082331.D	8260B-0206-1.M	16	1.000	24 Aug 2023	05:32 am
		O-VOC-W				
GX ICAL 6	33) 082332.D	8260B-0206-1.M	17	1.000	24 Aug 2023	06:02 am
		O-VOC-W				
GX ICAL 7	34) 082333.D	8260B-0206-1.M	18	1.000	24 Aug 2023	06:32 am
		O-VOC-W				
R	35) 082334.D	8260B-0206-1.M		1.000	24 Aug 2023	07:01 am
		O-VOC-W				
R	36) 082335.D	8260B-0206-1.M		1.000	24 Aug 2023	07:30 am
		O-VOC-W				
GX ICB	37) 082336.D	8260B-0206-1.M	19	1.000	24 Aug 2023	08:00 am
		O-VOC-W				
GX ICV	38) 082337.D	8260B-0206-1.M	20	1.000	24 Aug 2023	08:30 am
		O-VOC-W				
VOC W CCV	39) 082338.D	8260B-0206-1.M	21	1.000	24 Aug 2023	09:00 am
		O-VOC-W				
VOC S CCV	40) 082339.D	8260B-0206-1.M	22	1.000	24 Aug 2023	09:31 am
		O-VOC-W				
R	41) 082340.D	8260B-0206-1.M		1.000	24 Aug 2023	09:59 am
		O-VOC-W				
INSTRUMENT BLANK	42) 082341.D	8260B-0206-1.M	23	1.000	24 Aug 2023	10:57 am
		O-VOC-W				

Data Directory: D:\GC-27\DATA\082823\

SampleName	MiscInfo	Vial	Multiplier	Injection Time
R 1) 082801.D	8260B-0206-1.M O-VOC-W		1.000	28 Aug 2023 09:04 am
VOC S CCV A 2) 082802.D	8260B-0206-1.M O-VOC-S	1	1.000	28 Aug 2023 09:34 am
VOC W CCV A 3) 082803.D	8260B-0206-1.M O-VOC-W	2	1.000	28 Aug 2023 10:04 am
GX CCV A 4) 082804.D	8260B-0206-1.M O-VOC-GX-S	3	1.000	28 Aug 2023 10:34 am
R 5) 082805.D	8260B-0206-1.M O-VOC-GX-S		1.000	28 Aug 2023 11:03 am
MB S 6) 082806.D	8260B-0206-1.M O-VOC-S	4	1.000	28 Aug 2023 11:33 am
2308255-018A 100X 7) 082807.D	8260B-0206-1.M O-VOC-W	5	1.000	28 Aug 2023 12:03 pm
2308255-024A 100X 8) 082808.D	8260B-0206-1.M O-VOC-W	6	1.000	28 Aug 2023 12:34 pm
2308284-001B 1000X 9) 082809.D	8260B-0206-1.M O-VOC-S	8	1.000	28 Aug 2023 01:04 pm
2308284-002B 1000X 10) 082810.D	8260B-0206-1.M O-VOC-S	9	1.000	28 Aug 2023 01:34 pm
R 11) 082811.D	8260B-0206-1.M O-VOC-S		1.000	28 Aug 2023 02:03 pm
2308369-004A 12) 082812.D	8260B-0206-1.M O-VOC-S	10	1.000	28 Aug 2023 02:55 pm
2308369-001A 13) 082813.D	8260B-0206-1.M O-VOC-S	11	1.000	28 Aug 2023 03:25 pm
2308369-001ADUP 14) 082814.D	8260B-0206-1.M O-VOC-S	12	1.000	28 Aug 2023 03:55 pm
2308369-002B 15) 082815.D	8260B-0206-1.M O-VOC-S	13	1.000	28 Aug 2023 04:27 pm
2308369-005B 16) 082816.D	8260B-0206-1.M O-VOC-S	14	1.000	28 Aug 2023 04:57 pm
2308369-006B 17) 082817.D	8260B-0206-1.M O-VOC-S	15	1.000	28 Aug 2023 05:27 pm
2308369-003B 10x 18) 082818.D	8260B-0206-1.M O-VOC-S	16	1.000	28 Aug 2023 05:57 pm
2308369-003B 19) 082819.D	8260B-0206-1.M O-VOC-S	17	1.000	28 Aug 2023 06:27 pm
R 20) 082820.D	8260B-0206-1.M O-VOC-S		1.000	28 Aug 2023 06:56 pm
R 21) 082821.D	8260B-0206-1.M O-VOC-S		1.000	28 Aug 2023 07:25 pm

22)	082822.D		8260B-0206-1.M						
2308369-002	BMS GX	O-VOC-S		18	1.000	28 Aug 2023	07:55	pm	
23)	082823.D		8260B-0206-1.M						
R		O-VOC-S			1.000	28 Aug 2023	08:23	pm	
24)	082824.D		8260B-0206-1.M						
VOC S CCV B		O-VOC-S		19	1.000	28 Aug 2023	08:54	pm	
25)	082825.D		8260B-0206-1.M						
GX CCV B		O-VOC-S		20	1.000	28 Aug 2023	09:24	pm	
26)	082826.D		8260B-0206-1.M						
R		O-VOC-S			1.000	28 Aug 2023	09:53	pm	
27)	082827.D		8260B-0206-1.M						
2308362-001	B	O-VOC-S		21	1.000	28 Aug 2023	10:23	pm	
28)	082828.D		8260B-0206-1.M						
2308362-001	BDUP	O-VOC-S		22	1.000	28 Aug 2023	10:53	pm	
29)	082829.D		8260B-0206-1.M						
2308362-002	B	O-VOC-S		23	1.000	28 Aug 2023	11:23	pm	
30)	082830.D		8260B-0206-1.M						
2308362-003	B	O-VOC-S		24	1.000	28 Aug 2023	11:53	pm	
31)	082831.D		8260B-0206-1.M						
2308362-004	B	O-VOC-S		25	1.000	29 Aug 2023	12:23	am	
32)	082832.D		8260B-0206-1.M						
2308362-005	B	O-VOC-S		26	1.000	29 Aug 2023	12:53	am	
33)	082833.D		8260B-0206-1.M						
2308362-006	B	O-VOC-S		27	1.000	29 Aug 2023	01:24	am	
34)	082834.D		8260B-0206-1.M						
2308362-008	B	O-VOC-S		28	1.000	29 Aug 2023	01:54	am	
35)	082835.D		8260B-0206-1.M						
2308362-007	B 10X	O-VOC-S		29	1.000	29 Aug 2023	02:24	am	
36)	082836.D		8260B-0206-1.M						
2308362-007	B	O-VOC-S		30	1.000	29 Aug 2023	02:54	am	
37)	082837.D		8260B-0206-1.M						
R		O-VOC-S			1.000	29 Aug 2023	03:23	am	
38)	082838.D		8260B-0206-1.M						
R		O-VOC-S			1.000	29 Aug 2023	03:51	am	
39)	082839.D		8260B-0206-1.M						
2308362-002	BMS VOC	O-VOC-S		31	1.000	29 Aug 2023	04:22	am	
40)	082840.D		8260B-0206-1.M						
R		O-VOC-S			1.000	29 Aug 2023	04:50	am	
41)	082841.D		8260B-0206-1.M						
VOC S CCV C		O-VOC-S		32	1.000	29 Aug 2023	05:20	am	
42)	082842.D		8260B-0206-1.M						
GX CCV C		O-VOC-S		33	1.000	29 Aug 2023	05:51	am	
43)	082843.D		8260B-0206-1.M						
R		O-VOC-S			1.000	29 Aug 2023	06:19	am	
44)	082844.D		8260B-0206-1.M						
R		O-VOC-S			1.000	29 Aug 2023	06:48	am	
45)	082845.D		8260B-0206-1.M						

		O-VOC-S		1.000	29 Aug 2023	07:17 am
46)	082846.D		8260B-0206-1.M			
R		O-VOC-S		1.000	29 Aug 2023	07:46 am
47)	082847.D		8260B-0206-1.M			
R		O-VOC-S		1.000	29 Aug 2023	08:15 am
48)	082848.D		8260B-0206-1.M			
R		O-VOC-S		1.000	29 Aug 2023	08:50 am
49)	082849.D		8260B-0206-1.M			
2308362-007B	100X	O-VOC-S	34	1.000	29 Aug 2023	09:21 am
50)	082850.D		8260B-0206-1.M			
R		O-VOC-S		1.000	29 Aug 2023	09:49 am
51)	082851.D		8260B-0206-1.M			
GX	CCV D	O-VOC-GX-S	35	1.000	29 Aug 2023	10:19 am
52)	082852.D		8260B-0206-1.M			
R		O-VOC-S		1.000	29 Aug 2023	10:48 am

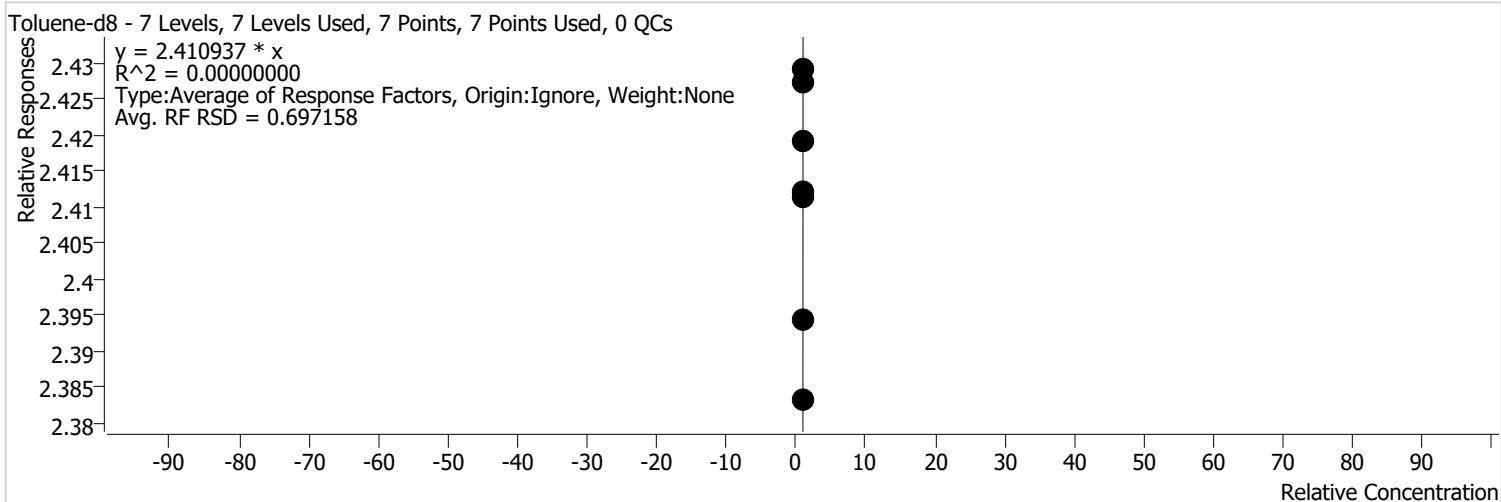


Calibration

Calibration Report

Batch Path	D:\GC-27\DATA\082323\QuantResults\GX ICAL.batch.bin		
Analysis Time	8/24/2023 11:09 AM	Analyst Name	FA\GC27
Report Time	8/24/2023 11:14:12 AM	Reporter Name	FA\GC27
Last Calib Update	8/24/2023 11:06 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Toluene-d8 %RSE =



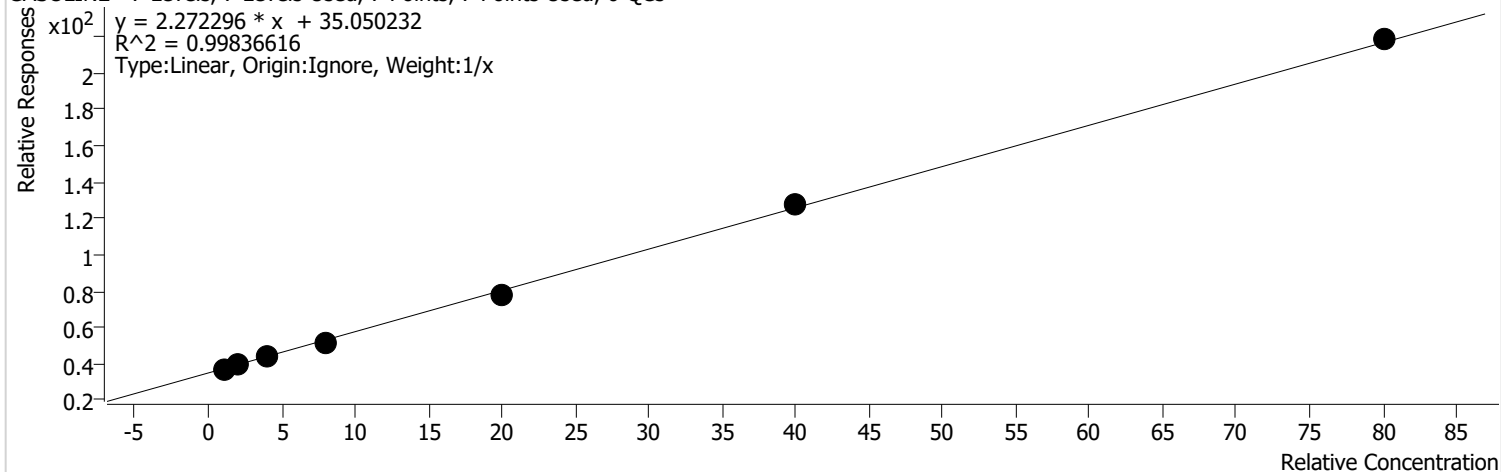
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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D:\GC-27\DATA\082323\082332.D	Calibration	6	x	4186991	25.0000	2.4120	
D:\GC-27\DATA\082323\082331.D	Calibration	5	x	3978437	25.0000	2.4272	
D:\GC-27\DATA\082323\082330.D	Calibration	4	x	3976468	25.0000	2.4114	
D:\GC-27\DATA\082323\082329.D	Calibration	3	x	3773968	25.0000	2.4191	
D:\GC-27\DATA\082323\082328.D	Calibration	2	x	3897466	25.0000	2.4291	
D:\GC-27\DATA\082323\082327.D	Calibration	1	x	3845534	25.0000	2.3833	

Calibration Report

Batch Path	D:\GC-27\DATA\082323\QuantResults\GX ICAL.batch.bin		
Analysis Time	8/24/2023 11:09 AM	Analyst Name	FA\GC27
Report Time	8/24/2023 11:14:14 AM	Reporter Name	FA\GC27
Last Calib Update	8/24/2023 11:06 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

GASOLINE %RSE = 8.6

GASOLINE - 7 Levels, 7 Levels Used, 7 Points, 7 Points Used, 0 QCs

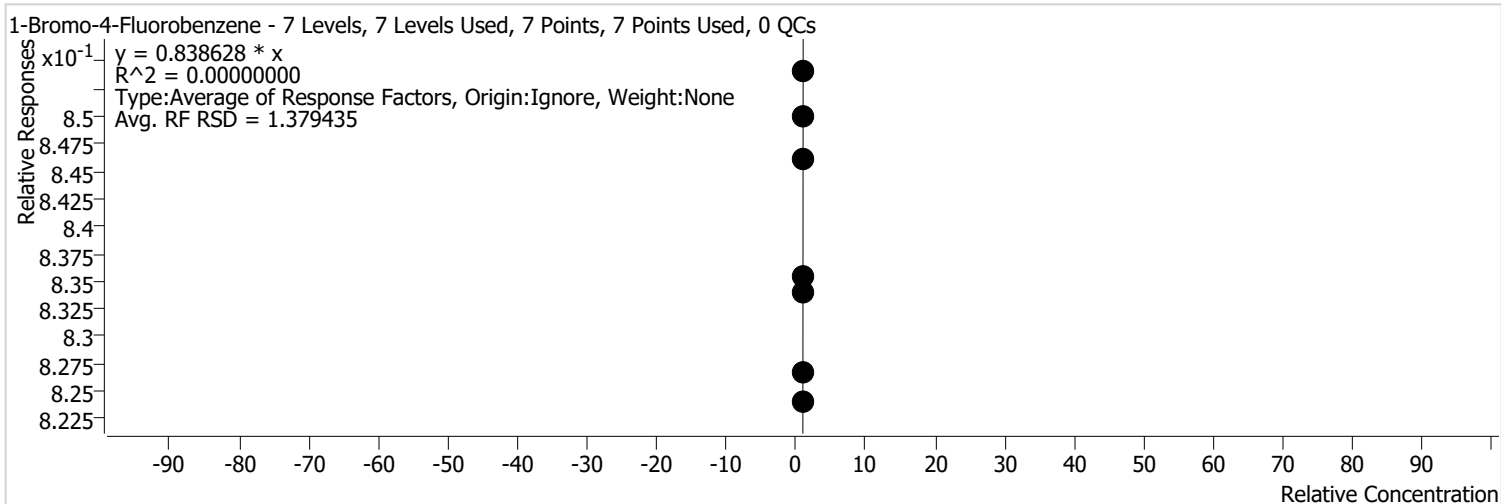


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082323\082327.D	Calibration	1	x	58663085	25.0000	37.3513	
D:\GC-27\DATA\082323\082328.D	Calibration	2	x	62041592	50.0000	20.1391	
D:\GC-27\DATA\082323\082329.D	Calibration	3	x	66397929	100.0000	10.8947	
D:\GC-27\DATA\082323\082330.D	Calibration	4	x	85757227	200.0000	6.4784	
D:\GC-27\DATA\082323\082331.D	Calibration	5	x	124634840	500.0000	3.8900	
D:\GC-27\DATA\082323\082332.D	Calibration	6	x	215128053	1000.0000	3.2094	
D:\GC-27\DATA\082323\082333.D	Calibration	7	x	399463989	2000.0000	2.7293	

Calibration Report

Batch Path	D:\GC-27\DATA\082323\QuantResults\GX ICAL.batch.bin		
Analysis Time	8/24/2023 11:09 AM	Analyst Name	FA\GC27
Report Time	8/24/2023 11:14:14 AM	Reporter Name	FA\GC27
Last Calib Update	8/24/2023 11:06 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1-Bromo-4-Fluorobenzene %RSE =



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082323\082333.D	Calibration	7	x	1564784	25.0000	0.8355	
D:\GC-27\DATA\082323\082332.D	Calibration	6	x	1468617	25.0000	0.8460	
D:\GC-27\DATA\082323\082331.D	Calibration	5	x	1399862	25.0000	0.8540	
D:\GC-27\DATA\082323\082330.D	Calibration	4	x	1401674	25.0000	0.8500	
D:\GC-27\DATA\082323\082329.D	Calibration	3	x	1300915	25.0000	0.8339	
D:\GC-27\DATA\082323\082328.D	Calibration	2	x	1326638	25.0000	0.8268	
D:\GC-27\DATA\082323\082327.D	Calibration	1	x	1329763	25.0000	0.8241	

R 86113

GX Calibration



Date: 8/23/23

Analyst: KS

Instrument: 6027

Cal	ICV
GX Standard: <u>28755</u>	GX Standard: <u>28565</u>

IS/Surrogate 28797

Cal Level	Spike Conc. (ppb)	Cal GX Spike (uL)	ICV GX Spike (uL)	Final Vol. (mL)	Comments
1	25	0.50	--	50	
2	50	1.00	--	50	
3	100	2.00	--	50	
4	200	4.00	--	50	
5	500	10.00	--	50	
6	1000	20.00	--	50	
7	2000	40.00	--	50	
	ICV (500 ppb)	--	10.00	50	

Signature and Date: Kelley J. 8/23/23

Signature: AK

V-Gasoline Calibration Bench Sheet v1.1

1 of 1

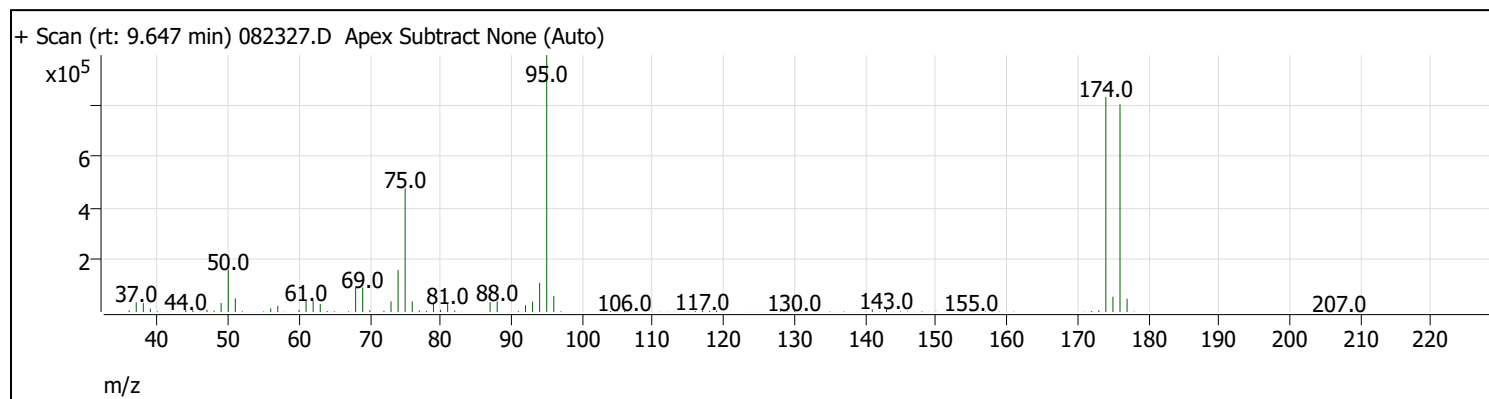
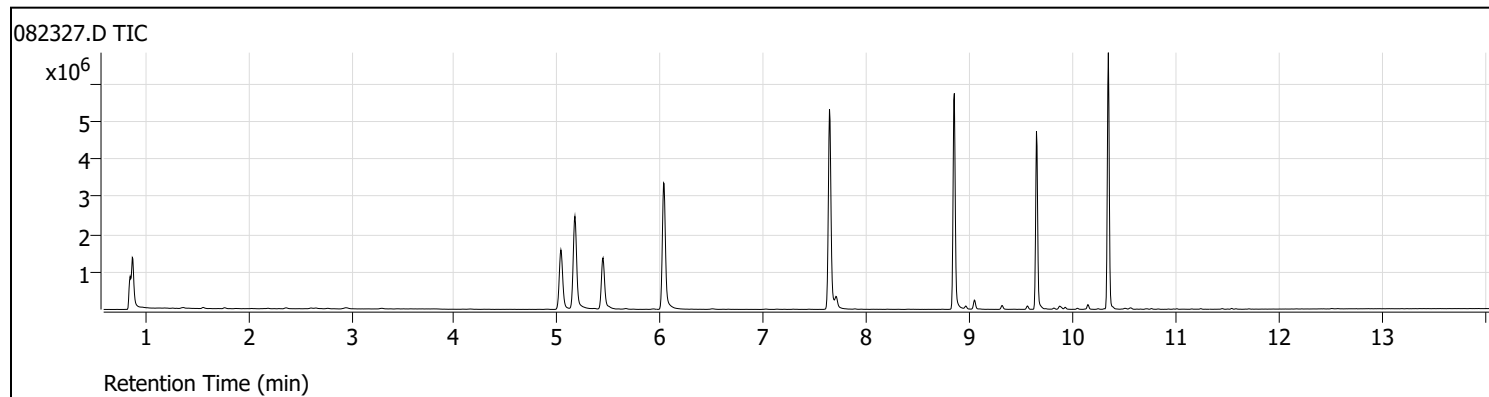
Official Approval: 4/12/2023



Tunes

Tune Evaluation Report

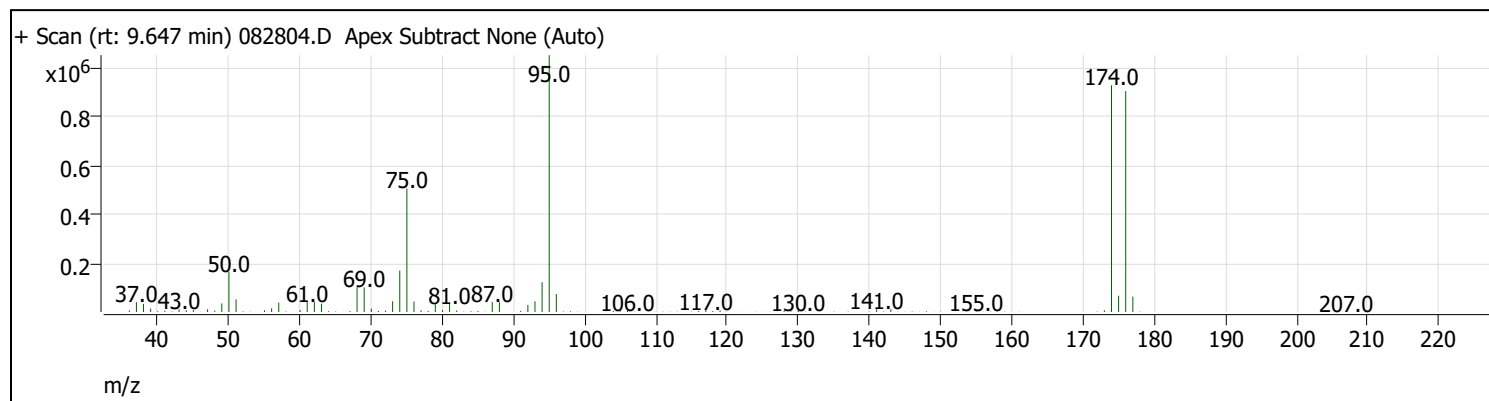
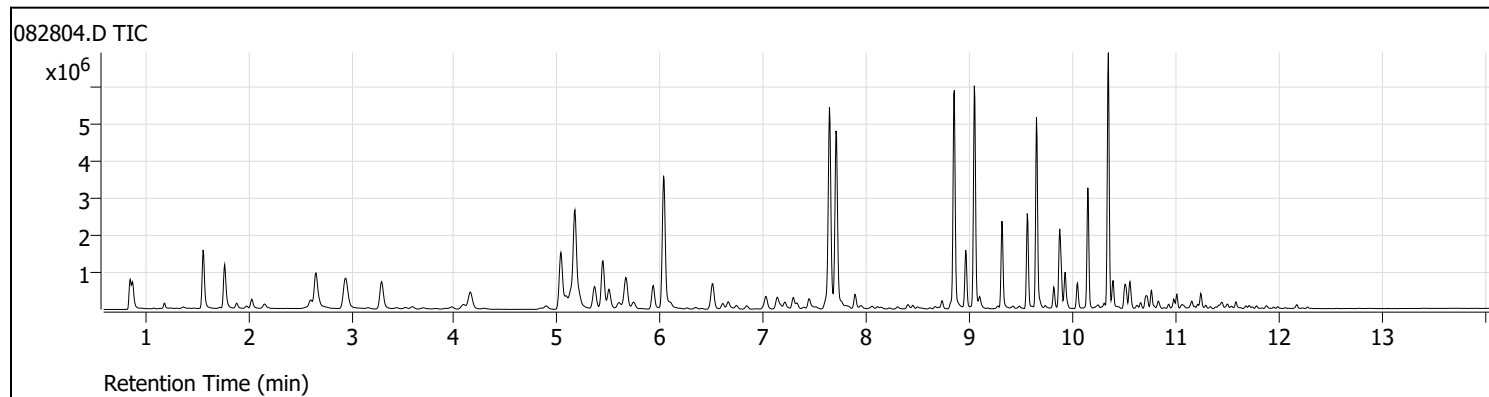
Data Path: D:\GC-27\DATA\082323\082327.D
 Acq on: 8/24/2023 3:32:17 AM
 Operator: CMC/SH/MDS
 Sample: GX ICAL 1
 Inst Name: GC-27
 ALS Vial: 12
 Method: D:\MassHunter\Methods\Quant\BFB2021.m



Target Mass	Rel. To Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Pass/Fail
95	174	50	200	119.4	989296	Pass
96	95	5	9	6.2	61778	Pass
173	174	0	2	0.8	6405	Pass
174	95	50	200	83.7	828280	Pass
175	174	5	9	7.1	59160	Pass
176	174	95	105	96.6	799795	Pass
177	176	5	10	6.4	51337	Pass

Tune Evaluation Report

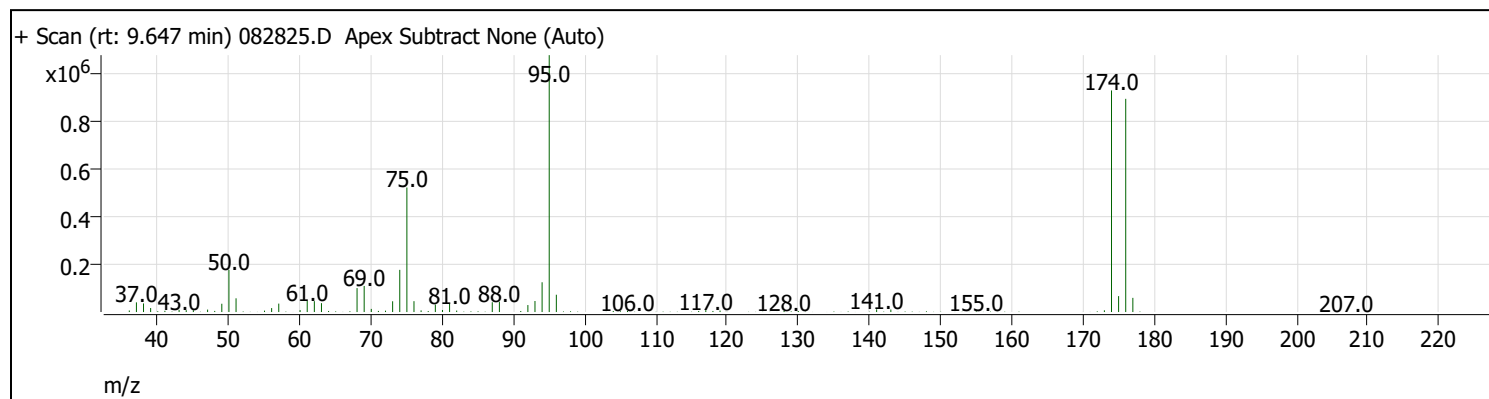
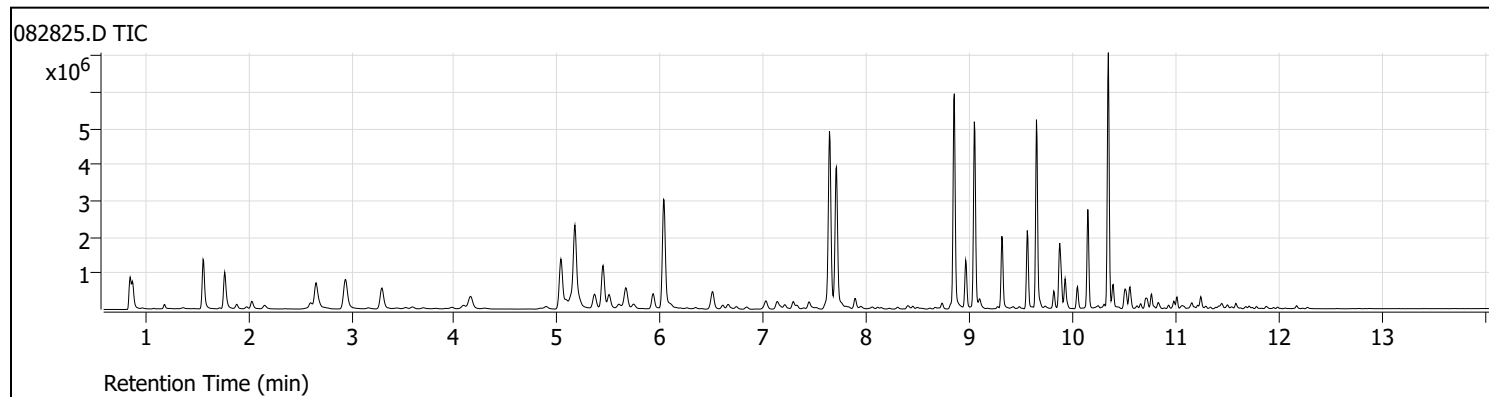
Data Path: D:\GC-27\DATA\082823\082804.D
 Acq on: 8/28/2023 10:34:58 AM
 Operator: CMC/MDS/KJ
 Sample: GX CCV A
 Inst Name: GC-27
 ALS Vial: 3
 Method: D:\MassHunter\Methods\Quant\BFB2021.m



Target Mass	Rel. To Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Pass/Fail
95	174	50	200	113.3	1053341	Pass
96	95	5	9	7.0	73773	Pass
173	174	0	2	0.7	6875	Pass
174	95	50	200	88.2	929484	Pass
175	174	5	9	7.2	66891	Pass
176	174	95	105	97.5	906267	Pass
177	176	5	10	7.0	63185	Pass

Tune Evaluation Report

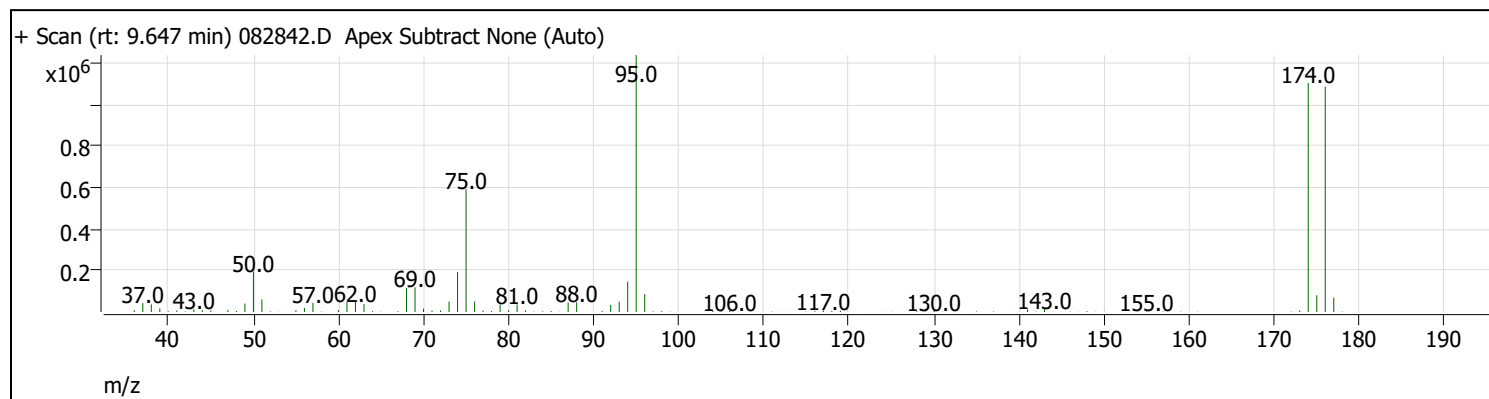
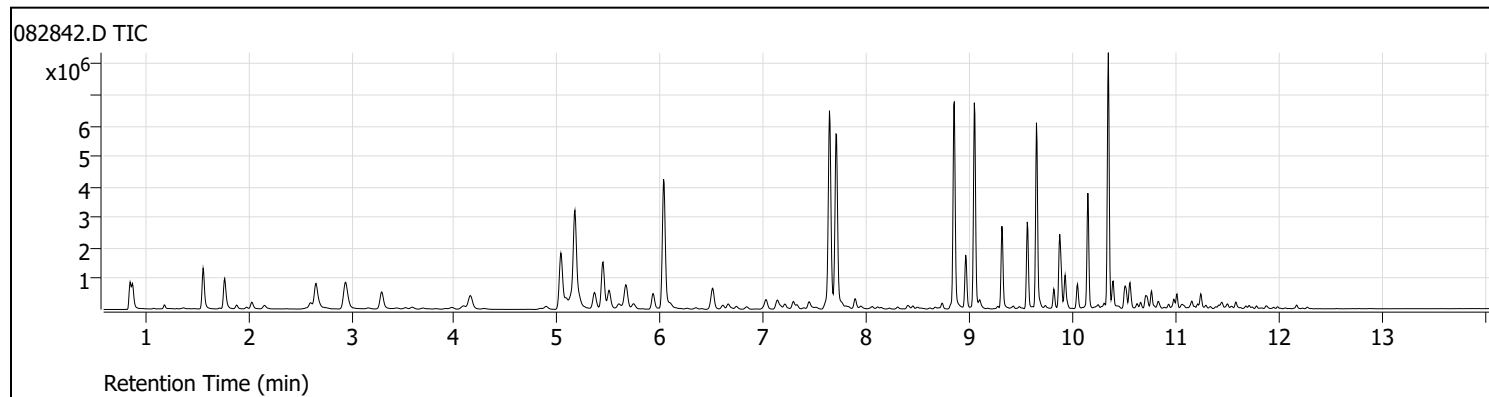
Data Path: D:\GC-27\DATA\082823\082825.D
 Acq on: 8/28/2023 9:24:18 PM
 Operator: CMC/MDS/KJ
 Sample: GX CCV B
 Inst Name: GC-27
 ALS Vial: 20
 Method: D:\MassHunter\Methods\Quant\BFB2021.m



Target Mass	Rel. To Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Pass/Fail
95	174	50	200	115.9	1072127	Pass
96	95	5	9	6.7	72117	Pass
173	174	0	2	0.8	7150	Pass
174	95	50	200	86.3	924776	Pass
175	174	5	9	7.2	66388	Pass
176	174	95	105	96.2	889815	Pass
177	176	5	10	6.6	59087	Pass

Tune Evaluation Report

Data Path: D:\GC-27\DATA\082823\082842.D
 Acq on: 8/29/2023 5:51:06 AM
 Operator: CMC/MDS/KJ
 Sample: GX CCV C
 Inst Name: GC-27
 ALS Vial: 33
 Method: D:\MassHunter\Methods\Quant\BFB2021.m



Target Mass	Rel. To Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Pass/Fail
95	174	50	200	112.2	1239932	Pass
96	95	5	9	6.9	85903	Pass
173	174	0	2	0.7	7704	Pass
174	95	50	200	89.2	1105491	Pass
175	174	5	9	7.3	80776	Pass
176	174	95	105	98.4	1087499	Pass
177	176	5	10	6.4	69500	Pass



Internal Standards

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-27 230829B CCV Name: R86113 GX MIDPOINT
 Run No: 86190 CCV SeqNo: 1798814
 Lab File ID (Standard): 082331.D Date Analyzed: 8/24/2023
 Instrument ID: GC-27 Time Analyzed: 5:32
 GC Column: ID (mm): Length (M):

	IS1 (CBZ) AREA #	RT #	IS2 (14DCBZ) AREA #	RT #				
12 HOUR STD	1639108	8.850	1602002	10.344				
UPPER LIMIT	3278216	9.350	3204004	10.844				
LOWER LIMIT	819554	8.350	801001	9.844				
SAMPLE NO.								
01	CCV-41329A	1.64079e+006	8.845	1.60369e+006	10.345			
02	CCV-41329B	1.62389e+006	8.85	1.61453e+006	10.345			
03	CCV-41329C	1.88573e+006	8.85	1.93436e+006	10.345			
04	CCV-41329D	1.74112e+006	8.85	1.72255e+006	10.344			

IS1 (CBZ) = Chlorobenzene-d5

IS2 (14DCBZ) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-27 230829B

CCV Name: CCV-41329A

Run No: 86190

CCV SeqNo: 1798808

Lab File ID (Standard): 082804.D

Date Analyzed: 8/28/2023

Instrument ID: GC-27

Time Analyzed: 10:34

GC Column:

ID (mm):

Length (M):

	IS1 (CBZ) AREA #	RT #	IS2 (14DCBZ) AREA #	RT #				
12 HOUR STD	1640790	8.845	1603692	10.345				
UPPER LIMIT	3281580	9.345	3207384	10.845				
LOWER LIMIT	820395	8.345	801846	9.845				
SAMPLE NO.								
01 LCS-41329	1.64079e+006	8.845	1.60369e+006	10.345				
02 MB-41329	1.53927e+006	8.85	1.4801e+006	10.344				
03 2308369-004A	1.48265e+006	8.85	1.3713e+006	10.345				
04 2308369-001B	1.58946e+006	8.85	1.53975e+006	10.345				
05 2308369-001BDUP	1.56517e+006	8.85	1.5044e+006	10.344				
06 2308369-002B	1.5205e+006	8.85	1.44107e+006	10.344				
07 2308369-005B	1.5711e+006	8.85	1.53376e+006	10.345				
08 2308369-006B	1.48728e+006	8.85	1.5148e+006	10.345				
09 2308369-003B	1.58409e+006	8.85	1.61595e+006	10.345				
10 2308369-003B	1.63805e+006	8.85	1.56289e+006	10.345				
11 2308369-002BMS	1.62434e+006	8.85	1.6251e+006	10.344				

IS1 (CBZ) = Chlorobenzene-d5

IS2 (14DCBZ) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-27 230829B

CCV Name: CCV-41329B

Run No: 86190

CCV SeqNo: 1798809

Lab File ID (Standard): 082825.D

Date Analyzed: 8/28/2023

Instrument ID: GC-27

Time Analyzed: 21:24

GC Column:

ID (mm):

Length (M):

	IS1 (CBZ) AREA #	RT #	IS2 (14DCBZ) AREA #	RT #				
12 HOUR STD	1623894	8.850	1614533	10.345				
UPPER LIMIT	3247788	9.350	3229066	10.845				
LOWER LIMIT	811947	8.350	807267	9.845				
SAMPLE NO.								
01 2308362-001B	1.54319e+006	8.85	1.5097e+006	10.345				
02 2308362-001BDUP	1.51159e+006	8.85	1.46101e+006	10.345				
03 2308362-002B	1.51598e+006	8.85	1.44109e+006	10.345				
04 2308362-003B	1.39388e+006	8.85	1.39663e+006	10.345				
05 2308362-004B	1.52215e+006	8.85	1.47167e+006	10.345				
06 2308362-005B	1.46857e+006	8.85	1.54617e+006	10.344				
07 2308362-006B	1.5303e+006	8.85	1.50247e+006	10.344				
08 2308362-008B	1.61845e+006	8.85	1.52856e+006	10.345				
09 2308362-007B	1.72681e+006	8.85	1.56963e+006	10.345				
10 2308362-007B	3.16729e+006	8.85	1.80446e+006	10.345				

IS1 (CBZ) = Chlorobenzene-d5

IS2 (14DCBZ) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-27 230829B

CCV Name: CCV-41329C

Run No: 86190

CCV SeqNo: 1798810

Lab File ID (Standard): 082842.D

Date Analyzed: 8/29/2023

Instrument ID: GC-27

Time Analyzed: 5:51

GC Column:

ID (mm):

Length (M):

	IS1 (CBZ) AREA #	RT #	IS2 (14DCBZ) AREA #	RT #				
12 HOUR STD	1885731	8.850	1934360	10.345				
UPPER LIMIT	3771462	9.350	3868720	10.845				
LOWER LIMIT	942866	8.350	967180	9.845				
SAMPLE NO.								
01 2308362-007B	1.80842e+006	8.845	1.76058e+006	10.345				

IS1 (CBZ) = Chlorobenzene-d5

IS2 (14DCBZ) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

DATA SET for Review - Deliverable Requirements

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Fremont Analytical Work Order No. 2308369

GeoEngineers

Project Name: S Jackson Street

Project Number: 24504-001-01

This data set contains the following:

- Analytical Sequence Summary
- Calibration Information
- Tune Information
- Internal Standards Report

Data Directory: C:\GC-14\Data\2023\082923\

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) 082940.D No data found	8270E_SIM_625.M		0.000	N/A
2) 082901.D CO	8270E_SIM_625.M	2	1.000	29 Aug 2023 07:38 am
3) 082902.D TUNE	8270E_SCAN_625.M	1	1.000	29 Aug 2023 08:06 am
4) 082903.D CCV	8270E_SIM_625.M	2	1.000	29 Aug 2023 08:34 am
5) 082904.D CO	8270E_SIM_625.M	2	1.000	29 Aug 2023 04:26 pm
6) 082905.D CO	8270E_SIM_625.M	2	1.000	29 Aug 2023 04:54 pm
7) 082906.D CO	8270E_SIM_625.M	2	1.000	29 Aug 2023 05:23 pm
8) 082907.D TUNE	8270E_SCAN_625.M	1	1.000	29 Aug 2023 05:51 pm
9) 082908.D TUNE	8270E_SCAN_625.M	1	1.000	29 Aug 2023 06:19 pm
10) 082909.D PAH ICAL 10	8270E_SIM_625.M	12	1.000	29 Aug 2023 06:48 pm
11) 082910.D PAH ICAL 20	8270E_SIM_625.M	13	1.000	29 Aug 2023 07:16 pm
12) 082911.D PAH ICAL 40	8270E_SIM_625.M	14	1.000	29 Aug 2023 07:44 pm
13) 082912.D PAH ICAL 100	8270E_SIM_625.M	15	1.000	29 Aug 2023 08:13 pm
14) 082913.D PAH ICAL 200	8270E_SIM_625.M	16	1.000	29 Aug 2023 08:41 pm
15) 082914.D PAH ICAL 400	8270E_SIM_625.M	17	1.000	29 Aug 2023 09:09 pm
16) 082915.D PAH ICAL 750	8270E_SIM_625.M	18	1.000	29 Aug 2023 09:37 pm
17) 082916.D PAH ICAL 1000	8270E_SIM_625.M	19	1.000	29 Aug 2023 10:05 pm
18) 082917.D PAH ICAL 2000	8270E_SIM_625.M	20	1.000	29 Aug 2023 10:33 pm
19) 082918.D PAH ICAL 5000	8270E_SIM_625.M	21	1.000	29 Aug 2023 11:01 pm
20) 082919.D CO	8270E_SIM_625.M	2	1.000	29 Aug 2023 11:29 pm
21) 082920.D ICV	8270E_SIM_625.M	23	1.000	29 Aug 2023 11:57 pm

22)	082921.D	8270E_SIM_625.M	22	1.000	30 Aug 2023	12:25 am

23)	082922.D	8270E_SIM_625.M	2	1.000	30 Aug 2023	12:53 am

24)	082923.D	8270E_SIM_625_LOWLEVEL.M	11	1.000	30 Aug 2023	01:21 am

25)	082924.D	8270E_SIM_625_LOWLEVEL.M	12	1.000	30 Aug 2023	01:50 am

26)	082925.D	8270E_SIM_625_LOWLEVEL.M	13	1.000	30 Aug 2023	02:18 am

27)	082926.D	8270E_SIM_625_LOWLEVEL.M	14	1.000	30 Aug 2023	02:46 am

28)	082927.D	8270E_SIM_625_LOWLEVEL.M	15	1.000	30 Aug 2023	03:14 am

29)	082928.D	8270E_SIM_625_LOWLEVEL.M	16	1.000	30 Aug 2023	03:42 am

30)	082929.D	8270E_SIM_625_LOWLEVEL.M	17	1.000	30 Aug 2023	04:10 am

31)	082930.D	8270E_SIM_625_LOWLEVEL.M	18	1.000	30 Aug 2023	04:38 am

32)	082931.D	8270E_SIM_625_LOWLEVEL.M	19	1.000	30 Aug 2023	05:06 am

33)	082932.D	8270E_SIM_625_LOWLEVEL.M	20	1.000	30 Aug 2023	05:34 am

34)	082933.D	8270E_SIM_625_LOWLEVEL.M	21	1.000	30 Aug 2023	06:02 am

35)	082934.D	8270E_SIM_625_LOWLEVEL.M	2	1.000	30 Aug 2023	06:30 am

36)	082935.D	8270E_SIM_625_LOWLEVEL.M	23	1.000	30 Aug 2023	06:58 am

37)	082936.D	8270E_SIM_625_LOWLEVEL.M	22	1.000	30 Aug 2023	07:25 am

38)	082937.D	8270E_SIM_625.M	2	1.000	30 Aug 2023	07:54 am

39)	082938.D	8270E_SCAN_625.M	1	1.000	30 Aug 2023	08:22 am

40)	082939.D	8270E_SIM_625.M	2	1.000	30 Aug 2023	08:50 am

Data Directory: C:\GC-14\Data\2023\083023\

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) 083001.D CO	8270E_SIM_625.M	2	1.000	30 Aug 2023 03:56 pm
2) 083002.D TUNE	8270E_SCAN_625.M	1	1.000	30 Aug 2023 04:24 pm
3) 083003.D CCV	8270E_SIM_625.M	2	1.000	30 Aug 2023 04:53 pm
4) 083004.D MB-41343	8270E_SIM_625.M	11	1.000	30 Aug 2023 05:21 pm
5) 083005.D LCS-41343	8270E_SIM_625.M	12	1.000	30 Aug 2023 05:49 pm
6) 083006.D 2308357-001A	8270E_SIM_625.M	14	1.000	30 Aug 2023 06:18 pm
7) 083007.D 2308369-001A	8270E_SIM_625.M	15	1.000	30 Aug 2023 06:46 pm
8) 083008.D 2308369-002A	8270E_SIM_625.M	16	1.000	30 Aug 2023 07:14 pm
9) 083009.D 2308369-002AMS	8270E_SIM_625.M	17	1.000	30 Aug 2023 07:42 pm
10) 083010.D 2308369-002AMSD	8270E_SIM_625.M	18	1.000	30 Aug 2023 08:11 pm
11) 083011.D 2308369-003A	8270E_SIM_625.M	19	1.000	30 Aug 2023 08:39 pm
12) 083012.D 2308369-005A	8270E_SIM_625.M	20	1.000	30 Aug 2023 09:07 pm
13) 083013.D 2308369-006A	8270E_SIM_625.M	21	1.000	30 Aug 2023 09:35 pm
14) 083014.D 2308374-001A	8270E_SIM_625.M	22	1.000	30 Aug 2023 10:04 pm
15) 083015.D 2308375-001A	8270E_SIM_625.M	23	1.000	30 Aug 2023 10:32 pm
16) 083016.D 2308355-001A	8270E_SIM_625.M	13	1.000	30 Aug 2023 11:00 pm
17) 083017.D QCS	8270E_SIM_625.M	2	1.000	30 Aug 2023 11:28 pm



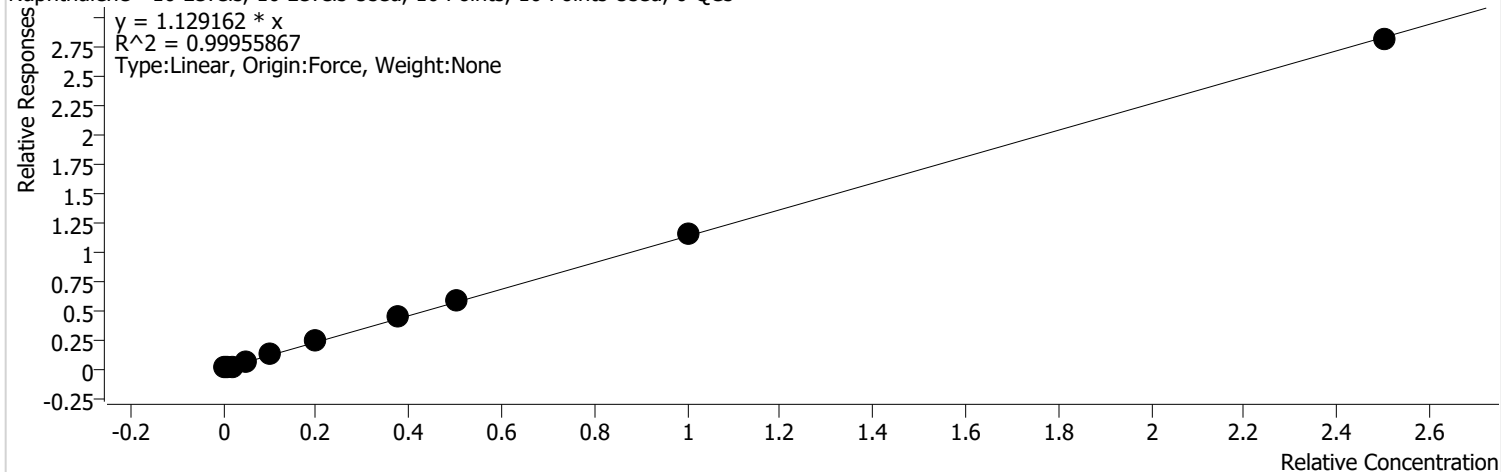
Calibration

Calibration Report

Batch Path	C:\GC-14\Data\2023\082923\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	8/30/2023 9:16 AM	Reporter Name	FA\GC14
Report Time	8/30/2023 9:19:29 AM	Batch State	Processed
Last Calib Update	8/30/2023 9:05 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Naphthalene %RSE = 8.4

Naphthalene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



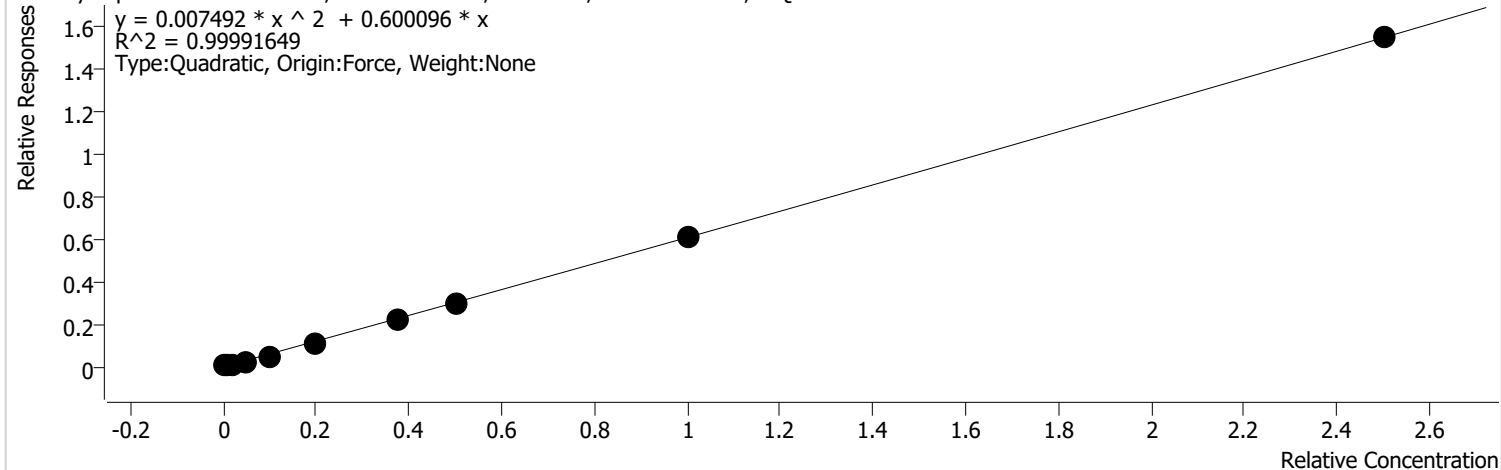
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\082923\082909.D	Calibration	1	x	4247	10.0000	1.2032	
C:\GC-14\Data\2023\082923\082910.D	Calibration	2	x	8961	20.0000	1.2899	
C:\GC-14\Data\2023\082923\082911.D	Calibration	3	x	16469	40.0000	1.1875	
C:\GC-14\Data\2023\082923\082912.D	Calibration	4	x	43742	100.0000	1.2533	
C:\GC-14\Data\2023\082923\082913.D	Calibration	5	x	89618	200.0000	1.1828	
C:\GC-14\Data\2023\082923\082914.D	Calibration	6	x	184626	400.0000	1.2199	
C:\GC-14\Data\2023\082923\082915.D	Calibration	7	x	347879	750.0000	1.2213	
C:\GC-14\Data\2023\082923\082916.D	Calibration	8	x	477820	1000.0000	1.1805	
C:\GC-14\Data\2023\082923\082917.D	Calibration	9	x	943793	2000.0000	1.1483	
C:\GC-14\Data\2023\082923\082918.D	Calibration	10	x	2396337	5000.0000	1.1213	

Calibration Report

Batch Path	C:\GC-14\Data\2023\082923\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	8/30/2023 9:16 AM	Reporter Name	FA\GC14
Report Time	8/30/2023 9:19:30 AM	Batch State	Processed
Last Calib Update	8/30/2023 9:05 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

2-Methylnaphthalene %RSE = 14.2

2-Methylnaphthalene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



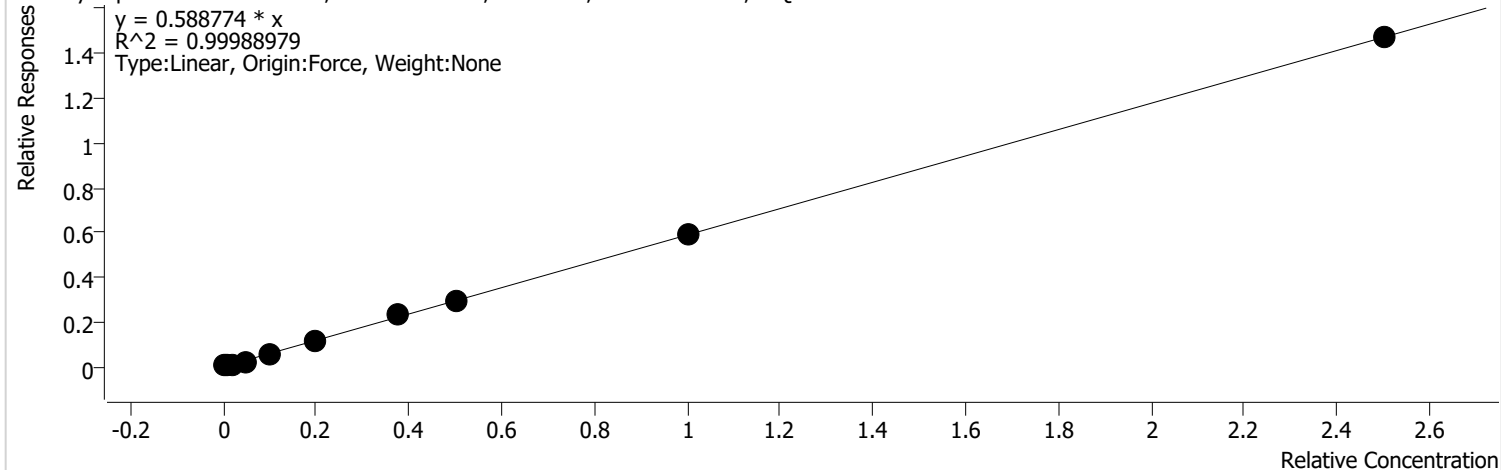
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\082923\082909.D	Calibration	1	x	1672	10.0000	0.4736	
C:\GC-14\Data\2023\082923\082910.D	Calibration	2	x	3598	20.0000	0.5178	
C:\GC-14\Data\2023\082923\082911.D	Calibration	3	x	6785	40.0000	0.4892	
C:\GC-14\Data\2023\082923\082912.D	Calibration	4	x	18029	100.0000	0.5166	
C:\GC-14\Data\2023\082923\082913.D	Calibration	5	x	38969	200.0000	0.5143	
C:\GC-14\Data\2023\082923\082914.D	Calibration	6	x	85037	400.0000	0.5619	
C:\GC-14\Data\2023\082923\082915.D	Calibration	7	x	172623	750.0000	0.6061	
C:\GC-14\Data\2023\082923\082916.D	Calibration	8	x	244852	1000.0000	0.6049	
C:\GC-14\Data\2023\082923\082917.D	Calibration	9	x	502069	2000.0000	0.6109	
C:\GC-14\Data\2023\082923\082918.D	Calibration	10	x	1322126	5000.0000	0.6186	

Calibration Report

Batch Path	C:\GC-14\Data\2023\082923\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	8/30/2023 9:16 AM	Reporter Name	FA\GC14
Report Time	8/30/2023 9:19:30 AM	Batch State	Processed
Last Calib Update	8/30/2023 9:05 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

1-Methylnaphthalene %RSE = 16.3

1-Methylnaphthalene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs

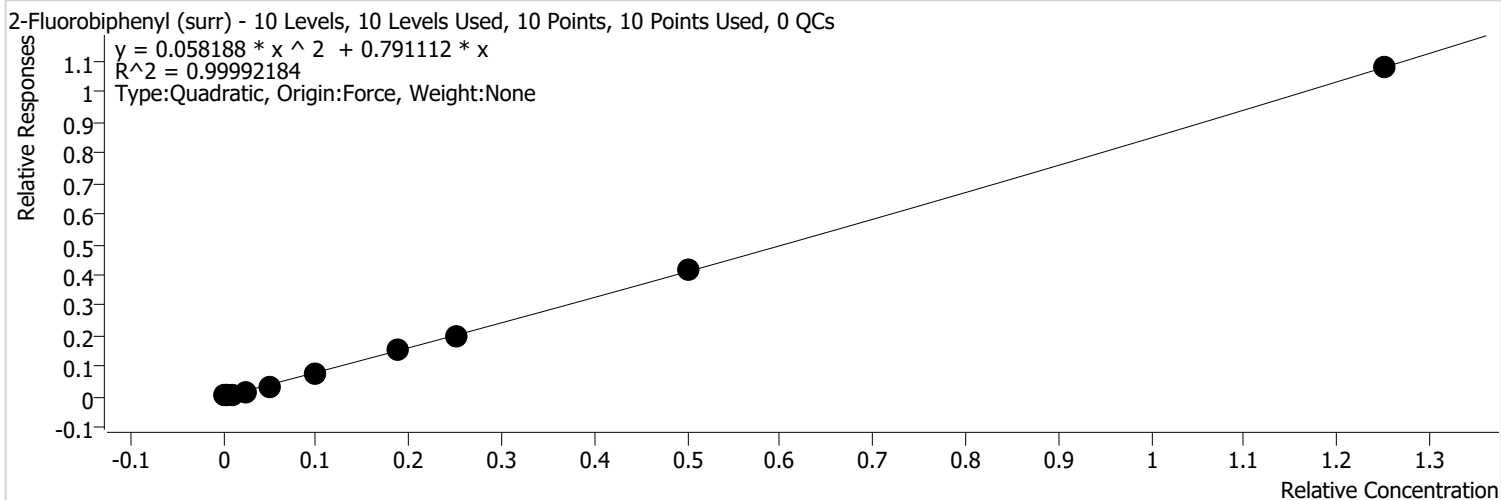


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\082923\082909.D	Calibration	1	x	1497	10.0000	0.4239	
C:\GC-14\Data\2023\082923\082910.D	Calibration	2	x	3329	20.0000	0.4791	
C:\GC-14\Data\2023\082923\082911.D	Calibration	3	x	6220	40.0000	0.4485	
C:\GC-14\Data\2023\082923\082912.D	Calibration	4	x	17481	100.0000	0.5009	
C:\GC-14\Data\2023\082923\082913.D	Calibration	5	x	38390	200.0000	0.5067	
C:\GC-14\Data\2023\082923\082914.D	Calibration	6	x	87189	400.0000	0.5761	
C:\GC-14\Data\2023\082923\082915.D	Calibration	7	x	174127	750.0000	0.6113	
C:\GC-14\Data\2023\082923\082916.D	Calibration	8	x	242610	1000.0000	0.5994	
C:\GC-14\Data\2023\082923\082917.D	Calibration	9	x	484717	2000.0000	0.5897	
C:\GC-14\Data\2023\082923\082918.D	Calibration	10	x	1256557	5000.0000	0.5879	

Calibration Report

Batch Path	C:\GC-14\Data\2023\082923\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	8/30/2023 9:16 AM	Reporter Name	FA\GC14
Report Time	8/30/2023 9:19:30 AM	Batch State	Processed
Last Calib Update	8/30/2023 9:05 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

2-Fluorobiphenyl (surr) %RSE =



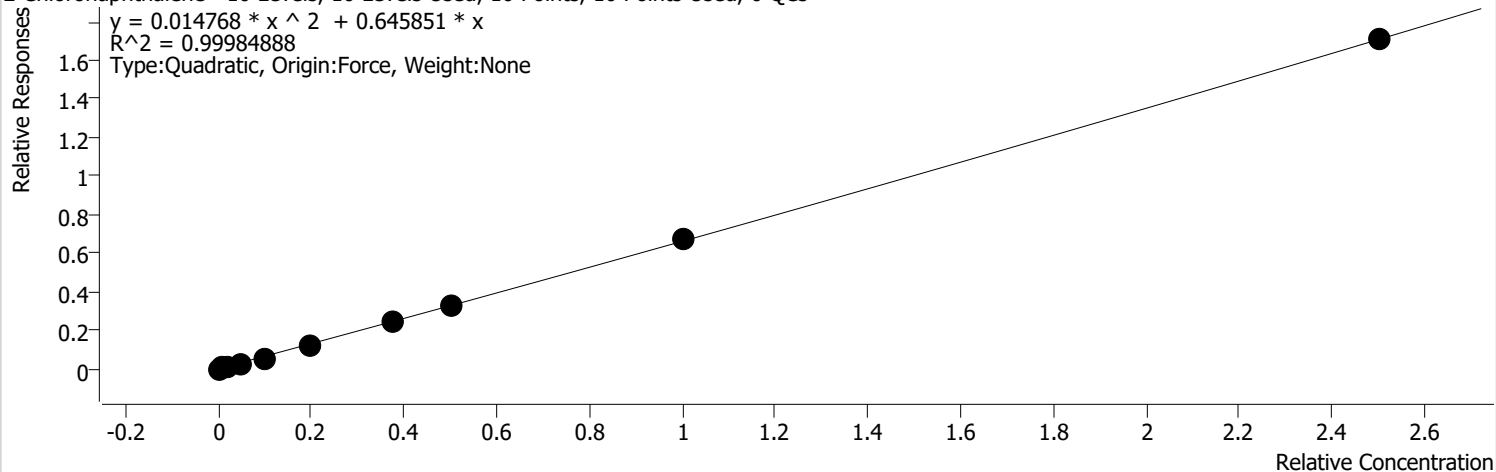
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\082923\082909.D	Calibration	1	x	1104	5.0000	0.6253	
C:\GC-14\Data\2023\082923\082910.D	Calibration	2	x	2363	10.0000	0.6802	
C:\GC-14\Data\2023\082923\082911.D	Calibration	3	x	4449	20.0000	0.6417	
C:\GC-14\Data\2023\082923\082912.D	Calibration	4	x	11979	50.0000	0.6865	
C:\GC-14\Data\2023\082923\082913.D	Calibration	5	x	25665	100.0000	0.6775	
C:\GC-14\Data\2023\082923\082914.D	Calibration	6	x	56684	200.0000	0.7491	
C:\GC-14\Data\2023\082923\082915.D	Calibration	7	x	114214	375.0000	0.8020	
C:\GC-14\Data\2023\082923\082916.D	Calibration	8	x	162228	500.0000	0.8016	
C:\GC-14\Data\2023\082923\082917.D	Calibration	9	x	339831	1000.0000	0.8269	
C:\GC-14\Data\2023\082923\082918.D	Calibration	10	x	922717	2500.0000	0.8635	

Calibration Report

Batch Path	C:\GC-14\Data\2023\082923\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	8/30/2023 9:16 AM	Reporter Name	FA\GC14
Report Time	8/30/2023 9:19:30 AM	Batch State	Processed
Last Calib Update	8/30/2023 9:05 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

2-Chloronaphthalene %RSE = 18.4

2-Chloronaphthalene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs

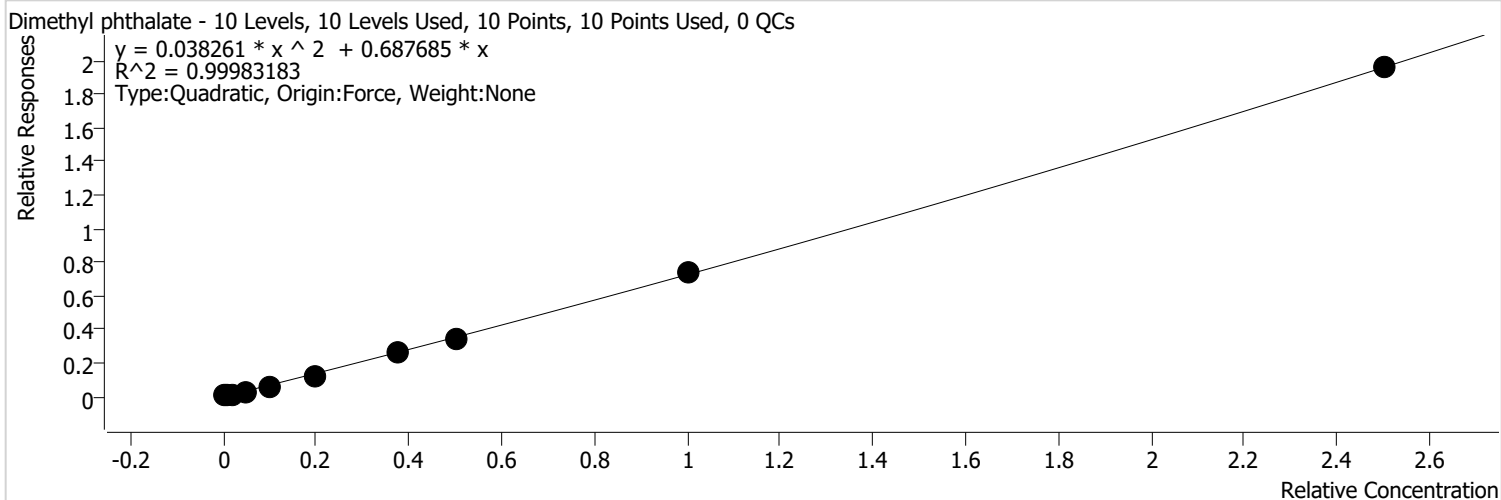


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\082923\082909.D	Calibration	1	x	1618	10.0000	0.4584	
C:\GC-14\Data\2023\082923\082910.D	Calibration	2	x	3676	20.0000	0.5291	
C:\GC-14\Data\2023\082923\082911.D	Calibration	3	x	6875	40.0000	0.4957	
C:\GC-14\Data\2023\082923\082912.D	Calibration	4	x	18915	100.0000	0.5420	
C:\GC-14\Data\2023\082923\082913.D	Calibration	5	x	40117	200.0000	0.5295	
C:\GC-14\Data\2023\082923\082914.D	Calibration	6	x	89754	400.0000	0.5930	
C:\GC-14\Data\2023\082923\082915.D	Calibration	7	x	183302	750.0000	0.6435	
C:\GC-14\Data\2023\082923\082916.D	Calibration	8	x	263248	1000.0000	0.6504	
C:\GC-14\Data\2023\082923\082917.D	Calibration	9	x	549854	2000.0000	0.6690	
C:\GC-14\Data\2023\082923\082918.D	Calibration	10	x	1458256	5000.0000	0.6823	

Calibration Report

Batch Path	C:\GC-14\Data\2023\082923\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	8/30/2023 9:16 AM	Reporter Name	FA\GC14
Report Time	8/30/2023 9:19:30 AM	Batch State	Processed
Last Calib Update	8/30/2023 9:05 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Dimethyl phthalate %RSE = 16.4



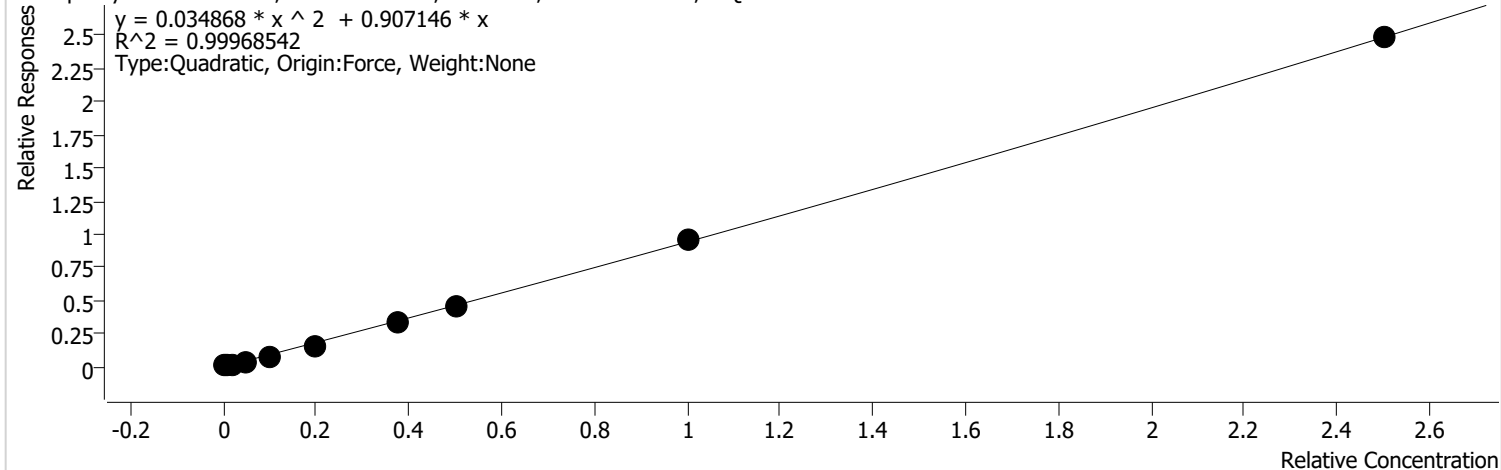
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\082923\082909.D	Calibration	1	x	1879	10.0000	0.5323	
C:\GC-14\Data\2023\082923\082910.D	Calibration	2	x	4060	20.0000	0.5844	
C:\GC-14\Data\2023\082923\082911.D	Calibration	3	x	7446	40.0000	0.5369	
C:\GC-14\Data\2023\082923\082912.D	Calibration	4	x	20229	100.0000	0.5796	
C:\GC-14\Data\2023\082923\082913.D	Calibration	5	x	43195	200.0000	0.5701	
C:\GC-14\Data\2023\082923\082914.D	Calibration	6	x	95508	400.0000	0.6311	
C:\GC-14\Data\2023\082923\082915.D	Calibration	7	x	195956	750.0000	0.6880	
C:\GC-14\Data\2023\082923\082916.D	Calibration	8	x	282264	1000.0000	0.6973	
C:\GC-14\Data\2023\082923\082917.D	Calibration	9	x	606866	2000.0000	0.7384	
C:\GC-14\Data\2023\082923\082918.D	Calibration	10	x	1672805	5000.0000	0.7827	

Calibration Report

Batch Path	C:\GC-14\Data\2023\082923\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	8/30/2023 9:16 AM	Reporter Name	FA\GC14
Report Time	8/30/2023 9:19:31 AM	Batch State	Processed
Last Calib Update	8/30/2023 9:05 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Acenaphthylene %RSE = 18.7

Acenaphthylene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs

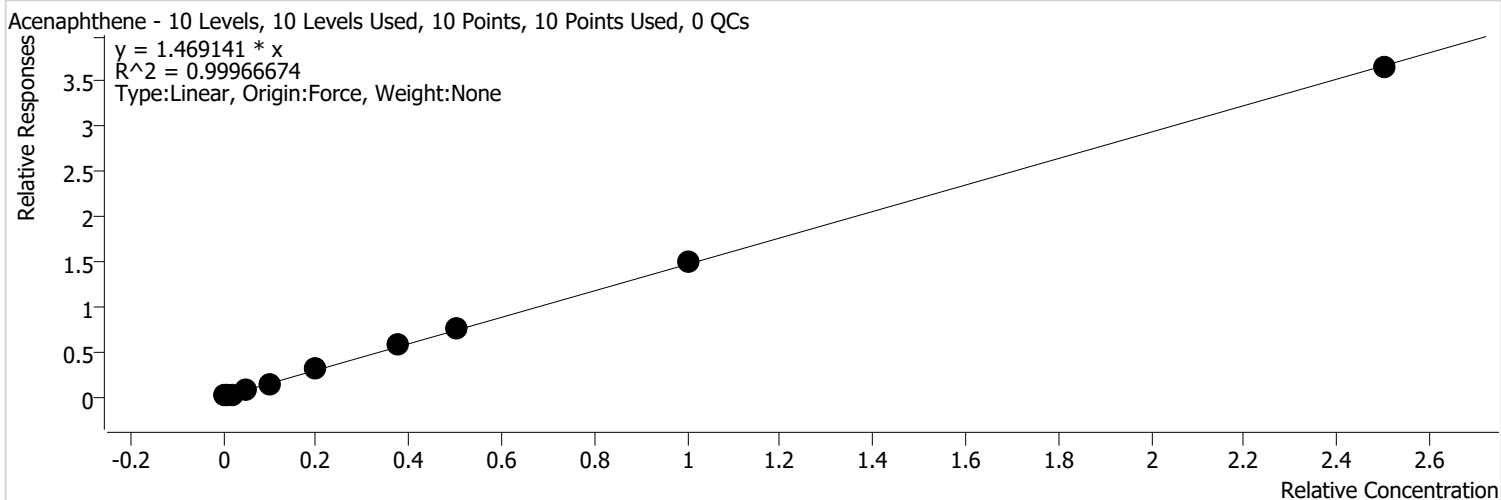


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\082923\082909.D	Calibration	1	x	2439	10.0000	0.6909	
C:\GC-14\Data\2023\082923\082910.D	Calibration	2	x	5046	20.0000	0.7263	
C:\GC-14\Data\2023\082923\082911.D	Calibration	3	x	9536	40.0000	0.6876	
C:\GC-14\Data\2023\082923\082912.D	Calibration	4	x	25998	100.0000	0.7449	
C:\GC-14\Data\2023\082923\082913.D	Calibration	5	x	55275	200.0000	0.7295	
C:\GC-14\Data\2023\082923\082914.D	Calibration	6	x	121923	400.0000	0.8056	
C:\GC-14\Data\2023\082923\082915.D	Calibration	7	x	251790	750.0000	0.8840	
C:\GC-14\Data\2023\082923\082916.D	Calibration	8	x	367379	1000.0000	0.9076	
C:\GC-14\Data\2023\082923\082917.D	Calibration	9	x	793378	2000.0000	0.9653	
C:\GC-14\Data\2023\082923\082918.D	Calibration	10	x	2122564	5000.0000	0.9932	

Calibration Report

Batch Path	C:\GC-14\Data\2023\082923\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	8/30/2023 9:16 AM	Reporter Name	FA\GC14
Report Time	8/30/2023 9:19:31 AM	Batch State	Processed
Last Calib Update	8/30/2023 9:05 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Acenaphthene %RSE = 6.6



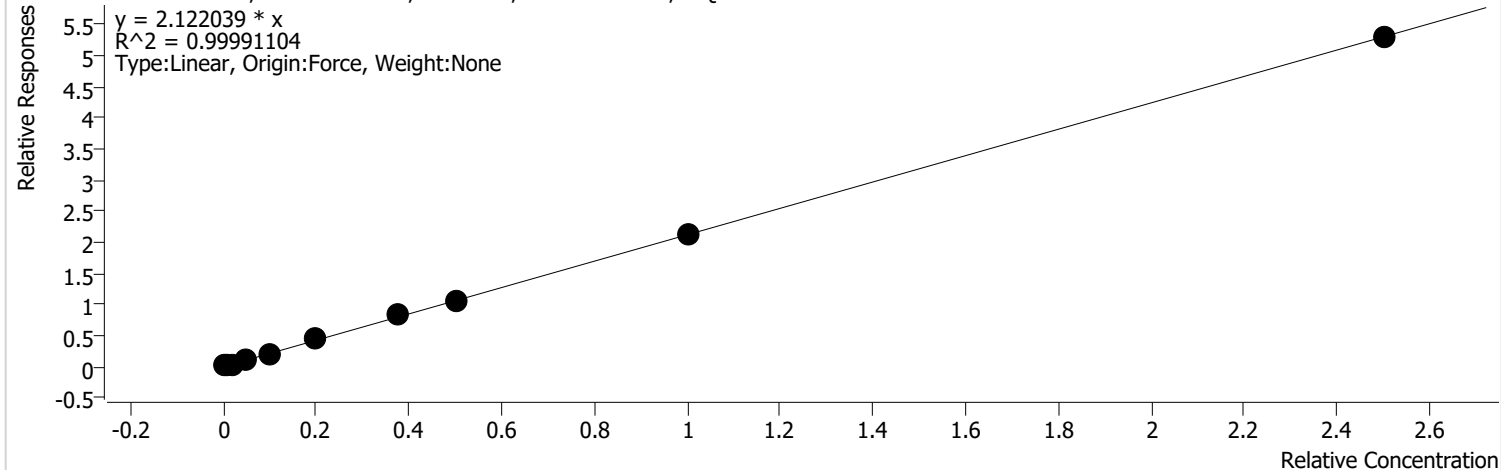
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\082923\082909.D	Calibration	1	x	1984	10.0000	1.5511	
C:\GC-14\Data\2023\082923\082910.D	Calibration	2	x	4061	20.0000	1.6281	
C:\GC-14\Data\2023\082923\082911.D	Calibration	3	x	7407	40.0000	1.4782	
C:\GC-14\Data\2023\082923\082912.D	Calibration	4	x	20071	100.0000	1.5830	
C:\GC-14\Data\2023\082923\082913.D	Calibration	5	x	42051	200.0000	1.4948	
C:\GC-14\Data\2023\082923\082914.D	Calibration	6	x	93174	400.0000	1.5824	
C:\GC-14\Data\2023\082923\082915.D	Calibration	7	x	186534	750.0000	1.5853	
C:\GC-14\Data\2023\082923\082916.D	Calibration	8	x	261790	1000.0000	1.5180	
C:\GC-14\Data\2023\082923\082917.D	Calibration	9	x	538534	2000.0000	1.4883	
C:\GC-14\Data\2023\082923\082918.D	Calibration	10	x	1407178	5000.0000	1.4607	

Calibration Report

Batch Path	C:\GC-14\Data\2023\082923\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	8/30/2023 9:16 AM	Reporter Name	FA\GC14
Report Time	8/30/2023 9:19:31 AM	Batch State	Processed
Last Calib Update	8/30/2023 9:05 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Dibenzofuran %RSE = 4.2

Dibenzofuran - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



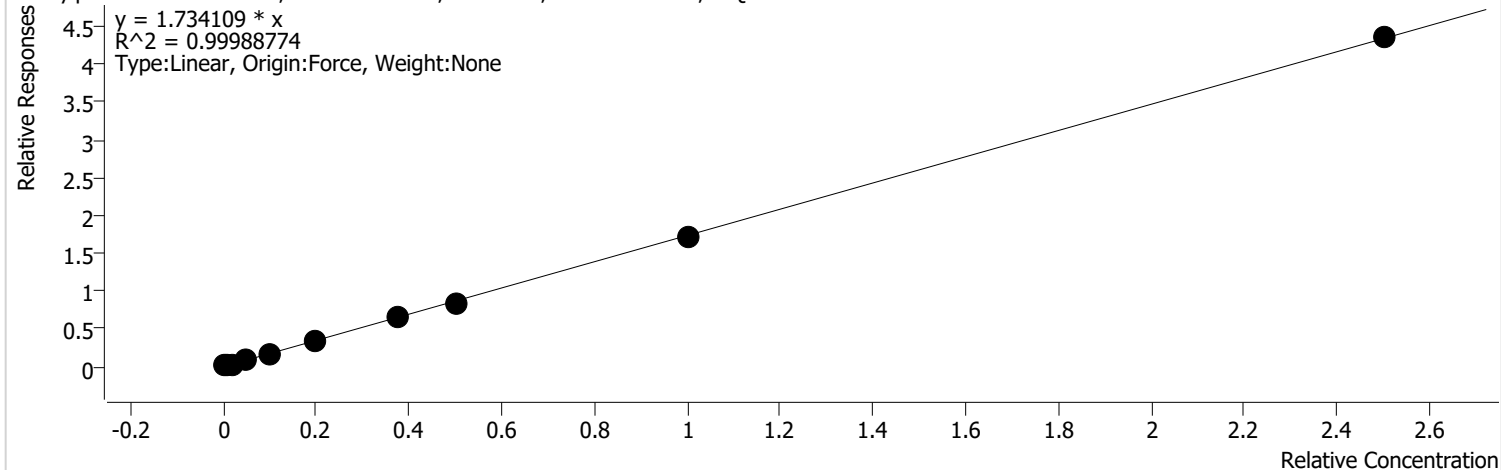
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\082923\082909.D	Calibration	1	x	2496	10.0000	1.9518	
C:\GC-14\Data\2023\082923\082910.D	Calibration	2	x	5287	20.0000	2.1196	
C:\GC-14\Data\2023\082923\082911.D	Calibration	3	x	9977	40.0000	1.9911	
C:\GC-14\Data\2023\082923\082912.D	Calibration	4	x	27358	100.0000	2.1578	
C:\GC-14\Data\2023\082923\082913.D	Calibration	5	x	58472	200.0000	2.0785	
C:\GC-14\Data\2023\082923\082914.D	Calibration	6	x	128980	400.0000	2.1905	
C:\GC-14\Data\2023\082923\082915.D	Calibration	7	x	261150	750.0000	2.2194	
C:\GC-14\Data\2023\082923\082916.D	Calibration	8	x	370081	1000.0000	2.1459	
C:\GC-14\Data\2023\082923\082917.D	Calibration	9	x	773527	2000.0000	2.1377	
C:\GC-14\Data\2023\082923\082918.D	Calibration	10	x	2038484	5000.0000	2.1160	

Calibration Report

Batch Path	C:\GC-14\Data\2023\082923\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	8/30/2023 9:16 AM	Reporter Name	FA\GC14
Report Time	8/30/2023 9:19:31 AM	Batch State	Processed
Last Calib Update	8/30/2023 9:05 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Diethylphthalate %RSE = 12.5

Diethylphthalate - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



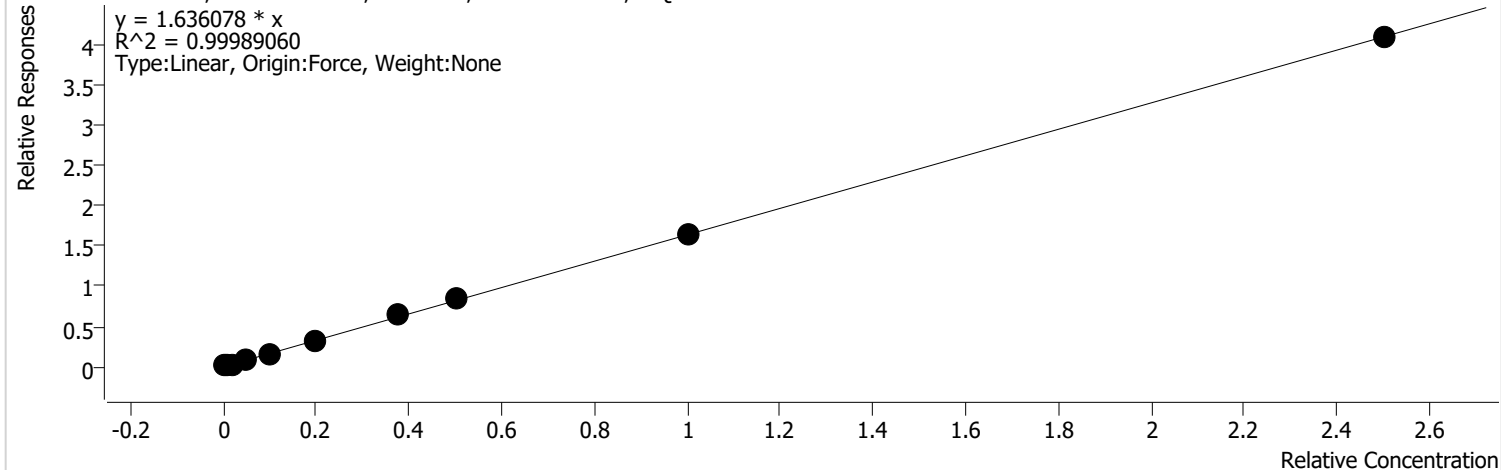
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\082923\082909.D	Calibration	1	x	1800	10.0000	1.4073	
C:\GC-14\Data\2023\082923\082910.D	Calibration	2	x	3778	20.0000	1.5148	
C:\GC-14\Data\2023\082923\082911.D	Calibration	3	x	7058	40.0000	1.4087	
C:\GC-14\Data\2023\082923\082912.D	Calibration	4	x	19440	100.0000	1.5332	
C:\GC-14\Data\2023\082923\082913.D	Calibration	5	x	41938	200.0000	1.4907	
C:\GC-14\Data\2023\082923\082914.D	Calibration	6	x	95151	400.0000	1.6160	
C:\GC-14\Data\2023\082923\082915.D	Calibration	7	x	202019	750.0000	1.7169	
C:\GC-14\Data\2023\082923\082916.D	Calibration	8	x	292818	1000.0000	1.6979	
C:\GC-14\Data\2023\082923\082917.D	Calibration	9	x	624677	2000.0000	1.7263	
C:\GC-14\Data\2023\082923\082918.D	Calibration	10	x	1674744	5000.0000	1.7384	

Calibration Report

Batch Path	C:\GC-14\Data\2023\082923\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	8/30/2023 9:16 AM	Reporter Name	FA\GC14
Report Time	8/30/2023 9:19:31 AM	Batch State	Processed
Last Calib Update	8/30/2023 9:05 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Fluorene %RSE = 5.9

Fluorene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



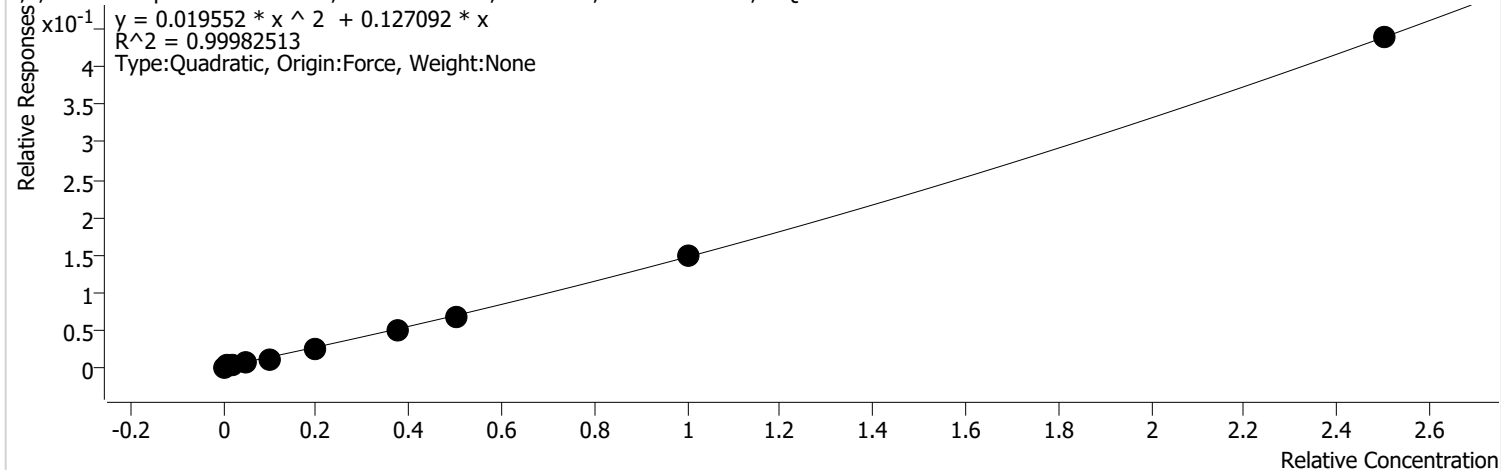
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\082923\082909.D	Calibration	1	x	1870	10.0000	1.4621	
C:\GC-14\Data\2023\082923\082910.D	Calibration	2	x	3952	20.0000	1.5845	
C:\GC-14\Data\2023\082923\082911.D	Calibration	3	x	7458	40.0000	1.4884	
C:\GC-14\Data\2023\082923\082912.D	Calibration	4	x	20265	100.0000	1.5983	
C:\GC-14\Data\2023\082923\082913.D	Calibration	5	x	43127	200.0000	1.5330	
C:\GC-14\Data\2023\082923\082914.D	Calibration	6	x	96686	400.0000	1.6420	
C:\GC-14\Data\2023\082923\082915.D	Calibration	7	x	201873	750.0000	1.7156	
C:\GC-14\Data\2023\082923\082916.D	Calibration	8	x	289084	1000.0000	1.6762	
C:\GC-14\Data\2023\082923\082917.D	Calibration	9	x	594587	2000.0000	1.6432	
C:\GC-14\Data\2023\082923\082918.D	Calibration	10	x	1571913	5000.0000	1.6317	

Calibration Report

Batch Path	C:\GC-14\Data\2023\082923\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	8/30/2023 9:16 AM	Reporter Name	FA\GC14
Report Time	8/30/2023 9:19:31 AM	Batch State	Processed
Last Calib Update	8/30/2023 9:05 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

2,4,6-Tribromophenol %RSE =

2,4,6-Tribromophenol - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



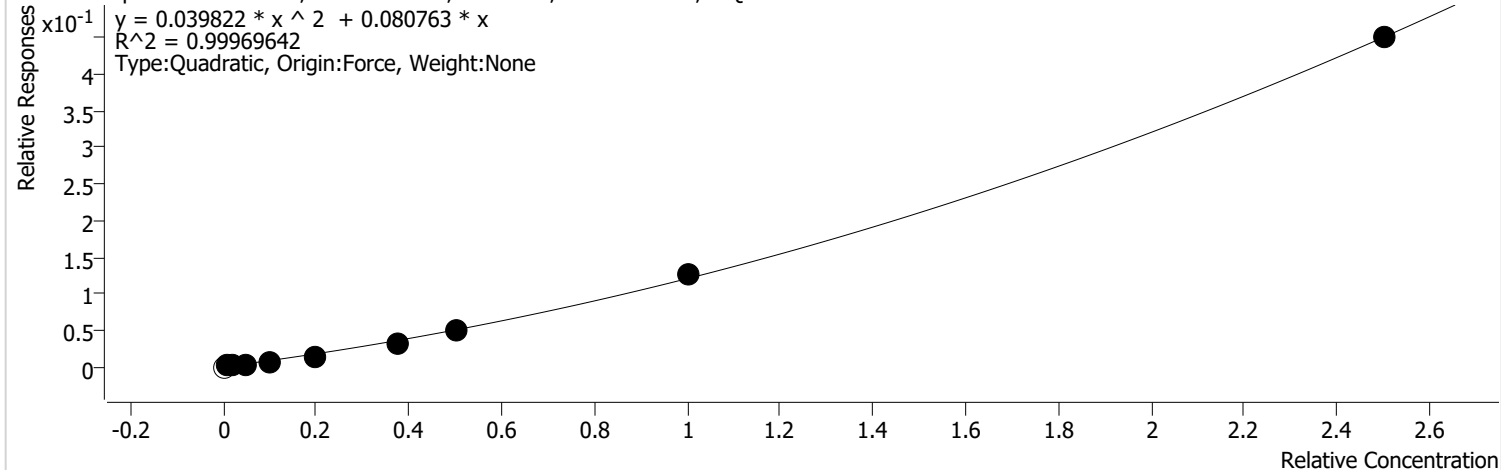
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\082923\082909.D	Calibration	1	x	111	10.0000	0.0871	
C:\GC-14\Data\2023\082923\082910.D	Calibration	2	x	233	20.0000	0.0936	
C:\GC-14\Data\2023\082923\082911.D	Calibration	3	x	453	40.0000	0.0903	
C:\GC-14\Data\2023\082923\082912.D	Calibration	4	x	1314	100.0000	0.1036	
C:\GC-14\Data\2023\082923\082913.D	Calibration	5	x	2942	200.0000	0.1046	
C:\GC-14\Data\2023\082923\082914.D	Calibration	6	x	6915	400.0000	0.1174	
C:\GC-14\Data\2023\082923\082915.D	Calibration	7	x	15451	750.0000	0.1313	
C:\GC-14\Data\2023\082923\082916.D	Calibration	8	x	23034	1000.0000	0.1336	
C:\GC-14\Data\2023\082923\082917.D	Calibration	9	x	54177	2000.0000	0.1497	
C:\GC-14\Data\2023\082923\082918.D	Calibration	10	x	169380	5000.0000	0.1758	

Calibration Report

Batch Path	C:\GC-14\Data\2023\082923\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	8/30/2023 9:16 AM	Reporter Name	FA\GC14
Report Time	8/30/2023 9:19:31 AM	Batch State	Processed
Last Calib Update	8/30/2023 9:05 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Pentachlorophenol %RSE = 25.5

Pentachlorophenol - 10 Levels, 9 Levels Used, 10 Points, 9 Points Used, 0 QCs

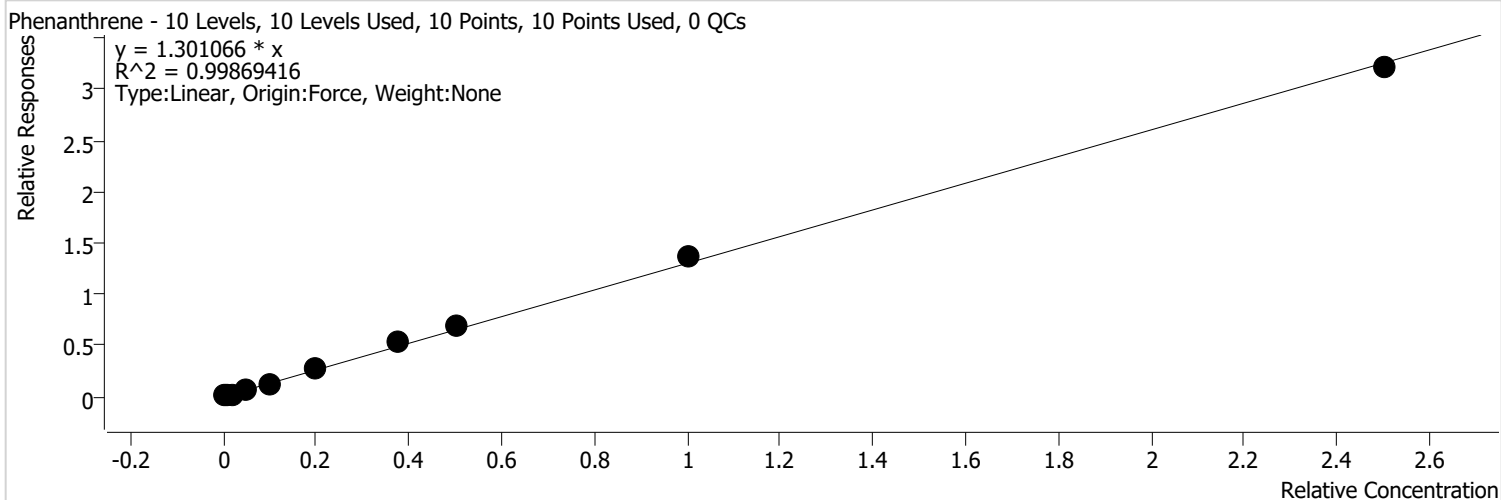


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\082923\082909.D	Calibration	1		88	10.0000	0.0689	
C:\GC-14\Data\2023\082923\082910.D	Calibration	2	x	159	20.0000	0.0637	
C:\GC-14\Data\2023\082923\082911.D	Calibration	3	x	269	40.0000	0.0536	
C:\GC-14\Data\2023\082923\082912.D	Calibration	4	x	658	100.0000	0.0519	
C:\GC-14\Data\2023\082923\082913.D	Calibration	5	x	1795	200.0000	0.0638	
C:\GC-14\Data\2023\082923\082914.D	Calibration	6	x	4301	400.0000	0.0730	
C:\GC-14\Data\2023\082923\082915.D	Calibration	7	x	10184	750.0000	0.0865	
C:\GC-14\Data\2023\082923\082916.D	Calibration	8	x	16758	1000.0000	0.0972	
C:\GC-14\Data\2023\082923\082917.D	Calibration	9	x	45238	2000.0000	0.1250	
C:\GC-14\Data\2023\082923\082918.D	Calibration	10	x	173505	5000.0000	0.1801	

Calibration Report

Batch Path	C:\GC-14\Data\2023\082923\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	8/30/2023 9:16 AM	Reporter Name	FA\GC14
Report Time	8/30/2023 9:19:31 AM	Batch State	Processed
Last Calib Update	8/30/2023 9:05 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Phenanthrene %RSE = 6.8



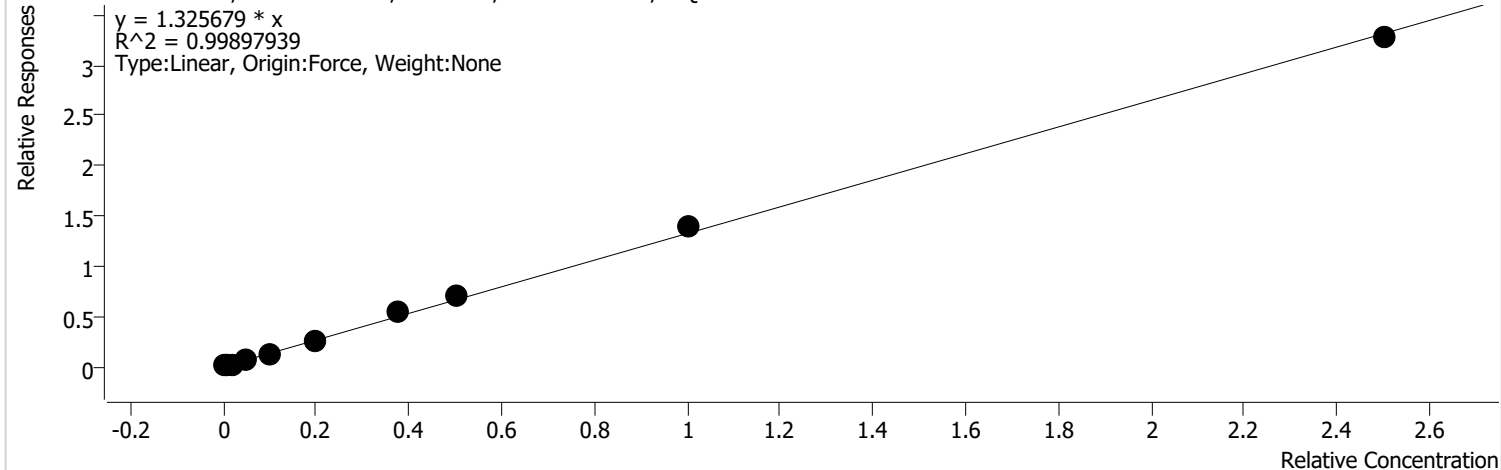
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\082923\082909.D	Calibration	1	x	3163	10.0000	1.2478	
C:\GC-14\Data\2023\082923\082910.D	Calibration	2	x	6899	20.0000	1.4002	
C:\GC-14\Data\2023\082923\082911.D	Calibration	3	x	12799	40.0000	1.2866	
C:\GC-14\Data\2023\082923\082912.D	Calibration	4	x	34609	100.0000	1.3750	
C:\GC-14\Data\2023\082923\082913.D	Calibration	5	x	73471	200.0000	1.3293	
C:\GC-14\Data\2023\082923\082914.D	Calibration	6	x	155256	400.0000	1.4073	
C:\GC-14\Data\2023\082923\082915.D	Calibration	7	x	307535	750.0000	1.4352	
C:\GC-14\Data\2023\082923\082916.D	Calibration	8	x	431042	1000.0000	1.3984	
C:\GC-14\Data\2023\082923\082917.D	Calibration	9	x	872292	2000.0000	1.3669	
C:\GC-14\Data\2023\082923\082918.D	Calibration	10	x	2281611	5000.0000	1.2829	

Calibration Report

Batch Path	C:\GC-14\Data\2023\082923\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	8/30/2023 9:16 AM	Reporter Name	FA\GC14
Report Time	8/30/2023 9:19:31 AM	Batch State	Processed
Last Calib Update	8/30/2023 9:05 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Anthracene %RSE = 9.7

Anthracene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



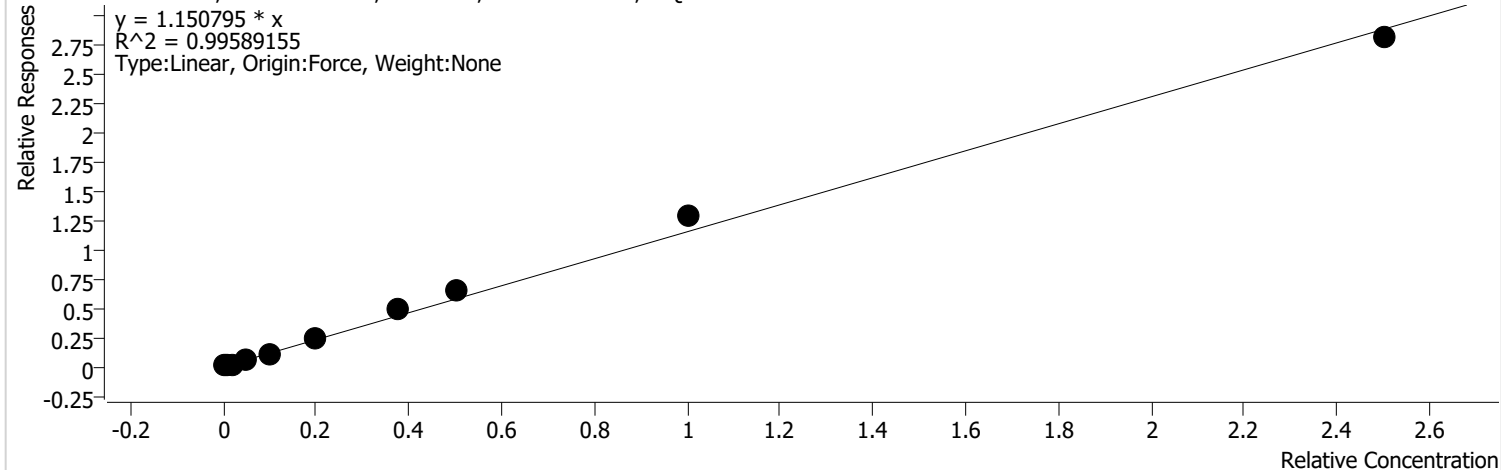
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\082923\082909.D	Calibration	1	x	2850	10.0000	1.1243	
C:\GC-14\Data\2023\082923\082910.D	Calibration	2	x	6081	20.0000	1.2341	
C:\GC-14\Data\2023\082923\082911.D	Calibration	3	x	11242	40.0000	1.1301	
C:\GC-14\Data\2023\082923\082912.D	Calibration	4	x	30787	100.0000	1.2232	
C:\GC-14\Data\2023\082923\082913.D	Calibration	5	x	67352	200.0000	1.2186	
C:\GC-14\Data\2023\082923\082914.D	Calibration	6	x	148111	400.0000	1.3425	
C:\GC-14\Data\2023\082923\082915.D	Calibration	7	x	308441	750.0000	1.4394	
C:\GC-14\Data\2023\082923\082916.D	Calibration	8	x	432750	1000.0000	1.4040	
C:\GC-14\Data\2023\082923\082917.D	Calibration	9	x	888613	2000.0000	1.3924	
C:\GC-14\Data\2023\082923\082918.D	Calibration	10	x	2328838	5000.0000	1.3094	

Calibration Report

Batch Path	C:\GC-14\Data\2023\082923\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	8/30/2023 9:16 AM	Reporter Name	FA\GC14
Report Time	8/30/2023 9:19:31 AM	Batch State	Processed
Last Calib Update	8/30/2023 9:05 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Carbazole %RSE = 12.5

Carbazole - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs

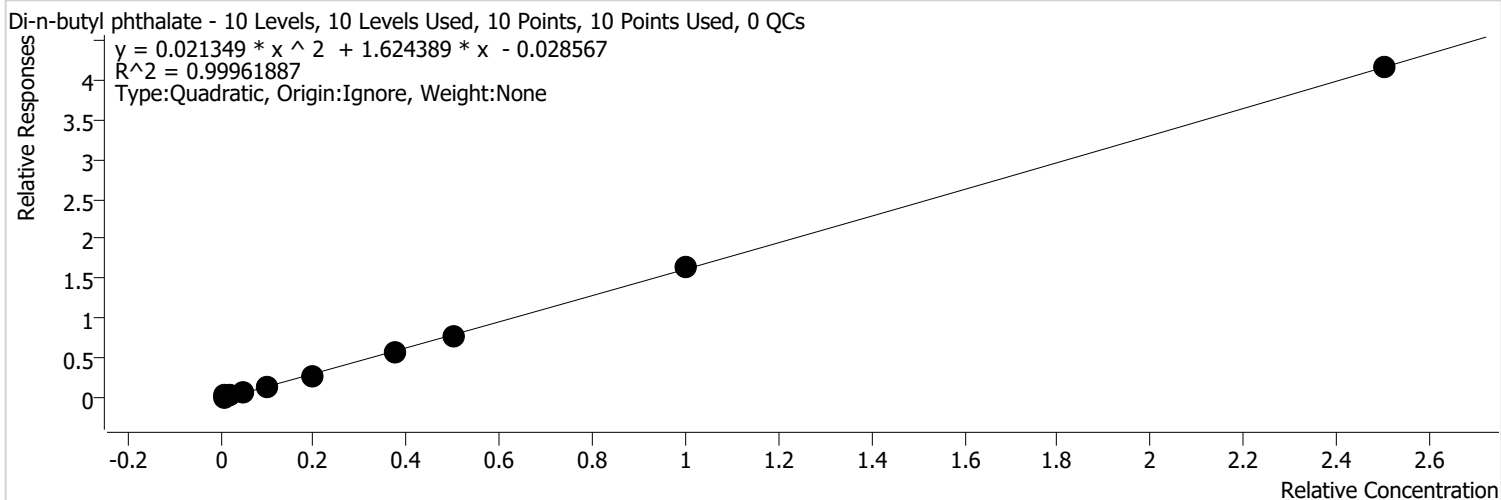


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\082923\082909.D	Calibration	1	x	2434	10.0000	0.9602	
C:\GC-14\Data\2023\082923\082910.D	Calibration	2	x	5077	20.0000	1.0303	
C:\GC-14\Data\2023\082923\082911.D	Calibration	3	x	9533	40.0000	0.9583	
C:\GC-14\Data\2023\082923\082912.D	Calibration	4	x	26362	100.0000	1.0473	
C:\GC-14\Data\2023\082923\082913.D	Calibration	5	x	58323	200.0000	1.0553	
C:\GC-14\Data\2023\082923\082914.D	Calibration	6	x	131802	400.0000	1.1947	
C:\GC-14\Data\2023\082923\082915.D	Calibration	7	x	277214	750.0000	1.2937	
C:\GC-14\Data\2023\082923\082916.D	Calibration	8	x	396260	1000.0000	1.2856	
C:\GC-14\Data\2023\082923\082917.D	Calibration	9	x	815235	2000.0000	1.2775	
C:\GC-14\Data\2023\082923\082918.D	Calibration	10	x	1995232	5000.0000	1.1219	

Calibration Report

Batch Path	C:\GC-14\Data\2023\082923\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	8/30/2023 9:16 AM	Reporter Name	FA\GC14
Report Time	8/30/2023 9:19:31 AM	Batch State	Processed
Last Calib Update	8/30/2023 9:05 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Di-n-butyl phthalate %RSE = 132.1



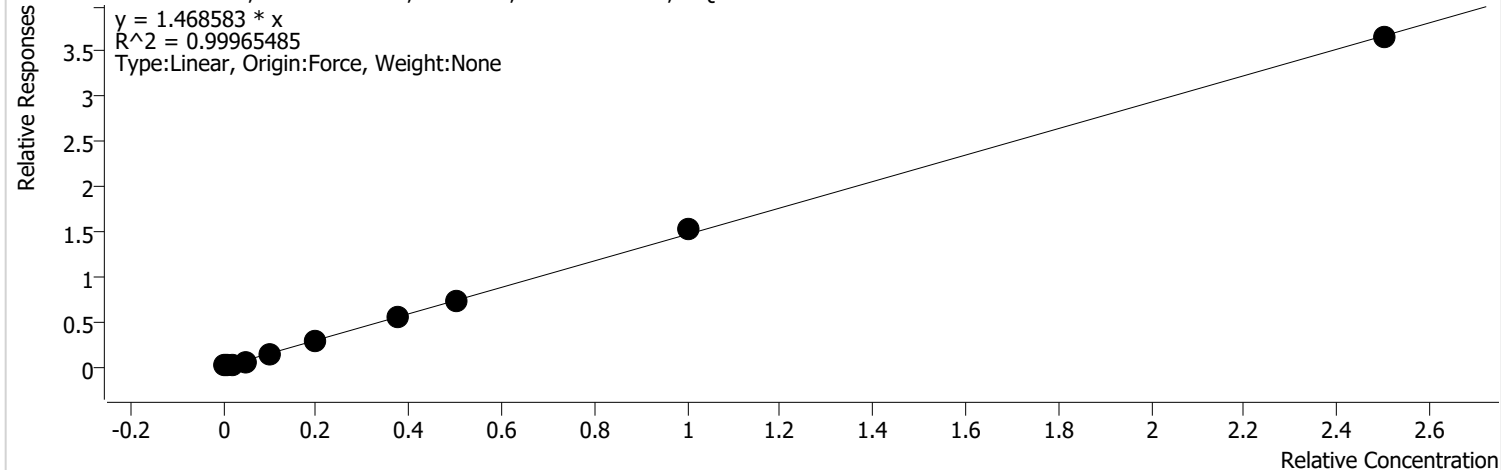
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\082923\082909.D	Calibration	1	x	2582	10.0000	1.0186	
C:\GC-14\Data\2023\082923\082910.D	Calibration	2	x	5403	20.0000	1.0965	
C:\GC-14\Data\2023\082923\082911.D	Calibration	3	x	10051	40.0000	1.0103	
C:\GC-14\Data\2023\082923\082912.D	Calibration	4	x	27816	100.0000	1.1051	
C:\GC-14\Data\2023\082923\082913.D	Calibration	5	x	61847	200.0000	1.1190	
C:\GC-14\Data\2023\082923\082914.D	Calibration	6	x	143370	400.0000	1.2995	
C:\GC-14\Data\2023\082923\082915.D	Calibration	7	x	321092	750.0000	1.4985	
C:\GC-14\Data\2023\082923\082916.D	Calibration	8	x	473396	1000.0000	1.5358	
C:\GC-14\Data\2023\082923\082917.D	Calibration	9	x	1057025	2000.0000	1.6563	
C:\GC-14\Data\2023\082923\082918.D	Calibration	10	x	2960289	5000.0000	1.6645	

Calibration Report

Batch Path	C:\GC-14\Data\2023\082923\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	8/30/2023 9:16 AM	Reporter Name	FA\GC14
Report Time	8/30/2023 9:19:31 AM	Batch State	Processed
Last Calib Update	8/30/2023 9:05 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Fluoranthene %RSE = 13.5

Fluoranthene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs

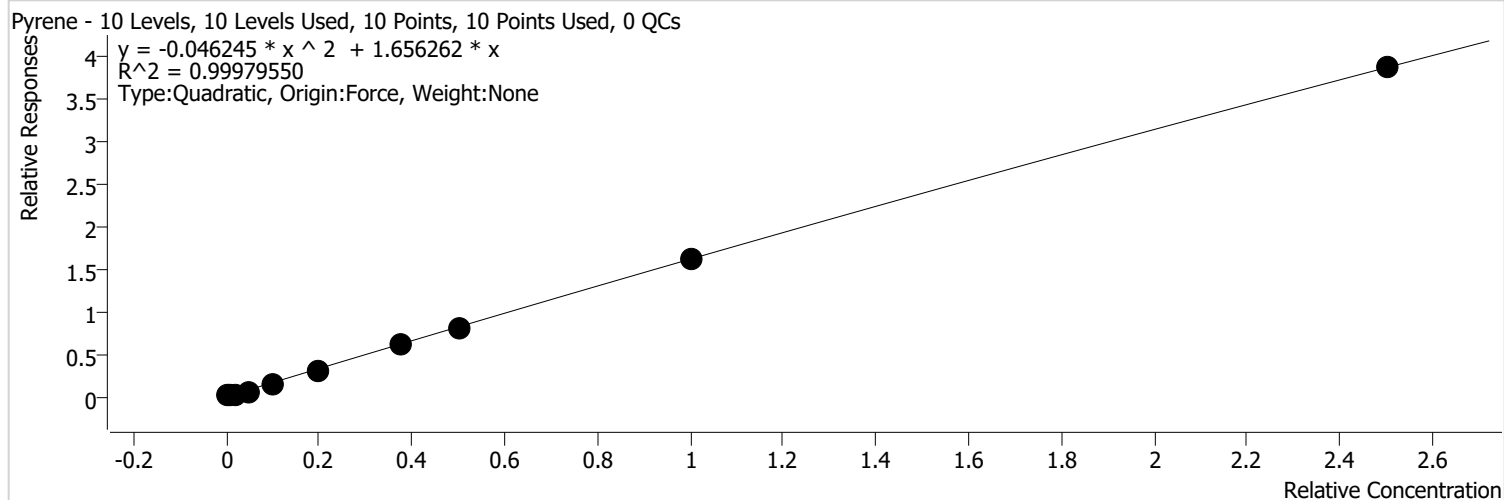


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\082923\082909.D	Calibration	1	x	2985	10.0000	1.1774	
C:\GC-14\Data\2023\082923\082910.D	Calibration	2	x	6286	20.0000	1.2758	
C:\GC-14\Data\2023\082923\082911.D	Calibration	3	x	11654	40.0000	1.1715	
C:\GC-14\Data\2023\082923\082912.D	Calibration	4	x	32021	100.0000	1.2722	
C:\GC-14\Data\2023\082923\082913.D	Calibration	5	x	68631	200.0000	1.2418	
C:\GC-14\Data\2023\082923\082914.D	Calibration	6	x	150701	400.0000	1.3660	
C:\GC-14\Data\2023\082923\082915.D	Calibration	7	x	319832	750.0000	1.4926	
C:\GC-14\Data\2023\082923\082916.D	Calibration	8	x	458913	1000.0000	1.4888	
C:\GC-14\Data\2023\082923\082917.D	Calibration	9	x	968385	2000.0000	1.5174	
C:\GC-14\Data\2023\082923\082918.D	Calibration	10	x	2597592	5000.0000	1.4605	

Calibration Report

Batch Path	C:\GC-14\Data\2023\082923\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	8/30/2023 9:16 AM	Reporter Name	FA\GC14
Report Time	8/30/2023 9:19:31 AM	Batch State	Processed
Last Calib Update	8/30/2023 9:05 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Pyrene %RSE = 18.4

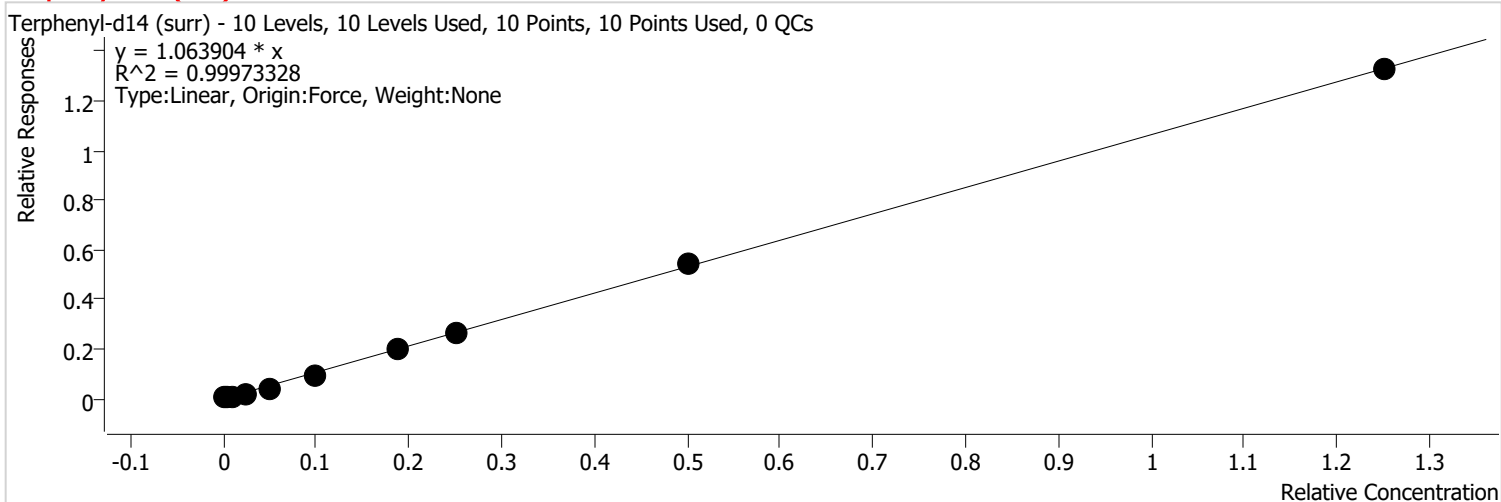


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\082923\082909.D	Calibration	1	x	3307	10.0000	1.3047	
C:\GC-14\Data\2023\082923\082910.D	Calibration	2	x	6535	20.0000	1.3262	
C:\GC-14\Data\2023\082923\082911.D	Calibration	3	x	12211	40.0000	1.2275	
C:\GC-14\Data\2023\082923\082912.D	Calibration	4	x	33834	100.0000	1.3442	
C:\GC-14\Data\2023\082923\082913.D	Calibration	5	x	72887	200.0000	1.3188	
C:\GC-14\Data\2023\082923\082914.D	Calibration	6	x	164364	400.0000	1.4898	
C:\GC-14\Data\2023\082923\082915.D	Calibration	7	x	356104	750.0000	1.6619	
C:\GC-14\Data\2023\082923\082916.D	Calibration	8	x	502502	1000.0000	1.6303	
C:\GC-14\Data\2023\082923\082917.D	Calibration	9	x	1035743	2000.0000	1.6230	
C:\GC-14\Data\2023\082923\082918.D	Calibration	10	x	2738686	5000.0000	1.5399	

Calibration Report

Batch Path	C:\GC-14\Data\2023\082923\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	8/30/2023 9:16 AM	Reporter Name	FA\GC14
Report Time	8/30/2023 9:19:31 AM	Batch State	Processed
Last Calib Update	8/30/2023 9:05 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Terphenyl-d14 (surr) %RSE =

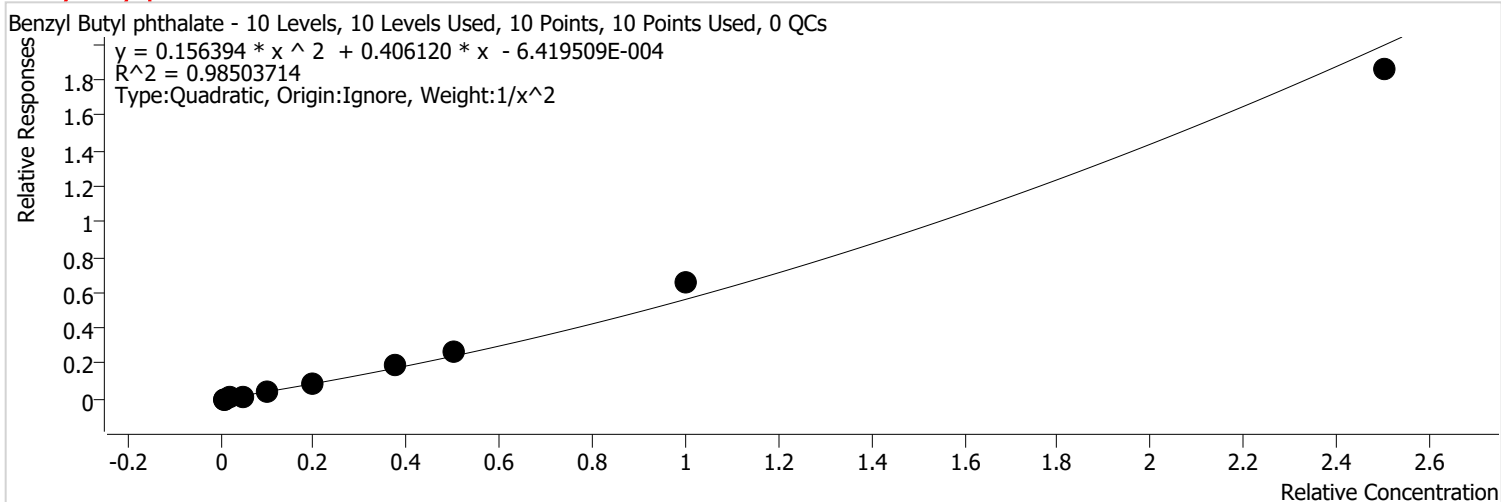


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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C:\GC-14\Data\2023\082923\082910.D	Calibration	2	x	2168	10.0000	0.8802	
C:\GC-14\Data\2023\082923\082911.D	Calibration	3	x	4100	20.0000	0.8242	
C:\GC-14\Data\2023\082923\082912.D	Calibration	4	x	11172	50.0000	0.8877	
C:\GC-14\Data\2023\082923\082913.D	Calibration	5	x	23760	100.0000	0.8598	
C:\GC-14\Data\2023\082923\082914.D	Calibration	6	x	53482	200.0000	0.9695	
C:\GC-14\Data\2023\082923\082915.D	Calibration	7	x	116147	375.0000	1.0841	
C:\GC-14\Data\2023\082923\082916.D	Calibration	8	x	164705	500.0000	1.0687	
C:\GC-14\Data\2023\082923\082917.D	Calibration	9	x	347447	1000.0000	1.0889	
C:\GC-14\Data\2023\082923\082918.D	Calibration	10	x	942866	2500.0000	1.0603	

Calibration Report

Batch Path	C:\GC-14\Data\2023\082923\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	8/30/2023 9:16 AM	Reporter Name	FA\GC14
Report Time	8/30/2023 9:19:31 AM	Batch State	Processed
Last Calib Update	8/30/2023 9:05 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Benzyl Butyl phthalate %RSE = 12.1



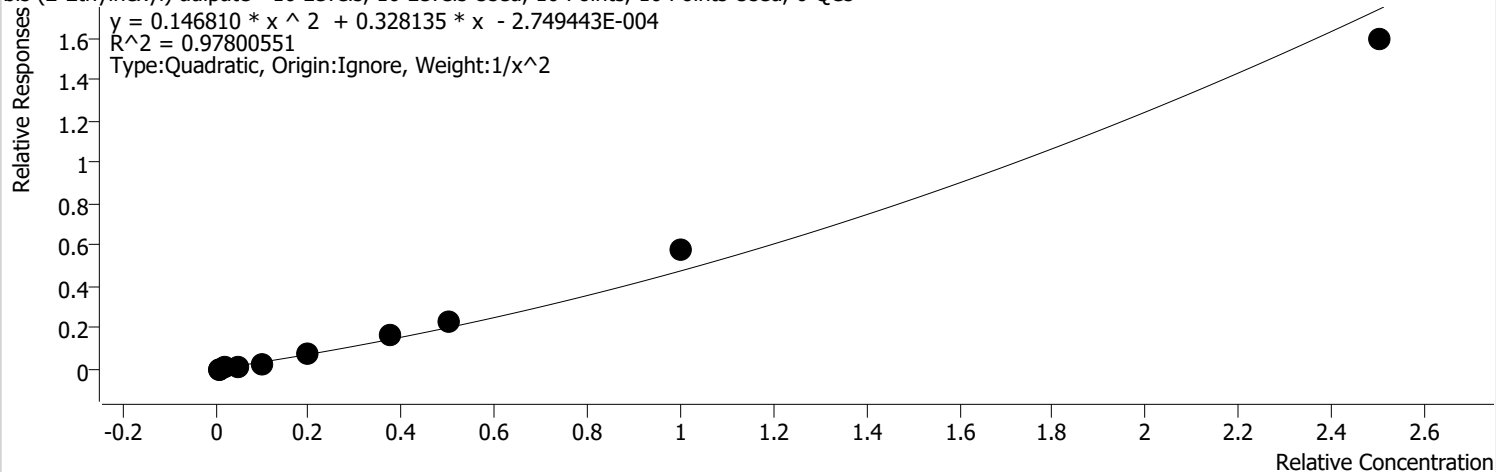
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\082923\082909.D	Calibration	1	x	772	10.0000	0.3044	
C:\GC-14\Data\2023\082923\082910.D	Calibration	2	x	1661	20.0000	0.3371	
C:\GC-14\Data\2023\082923\082911.D	Calibration	3	x	3097	40.0000	0.3113	
C:\GC-14\Data\2023\082923\082912.D	Calibration	4	x	8812	100.0000	0.3501	
C:\GC-14\Data\2023\082923\082913.D	Calibration	5	x	19864	200.0000	0.3594	
C:\GC-14\Data\2023\082923\082914.D	Calibration	6	x	47362	400.0000	0.4293	
C:\GC-14\Data\2023\082923\082915.D	Calibration	7	x	111313	750.0000	0.5195	
C:\GC-14\Data\2023\082923\082916.D	Calibration	8	x	167792	1000.0000	0.5444	
C:\GC-14\Data\2023\082923\082917.D	Calibration	9	x	419135	2000.0000	0.6568	
C:\GC-14\Data\2023\082923\082918.D	Calibration	10	x	1320209	5000.0000	0.7423	

Calibration Report

Batch Path	C:\GC-14\Data\2023\082923\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	8/30/2023 9:16 AM	Reporter Name	FA\GC14
Report Time	8/30/2023 9:19:31 AM	Batch State	Processed
Last Calib Update	8/30/2023 9:05 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

bis (2-Ethylhexyl) adipate %RSE = 14.5

bis (2-Ethylhexyl) adipate - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



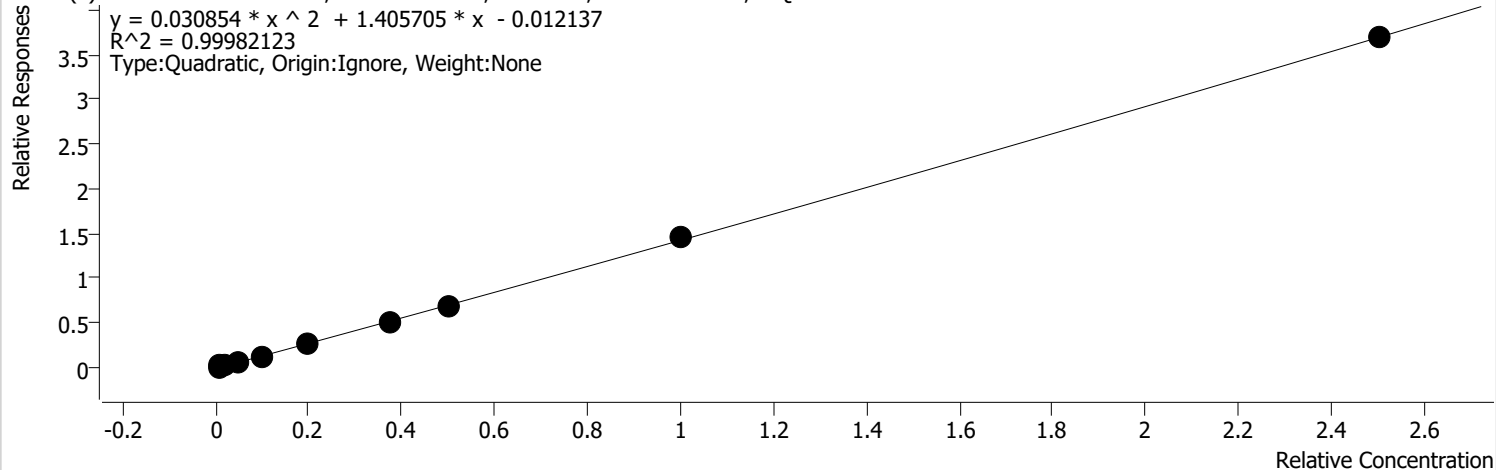
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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C:\GC-14\Data\2023\082923\082910.D	Calibration	2	x	1385	20.0000	0.2810	
C:\GC-14\Data\2023\082923\082911.D	Calibration	3	x	2606	40.0000	0.2619	
C:\GC-14\Data\2023\082923\082912.D	Calibration	4	x	6844	100.0000	0.2719	
C:\GC-14\Data\2023\082923\082913.D	Calibration	5	x	16022	200.0000	0.2899	
C:\GC-14\Data\2023\082923\082914.D	Calibration	6	x	39047	400.0000	0.3539	
C:\GC-14\Data\2023\082923\082915.D	Calibration	7	x	92380	750.0000	0.4311	
C:\GC-14\Data\2023\082923\082916.D	Calibration	8	x	141204	1000.0000	0.4581	
C:\GC-14\Data\2023\082923\082917.D	Calibration	9	x	372002	2000.0000	0.5829	
C:\GC-14\Data\2023\082923\082918.D	Calibration	10	x	1132627	5000.0000	0.6368	

Calibration Report

Batch Path	C:\GC-14\Data\2023\082923\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	8/30/2023 9:16 AM	Reporter Name	FA\GC14
Report Time	8/30/2023 9:19:31 AM	Batch State	Processed
Last Calib Update	8/30/2023 9:05 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Benzo (a) anthracene %RSE = 78.6

Benzo (a) anthracene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs

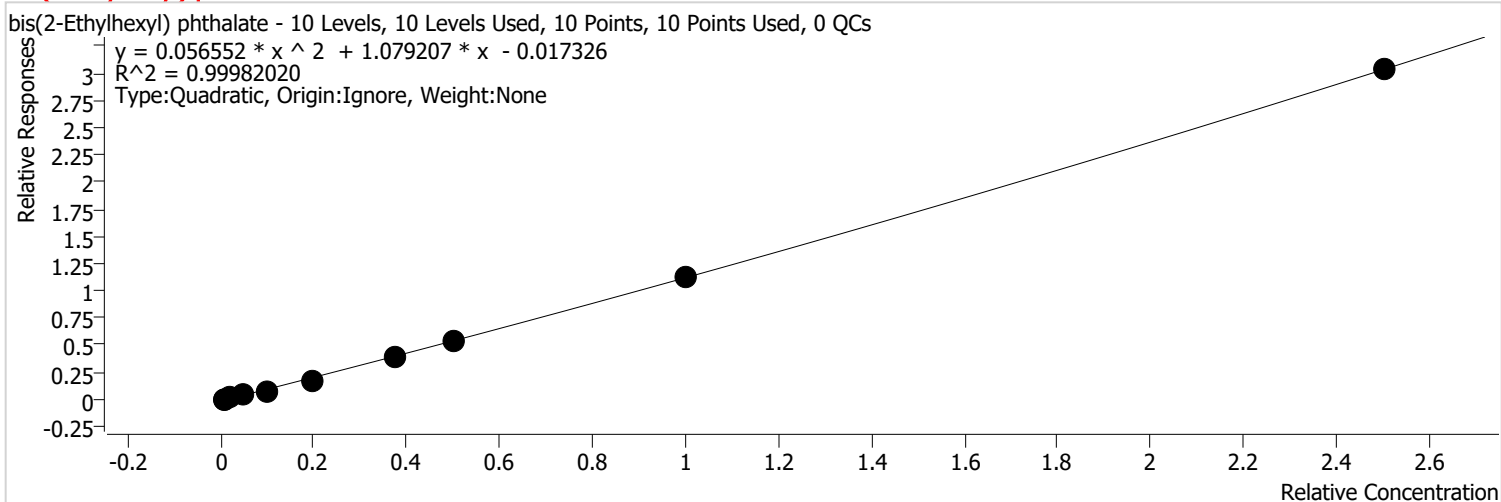


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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C:\GC-14\Data\2023\082923\082910.D	Calibration	2	x	7004	20.0000	1.4214	
C:\GC-14\Data\2023\082923\082911.D	Calibration	3	x	12053	40.0000	1.2116	
C:\GC-14\Data\2023\082923\082912.D	Calibration	4	x	30994	100.0000	1.2314	
C:\GC-14\Data\2023\082923\082913.D	Calibration	5	x	65693	200.0000	1.1886	
C:\GC-14\Data\2023\082923\082914.D	Calibration	6	x	139524	400.0000	1.2647	
C:\GC-14\Data\2023\082923\082915.D	Calibration	7	x	289904	750.0000	1.3529	
C:\GC-14\Data\2023\082923\082916.D	Calibration	8	x	417315	1000.0000	1.3539	
C:\GC-14\Data\2023\082923\082917.D	Calibration	9	x	926078	2000.0000	1.4511	
C:\GC-14\Data\2023\082923\082918.D	Calibration	10	x	2626476	5000.0000	1.4768	

Calibration Report

Batch Path	C:\GC-14\Data\2023\082923\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	8/30/2023 9:16 AM	Reporter Name	FA\GC14
Report Time	8/30/2023 9:19:31 AM	Batch State	Processed
Last Calib Update	8/30/2023 9:05 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

bis(2-Ethylhexyl) phthalate %RSE = 117.0



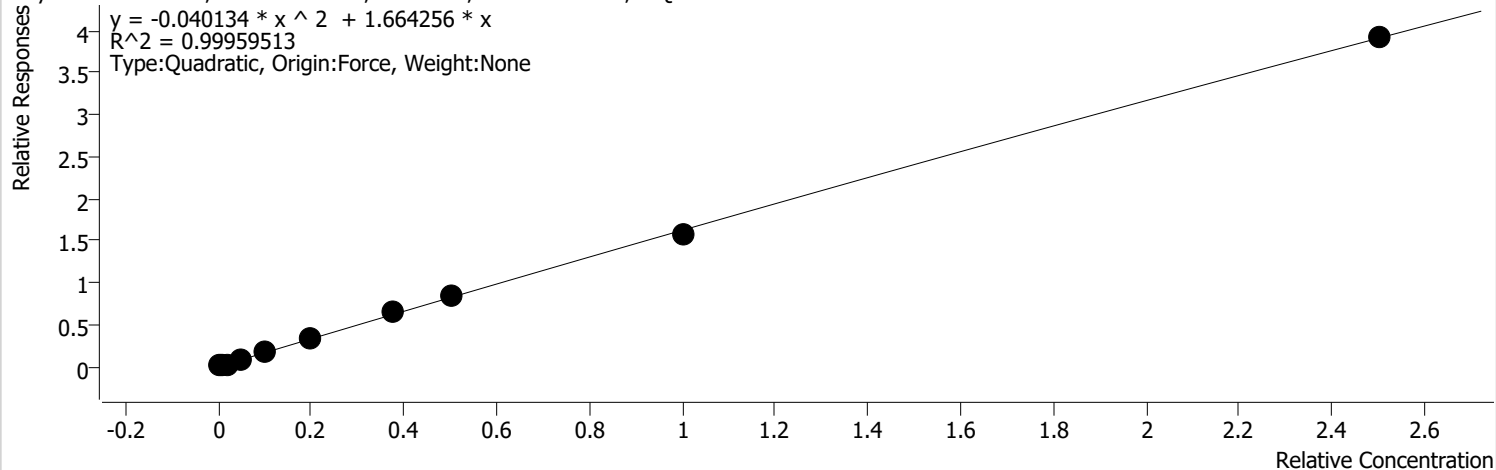
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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C:\GC-14\Data\2023\082923\082911.D	Calibration	3	x	5104	40.0000	0.6222	
C:\GC-14\Data\2023\082923\082912.D	Calibration	4	x	14467	100.0000	0.6913	
C:\GC-14\Data\2023\082923\082913.D	Calibration	5	x	34442	200.0000	0.7384	
C:\GC-14\Data\2023\082923\082914.D	Calibration	6	x	85298	400.0000	0.8919	
C:\GC-14\Data\2023\082923\082915.D	Calibration	7	x	204601	750.0000	1.0420	
C:\GC-14\Data\2023\082923\082916.D	Calibration	8	x	303756	1000.0000	1.0720	
C:\GC-14\Data\2023\082923\082917.D	Calibration	9	x	700007	2000.0000	1.1303	
C:\GC-14\Data\2023\082923\082918.D	Calibration	10	x	1991585	5000.0000	1.2130	

Calibration Report

Batch Path	C:\GC-14\Data\2023\082923\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	8/30/2023 9:16 AM	Reporter Name	FA\GC14
Report Time	8/30/2023 9:19:31 AM	Batch State	Processed
Last Calib Update	8/30/2023 9:05 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Chrysene %RSE = 4.9

Chrysene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs

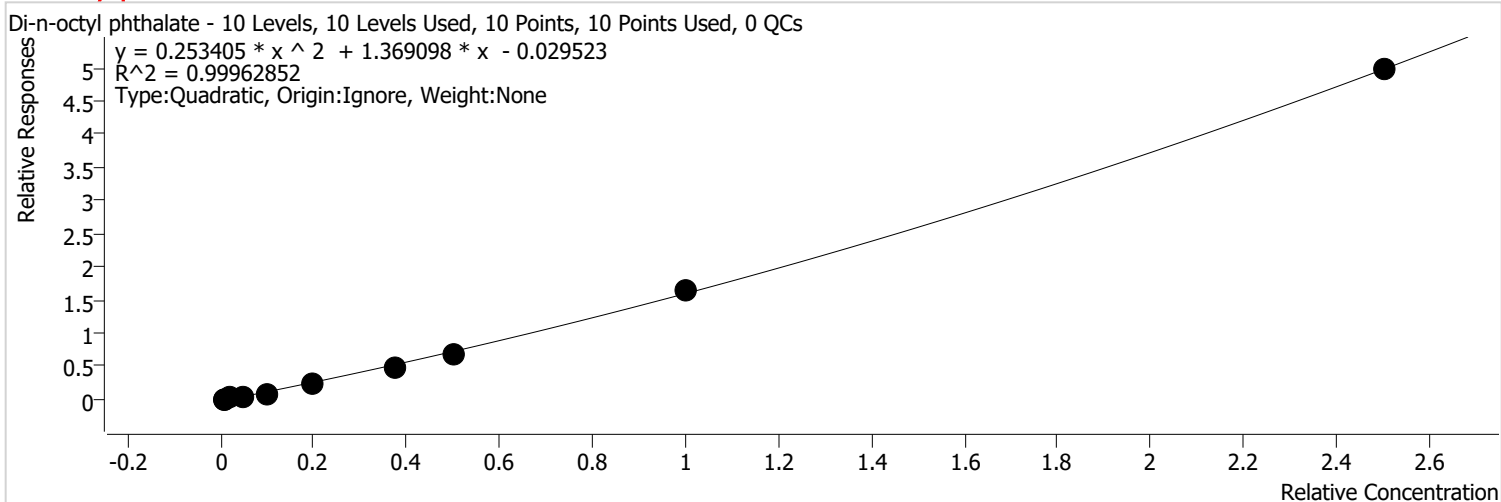


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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C:\GC-14\Data\2023\082923\082910.D	Calibration	2	x	6956	20.0000	1.7298	
C:\GC-14\Data\2023\082923\082911.D	Calibration	3	x	13053	40.0000	1.5913	
C:\GC-14\Data\2023\082923\082912.D	Calibration	4	x	35569	100.0000	1.6998	
C:\GC-14\Data\2023\082923\082913.D	Calibration	5	x	76896	200.0000	1.6486	
C:\GC-14\Data\2023\082923\082914.D	Calibration	6	x	166772	400.0000	1.7438	
C:\GC-14\Data\2023\082923\082915.D	Calibration	7	x	346973	750.0000	1.7670	
C:\GC-14\Data\2023\082923\082916.D	Calibration	8	x	481932	1000.0000	1.7009	
C:\GC-14\Data\2023\082923\082917.D	Calibration	9	x	976283	2000.0000	1.5765	
C:\GC-14\Data\2023\082923\082918.D	Calibration	10	x	2571265	5000.0000	1.5661	

Calibration Report

Batch Path	C:\GC-14\Data\2023\082923\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	8/30/2023 9:16 AM	Reporter Name	FA\GC14
Report Time	8/30/2023 9:19:31 AM	Batch State	Processed
Last Calib Update	8/30/2023 9:05 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Di-n-octyl phthalate %RSE = 162.9

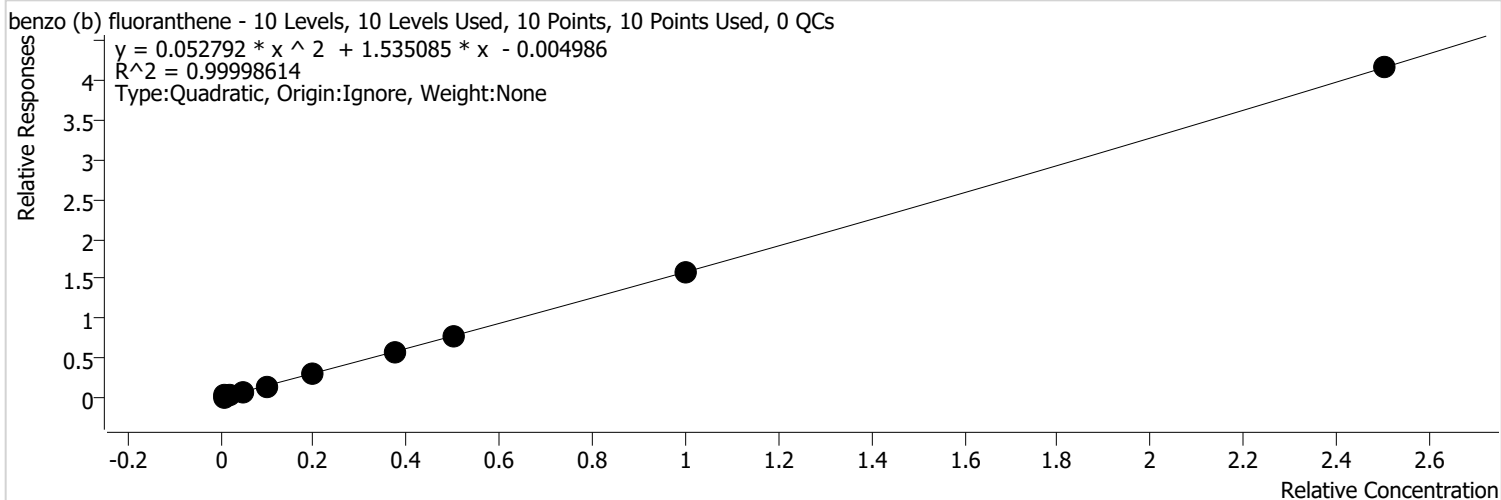


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\082923\082909.D	Calibration	1	x	1660	10.0000	0.7949	
C:\GC-14\Data\2023\082923\082910.D	Calibration	2	x	3429	20.0000	0.8528	
C:\GC-14\Data\2023\082923\082911.D	Calibration	3	x	6610	40.0000	0.8058	
C:\GC-14\Data\2023\082923\082912.D	Calibration	4	x	18542	100.0000	0.8861	
C:\GC-14\Data\2023\082923\082913.D	Calibration	5	x	42464	200.0000	0.9104	
C:\GC-14\Data\2023\082923\082914.D	Calibration	6	x	104995	400.0000	1.0979	
C:\GC-14\Data\2023\082923\082915.D	Calibration	7	x	254234	750.0000	1.2947	
C:\GC-14\Data\2023\082923\082916.D	Calibration	8	x	389410	1000.0000	1.3743	
C:\GC-14\Data\2023\082923\082917.D	Calibration	9	x	1018080	2000.0000	1.6439	
C:\GC-14\Data\2023\082923\082918.D	Calibration	10	x	3264733	5000.0000	1.9884	

Calibration Report

Batch Path	C:\GC-14\Data\2023\082923\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	8/30/2023 9:16 AM	Reporter Name	FA\GC14
Report Time	8/30/2023 9:19:31 AM	Batch State	Processed
Last Calib Update	8/30/2023 9:05 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

benzo (b) fluoranthene %RSE = 20.0



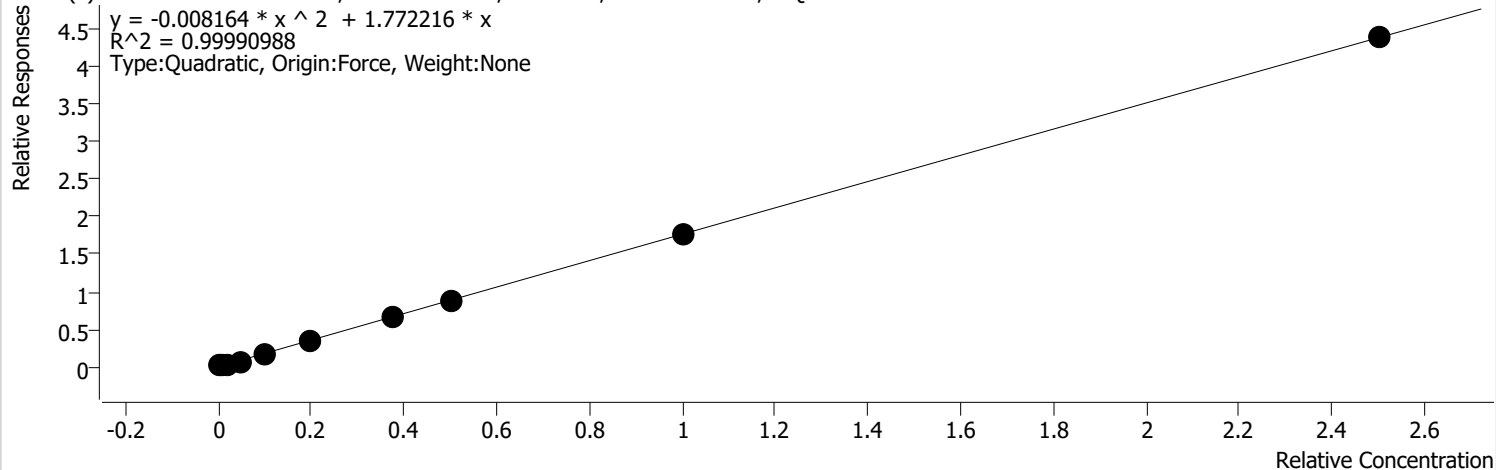
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\082923\082909.D	Calibration	1	x	2624	10.0000	1.2568	
C:\GC-14\Data\2023\082923\082910.D	Calibration	2	x	5615	20.0000	1.3964	
C:\GC-14\Data\2023\082923\082911.D	Calibration	3	x	10653	40.0000	1.2987	
C:\GC-14\Data\2023\082923\082912.D	Calibration	4	x	30146	100.0000	1.4406	
C:\GC-14\Data\2023\082923\082913.D	Calibration	5	x	64638	200.0000	1.3858	
C:\GC-14\Data\2023\082923\082914.D	Calibration	6	x	143494	400.0000	1.5004	
C:\GC-14\Data\2023\082923\082915.D	Calibration	7	x	305423	750.0000	1.5554	
C:\GC-14\Data\2023\082923\082916.D	Calibration	8	x	442176	1000.0000	1.5605	
C:\GC-14\Data\2023\082923\082917.D	Calibration	9	x	978433	2000.0000	1.5799	
C:\GC-14\Data\2023\082923\082918.D	Calibration	10	x	2733943	5000.0000	1.6652	

Calibration Report

Batch Path	C:\GC-14\Data\2023\082923\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	8/30/2023 9:16 AM	Reporter Name	FA\GC14
Report Time	8/30/2023 9:19:31 AM	Batch State	Processed
Last Calib Update	8/30/2023 9:05 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

benzo (k) fluoranthene %RSE = 16.0

benzo (k) fluoranthene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



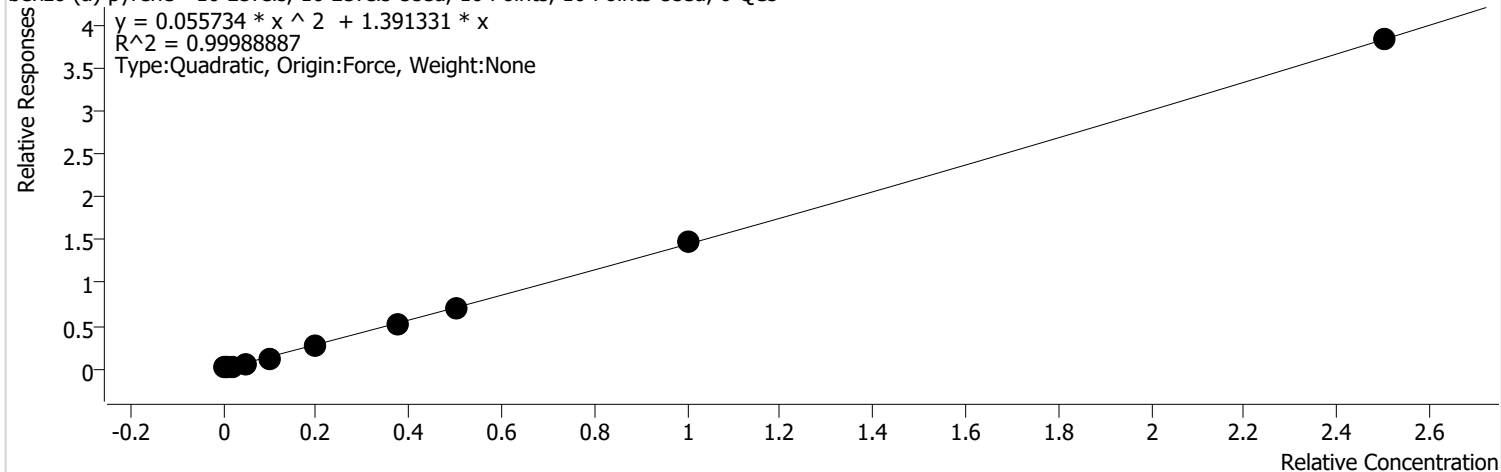
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\082923\082909.D	Calibration	1	x	2834	10.0000	1.3574	
C:\GC-14\Data\2023\082923\082910.D	Calibration	2	x	5856	20.0000	1.4563	
C:\GC-14\Data\2023\082923\082911.D	Calibration	3	x	11343	40.0000	1.3828	
C:\GC-14\Data\2023\082923\082912.D	Calibration	4	x	32094	100.0000	1.5337	
C:\GC-14\Data\2023\082923\082913.D	Calibration	5	x	69852	200.0000	1.4976	
C:\GC-14\Data\2023\082923\082914.D	Calibration	6	x	160120	400.0000	1.6743	
C:\GC-14\Data\2023\082923\082915.D	Calibration	7	x	353824	750.0000	1.8019	
C:\GC-14\Data\2023\082923\082916.D	Calibration	8	x	503265	1000.0000	1.7761	
C:\GC-14\Data\2023\082923\082917.D	Calibration	9	x	1093936	2000.0000	1.7664	
C:\GC-14\Data\2023\082923\082918.D	Calibration	10	x	2875782	5000.0000	1.7515	

Calibration Report

Batch Path	C:\GC-14\Data\2023\082923\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	8/30/2023 9:16 AM	Reporter Name	FA\GC14
Report Time	8/30/2023 9:19:31 AM	Batch State	Processed
Last Calib Update	8/30/2023 9:05 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

benzo (a) pyrene %RSE = 16.0

benzo (a) pyrene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs

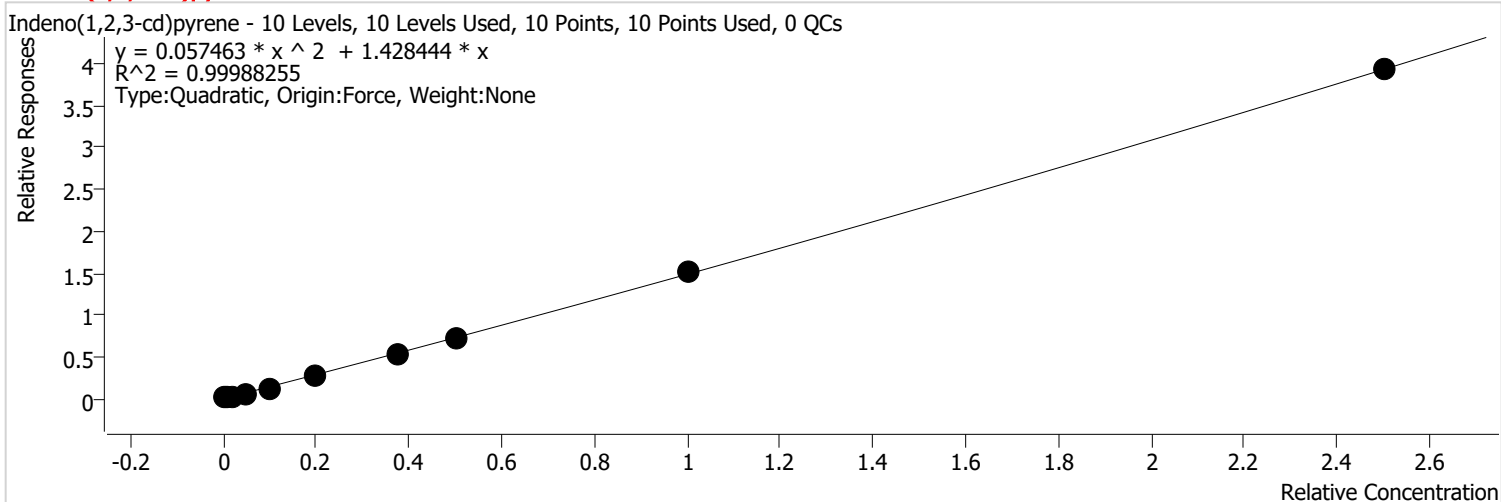


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\082923\082909.D	Calibration	1	x	2242	10.0000	1.0740	
C:\GC-14\Data\2023\082923\082910.D	Calibration	2	x	4749	20.0000	1.1811	
C:\GC-14\Data\2023\082923\082911.D	Calibration	3	x	8837	40.0000	1.0774	
C:\GC-14\Data\2023\082923\082912.D	Calibration	4	x	25095	100.0000	1.1992	
C:\GC-14\Data\2023\082923\082913.D	Calibration	5	x	54445	200.0000	1.1673	
C:\GC-14\Data\2023\082923\082914.D	Calibration	6	x	124009	400.0000	1.2967	
C:\GC-14\Data\2023\082923\082915.D	Calibration	7	x	274546	750.0000	1.3982	
C:\GC-14\Data\2023\082923\082916.D	Calibration	8	x	400402	1000.0000	1.4131	
C:\GC-14\Data\2023\082923\082917.D	Calibration	9	x	906084	2000.0000	1.4631	
C:\GC-14\Data\2023\082923\082918.D	Calibration	10	x	2511714	5000.0000	1.5298	

Calibration Report

Batch Path	C:\GC-14\Data\2023\082923\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	8/30/2023 9:16 AM	Reporter Name	FA\GC14
Report Time	8/30/2023 9:19:31 AM	Batch State	Processed
Last Calib Update	8/30/2023 9:05 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Indeno(1,2,3-cd)pyrene %RSE = 13.1



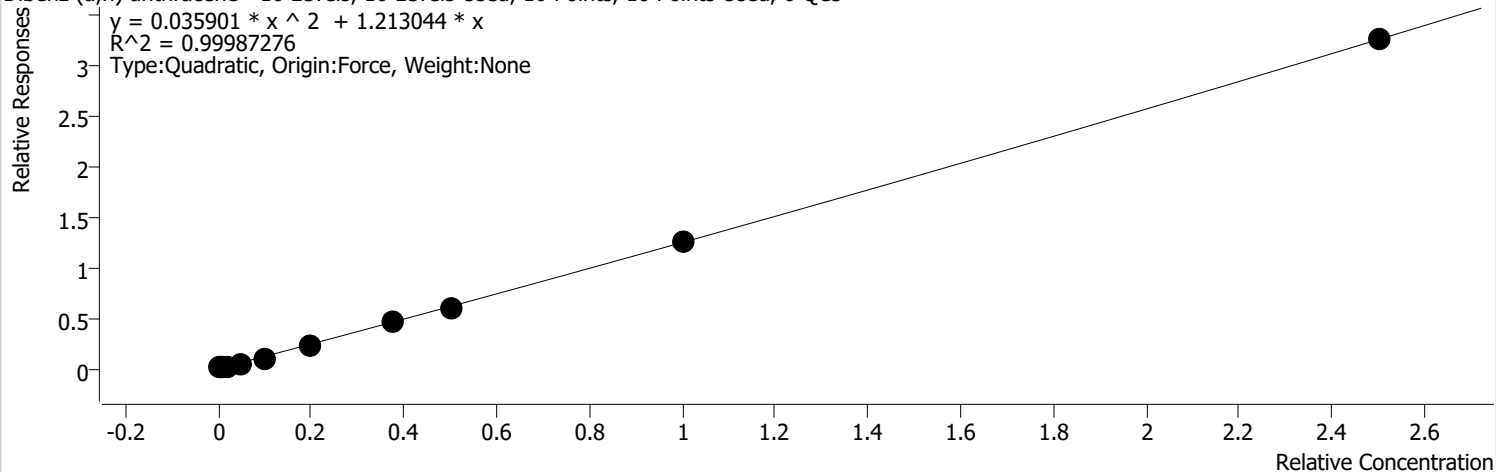
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\082923\082909.D	Calibration	1	x	3106	10.0000	1.1446	
C:\GC-14\Data\2023\082923\082910.D	Calibration	2	x	6561	20.0000	1.2552	
C:\GC-14\Data\2023\082923\082911.D	Calibration	3	x	12384	40.0000	1.1697	
C:\GC-14\Data\2023\082923\082912.D	Calibration	4	x	34515	100.0000	1.2732	
C:\GC-14\Data\2023\082923\082913.D	Calibration	5	x	73861	200.0000	1.2473	
C:\GC-14\Data\2023\082923\082914.D	Calibration	6	x	167374	400.0000	1.3575	
C:\GC-14\Data\2023\082923\082915.D	Calibration	7	x	356800	750.0000	1.4305	
C:\GC-14\Data\2023\082923\082916.D	Calibration	8	x	505832	1000.0000	1.4253	
C:\GC-14\Data\2023\082923\082917.D	Calibration	9	x	1137055	2000.0000	1.5093	
C:\GC-14\Data\2023\082923\082918.D	Calibration	10	x	3161675	5000.0000	1.5710	

Calibration Report

Batch Path	C:\GC-14\Data\2023\082923\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	8/30/2023 9:16 AM	Reporter Name	FA\GC14
Report Time	8/30/2023 9:19:31 AM	Batch State	Processed
Last Calib Update	8/30/2023 9:05 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Dibenz (a,h) anthracene %RSE = 15.8

Dibenz (a,h) anthracene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



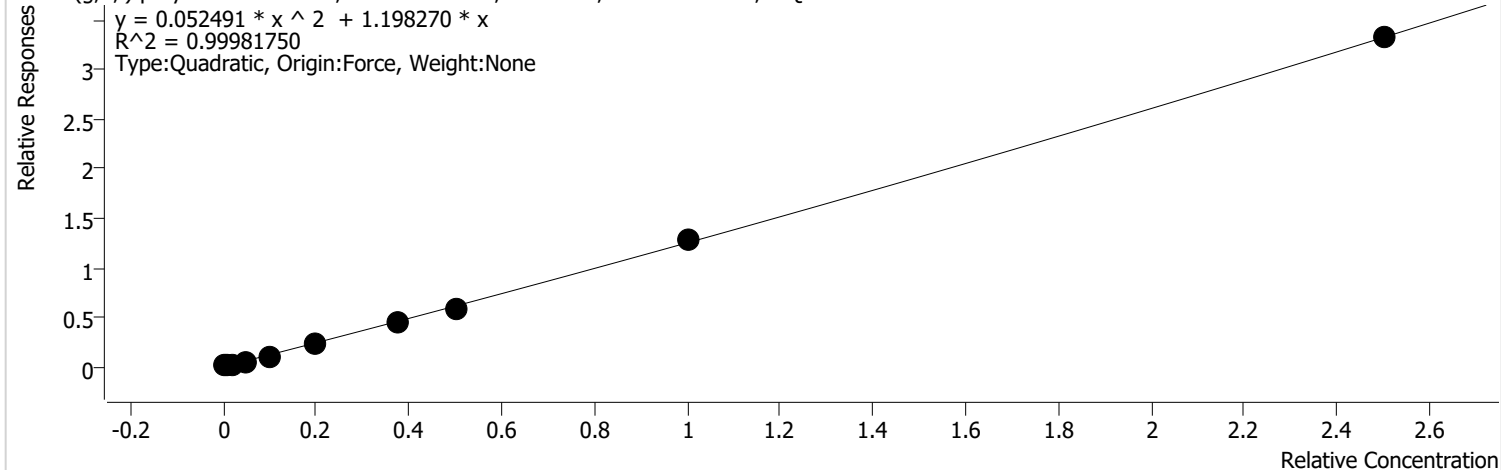
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\082923\082909.D	Calibration	1	x	2548	10.0000	0.9390	
C:\GC-14\Data\2023\082923\082910.D	Calibration	2	x	5364	20.0000	1.0261	
C:\GC-14\Data\2023\082923\082911.D	Calibration	3	x	9931	40.0000	0.9380	
C:\GC-14\Data\2023\082923\082912.D	Calibration	4	x	28640	100.0000	1.0565	
C:\GC-14\Data\2023\082923\082913.D	Calibration	5	x	60596	200.0000	1.0233	
C:\GC-14\Data\2023\082923\082914.D	Calibration	6	x	139895	400.0000	1.1346	
C:\GC-14\Data\2023\082923\082915.D	Calibration	7	x	303141	750.0000	1.2154	
C:\GC-14\Data\2023\082923\082916.D	Calibration	8	x	430413	1000.0000	1.2128	
C:\GC-14\Data\2023\082923\082917.D	Calibration	9	x	954084	2000.0000	1.2664	
C:\GC-14\Data\2023\082923\082918.D	Calibration	10	x	2620174	5000.0000	1.3019	

Calibration Report

Batch Path	C:\GC-14\Data\2023\082923\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC14
Analysis Time	8/30/2023 9:16 AM	Reporter Name	FA\GC14
Report Time	8/30/2023 9:19:31 AM	Batch State	Processed
Last Calib Update	8/30/2023 9:05 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Benzo (g,h,i) perylene %RSE = 9.8

Benzo (g,h,i) perylene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\082923\082909.D	Calibration	1	x	2915	10.0000	1.0743	
C:\GC-14\Data\2023\082923\082910.D	Calibration	2	x	5895	20.0000	1.1277	
C:\GC-14\Data\2023\082923\082911.D	Calibration	3	x	10774	40.0000	1.0176	
C:\GC-14\Data\2023\082923\082912.D	Calibration	4	x	29847	100.0000	1.1010	
C:\GC-14\Data\2023\082923\082913.D	Calibration	5	x	62200	200.0000	1.0504	
C:\GC-14\Data\2023\082923\082914.D	Calibration	6	x	138209	400.0000	1.1210	
C:\GC-14\Data\2023\082923\082915.D	Calibration	7	x	294110	750.0000	1.1792	
C:\GC-14\Data\2023\082923\082916.D	Calibration	8	x	423446	1000.0000	1.1932	
C:\GC-14\Data\2023\082923\082917.D	Calibration	9	x	962278	2000.0000	1.2773	
C:\GC-14\Data\2023\082923\082918.D	Calibration	10	x	2673138	5000.0000	1.3282	

Semivolatile Calibration

Date: 8/28/23	Cal	ICV
Analyst: SAH	8270 Megamix: 27433	8270 Megamix: 28486
MeCl2: 297117578	2,4-DNP: 27477	2,4-DNP: 28196
8270 Surrogate: 28623	Benzoic Acid: 27263	Benzoic Acid: 28493
Internal Standard: 28623 28216 ^{SAH} ₂₈₁₁₆ 23	Benzidines: 23501	Benzidines: 28634

	Spike Conc. (ppb)	BN/Acid Surr Conc. (ppb)	2° Spike (uL)	B/N Surr (uL)	Internal Standard (uL)	Remove (uL)	Final Vol. (mL)	Comments
11	2	2/1	0.2	--	10	10.2	1	For PAH-LL Cal Only
12	10	10/5	1	--	10	11	1	
13	20	20/10	2	--	10	12	1	
14	40	40/20	4	--	10	14	1	
15	100	100/50	10	--	10	20	1	
16	200	200/100	20	--	10	30	1	
17	500	500/250	40	--	10	50	1	
18	750	750/375	75	--	10	85	1	
19	1000	1000/500	100	--	10	110	1	
20	2000	2000/1000	200	--	10	210	1	
21	5000	5000/2500	500	--	10	510	1	
22	ICB	1000/500		5	10	15	1	
23	ICV (1000 ppb)	1000/500	100 (2° SS)	--	10	110	1	

	Mega Mix (uL)	2,4-DNP (uL)	Benzoic Acid	8270 Surr	Benzidine	Final
2° Intermediate (cal)	100	100	100	500	50	10
2° Intermediate (SS)	10	10	10	50	5	1

Signature and Date: 

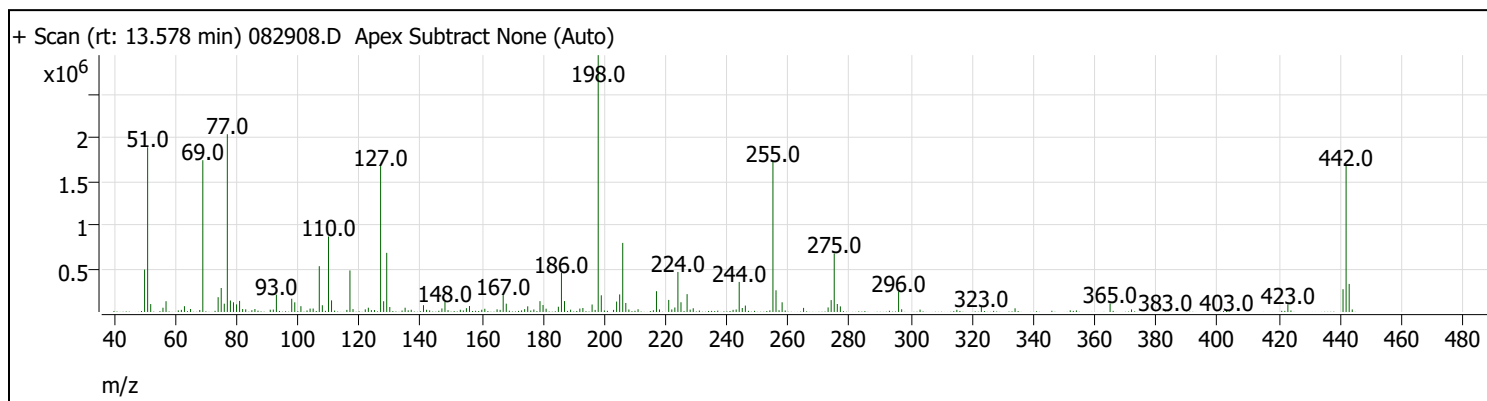
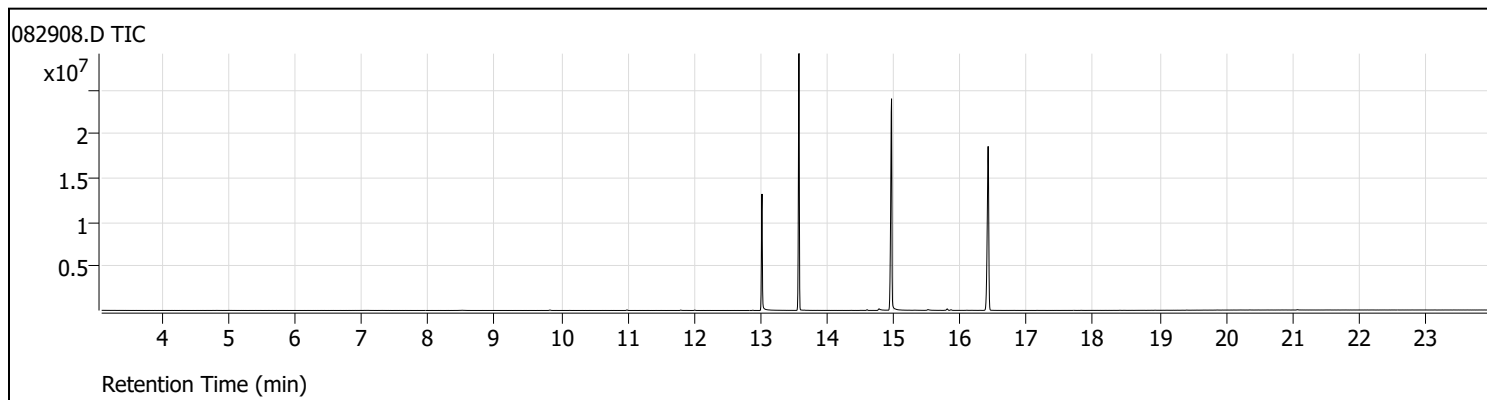
Signature: AK



Tunes

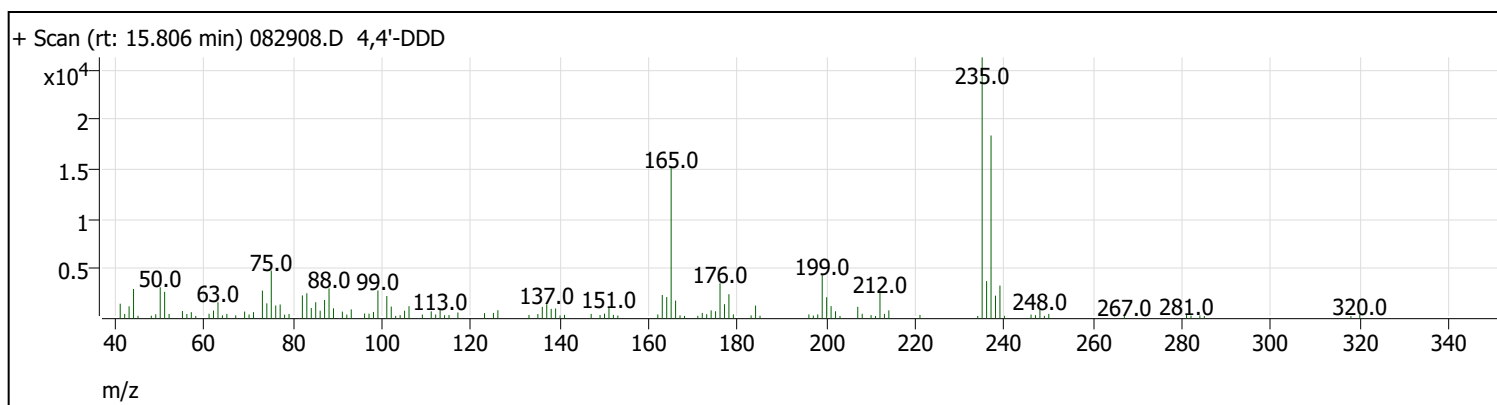
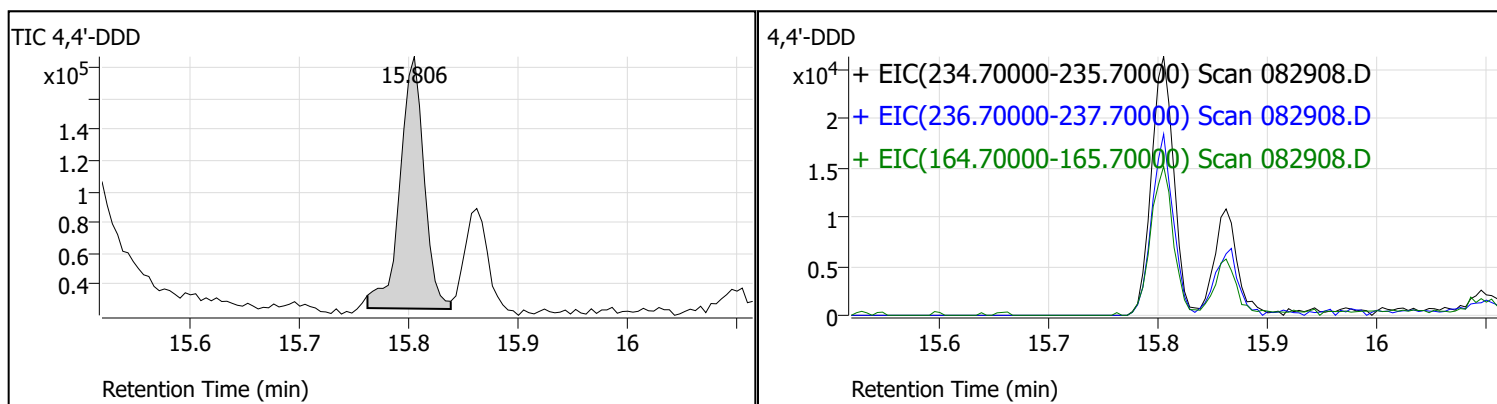
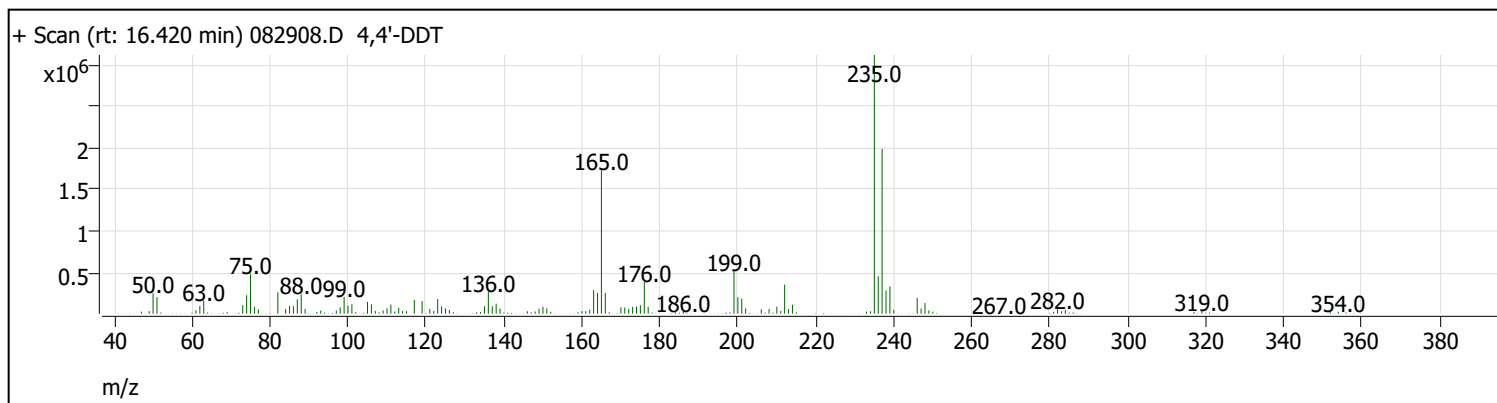
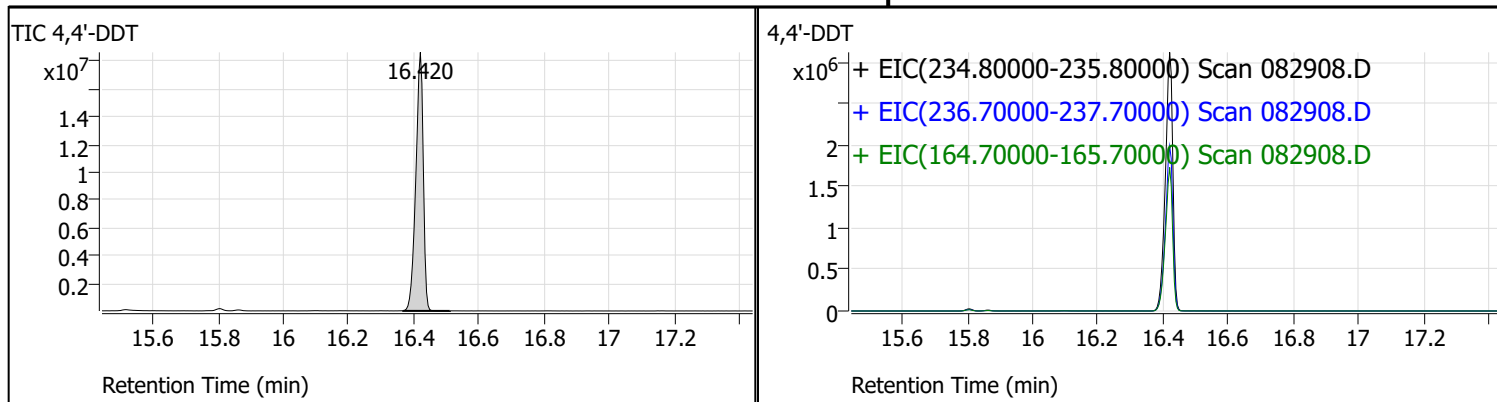
Tune Evaluation Report

Data Path: C:\GC-14\Data\2023\082923\082908.D
 Acq on: 8/29/2023 6:19:58 PM
 Operator: FA\GC14
 Sample: TUNE
 Inst Name: GC-14
 ALS Vial: 1
 Method: C:\GC-14\Methods\Quant
 Methods\TUNE\DFTPPwBreak&TailingGC218270E.m



Target Mass	Rel. To Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Pass/Fail
68	69	0	2	1.3	23200	Pass
70	69	0	2	0.5	8015	Pass
197	198	0	2	0.8	23832	Pass
198	198	100	100	100.0	2955776	Pass
199	198	5	9	6.5	192192	Pass
365	198	1	100	3.3	98616	Pass
441	443	1E-10	150	81.1	262144	Pass
442	442	100	100	100.0	1684480	Pass
443	442	15	24	19.2	323328	Pass
69	69	100	100	100.0	1746432	Pass

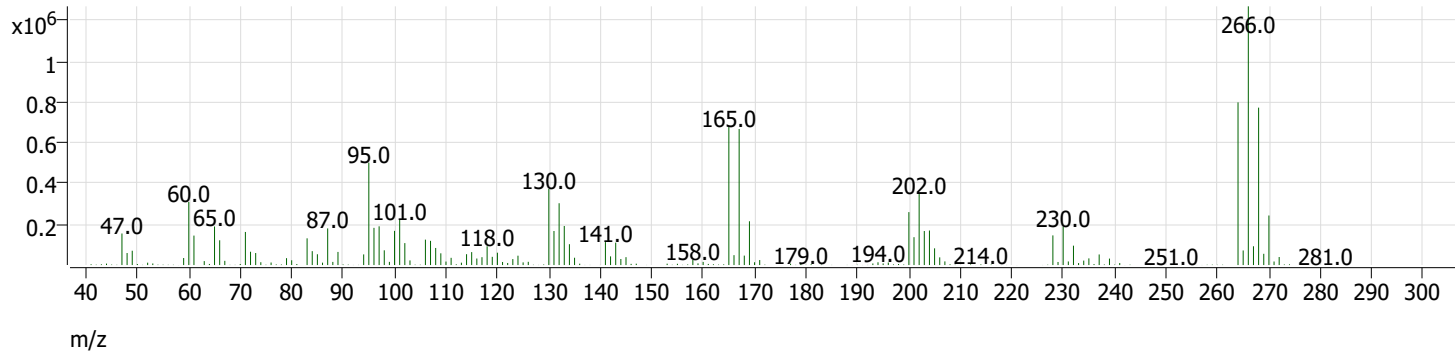
Tune Evaluation Report



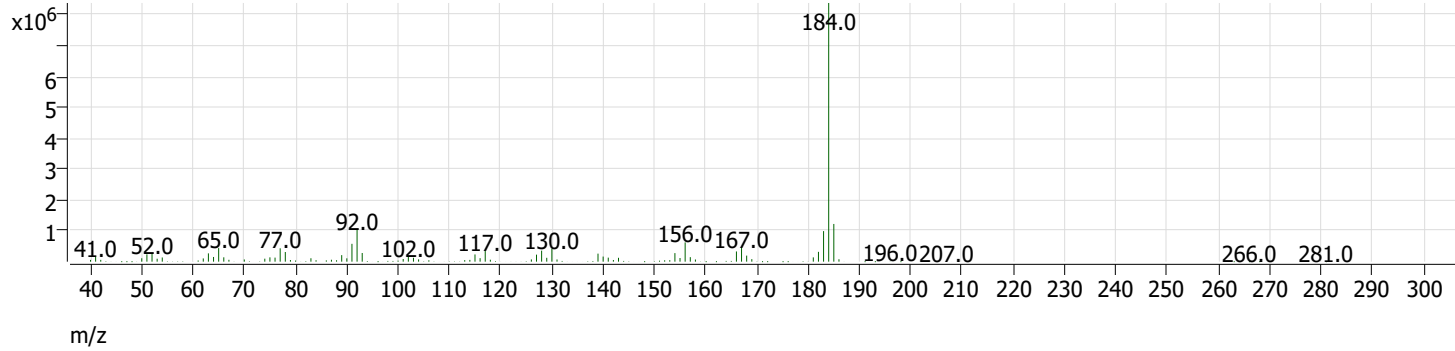
Compound Name	Expected RT	Observed RT	TIC Area	Breakdown %	Pass/Fail
4,4'-DDT	16.440	16.420	29497993	0.8	Pass
4,4'-DDD	15.820	15.806	248826		

Tune Evaluation Report

+ Scan (rt: 13.020 min) 082908.D Pentachlorophenol



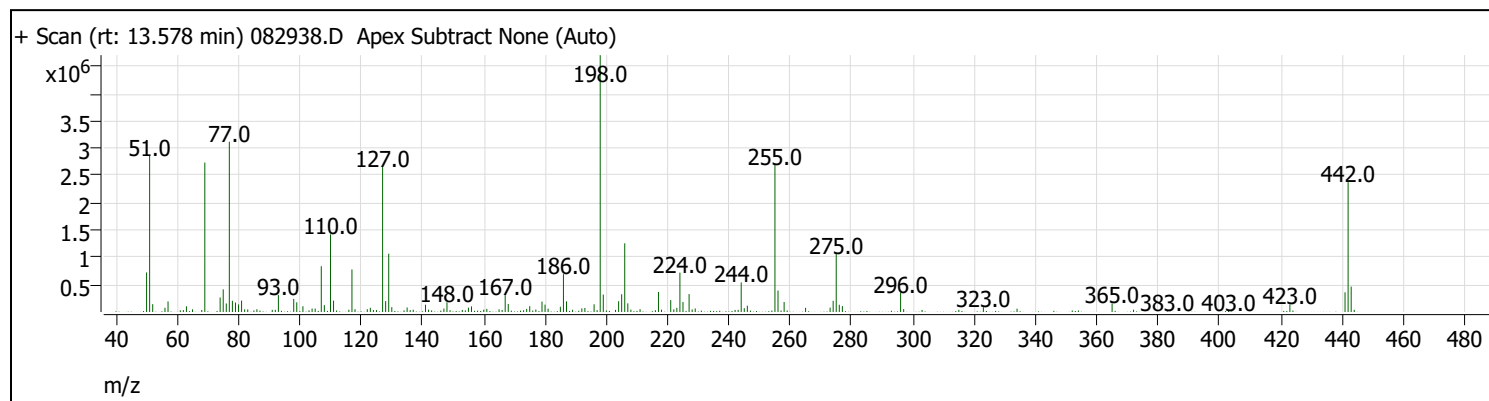
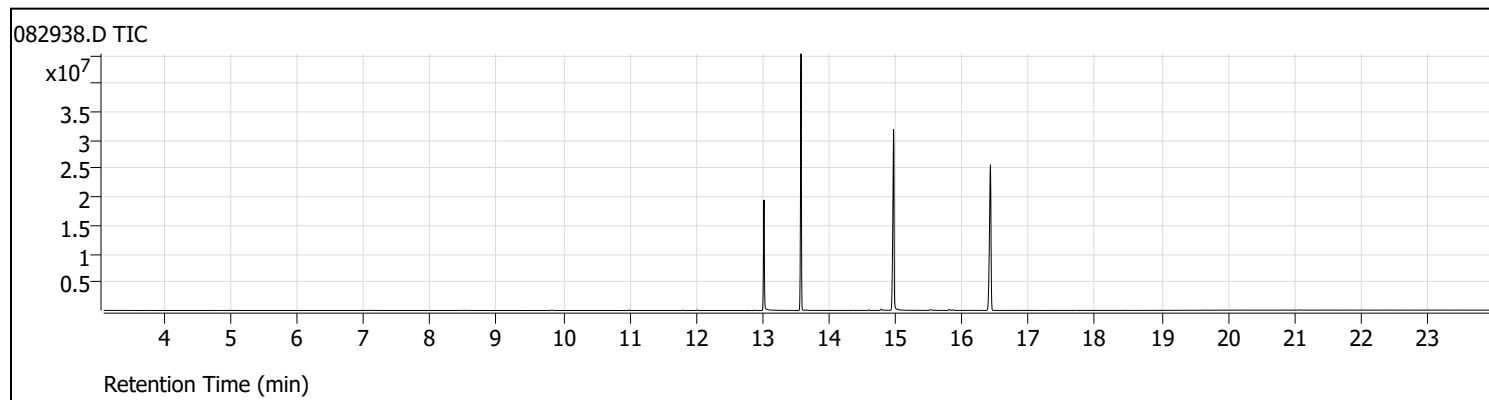
+ Scan (rt: 14.968 min) 082908.D Benzidine



Compound Name	Expected RT	Observed RT	Tailing Factor	PGF	Pass/Fail
Pentachlorophenol	13.030	13.020	0.8	13.3	Pass
Benzidine	14.900	14.968	0.5	10.0	Pass

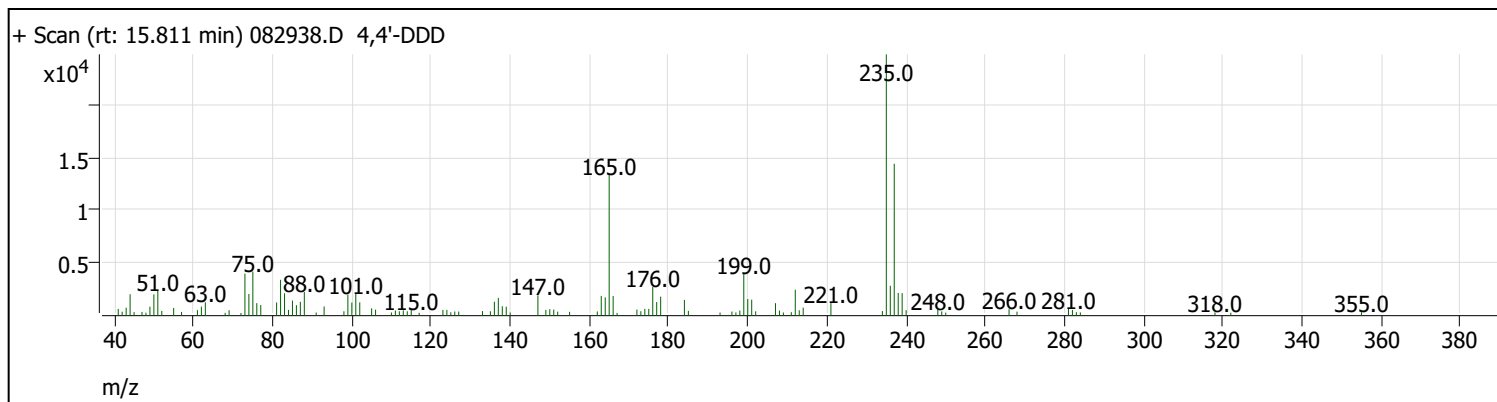
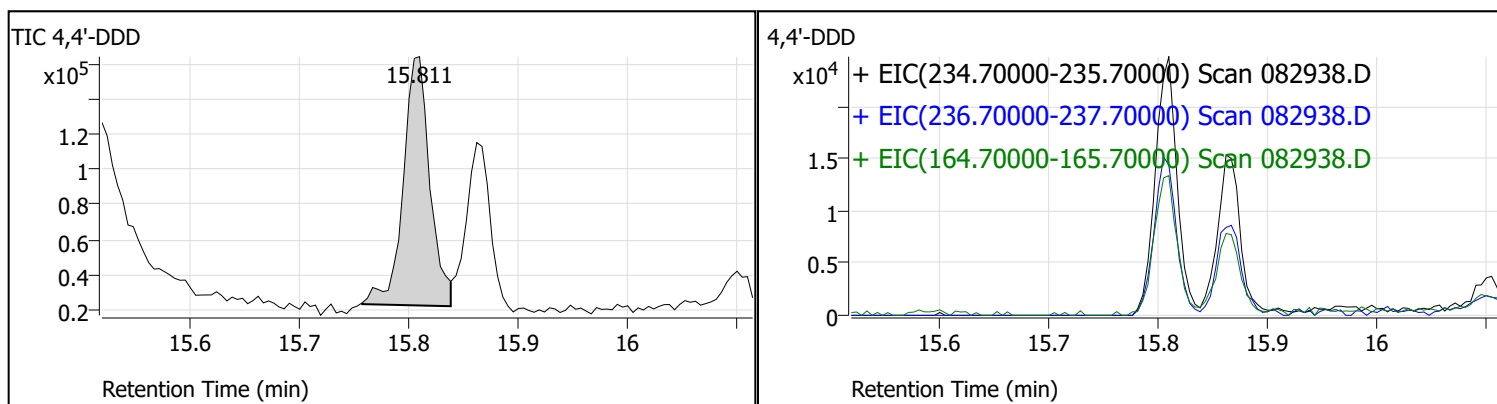
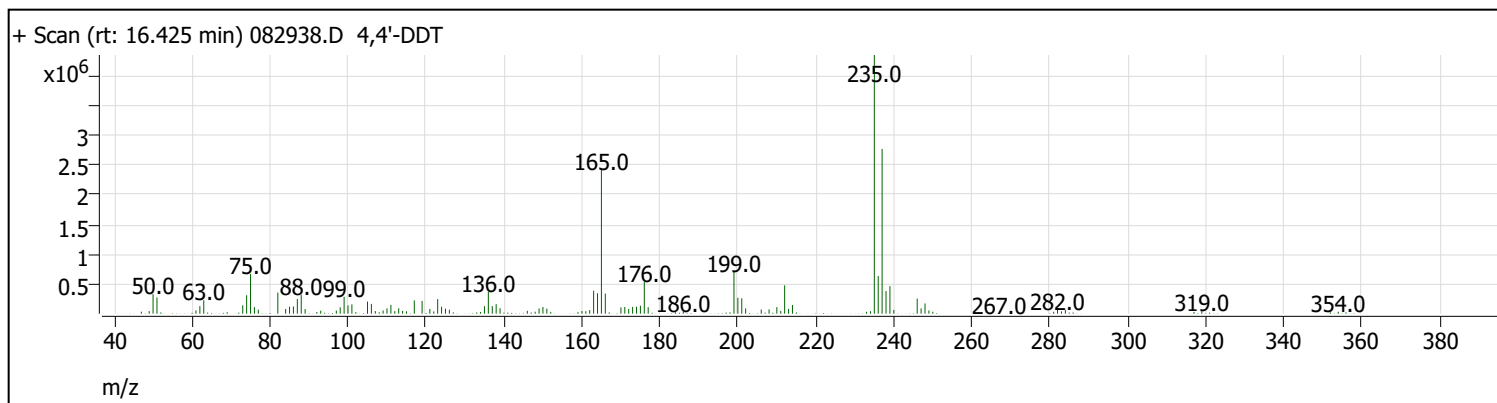
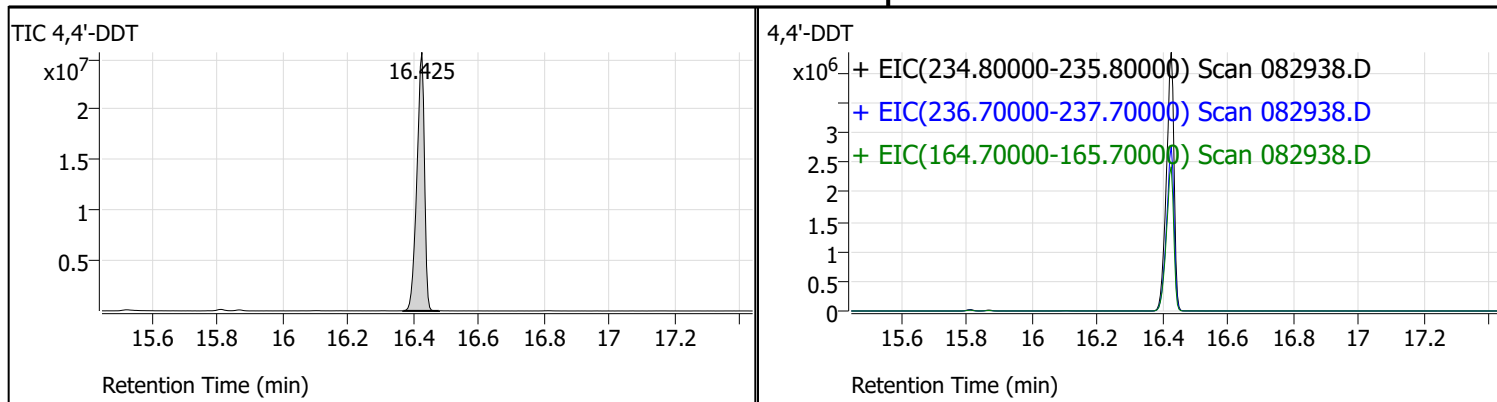
Tune Evaluation Report

Data Path: C:\GC-14\Data\2023\082923\082938.D
 Acq on: 8/30/2023 8:22:13 AM
 Operator: FA\GC14
 Sample: TUNE
 Inst Name: GC-14
 ALS Vial: 1
 Method: C:\GC-14\Methods\Quant
 Methods\TUNE\DFTPPwBreak&TailingGC218270E.m



Target Mass	Rel. To Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Pass/Fail
68	69	0	2	1.3	36664	Pass
70	69	0	2	0.4	12064	Pass
197	198	0	2	0.7	33320	Pass
198	198	100	100	100.0	4703744	Pass
199	198	5	9	6.8	319104	Pass
365	198	1	100	3.3	157504	Pass
441	443	1E-10	150	77.5	360704	Pass
442	442	100	100	100.0	2377728	Pass
443	442	15	24	19.6	465344	Pass
69	69	100	100	100.0	2736640	Pass

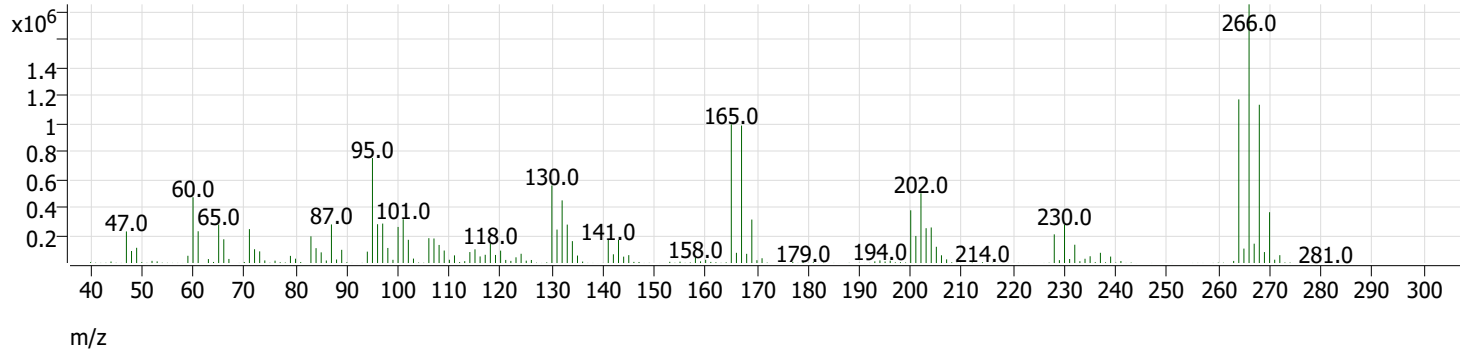
Tune Evaluation Report



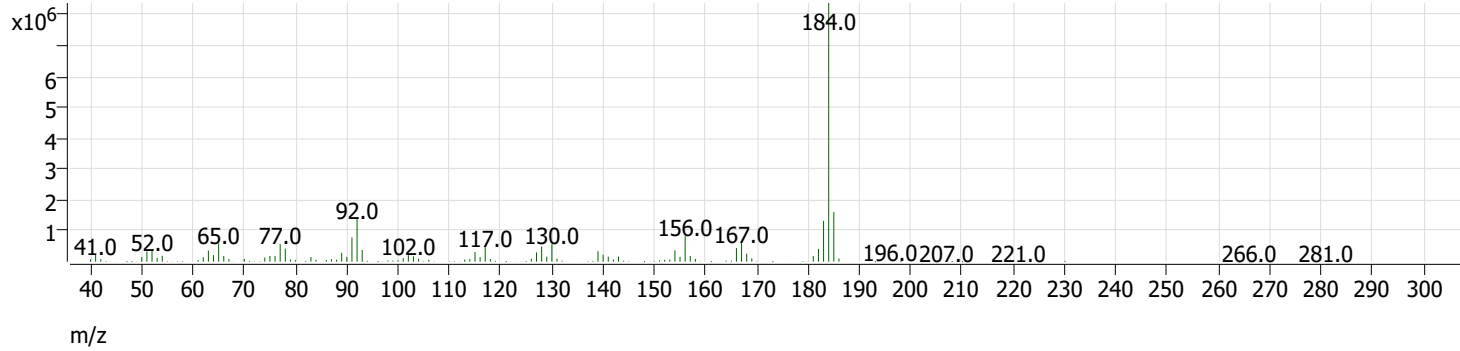
Compound Name	Expected RT	Observed RT	TIC Area	Breakdown %	Pass/Fail
4,4'-DDT	16.440	16.425	41469244	0.6	Pass
4,4'-DDD	15.820	15.811	241762		

Tune Evaluation Report

+ Scan (rt: 13.020 min) 082938.D Pentachlorophenol



+ Scan (rt: 14.968 min) 082938.D Benzidine



Compound Name	Expected RT	Observed RT	Tailing Factor	PGF	Pass/Fail
Pentachlorophenol	13.030	13.020	0.8	5.5	Pass
Benzidine	14.900	14.968	0.6	4.0	Pass



Internal Standards

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-14 230831A

CCV Name: PAH-MDPT

Run No: 86264

CCV SeqNo: 1800264

Lab File ID (Standard): 082916.D

Date Analyzed: 8/29/2023

Instrument ID: GC-14

Time Analyzed: 22:05

GC Column:

ID (mm):

Length (M):

	IS1 (14DCBZ)		2 Acenaphthene-d		IS3 Chrysene-d12		S4 Naphthalene-d	
	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	0	0.000	344925	11.377	566694	17.424	809534	9.158
UPPER LIMIT	0	0.500	689850	11.877	1133388	17.924	1619068	9.658
LOWER LIMIT	0	-0.500	172463	10.877	283347	16.924	404767	8.658
SAMPLE NO.								
01 CCV-41343	0	0	475603	11.383	752162	17.424	1.0601e+006	9.163
02 QCS-41343	0	0	489187	11.383	846004	17.424	1.06237e+006	9.167

IS1 (14DCBZ) = 1,4-Dichlorobenzene-d4

IS3 Chrysene-d12 = Chrysene-d12

IS2 Acenaphthene-d10 = Acenaphthene-d10

IS4 Naphthalene-d8 = Naphthalene-d8

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-14 230831A CCV Name: PAH-MDPT
 Run No: 86264 CCV SeqNo: 1800264
 Lab File ID (Standard): 082916.D Date Analyzed: 8/29/2023
 Instrument ID: GC-14 Time Analyzed: 22:05
 GC Column: ID (mm): Length (M):

	S5 Perylene-d12		S6 Phenanthrene-d10					
	AREA #	RT #	AREA #	RT #				
12 HOUR STD	709767	19.792	616467	13.248				
UPPER LIMIT	1419534	20.292	1232934	13.748				
LOWER LIMIT	354884	19.292	308234	12.748				
SAMPLE NO.								
01 CCV-41343	897807	19.805	829448	13.248				
02 QCS-41343	955181	19.801	880964	13.255				

IS5 Perylene-d12 = Perylene-d12

IS6 Phenanthrene-d10 = Phenanthrene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-14 230831A

CCV Name: CCV-41343

Run No: 86264

CCV SeqNo: 1800248

Lab File ID (Standard): 083003.D

Date Analyzed: 8/30/2023

Instrument ID: GC-14

Time Analyzed: 16:53

GC Column:

ID (mm):

Length (M):

	IS1 (14DCBZ)		IS2 Acenaphthene-d10		IS3 Chrysene-d12		IS4 Naphthalene-d8	
	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	0	0.000	475603	11.383	752162	17.424	1060104	9.163
UPPER LIMIT	0	0.500	951206	11.883	1504324	17.924	2120208	9.663
LOWER LIMIT	0	-0.500	237802	10.883	376081	16.924	530052	8.663
SAMPLE NO.								
01 MB-41343	0	0	285552	11.383	420136	17.424	784849	9.163
02 LCS-41343	0	0	372444	11.383	594291	17.424	830382	9.163
03 2308357-001A	0	0	311218	11.383	651130	17.424	839951	9.163
04 2308369-001A	0	0	311676	11.383	511489	17.424	812796	9.167
05 2308369-002A	0	0	320233	11.383	494091	17.424	850102	9.167
06 2308369-002AMS	0	0	381783	11.383	623819	17.424	843599	9.163
07 2308369-002AMSD	0	0	407007	11.383	655491	17.431	906522	9.163
08 2308369-003A	0	0	308010	11.383	455877	17.424	826653	9.167
09 2308369-005A	0	0	300438	11.383	465684	17.431	810594	9.167
10 2308369-006A	0	0	331698	11.383	497096	17.431	851688	9.163
11 2308374-001A	0	0	299674	11.383	486703	17.424	806124	9.167
12 2308375-001A	0	0	298419	11.383	494066	17.424	811821	9.167
13 2308355-001A	0	0	330937	11.383	685678	17.431	860232	9.167

IS1 (14DCBZ) = 1,4-Dichlorobenzene-d4

IS3 Chrysene-d12 = Chrysene-d12

IS2 Acenaphthene-d10 = Acenaphthene-d10

IS4 Naphthalene-d8 = Naphthalene-d8

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-14 230831A CCV Name: CCV-41343
 Run No: 86264 CCV SeqNo: 1800248
 Lab File ID (Standard): 083003.D Date Analyzed: 8/30/2023
 Instrument ID: GC-14 Time Analyzed: 16:53
 GC Column: ID (mm): Length (M):

	S5 Perylene-d12		S6 Phenanthrene-d10					
	AREA #	RT #	AREA #	RT #				
12 HOUR STD	897807	19.805	829448	13.248				
UPPER LIMIT	1795614	20.305	1658896	13.748				
LOWER LIMIT	448904	19.305	414724	12.748				
SAMPLE NO.								
01 MB-41343	538584	19.801	536055	13.248				
02 LCS-41343	711221	19.801	632779	13.248				
03 2308357-001A	778364	19.801	619482	13.248				
04 2308369-001A	691211	19.796	606906	13.248				
05 2308369-002A	662719	19.801	608676	13.255				
06 2308369-002AMS	753136	19.796	656885	13.248				
07 2308369-002AMSD	788719	19.801	691995	13.248				
08 2308369-003A	589896	19.801	572985	13.255				
09 2308369-005A	600936	19.801	574659	13.255				
10 2308369-006A	635557	19.801	631465	13.248				
11 2308374-001A	647834	19.801	578877	13.255				
12 2308375-001A	656303	19.801	583554	13.255				
13 2308355-001A	678314	19.805	664918	13.255				

IS5 Perylene-d12 = Perylene-d12

IS6 Phenanthrene-d10 = Phenanthrene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

DATA SET for Review - Deliverable Requirements

Volatile Organic Compounds by EPA Method 8260D

Fremont Analytical Work Order No. 2308369

GeoEngineers

Project Name: S Jackson Street

Project Number: 24504-001-01

This data set contains the following:

- Analytical Sequence Summary
- Calibration Information
- Tune Information
- Internal Standards Report

Data Directory: D:\GC-27\DATA\082423\

SampleName	MiscInfo	Vial	Multiplier	Injection Time		
1) 082440.D No data found	8260B-0206-1.M		0.000	N/A		
2) 082337.D GX ICV	8260B-0206-1.M O-VOC-W	20	1.000	24 Aug 2023	08:30	am
3) 082338.D VOC W CCV	8260B-0206-1.M O-VOC-W	21	1.000	24 Aug 2023	09:00	am
4) 082339.D VOC S CCV	8260B-0206-1.M O-VOC-W	22	1.000	24 Aug 2023	09:31	am
5) 082340.D R	8260B-0206-1.M O-VOC-W		1.000	24 Aug 2023	09:59	am
6) 082346.D MB-41304	8260B-0206-1.M O-VOC-W	26	1.000	24 Aug 2023	02:00	pm
7) 082347.D 2308310-001A	8260B-0206-1.M O-VOC-W	27	1.000	24 Aug 2023	02:31	pm
8) 082348.D 2308310-002A	8260B-0206-1.M O-VOC-W	28	1.000	24 Aug 2023	03:01	pm
9) 082401.D R	8260B-0206-1.M O-VOC-W		1.000	24 Aug 2023	04:31	pm
10) 082402.D R	8260B-0206-1.M O-VOC-W		1.000	24 Aug 2023	05:00	pm
11) 082403.D 2308255-002A	8260B-0206-1.M O-VOC-W	29	1.000	24 Aug 2023	05:30	pm
12) 082404.D 2308255-012A	8260B-0206-1.M O-VOC-W	30	1.000	24 Aug 2023	06:01	pm
13) 082405.D 2308255-014A	8260B-0206-1.M O-VOC-W	31	1.000	24 Aug 2023	06:31	pm
14) 082406.D 2308313-001A	8260B-0206-1.M O-VOC-W	32	1.000	24 Aug 2023	07:01	pm
15) 082407.D 2308313-001ADUP	8260B-0206-1.M O-VOC-W	33	1.000	24 Aug 2023	07:31	pm
16) 082408.D 2308317-001A	8260B-0206-1.M O-VOC-W	34	1.000	24 Aug 2023	08:01	pm
17) 082409.D R	8260B-0206-1.M O-VOC-W		1.000	24 Aug 2023	08:30	pm
18) 082410.D VOC-W B	8260B-0206-1.M O-VOC-W	35	1.000	24 Aug 2023	09:00	pm
19) 082411.D GX-B	8260B-0206-1.M O-VOC-W	36	1.000	24 Aug 2023	09:30	pm
20) 082412.D R	8260B-0206-1.M O-VOC-W		1.000	24 Aug 2023	09:59	pm
21) 082413.D 2308313-002A	8260B-0206-1.M O-VOC-W	37	1.000	24 Aug 2023	10:29	pm

22)	082414.D		8260B-0206-1.M						
2308320-002A		O-VOC-W		38	1.000	24 Aug 2023	10:59	pm	
23)	082415.D		8260B-0206-1.M						
2308320-001A		O-VOC-W		39	1.000	24 Aug 2023	11:29	pm	
24)	082416.D		8260B-0206-1.M						
2308313-002AMS GX		O-VOC-W		40	1.000	24 Aug 2023	11:59	pm	
25)	082417.D		8260B-0206-1.M						
2308317-001AMS VOC		O-VOC-W		41	1.000	25 Aug 2023	12:30	am	
26)	082418.D		8260B-0206-1.M						
R		O-VOC-W			1.000	25 Aug 2023	12:58	am	
27)	082419.D		8260B-0206-1.M						
VOC-W C		O-VOC-W		42	1.000	25 Aug 2023	01:28	am	
28)	082420.D		8260B-0206-1.M						
GX-C		O-VOC-W		43	1.000	25 Aug 2023	01:59	am	
29)	082421.D		8260B-0206-1.M						
R		O-VOC-W			1.000	25 Aug 2023	02:27	am	
30)	082422.D		8260B-0206-1.M						
R		O-VOC-W			1.000	25 Aug 2023	02:56	am	
31)	082423.D		8260B-0206-1.M						
R		O-VOC-W			1.000	25 Aug 2023	03:25	am	
32)	082424.D		8260B-0206-1.M						
R		O-VOC-W			1.000	25 Aug 2023	03:54	am	
33)	082425.D		8260B-0206-1.M						
VOC-S ICAL1		O-VOC-S		44	1.000	25 Aug 2023	04:24	am	
34)	082426.D		8260B-0206-1.M						
VOC-S ICAL2		O-VOC-S		45	1.000	25 Aug 2023	04:54	am	
35)	082427.D		8260B-0206-1.M						
VOC-S ICAL3		O-VOC-S		46	1.000	25 Aug 2023	05:24	am	
36)	082428.D		8260B-0206-1.M						
VOC-S ICAL4		O-VOC-S		47	1.000	25 Aug 2023	05:54	am	
37)	082429.D		8260B-0206-1.M						
VOC-S ICAL5		O-VOC-S		48	1.000	25 Aug 2023	06:25	am	
38)	082430.D		8260B-0206-1.M						
VOC-S ICAL6		O-VOC-S		49	1.000	25 Aug 2023	06:55	am	
39)	082431.D		8260B-0206-1.M						
VOC-S ICAL7		O-VOC-S		50	1.000	25 Aug 2023	07:25	am	
40)	082432.D		8260B-0206-1.M						
VOC-S ICAL8		O-VOC-S		51	1.000	25 Aug 2023	07:55	am	
41)	082433.D		8260B-0206-1.M						
R		O-VOC-W			1.000	25 Aug 2023	08:24	am	
42)	082434.D		8260B-0206-1.M						
R		O-VOC-W			1.000	25 Aug 2023	08:53	am	
43)	082435.D		8260B-0206-1.M						
ICB		O-VOC-S		52	1.000	25 Aug 2023	09:23	am	
44)	082436.D		8260B-0206-1.M						
ICV		O-VOC-S		53	1.000	25 Aug 2023	09:53	am	
45)	082437.D		8260B-0206-1.M						

GX	CCV A	O-VOC-GX-S	54	1.000	25 Aug 2023	10:23	am

46)	082438.D	8260B-0206-1.M					
R		O-VOC-S		1.000	25 Aug 2023	10:52	am

47)	082439.D	8260B-0206-1.M					
MB		O-VOC-S	55	1.000	25 Aug 2023	11:22	am

Data Directory: D:\GC-27\DATA\082823\

SampleName	MiscInfo	Vial	Multiplier	Injection Time	
R 1) 082801.D	8260B-0206-1.M O-VOC-W		1.000	28 Aug 2023	09:04 am
VOC S CCV A 2) 082802.D	8260B-0206-1.M O-VOC-S	1	1.000	28 Aug 2023	09:34 am
VOC W CCV A 3) 082803.D	8260B-0206-1.M O-VOC-W	2	1.000	28 Aug 2023	10:04 am
GX CCV A 4) 082804.D	8260B-0206-1.M O-VOC-GX-S	3	1.000	28 Aug 2023	10:34 am
R 5) 082805.D	8260B-0206-1.M O-VOC-GX-S		1.000	28 Aug 2023	11:03 am
MB S 6) 082806.D	8260B-0206-1.M O-VOC-S	4	1.000	28 Aug 2023	11:33 am
2308255-018A 100X 7) 082807.D	8260B-0206-1.M O-VOC-W	5	1.000	28 Aug 2023	12:03 pm
2308255-024A 100X 8) 082808.D	8260B-0206-1.M O-VOC-W	6	1.000	28 Aug 2023	12:34 pm
2308284-001B 1000X 9) 082809.D	8260B-0206-1.M O-VOC-S	8	1.000	28 Aug 2023	01:04 pm
2308284-002B 1000X 10) 082810.D	8260B-0206-1.M O-VOC-S	9	1.000	28 Aug 2023	01:34 pm
R 11) 082811.D	8260B-0206-1.M O-VOC-S		1.000	28 Aug 2023	02:03 pm
2308369-004A 12) 082812.D	8260B-0206-1.M O-VOC-S	10	1.000	28 Aug 2023	02:55 pm
2308369-001A 13) 082813.D	8260B-0206-1.M O-VOC-S	11	1.000	28 Aug 2023	03:25 pm
2308369-001ADUP 14) 082814.D	8260B-0206-1.M O-VOC-S	12	1.000	28 Aug 2023	03:55 pm
2308369-002B 15) 082815.D	8260B-0206-1.M O-VOC-S	13	1.000	28 Aug 2023	04:27 pm
2308369-005B 16) 082816.D	8260B-0206-1.M O-VOC-S	14	1.000	28 Aug 2023	04:57 pm
2308369-006B 17) 082817.D	8260B-0206-1.M O-VOC-S	15	1.000	28 Aug 2023	05:27 pm
2308369-003B 10x 18) 082818.D	8260B-0206-1.M O-VOC-S	16	1.000	28 Aug 2023	05:57 pm
2308369-003B 19) 082819.D	8260B-0206-1.M O-VOC-S	17	1.000	28 Aug 2023	06:27 pm
R 20) 082820.D	8260B-0206-1.M O-VOC-S		1.000	28 Aug 2023	06:56 pm
R 21) 082821.D	8260B-0206-1.M O-VOC-S		1.000	28 Aug 2023	07:25 pm

22)	082822.D		8260B-0206-1.M						
2308369-002	BMS GX	O-VOC-S		18	1.000	28 Aug 2023	07:55	pm	
23)	082823.D		8260B-0206-1.M						
R		O-VOC-S			1.000	28 Aug 2023	08:23	pm	
24)	082824.D		8260B-0206-1.M						
VOC S CCV B		O-VOC-S		19	1.000	28 Aug 2023	08:54	pm	
25)	082825.D		8260B-0206-1.M						
GX CCV B		O-VOC-S		20	1.000	28 Aug 2023	09:24	pm	
26)	082826.D		8260B-0206-1.M						
R		O-VOC-S			1.000	28 Aug 2023	09:53	pm	
27)	082827.D		8260B-0206-1.M						
2308362-001	B	O-VOC-S		21	1.000	28 Aug 2023	10:23	pm	
28)	082828.D		8260B-0206-1.M						
2308362-001	BDUP	O-VOC-S		22	1.000	28 Aug 2023	10:53	pm	
29)	082829.D		8260B-0206-1.M						
2308362-002	B	O-VOC-S		23	1.000	28 Aug 2023	11:23	pm	
30)	082830.D		8260B-0206-1.M						
2308362-003	B	O-VOC-S		24	1.000	28 Aug 2023	11:53	pm	
31)	082831.D		8260B-0206-1.M						
2308362-004	B	O-VOC-S		25	1.000	29 Aug 2023	12:23	am	
32)	082832.D		8260B-0206-1.M						
2308362-005	B	O-VOC-S		26	1.000	29 Aug 2023	12:53	am	
33)	082833.D		8260B-0206-1.M						
2308362-006	B	O-VOC-S		27	1.000	29 Aug 2023	01:24	am	
34)	082834.D		8260B-0206-1.M						
2308362-008	B	O-VOC-S		28	1.000	29 Aug 2023	01:54	am	
35)	082835.D		8260B-0206-1.M						
2308362-007	B 10X	O-VOC-S		29	1.000	29 Aug 2023	02:24	am	
36)	082836.D		8260B-0206-1.M						
2308362-007	B	O-VOC-S		30	1.000	29 Aug 2023	02:54	am	
37)	082837.D		8260B-0206-1.M						
R		O-VOC-S			1.000	29 Aug 2023	03:23	am	
38)	082838.D		8260B-0206-1.M						
R		O-VOC-S			1.000	29 Aug 2023	03:51	am	
39)	082839.D		8260B-0206-1.M						
2308362-002	BMS VOC	O-VOC-S		31	1.000	29 Aug 2023	04:22	am	
40)	082840.D		8260B-0206-1.M						
R		O-VOC-S			1.000	29 Aug 2023	04:50	am	
41)	082841.D		8260B-0206-1.M						
VOC S CCV C		O-VOC-S		32	1.000	29 Aug 2023	05:20	am	
42)	082842.D		8260B-0206-1.M						
GX CCV C		O-VOC-S		33	1.000	29 Aug 2023	05:51	am	
43)	082843.D		8260B-0206-1.M						
R		O-VOC-S			1.000	29 Aug 2023	06:19	am	
44)	082844.D		8260B-0206-1.M						
R		O-VOC-S			1.000	29 Aug 2023	06:48	am	
45)	082845.D		8260B-0206-1.M						

		O-VOC-S		1.000	29 Aug 2023	07:17 am
46)	082846.D		8260B-0206-1.M			
R		O-VOC-S		1.000	29 Aug 2023	07:46 am
47)	082847.D		8260B-0206-1.M			
R		O-VOC-S		1.000	29 Aug 2023	08:15 am
48)	082848.D		8260B-0206-1.M			
R		O-VOC-S		1.000	29 Aug 2023	08:50 am
49)	082849.D		8260B-0206-1.M			
	2308362-007B 100X	O-VOC-S	34	1.000	29 Aug 2023	09:21 am
50)	082850.D		8260B-0206-1.M			
R		O-VOC-S		1.000	29 Aug 2023	09:49 am
51)	082851.D		8260B-0206-1.M			
GX	CCV D	O-VOC-GX-S	35	1.000	29 Aug 2023	10:19 am
52)	082852.D		8260B-0206-1.M			
R		O-VOC-S		1.000	29 Aug 2023	10:48 am



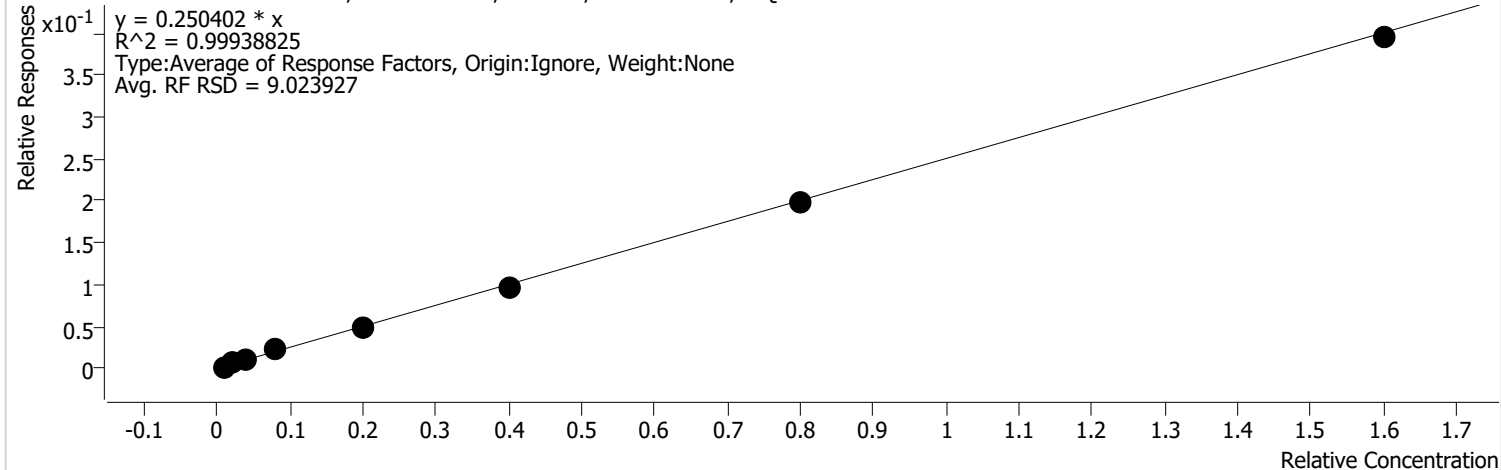
Calibration

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin		
Analysis Time	8/25/2023 11:50 AM	Analyst Name	FA\GC27
Report Time	8/25/2023 11:58:28 AM	Reporter Name	FA\GC27
Last Calib Update	8/25/2023 8:36 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Dichlorodifluoromethane %RSE = 9.0

Dichlorodifluoromethane - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



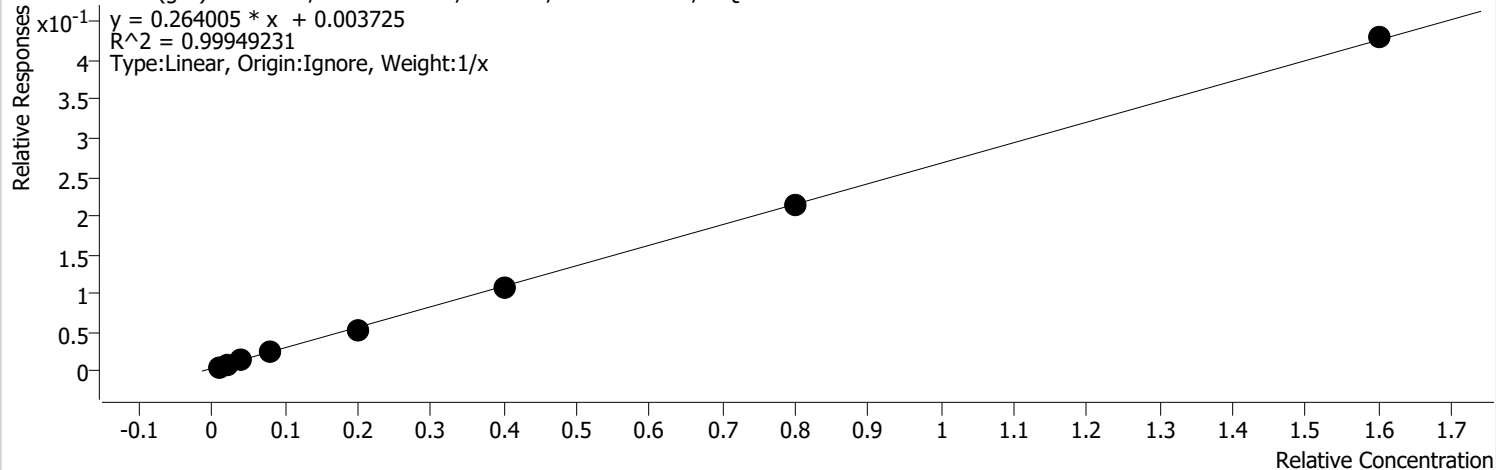
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	3554	0.2000	0.2137	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	11614	0.5000	0.2826	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	21586	1.0000	0.2574	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	47941	2.0000	0.2794	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	104727	5.0000	0.2379	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	213551	10.0000	0.2398	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	449195	20.0000	0.2458	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	920715	40.0000	0.2466	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin	Analyst Name	FA\GC27
Analysis Time	8/25/2023 11:50 AM	Reporter Name	FA\GC27
Report Time	8/25/2023 11:58:29 AM	Batch State	Processed
Last Calib Update	8/25/2023 8:36 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Chloromethane (gas) %RSE = 6.1

Chloromethane (gas) - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

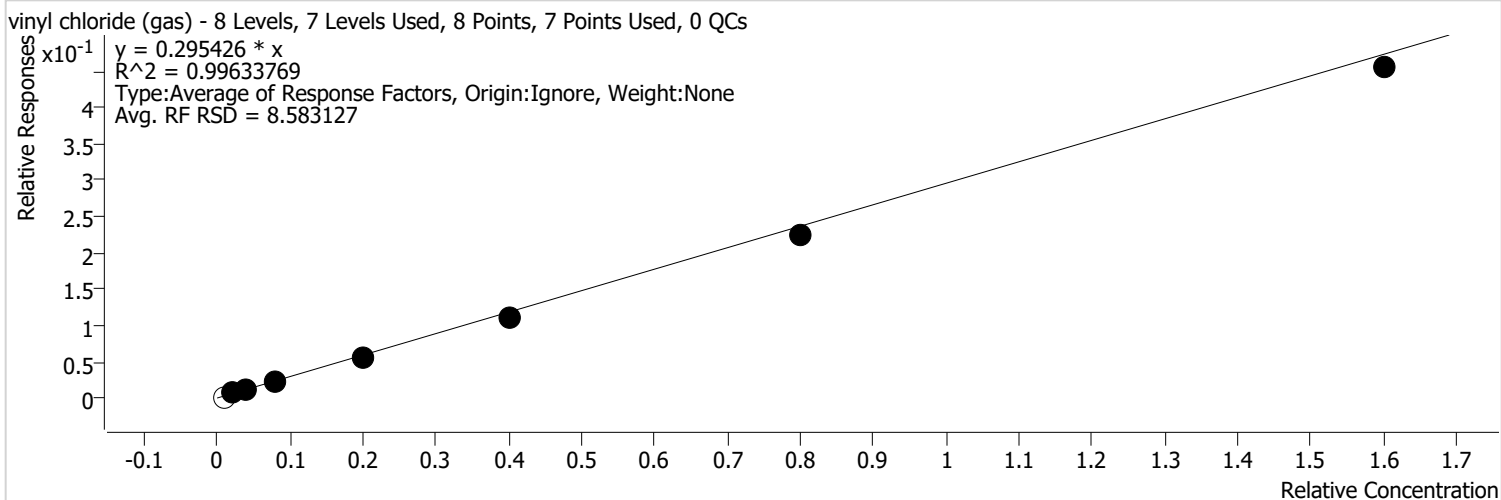


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	11707	0.2000	0.7038	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	19033	0.5000	0.4631	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	30831	1.0000	0.3676	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	56727	2.0000	0.3306	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	118527	5.0000	0.2693	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	237925	10.0000	0.2672	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	490965	20.0000	0.2687	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	1001431	40.0000	0.2682	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin		
Analysis Time	8/25/2023 11:50 AM	Analyst Name	FA\GC27
Report Time	8/25/2023 11:58:29 AM	Reporter Name	FA\GC27
Last Calib Update	8/25/2023 8:36 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

vinyl chloride (gas) %RSE = 8.6



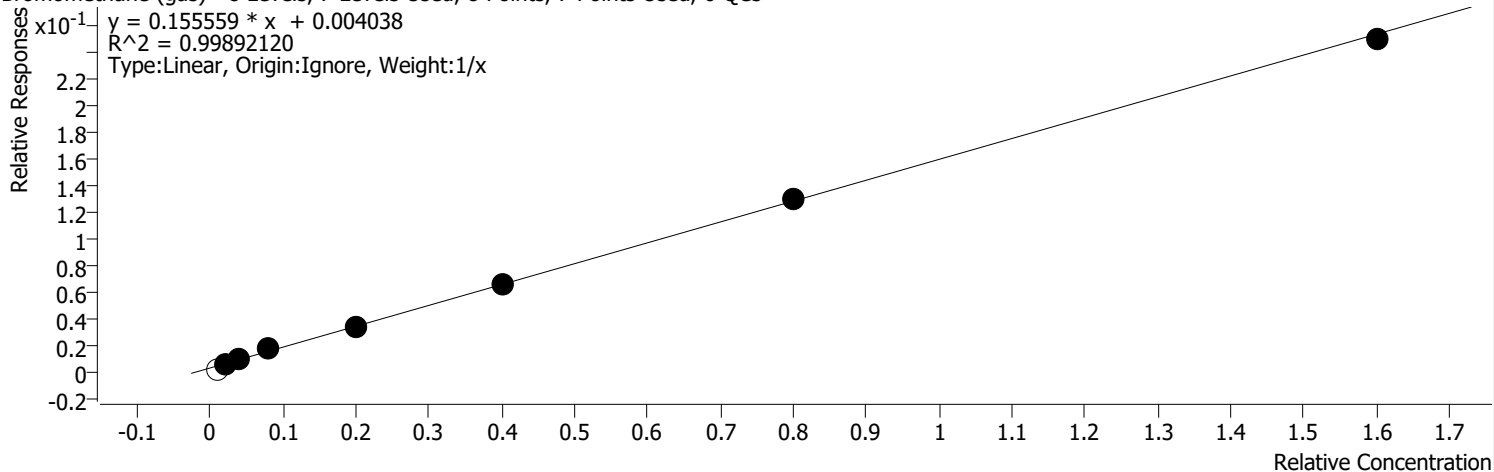
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1		3622	0.2000	0.2178	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	13848	0.5000	0.3369	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	26909	1.0000	0.3209	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	51747	2.0000	0.3016	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	118604	5.0000	0.2695	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	245195	10.0000	0.2754	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	511366	20.0000	0.2799	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	1060089	40.0000	0.2839	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin	Analyst Name	FA\GC27
Analysis Time	8/25/2023 11:50 AM	Reporter Name	FA\GC27
Report Time	8/25/2023 11:58:29 AM	Batch State	Processed
Last Calib Update	8/25/2023 8:36 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Bromomethane (gas) %RSE = 9.4

Bromomethane (gas) - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 0 QCs

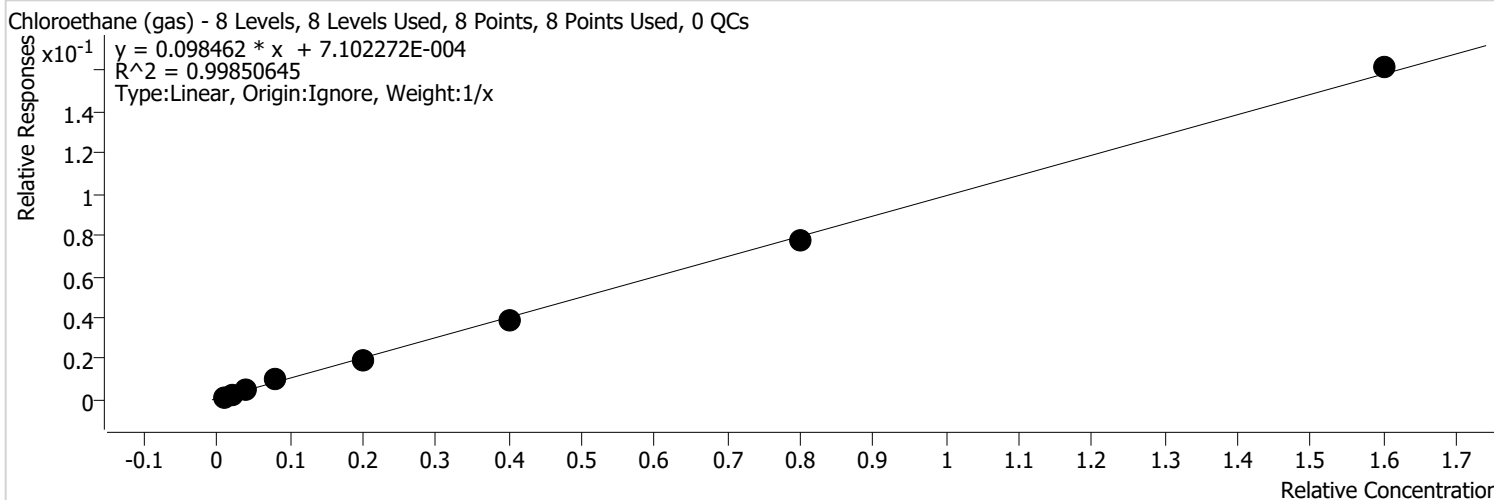


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1		7143	0.2000	0.4295	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	13742	0.5000	0.3343	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	21393	1.0000	0.2551	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	39205	2.0000	0.2285	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	77248	5.0000	0.1755	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	149817	10.0000	0.1683	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	297746	20.0000	0.1629	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	580560	40.0000	0.1555	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin	Analyst Name	FA\GC27
Analysis Time	8/25/2023 11:50 AM	Reporter Name	FA\GC27
Report Time	8/25/2023 11:58:29 AM	Batch State	Processed
Last Calib Update	8/25/2023 8:36 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Chloroethane (gas) %RSE = 7.8



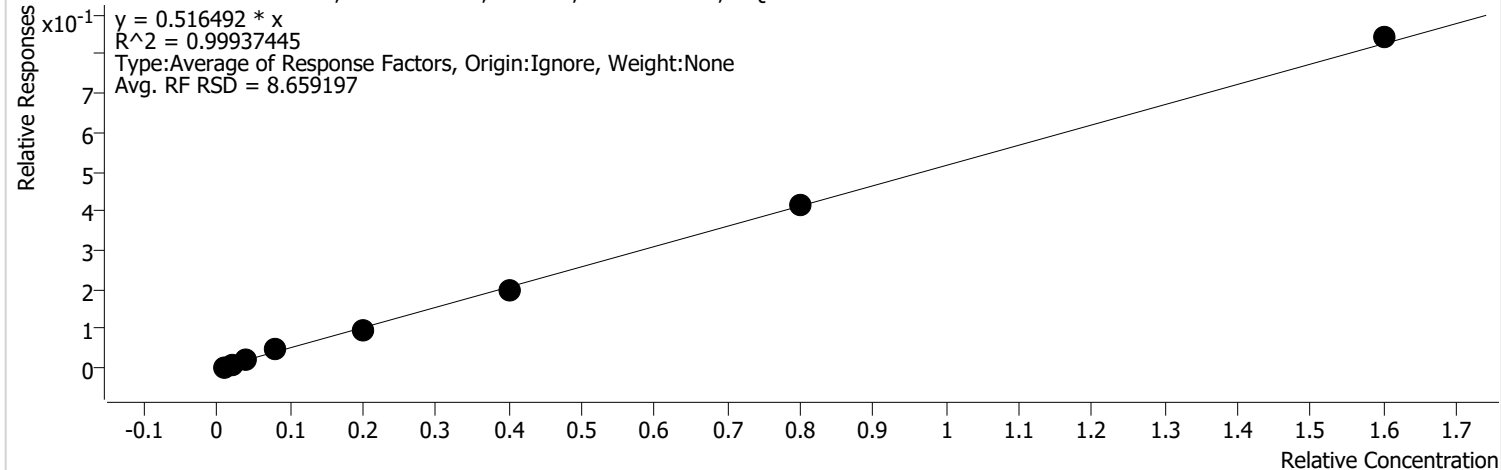
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	3120	0.2000	0.1876	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	5366	0.5000	0.1306	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	9231	1.0000	0.1101	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	21244	2.0000	0.1238	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	43463	5.0000	0.0988	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	86409	10.0000	0.0970	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	176592	20.0000	0.0966	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	376488	40.0000	0.1008	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin		
Analysis Time	8/25/2023 11:50 AM	Analyst Name	FA\GC27
Report Time	8/25/2023 11:58:29 AM	Reporter Name	FA\GC27
Last Calib Update	8/25/2023 8:36 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Trichlorofluoromethane %RSE = 8.7

Trichlorofluoromethane - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



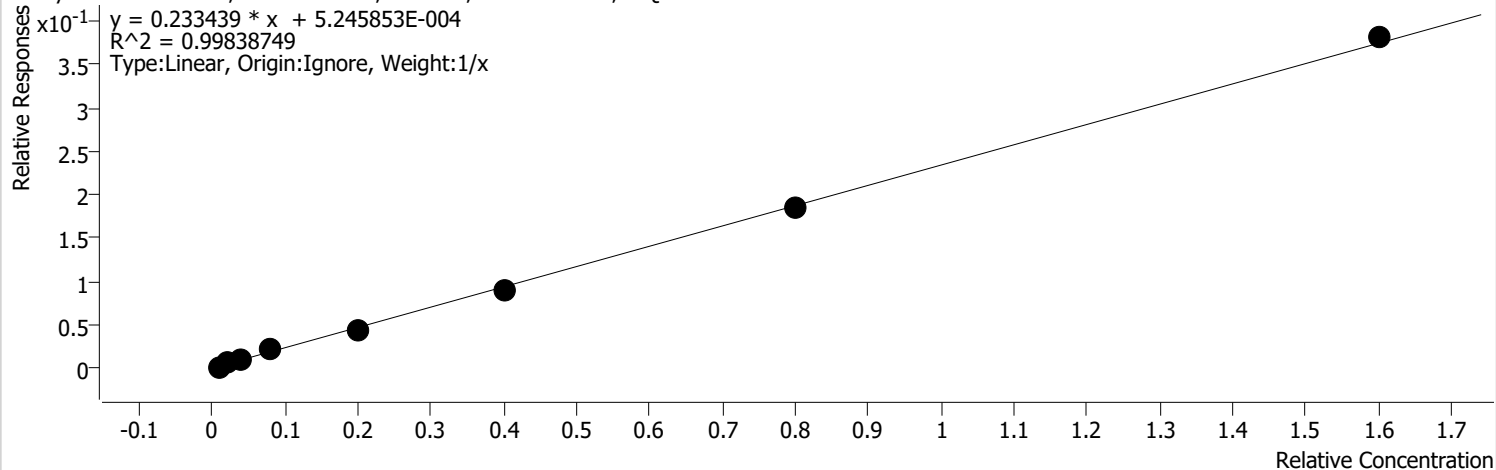
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	7164	0.2000	0.4307	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	22049	0.5000	0.5365	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	47068	1.0000	0.5613	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	98283	2.0000	0.5727	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	218444	5.0000	0.4963	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	438636	10.0000	0.4926	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	942235	20.0000	0.5157	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	1964629	40.0000	0.5262	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin	Analyst Name	FA\GC27
Analysis Time	8/25/2023 11:50 AM	Reporter Name	FA\GC27
Report Time	8/25/2023 11:58:29 AM	Batch State	Processed
Last Calib Update	8/25/2023 8:36 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Diethyl ether %RSE = 13.5

Diethyl ether - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

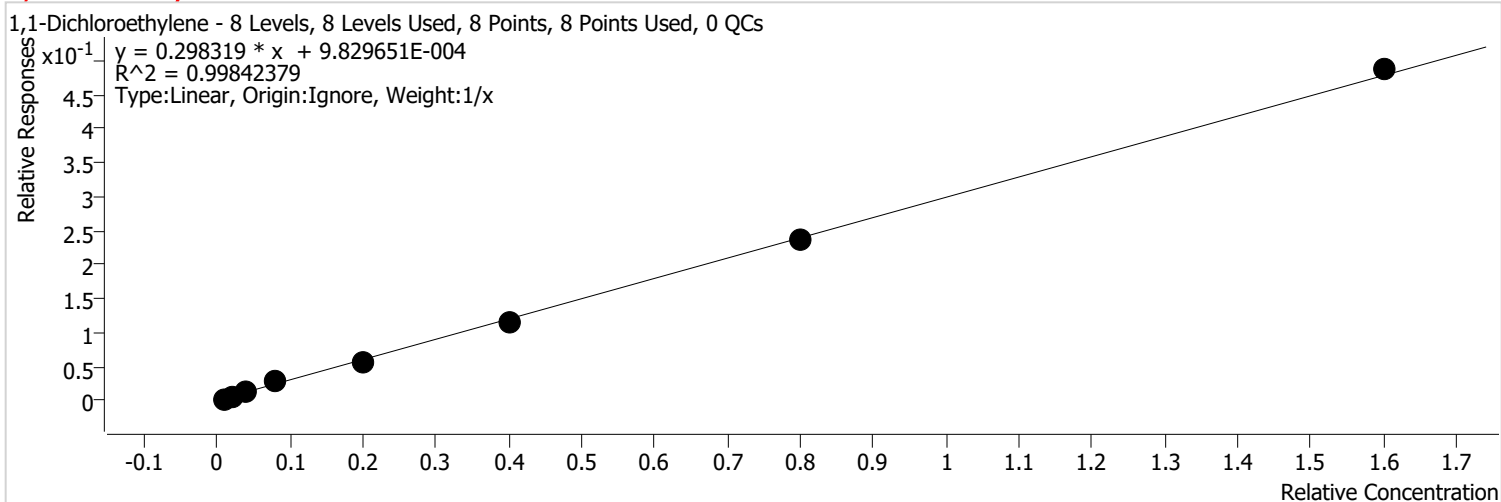


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	4060	0.2000	0.2441	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	12367	0.5000	0.3009	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	22227	1.0000	0.2650	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	44939	2.0000	0.2619	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	95952	5.0000	0.2180	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	199145	10.0000	0.2236	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	425028	20.0000	0.2326	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	887654	40.0000	0.2377	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin		
Analysis Time	8/25/2023 11:50 AM	Analyst Name	FA\GC27
Report Time	8/25/2023 11:58:29 AM	Reporter Name	FA\GC27
Last Calib Update	8/25/2023 8:36 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,1-Dichloroethylene %RSE = 10.7



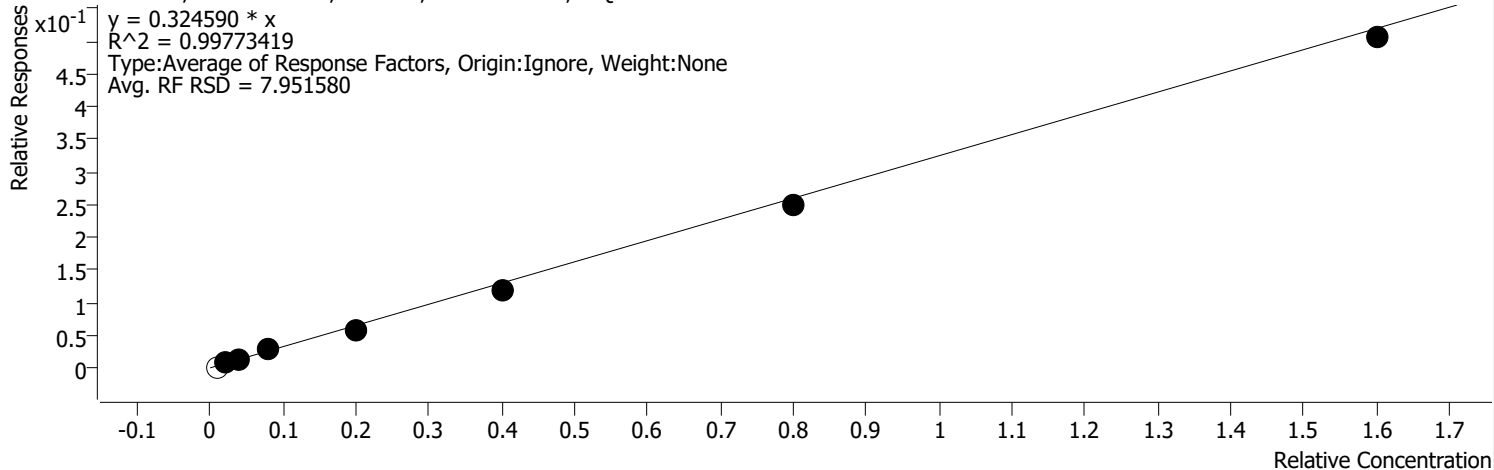
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	6186	0.2000	0.3719	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	14260	0.5000	0.3469	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	30518	1.0000	0.3639	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	60004	2.0000	0.3497	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	125549	5.0000	0.2853	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	257054	10.0000	0.2887	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	537224	20.0000	0.2940	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	1135946	40.0000	0.3042	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin		
Analysis Time	8/25/2023 11:50 AM	Analyst Name	FA\GC27
Report Time	8/25/2023 11:58:29 AM	Reporter Name	FA\GC27
Last Calib Update	8/25/2023 8:36 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

CFC 113 %RSE = 8.0

CFC 113 - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 0 QCs



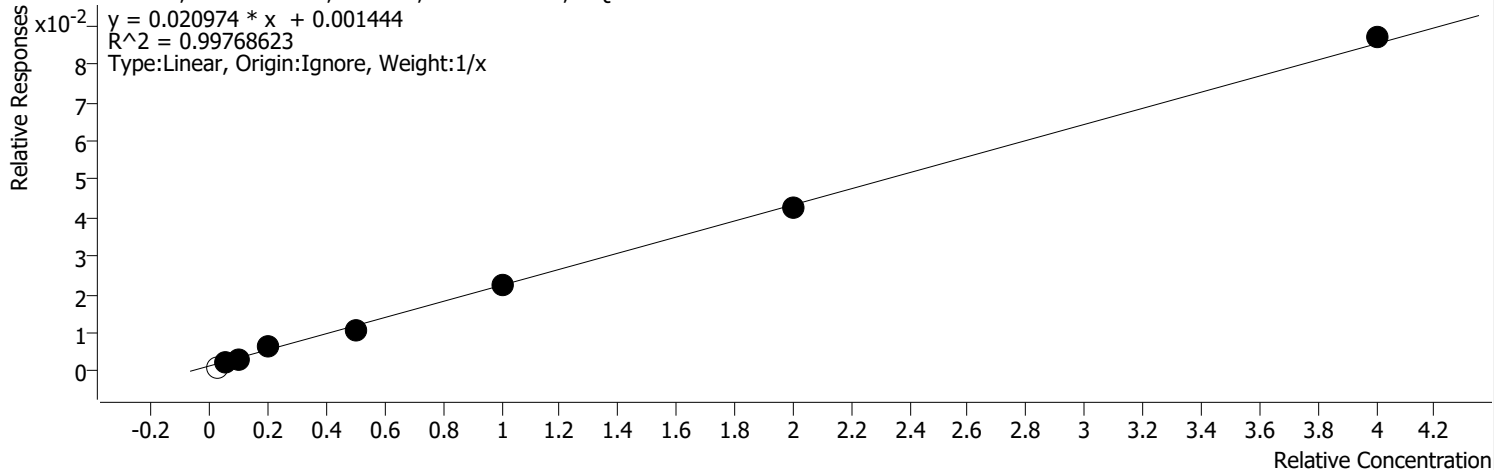
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1		3493	0.2000	0.2100	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	14105	0.5000	0.3432	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	28808	1.0000	0.3435	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	62324	2.0000	0.3632	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	130764	5.0000	0.2971	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	262923	10.0000	0.2953	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	574055	20.0000	0.3142	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	1178683	40.0000	0.3157	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin	Analyst Name	FA\GC27
Analysis Time	8/25/2023 11:50 AM	Reporter Name	FA\GC27
Report Time	8/25/2023 11:58:29 AM	Batch State	Processed
Last Calib Update	8/25/2023 8:36 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Acetone %RSE = 11.9

Acetone - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 0 QCs



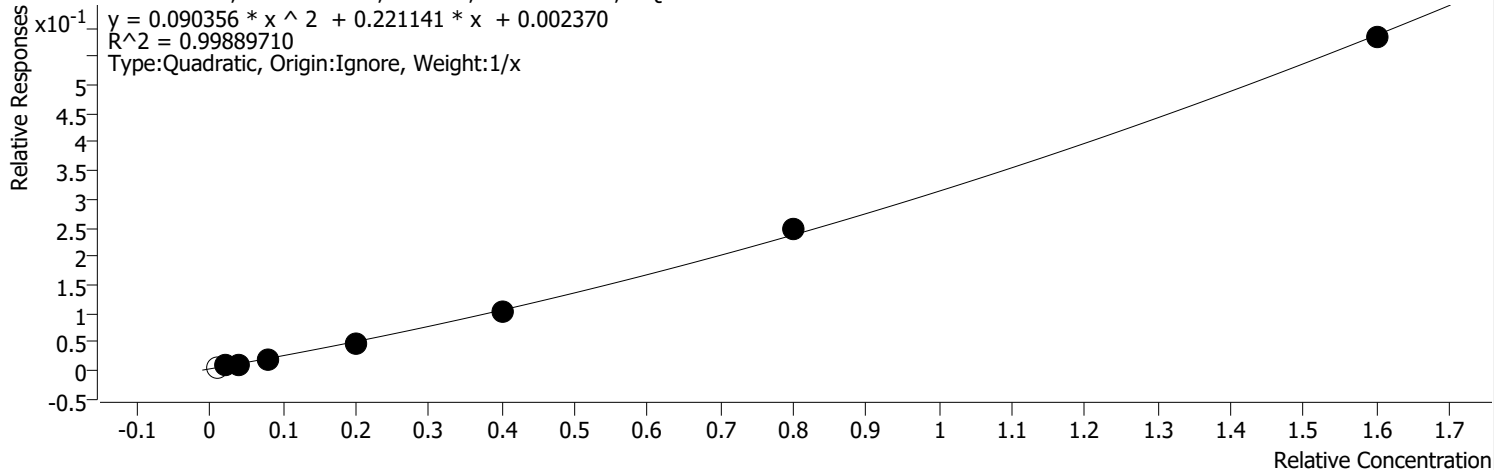
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1		2441	0.5000	0.0587	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	5325	1.2500	0.0518	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	6720	2.5000	0.0321	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	13585	5.0000	0.0317	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	24154	12.5000	0.0220	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	49818	25.0000	0.0224	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	96746	50.0000	0.0212	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	202815	100.0000	0.0217	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin	Analyst Name	FA\GC27
Analysis Time	8/25/2023 11:50 AM	Reporter Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Batch State	Processed
Last Calib Update	8/25/2023 8:36 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Iodomethane %RSE = 11.7

Iodomethane - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 0 QCs



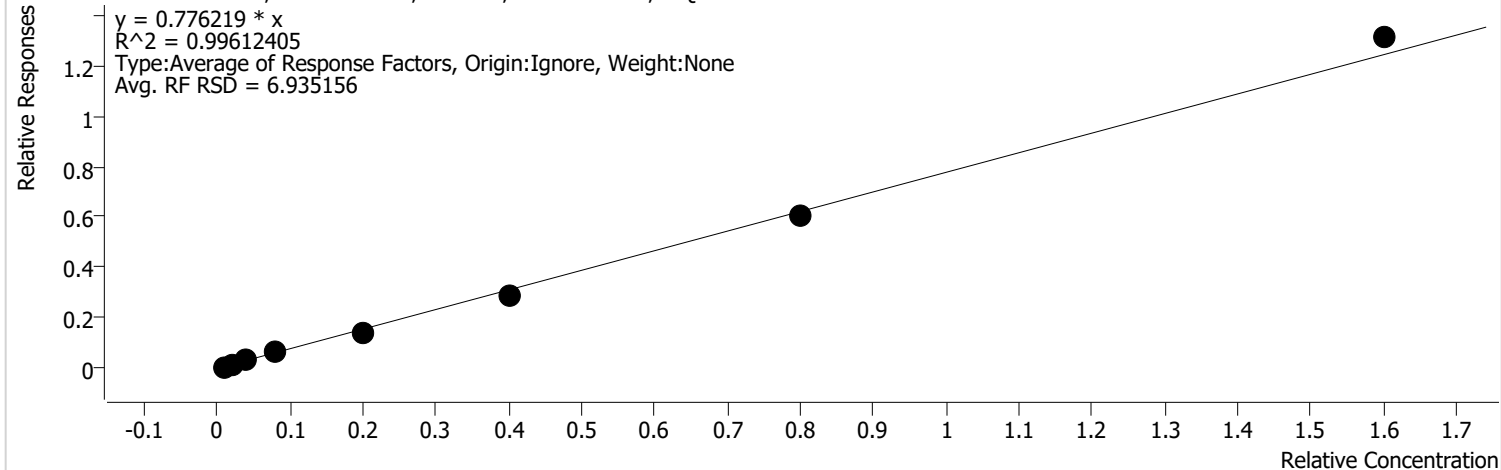
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1		12321	0.2000	0.7408	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	15776	0.5000	0.3838	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	21890	1.0000	0.2610	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	43474	2.0000	0.2533	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	101368	5.0000	0.2303	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	229807	10.0000	0.2581	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	567074	20.0000	0.3103	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	1360402	40.0000	0.3644	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin		
Analysis Time	8/25/2023 11:50 AM	Analyst Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Reporter Name	FA\GC27
Last Calib Update	8/25/2023 8:36 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Carbon disulfide %RSE = 6.9

Carbon disulfide - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



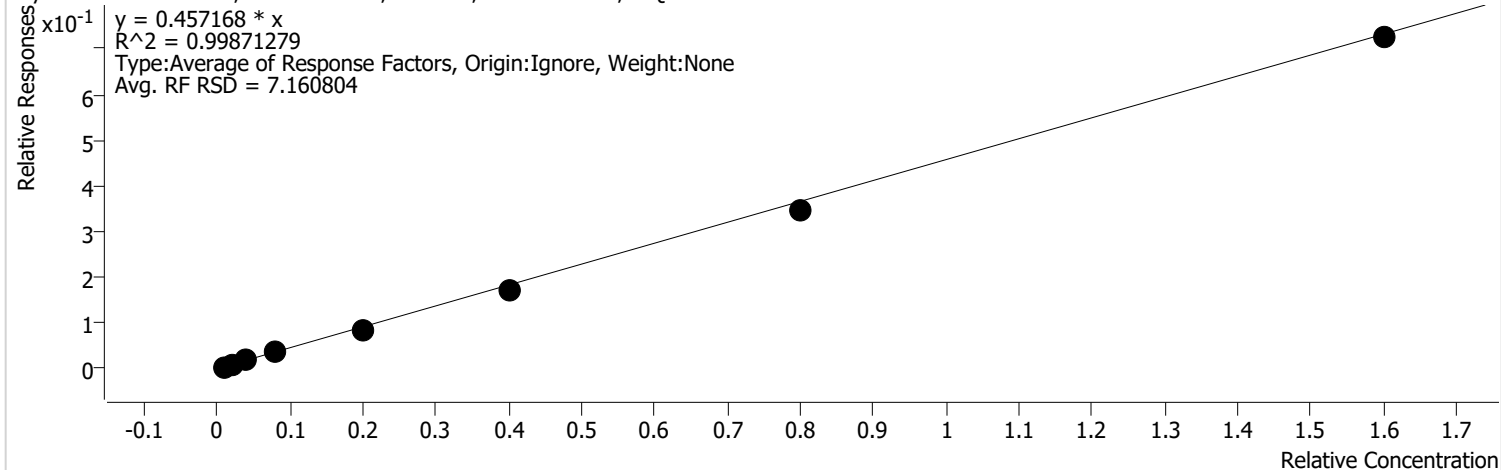
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	12586	0.2000	0.7567	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	34552	0.5000	0.8406	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	67913	1.0000	0.8098	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	140278	2.0000	0.8175	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	302376	5.0000	0.6870	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	643878	10.0000	0.7231	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	1382850	20.0000	0.7568	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	3055000	40.0000	0.8182	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin	Analyst Name	FA\GC27
Analysis Time	8/25/2023 11:50 AM	Reporter Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Batch State	Processed
Last Calib Update	8/25/2023 8:36 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Allyl Chloride %RSE = 7.2

Allyl Chloride - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

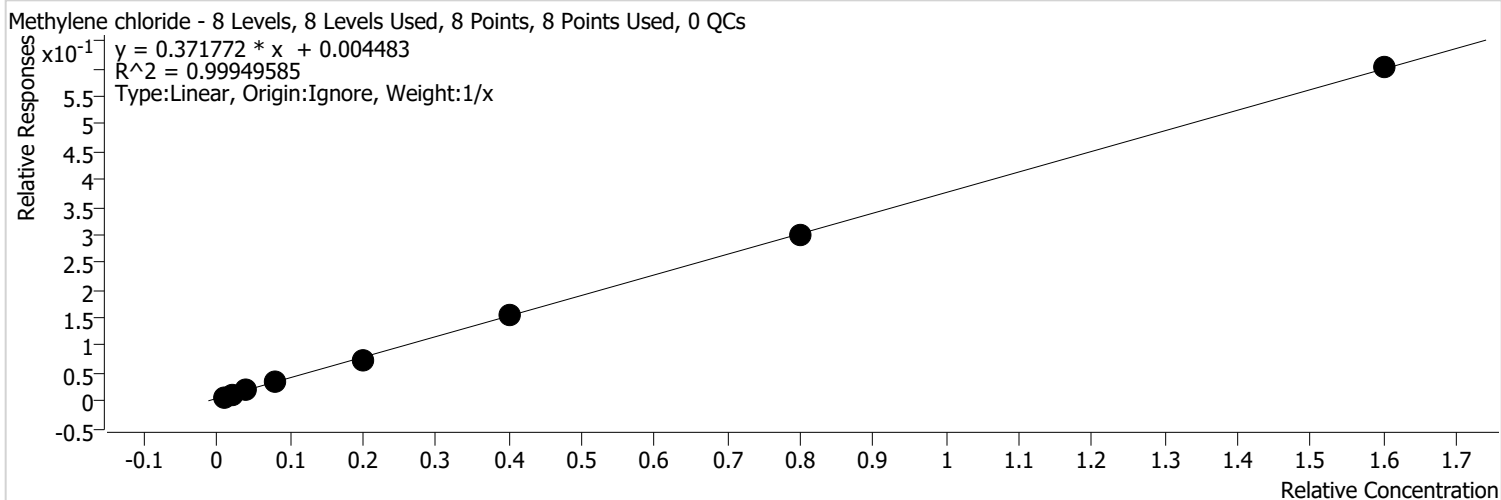


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	8243	0.2000	0.4956	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	20725	0.5000	0.5042	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	38065	1.0000	0.4539	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	81700	2.0000	0.4761	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	180962	5.0000	0.4112	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	380888	10.0000	0.4278	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	797213	20.0000	0.4363	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	1688710	40.0000	0.4523	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin		
Analysis Time	8/25/2023 11:50 AM	Analyst Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Reporter Name	FA\GC27
Last Calib Update	8/25/2023 8:36 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Methylene chloride %RSE = 4.5



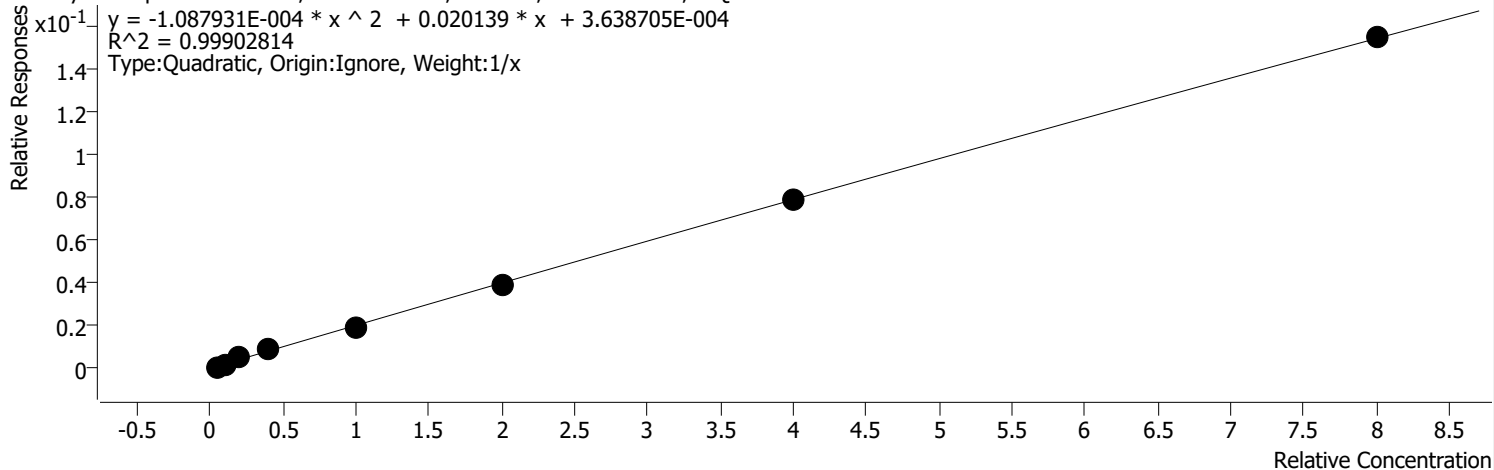
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	15212	0.2000	0.9146	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	24756	0.5000	0.6023	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	42241	1.0000	0.5037	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	75729	2.0000	0.4413	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	161296	5.0000	0.3665	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	345123	10.0000	0.3876	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	688449	20.0000	0.3768	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	1403927	40.0000	0.3760	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin	Analyst Name	FA\GC27
Analysis Time	8/25/2023 11:50 AM	Reporter Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Batch State	Processed
Last Calib Update	8/25/2023 8:36 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

2-Methyl-2-Propanol %RSE = 12.0

2-Methyl-2-Propanol - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

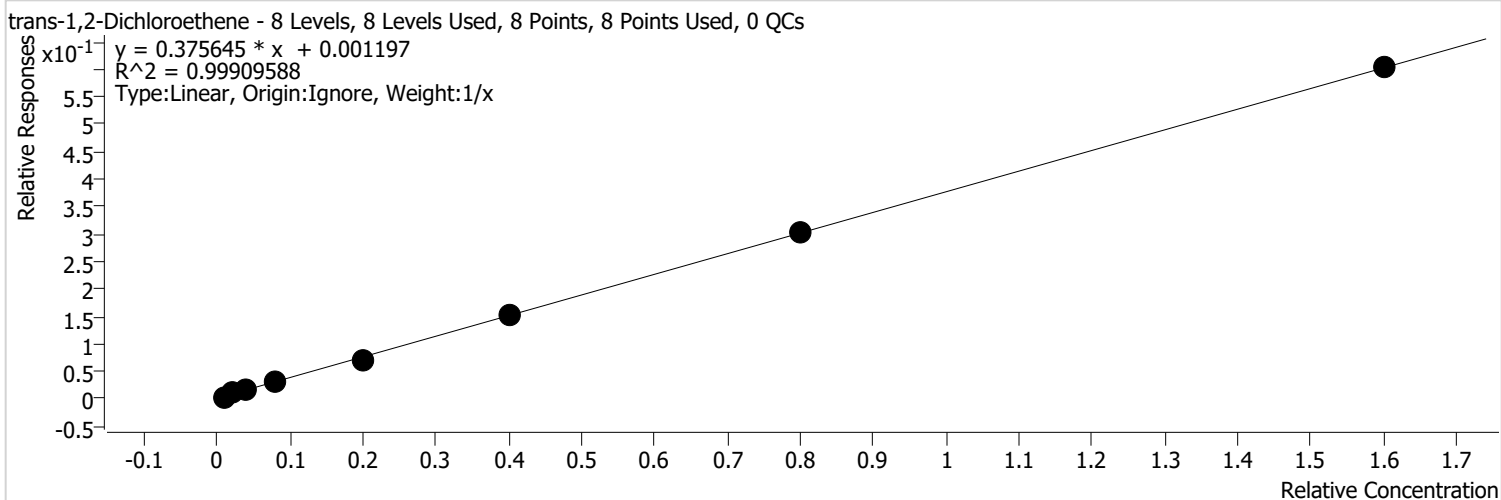


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	2143	1.0000	0.0258	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	4678	2.5000	0.0228	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	10585	5.0000	0.0252	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	19871	10.0000	0.0232	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	43567	25.0000	0.0198	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	87840	50.0000	0.0197	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	180193	100.0000	0.0197	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	361373	200.0000	0.0194	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin		
Analysis Time	8/25/2023 11:50 AM	Analyst Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Reporter Name	FA\GC27
Last Calib Update	8/25/2023 8:36 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

trans-1,2-Dichloroethene %RSE = 9.6



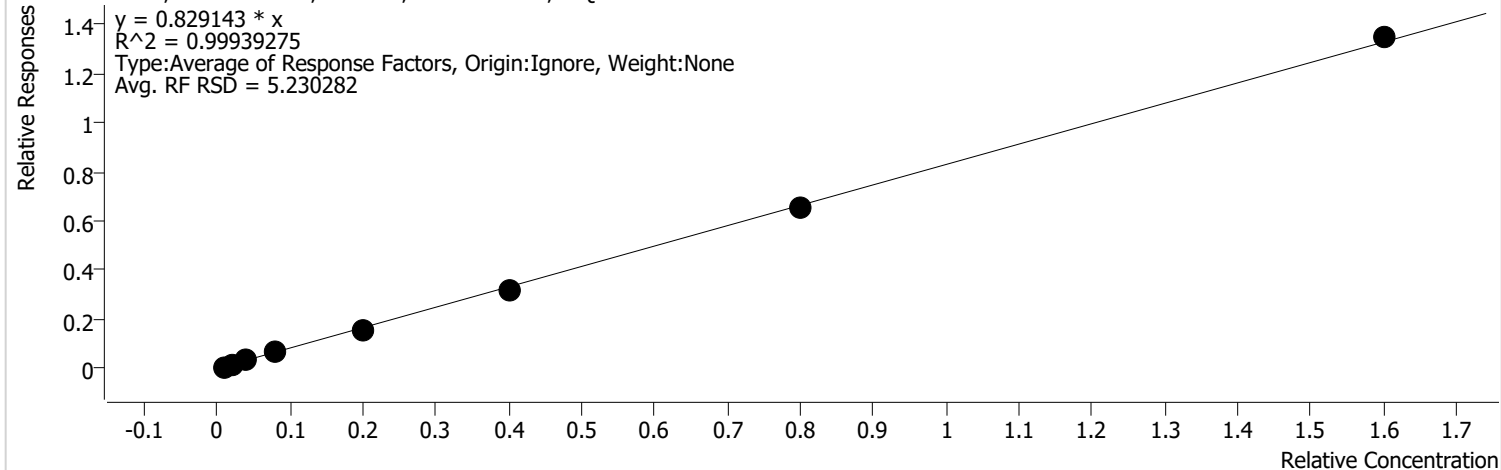
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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D:\GC-27\DATA\082423\082426.D	Calibration	2	x	19330	0.5000	0.4703	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	36467	1.0000	0.4349	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	71520	2.0000	0.4168	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	153582	5.0000	0.3490	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	339766	10.0000	0.3816	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	692843	20.0000	0.3792	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	1405961	40.0000	0.3766	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin		
Analysis Time	8/25/2023 11:50 AM	Analyst Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Reporter Name	FA\GC27
Last Calib Update	8/25/2023 8:36 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

MTBE %RSE = 5.2

MTBE - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



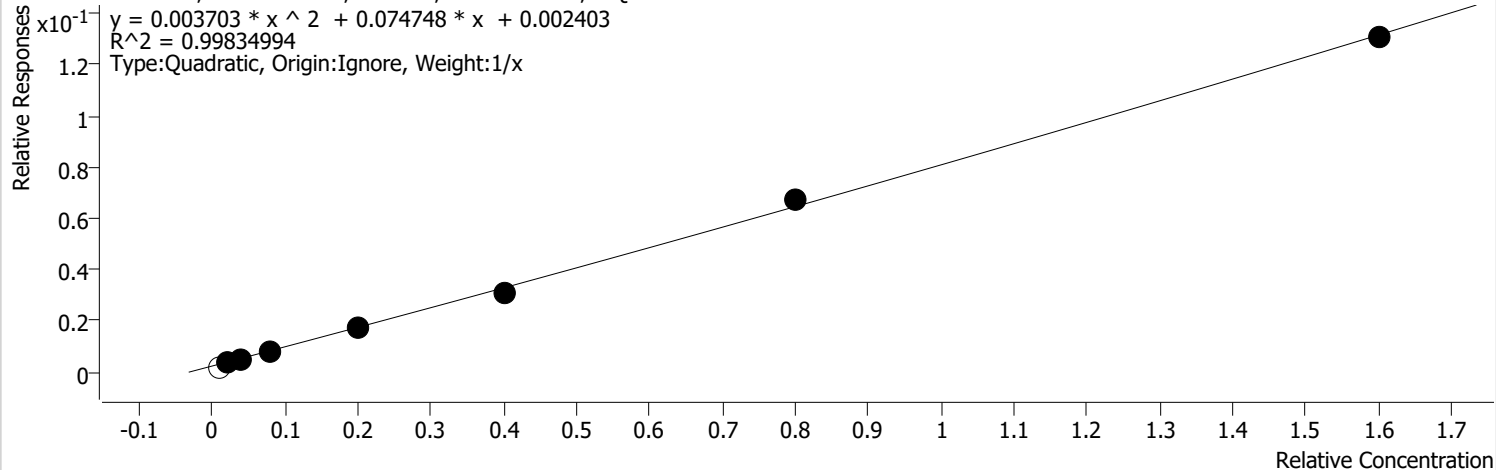
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	13698	0.2000	0.8235	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	37152	0.5000	0.9039	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	71067	1.0000	0.8474	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	146540	2.0000	0.8540	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	334152	5.0000	0.7592	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	706668	10.0000	0.7936	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	1482401	20.0000	0.8113	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	3137079	40.0000	0.8402	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin		
Analysis Time	8/25/2023 11:50 AM	Analyst Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Reporter Name	FA\GC27
Last Calib Update	8/25/2023 8:36 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

n-Hexane %RSE = 8.2

n-Hexane - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 0 QCs

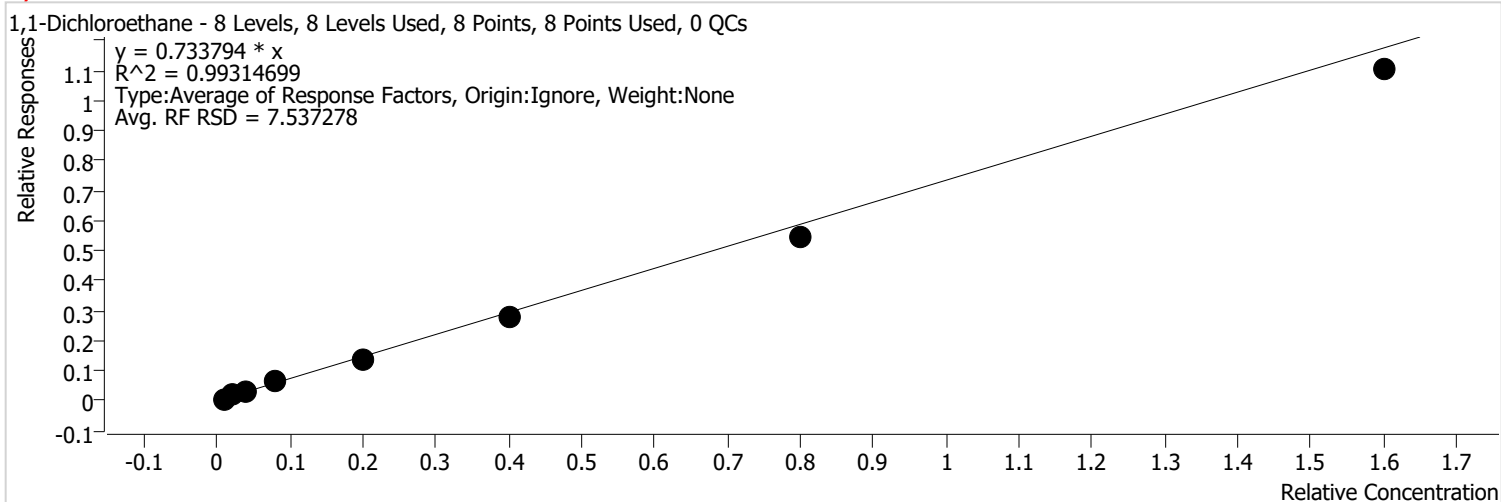


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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D:\GC-27\DATA\082423\082426.D	Calibration	2	x	8369	0.5000	0.2036	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	10931	1.0000	0.1304	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	17391	2.0000	0.1013	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	39222	5.0000	0.0891	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	68646	10.0000	0.0771	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	154582	20.0000	0.0846	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	304327	40.0000	0.0815	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin		
Analysis Time	8/25/2023 11:50 AM	Analyst Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Reporter Name	FA\GC27
Last Calib Update	8/25/2023 8:36 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,1-Dichloroethane %RSE = 7.5

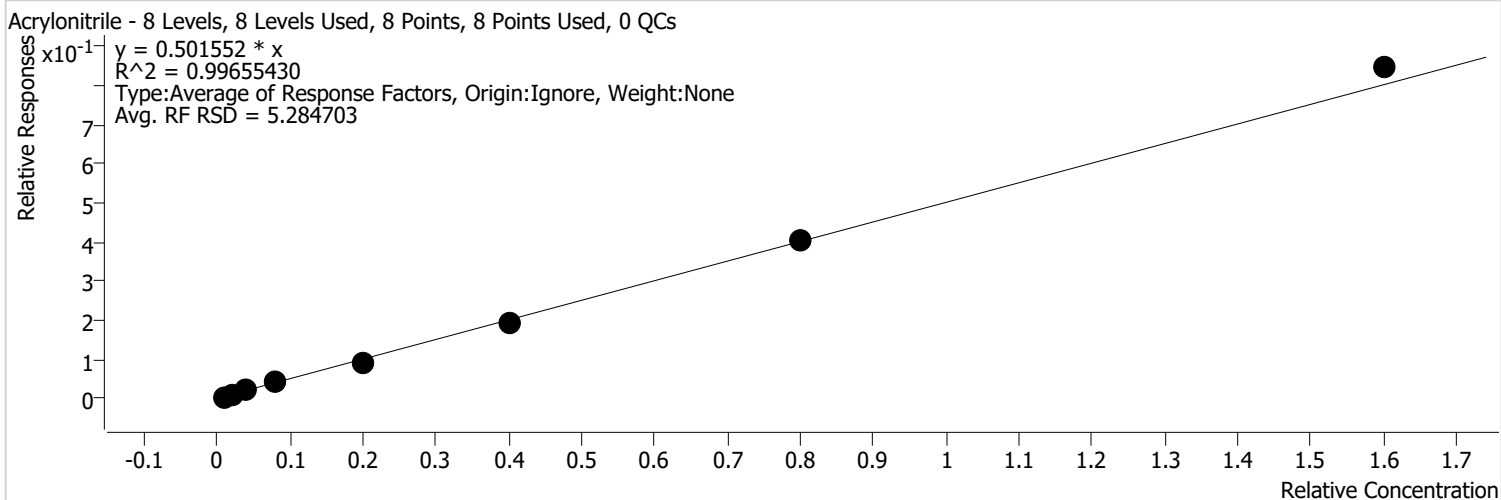


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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D:\GC-27\DATA\082423\082426.D	Calibration	2	x	33973	0.5000	0.8266	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	65375	1.0000	0.7796	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	133902	2.0000	0.7803	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	297880	5.0000	0.6768	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	626185	10.0000	0.7032	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	1253123	20.0000	0.6858	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	2570974	40.0000	0.6886	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin		
Analysis Time	8/25/2023 11:50 AM	Analyst Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Reporter Name	FA\GC27
Last Calib Update	8/25/2023 8:36 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Acrylonitrile %RSE = 5.3

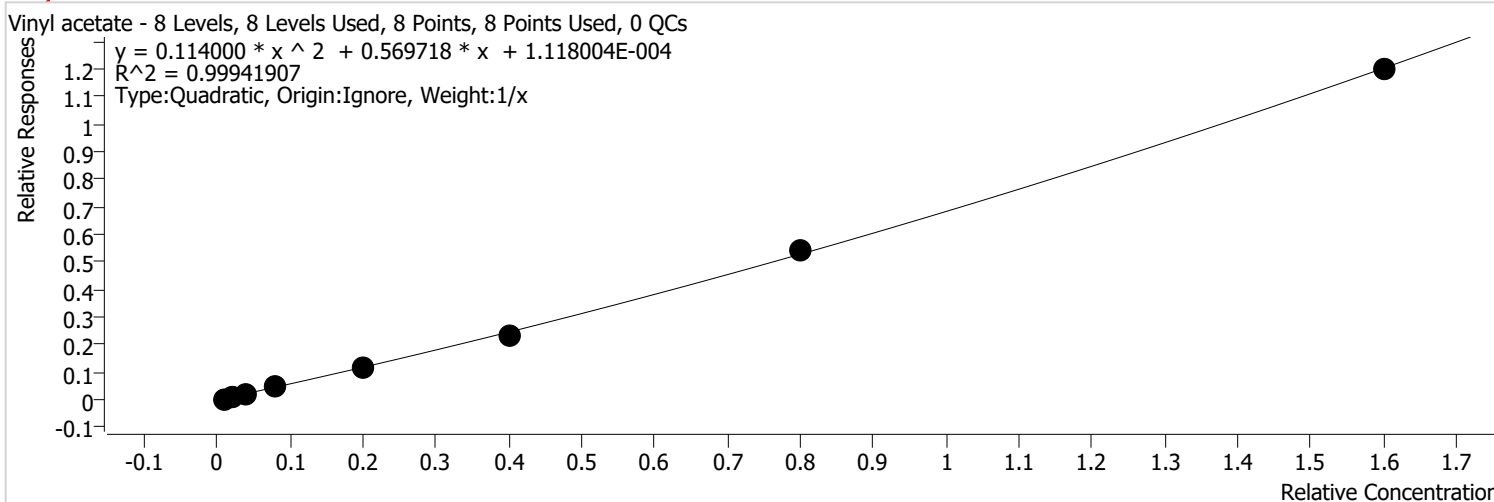


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	7874	0.2000	0.4734	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	21557	0.5000	0.5245	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	44185	1.0000	0.5269	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	87441	2.0000	0.5096	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	203180	5.0000	0.4616	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	426560	10.0000	0.4790	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	929415	20.0000	0.5086	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	1974351	40.0000	0.5288	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin	Analyst Name	FA\GC27
Analysis Time	8/25/2023 11:50 AM	Reporter Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Batch State	Processed
Last Calib Update	8/25/2023 8:36 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Vinyl acetate %RSE = 6.0

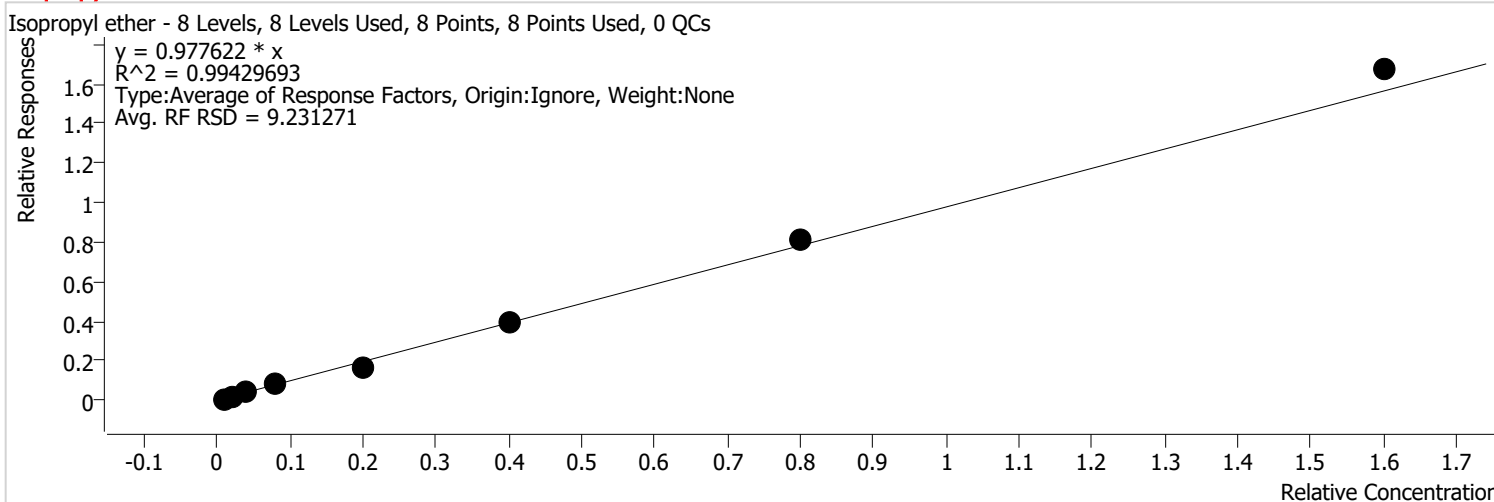


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	8894	0.2000	0.5347	
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D:\GC-27\DATA\082423\082427.D	Calibration	3	x	50264	1.0000	0.5994	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	104204	2.0000	0.6072	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	250491	5.0000	0.5691	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	526736	10.0000	0.5915	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	1245667	20.0000	0.6817	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	2795787	40.0000	0.7488	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin		
Analysis Time	8/25/2023 11:50 AM	Analyst Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Reporter Name	FA\GC27
Last Calib Update	8/25/2023 8:36 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Isopropyl ether %RSE = 9.2



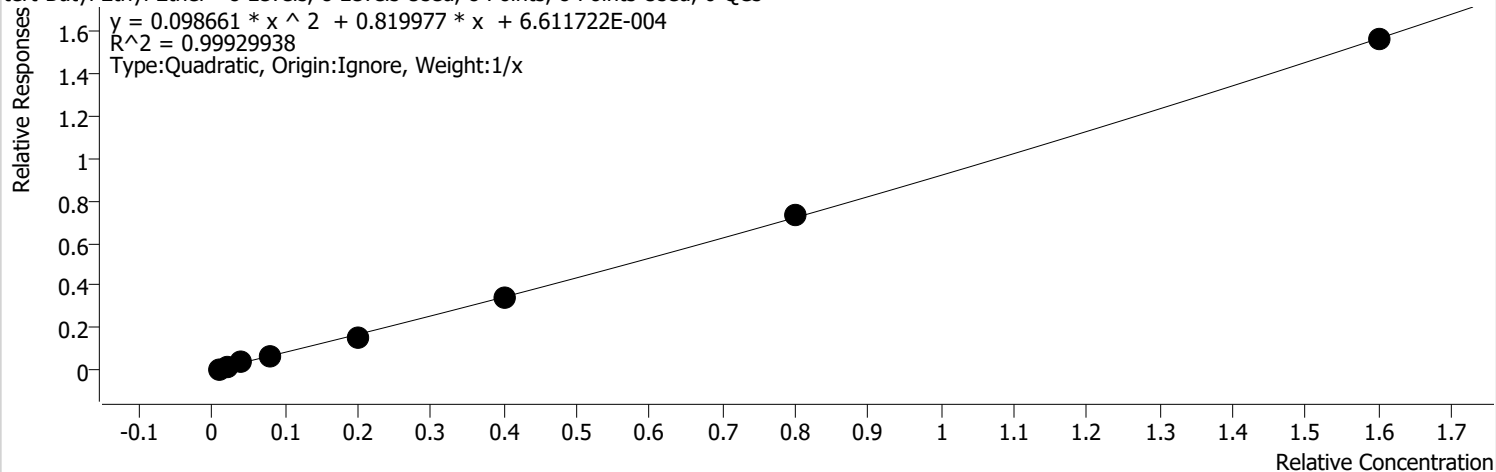
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	14047	0.2000	0.8445	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	45622	0.5000	1.1100	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	82906	1.0000	0.9886	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	167747	2.0000	0.9775	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	376160	5.0000	0.8547	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	871241	10.0000	0.9784	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	1867544	20.0000	1.0220	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	3902210	40.0000	1.0452	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin		
Analysis Time	8/25/2023 11:50 AM	Analyst Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Reporter Name	FA\GC27
Last Calib Update	8/25/2023 8:36 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

tert-Butyl Ethyl Ether %RSE = 12.4

tert-Butyl Ethyl Ether - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



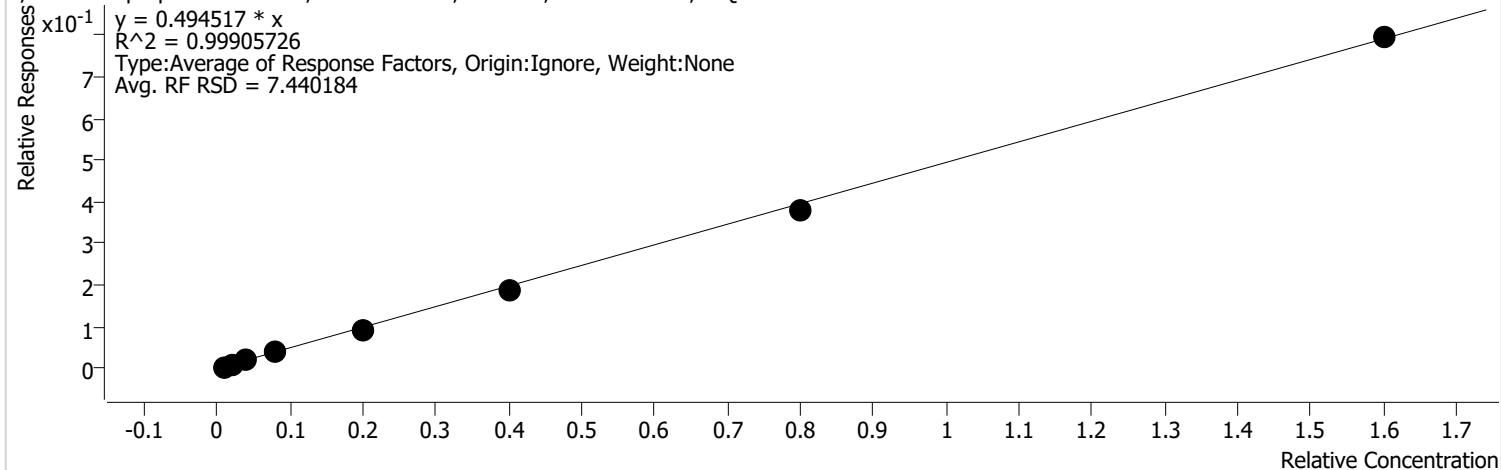
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	12351	0.2000	0.7425	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	40759	0.5000	0.9917	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	75845	1.0000	0.9044	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	145160	2.0000	0.8459	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	345484	5.0000	0.7850	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	760529	10.0000	0.8541	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	1678754	20.0000	0.9187	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	3639371	40.0000	0.9748	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin		
Analysis Time	8/25/2023 11:50 AM	Analyst Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Reporter Name	FA\GC27
Last Calib Update	8/25/2023 8:36 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

2,2-Dichloropropane %RSE = 7.4

2,2-Dichloropropane - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



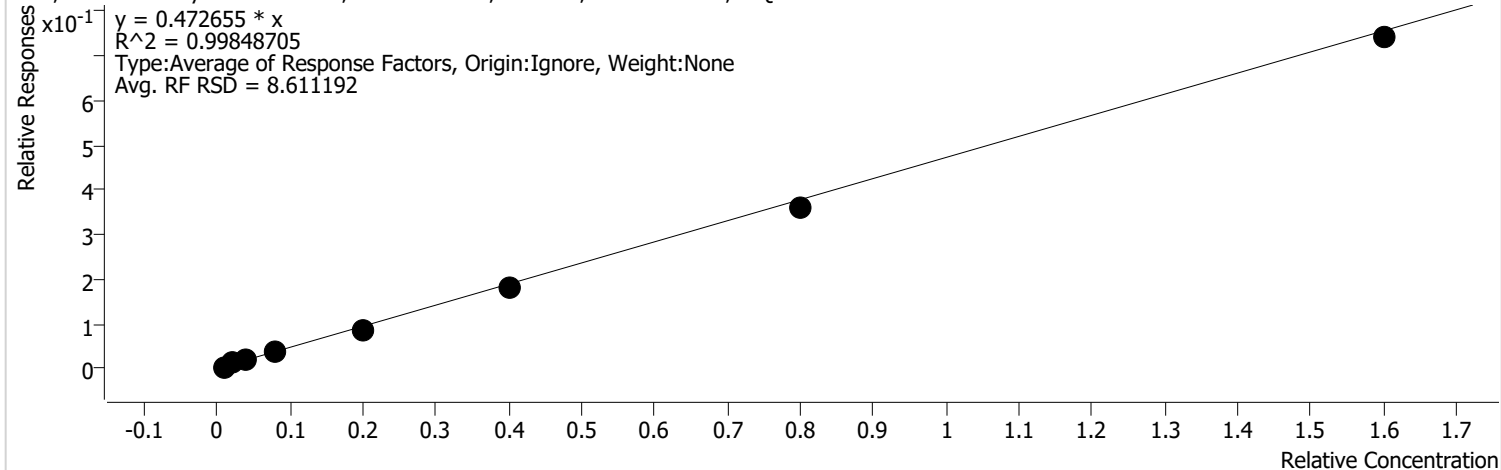
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	7881	0.2000	0.4738	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	23068	0.5000	0.5612	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	43837	1.0000	0.5227	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	88319	2.0000	0.5147	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	198358	5.0000	0.4507	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	410726	10.0000	0.4613	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	868873	20.0000	0.4755	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	1852655	40.0000	0.4962	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin		
Analysis Time	8/25/2023 11:50 AM	Analyst Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Reporter Name	FA\GC27
Last Calib Update	8/25/2023 8:36 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

cis-1,2-Dichloroethylene %RSE = 8.6

cis-1,2-Dichloroethylene - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



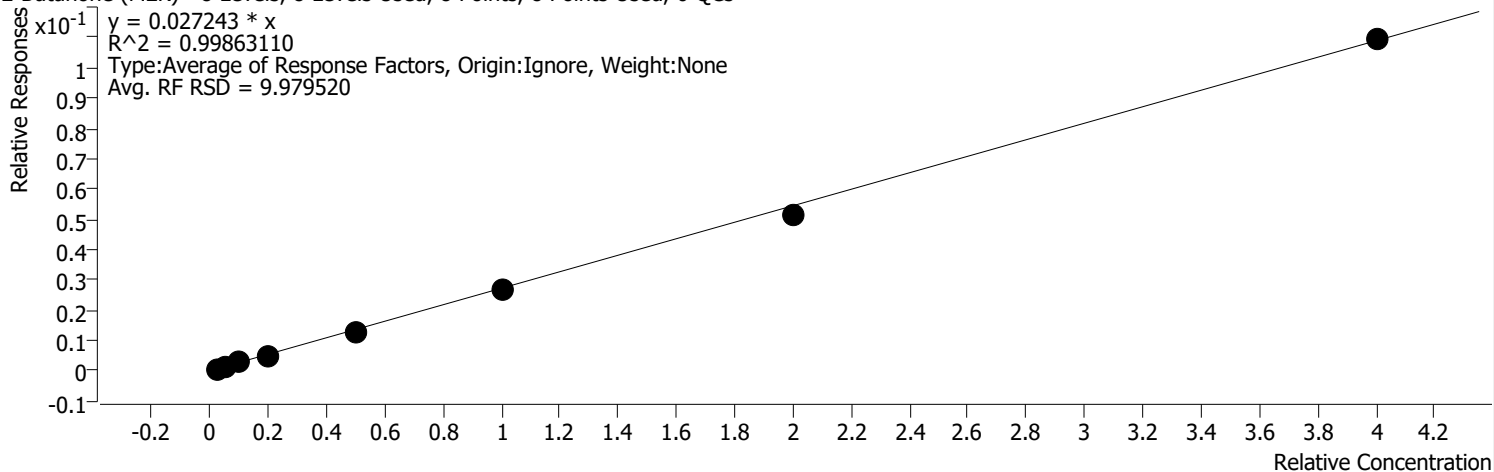
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	7602	0.2000	0.4571	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	22800	0.5000	0.5547	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	40692	1.0000	0.4852	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	85585	2.0000	0.4987	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	184883	5.0000	0.4201	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	400639	10.0000	0.4499	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	826804	20.0000	0.4525	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	1728719	40.0000	0.4630	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin		
Analysis Time	8/25/2023 11:50 AM	Analyst Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Reporter Name	FA\GC27
Last Calib Update	8/25/2023 8:36 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

2-Butanone (MEK) %RSE = 10.0

2-Butanone (MEK) - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

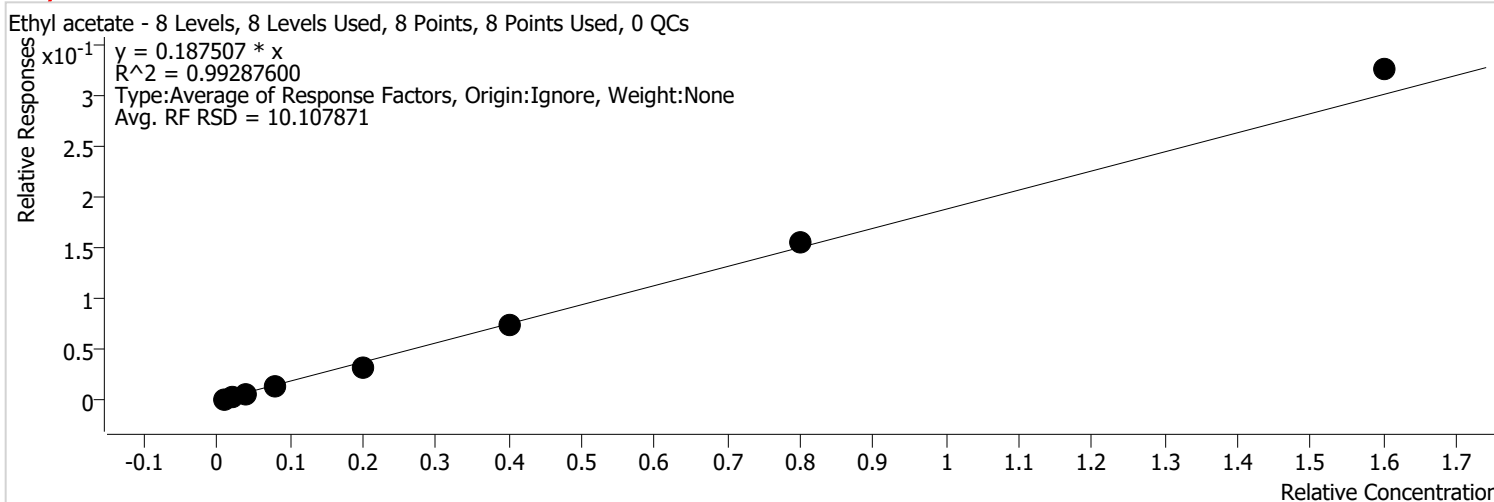


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	1297	0.5000	0.0312	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	3246	1.2500	0.0316	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	5527	2.5000	0.0264	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	10348	5.0000	0.0241	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	28023	12.5000	0.0255	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	58689	25.0000	0.0264	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	116682	50.0000	0.0255	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	254942	100.0000	0.0273	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin	Analyst Name	FA\GC27
Analysis Time	8/25/2023 11:50 AM	Reporter Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Batch State	Processed
Last Calib Update	8/25/2023 8:36 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Ethyl acetate %RSE = 10.1



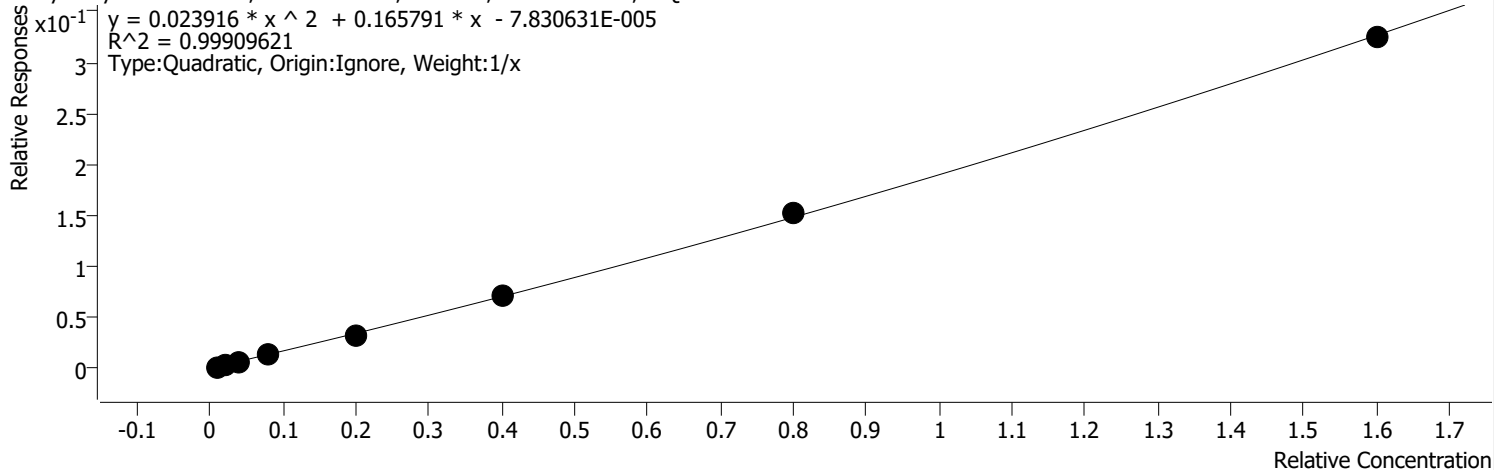
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	3091	0.2000	0.1858	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	9160	0.5000	0.2229	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	13952	1.0000	0.1664	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	30719	2.0000	0.1790	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	73035	5.0000	0.1659	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	163779	10.0000	0.1839	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	353417	20.0000	0.1934	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	756714	40.0000	0.2027	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin	Analyst Name	FA\GC27
Analysis Time	8/25/2023 11:50 AM	Reporter Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Batch State	Processed
Last Calib Update	8/25/2023 8:36 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Methyl acrylate %RSE = 8.7

Methyl acrylate - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



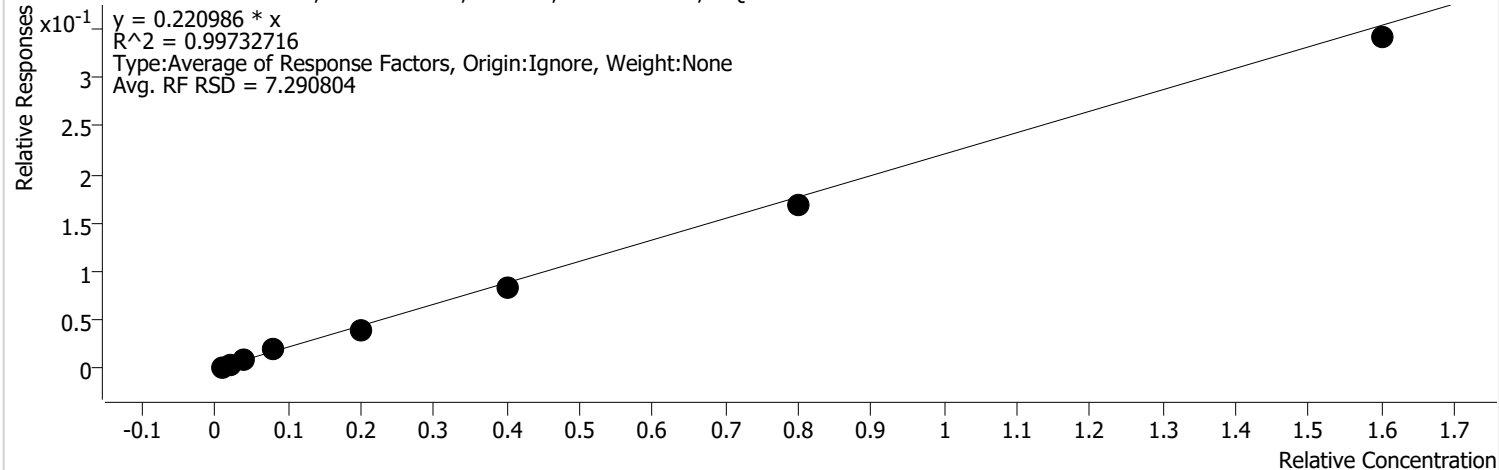
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	2484	0.2000	0.1493	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	7775	0.5000	0.1892	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	13730	1.0000	0.1637	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	26646	2.0000	0.1553	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	69486	5.0000	0.1579	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	155476	10.0000	0.1746	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	350314	20.0000	0.1917	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	756190	40.0000	0.2025	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin		
Analysis Time	8/25/2023 11:50 AM	Analyst Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Reporter Name	FA\GC27
Last Calib Update	8/25/2023 8:36 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Bromochloromethane %RSE = 7.3

Bromochloromethane - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

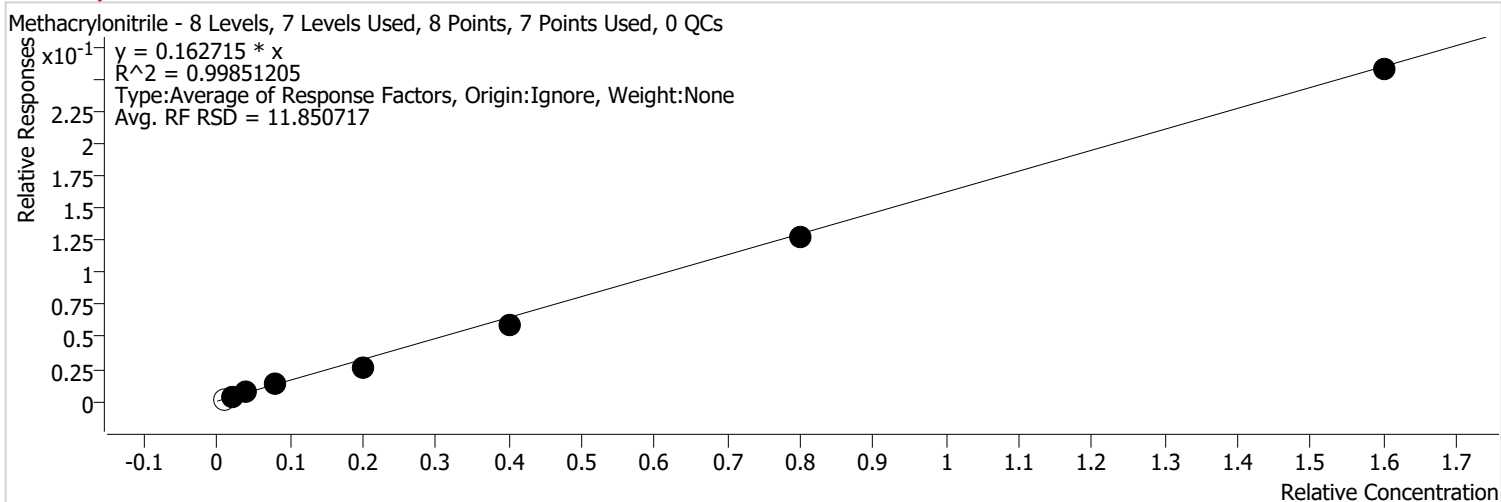


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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D:\GC-27\DATA\082423\082426.D	Calibration	2	x	10263	0.5000	0.2497	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	18133	1.0000	0.2162	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	40360	2.0000	0.2352	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	89175	5.0000	0.2026	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	185327	10.0000	0.2081	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	386363	20.0000	0.2114	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	795362	40.0000	0.2130	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin	Analyst Name	FA\GC27
Analysis Time	8/25/2023 11:50 AM	Reporter Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Batch State	Processed
Last Calib Update	8/25/2023 8:36 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Methacrylonitrile %RSE = 11.9

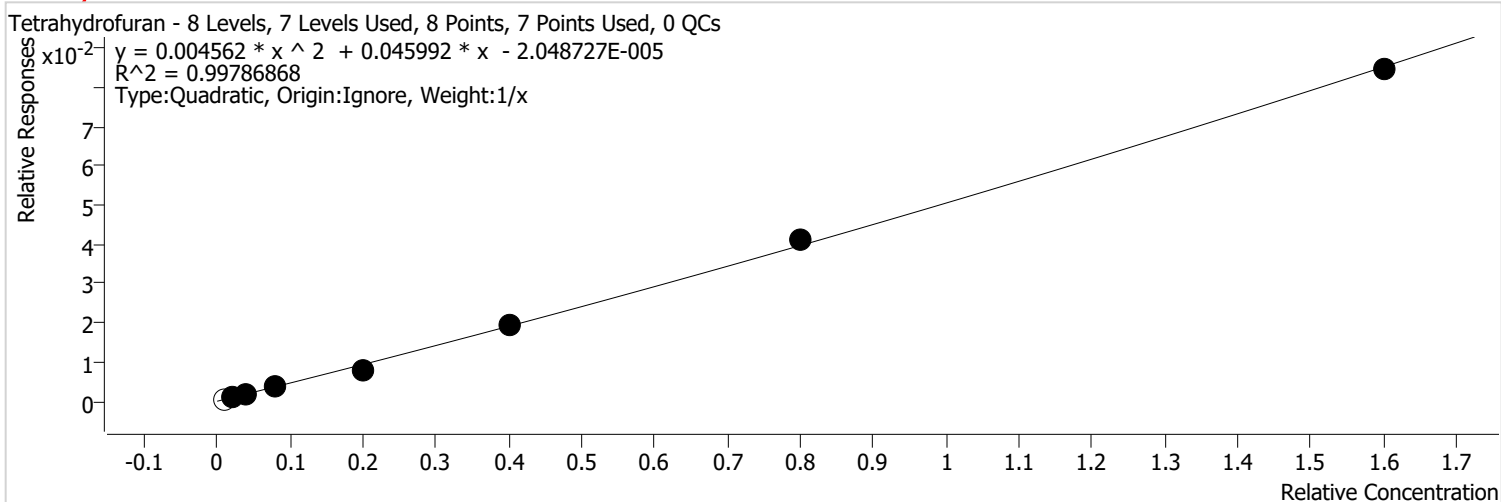


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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D:\GC-27\DATA\082423\082426.D	Calibration	2	x	7596	0.5000	0.1848	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	15934	1.0000	0.1900	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	27508	2.0000	0.1603	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	59148	5.0000	0.1344	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	133236	10.0000	0.1496	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	290033	20.0000	0.1587	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	601645	40.0000	0.1611	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin	Analyst Name	FA\GC27
Analysis Time	8/25/2023 11:50 AM	Reporter Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Batch State	Processed
Last Calib Update	8/25/2023 8:36 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Tetrahydrofuran %RSE = 8.9



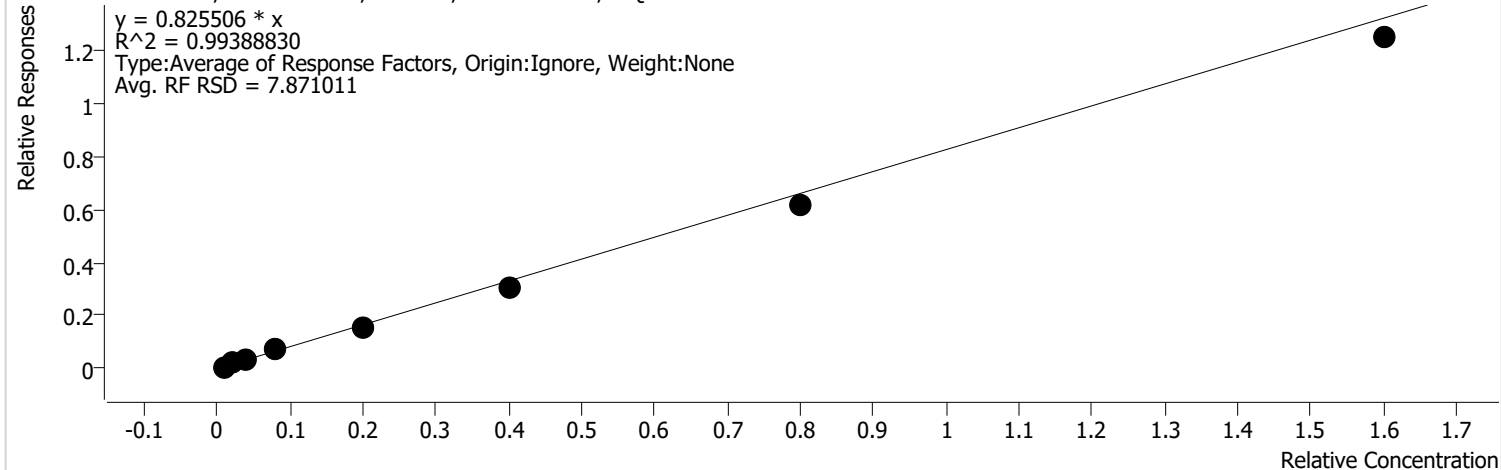
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1		1269	0.2000	0.0763	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	1917	0.5000	0.0466	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	4113	1.0000	0.0490	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	7837	2.0000	0.0457	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	17395	5.0000	0.0395	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	43681	10.0000	0.0491	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	94115	20.0000	0.0515	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	197273	40.0000	0.0528	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin	Analyst Name	FA\GC27
Analysis Time	8/25/2023 11:50 AM	Reporter Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Batch State	Processed
Last Calib Update	8/25/2023 8:36 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

chloroform %RSE = 7.9

chloroform - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

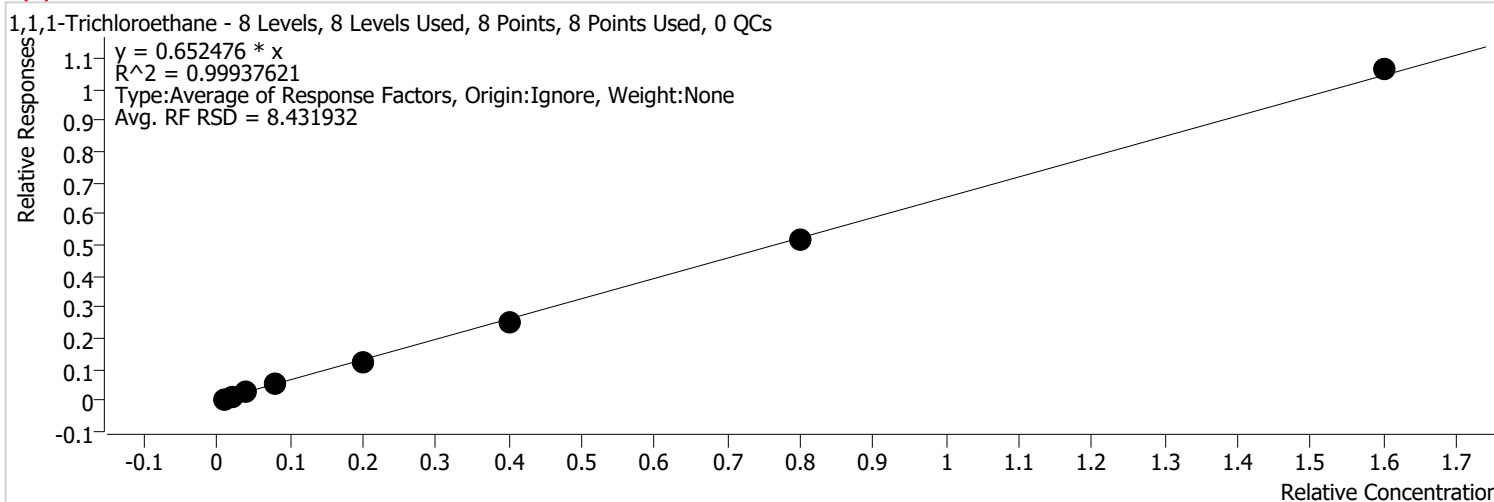


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	13977	0.2000	0.8403	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	38136	0.5000	0.9278	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	74468	1.0000	0.8880	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	149323	2.0000	0.8702	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	331644	5.0000	0.7535	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	689267	10.0000	0.7741	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	1408006	20.0000	0.7706	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	2910538	40.0000	0.7796	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin		
Analysis Time	8/25/2023 11:50 AM	Analyst Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Reporter Name	FA\GC27
Last Calib Update	8/25/2023 8:36 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,1,1-Trichloroethane %RSE = 8.4

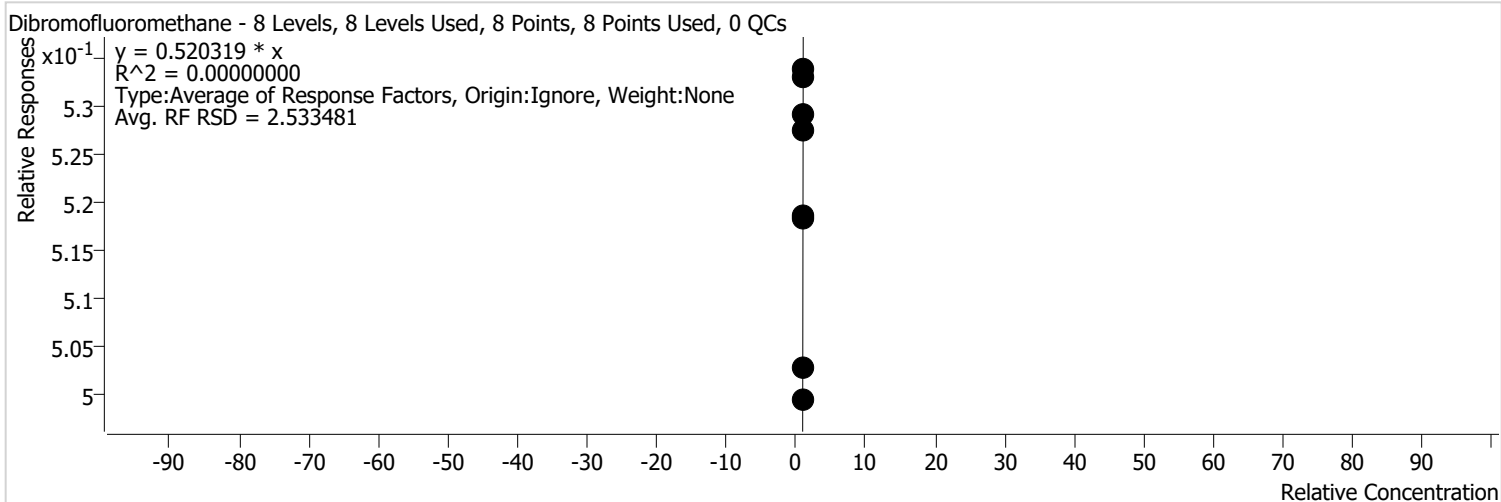


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	9339	0.2000	0.5615	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	29754	0.5000	0.7239	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	57239	1.0000	0.6826	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	122131	2.0000	0.7117	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	265327	5.0000	0.6028	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	556064	10.0000	0.6245	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	1185751	20.0000	0.6489	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	2478790	40.0000	0.6639	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin		
Analysis Time	8/25/2023 11:50 AM	Analyst Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Reporter Name	FA\GC27
Last Calib Update	8/25/2023 8:36 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Dibromofluoromethane %RSE =



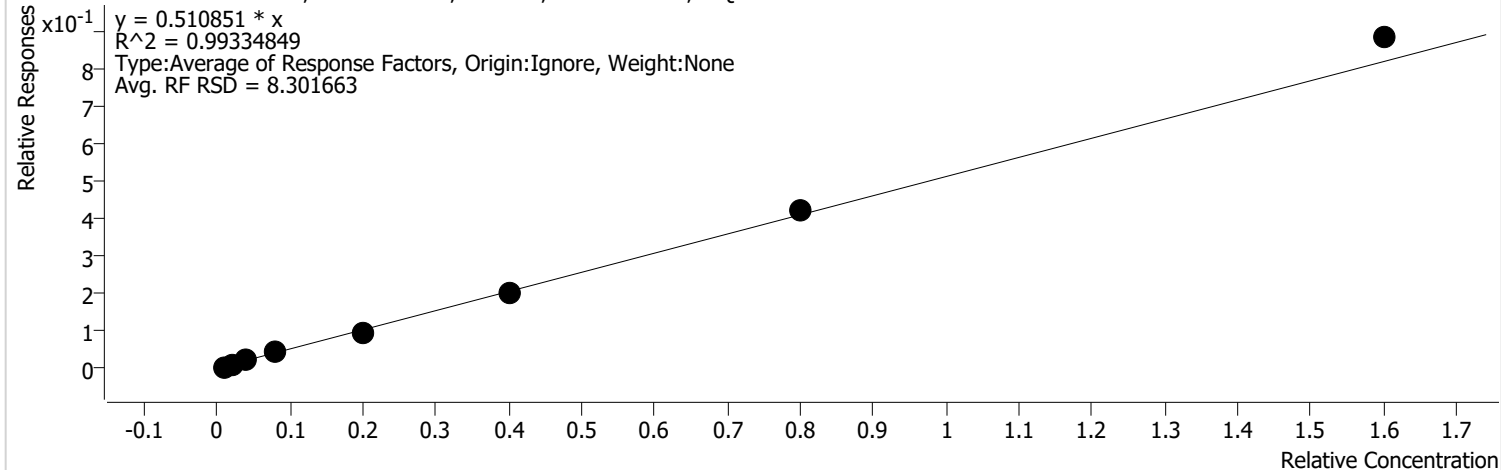
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	1173118	25.0000	0.5027	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	1141018	25.0000	0.4996	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	1154654	25.0000	0.5187	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	1140514	25.0000	0.5183	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	1134757	25.0000	0.5290	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	1106017	25.0000	0.5276	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	1095351	25.0000	0.5330	
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	1109743	25.0000	0.5337	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin		
Analysis Time	8/25/2023 11:50 AM	Analyst Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Reporter Name	FA\GC27
Last Calib Update	8/25/2023 8:36 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

carbon tetrachloride %RSE = 8.3

carbon tetrachloride - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

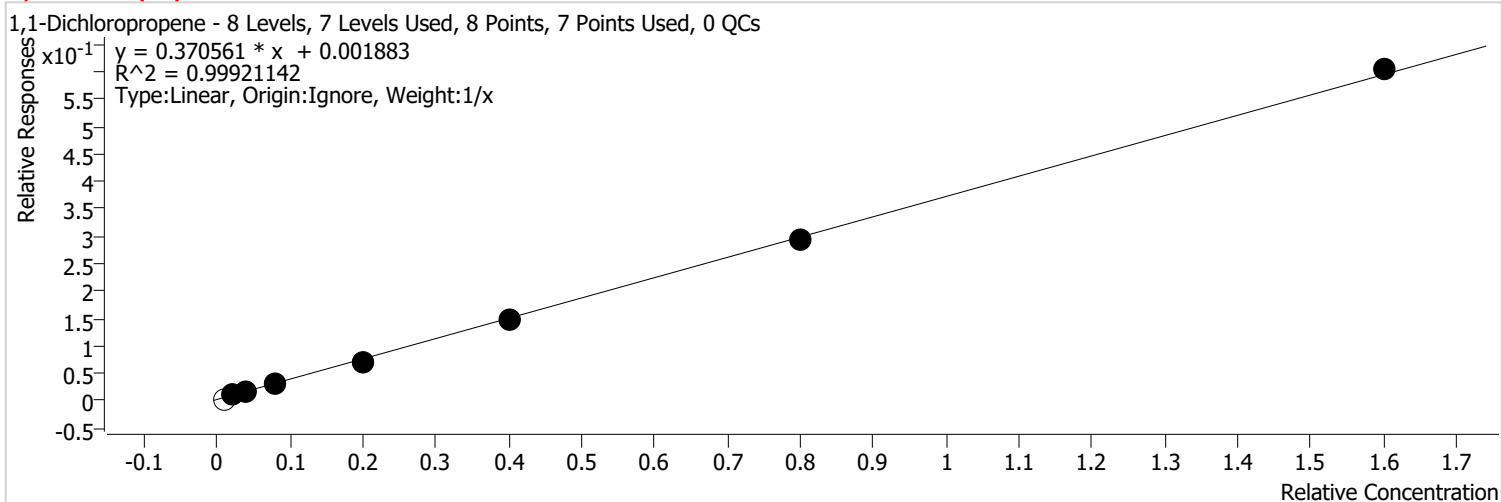


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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D:\GC-27\DATA\082423\082426.D	Calibration	2	x	20619	0.5000	0.5017	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	46883	1.0000	0.5591	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	92725	2.0000	0.5404	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	209607	5.0000	0.4762	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	441970	10.0000	0.4963	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	966708	20.0000	0.5290	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	2055848	40.0000	0.5506	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin		
Analysis Time	8/25/2023 11:50 AM	Analyst Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Reporter Name	FA\GC27
Last Calib Update	8/25/2023 8:36 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,1-Dichloropropene %RSE = 7.0



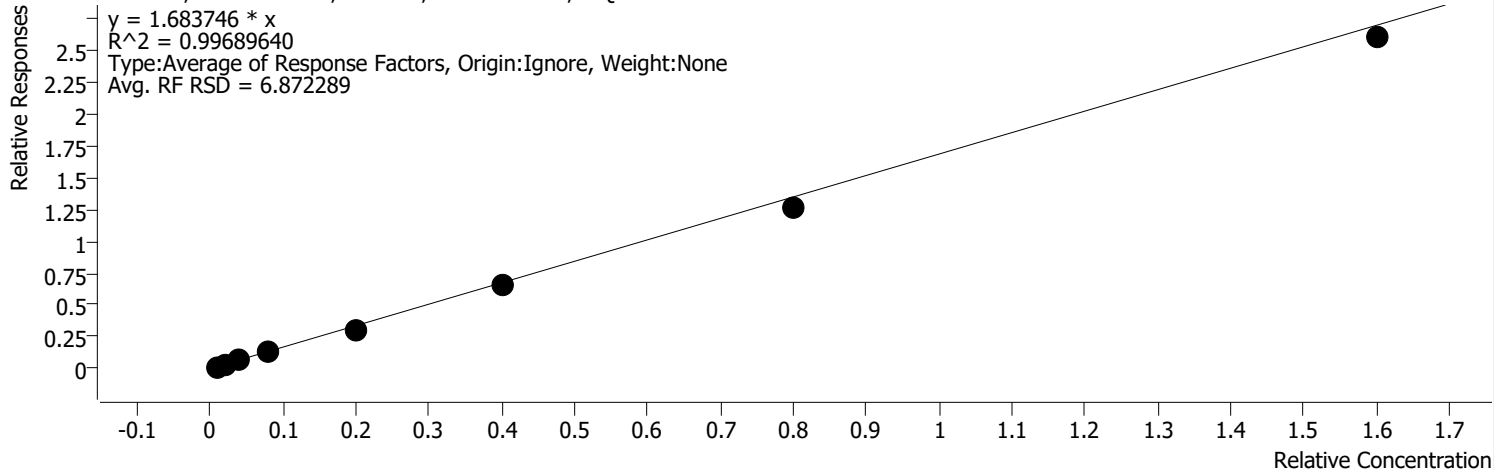
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1		6392	0.2000	0.3843	
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D:\GC-27\DATA\082423\082427.D	Calibration	3	x	32597	1.0000	0.3887	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	70764	2.0000	0.4124	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	156488	5.0000	0.3556	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	328603	10.0000	0.3690	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	675209	20.0000	0.3695	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	1408939	40.0000	0.3774	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin		
Analysis Time	8/25/2023 11:50 AM	Analyst Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Reporter Name	FA\GC27
Last Calib Update	8/25/2023 8:36 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Benzene %RSE = 6.9

Benzene - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

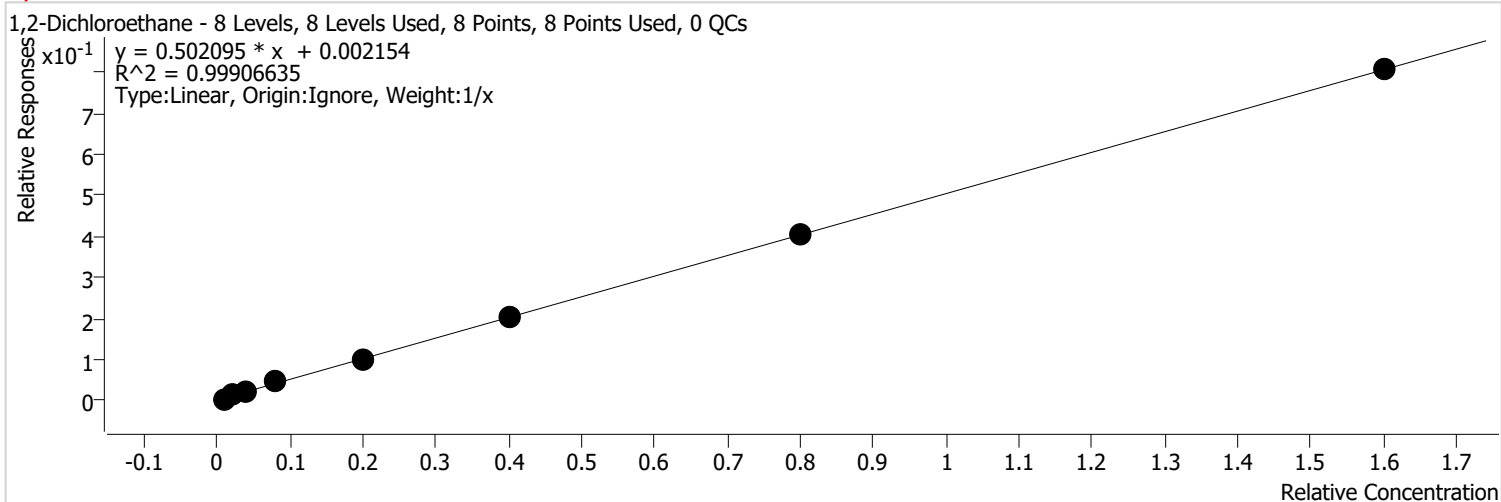


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	28664	0.2000	1.7233	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	76749	0.5000	1.8673	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	147995	1.0000	1.7648	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	302846	2.0000	1.7648	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	666611	5.0000	1.5146	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	1449842	10.0000	1.6282	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	2894722	20.0000	1.5842	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	6058664	40.0000	1.6227	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin		
Analysis Time	8/25/2023 11:50 AM	Analyst Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Reporter Name	FA\GC27
Last Calib Update	8/25/2023 8:36 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,2-Dichloroethane %RSE = 15.0



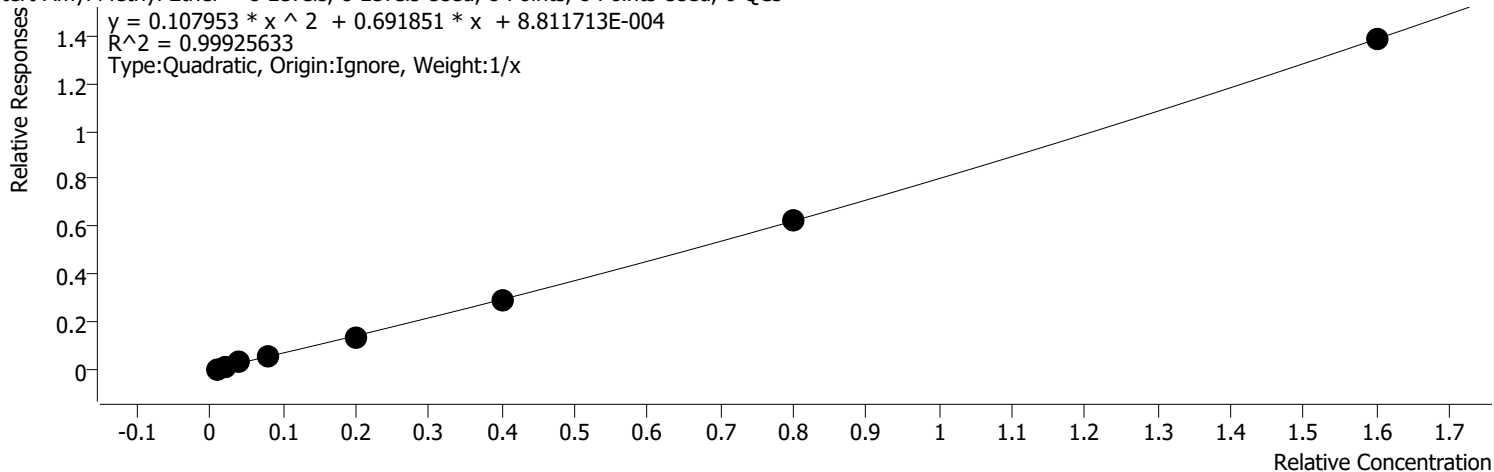
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	10451	0.2000	0.6283	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	29269	0.5000	0.7121	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	48815	1.0000	0.5821	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	97866	2.0000	0.5703	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	214245	5.0000	0.4868	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	450791	10.0000	0.5063	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	923228	20.0000	0.5053	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	1879834	40.0000	0.5035	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin	Analyst Name	FA\GC27
Analysis Time	8/25/2023 11:50 AM	Reporter Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Batch State	Processed
Last Calib Update	8/25/2023 8:36 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

tert-Amyl Methyl Ether %RSE = 14.2

tert-Amyl Methyl Ether - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



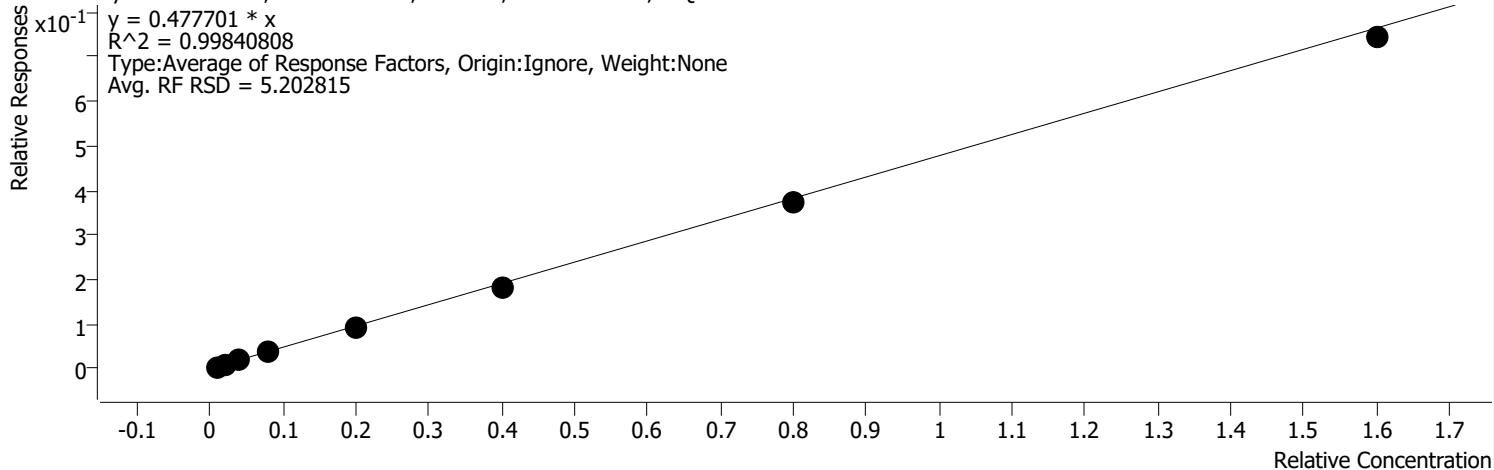
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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D:\GC-27\DATA\082423\082426.D	Calibration	2	x	36165	0.5000	0.8799	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	61876	1.0000	0.7378	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	128793	2.0000	0.7505	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	291257	5.0000	0.6618	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	660232	10.0000	0.7415	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	1438845	20.0000	0.7874	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	3224269	40.0000	0.8636	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin		
Analysis Time	8/25/2023 11:50 AM	Analyst Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Reporter Name	FA\GC27
Last Calib Update	8/25/2023 8:36 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

trichloroethylene %RSE = 5.2

trichloroethylene - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

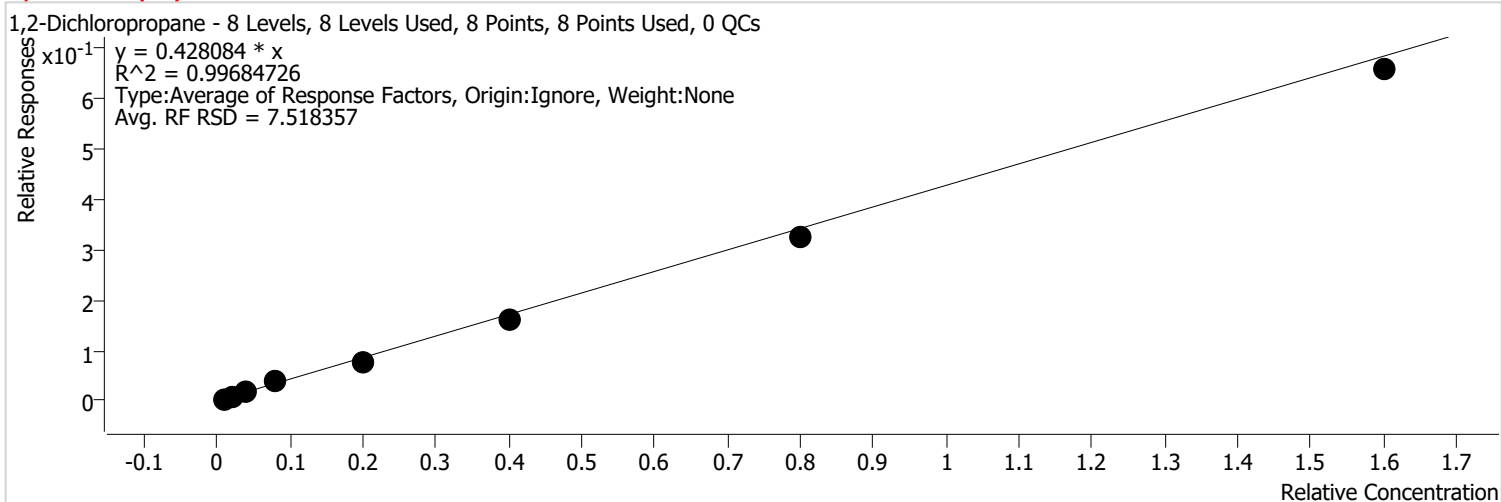


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	7941	0.2000	0.4774	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	21343	0.5000	0.5193	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	41633	1.0000	0.4965	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	85578	2.0000	0.4987	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	197749	5.0000	0.4493	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	403539	10.0000	0.4532	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	846395	20.0000	0.4632	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	1732702	40.0000	0.4641	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin		
Analysis Time	8/25/2023 11:50 AM	Analyst Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Reporter Name	FA\GC27
Last Calib Update	8/25/2023 8:36 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,2-Dichloropropane %RSE = 7.5



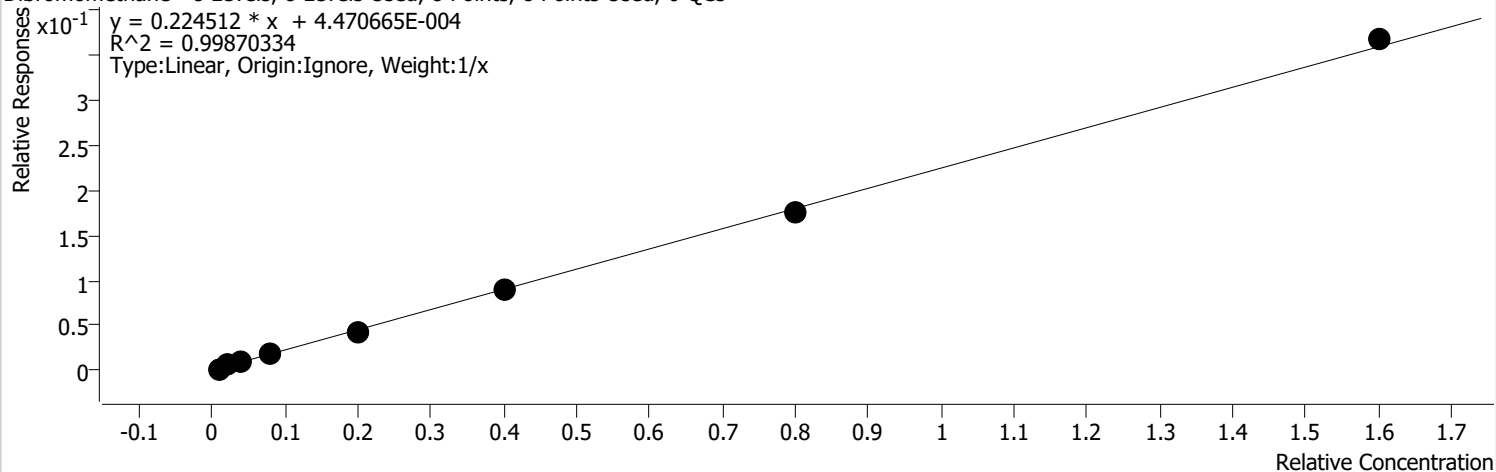
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	7499	0.2000	0.4508	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	19785	0.5000	0.4814	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	36126	1.0000	0.4308	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	77983	2.0000	0.4544	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	169281	5.0000	0.3846	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	358733	10.0000	0.4029	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	746386	20.0000	0.4085	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	1535541	40.0000	0.4113	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin		
Analysis Time	8/25/2023 11:50 AM	Analyst Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Reporter Name	FA\GC27
Last Calib Update	8/25/2023 8:36 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Dibromomethane %RSE = 10.2

Dibromomethane - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



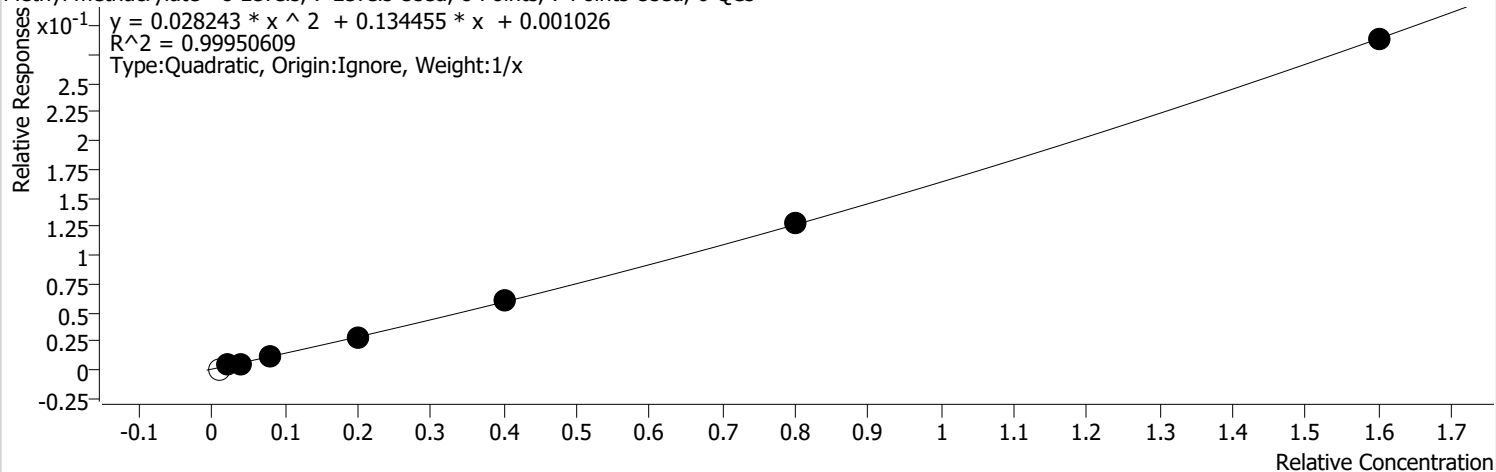
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	4110	0.2000	0.2471	
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D:\GC-27\DATA\082423\082427.D	Calibration	3	x	21107	1.0000	0.2517	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	40215	2.0000	0.2344	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	91185	5.0000	0.2072	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	197396	10.0000	0.2217	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	402505	20.0000	0.2203	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	857678	40.0000	0.2297	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin		
Analysis Time	8/25/2023 11:50 AM	Analyst Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Reporter Name	FA\GC27
Last Calib Update	8/25/2023 8:36 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Methyl methacrylate %RSE = 10.3

Methyl methacrylate - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 0 QCs



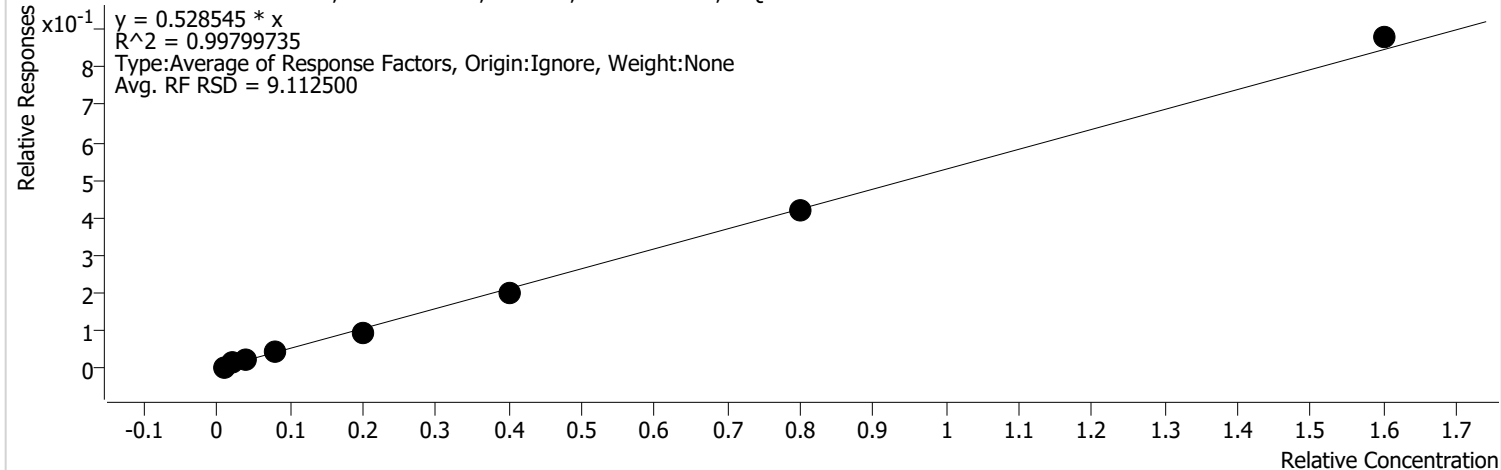
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1		2605	0.2000	0.1566	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	8586	0.5000	0.2089	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	12372	1.0000	0.1475	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	24421	2.0000	0.1423	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	61173	5.0000	0.1390	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	135048	10.0000	0.1517	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	292639	20.0000	0.1602	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	671087	40.0000	0.1797	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin		
Analysis Time	8/25/2023 11:50 AM	Analyst Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Reporter Name	FA\GC27
Last Calib Update	8/25/2023 8:36 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

bromodichloromethane %RSE = 9.1

bromodichloromethane - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



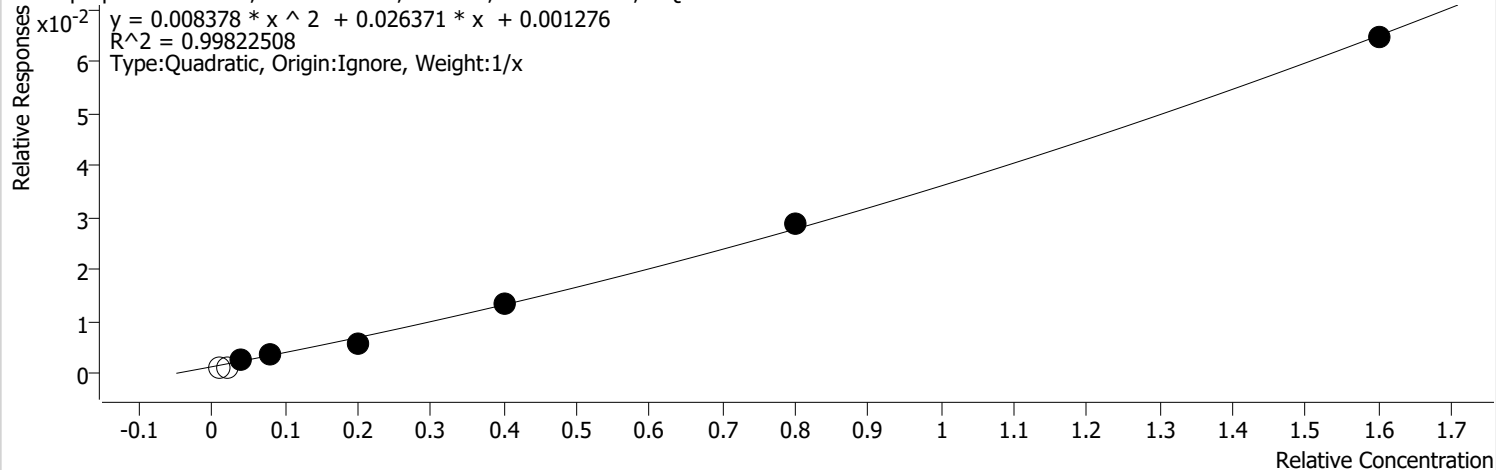
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D:\GC-27\DATA\082423\082427.D	Calibration	3	x	43295	1.0000	0.5163	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	91911	2.0000	0.5356	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	205255	5.0000	0.4664	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	445831	10.0000	0.5007	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	958547	20.0000	0.5246	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	2047335	40.0000	0.5484	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin	Analyst Name	FA\GC27
Analysis Time	8/25/2023 11:50 AM	Reporter Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Batch State	Processed
Last Calib Update	8/25/2023 8:36 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

2-Nitropropane %RSE = 10.4

2-Nitropropane - 8 Levels, 6 Levels Used, 8 Points, 6 Points Used, 0 QCs



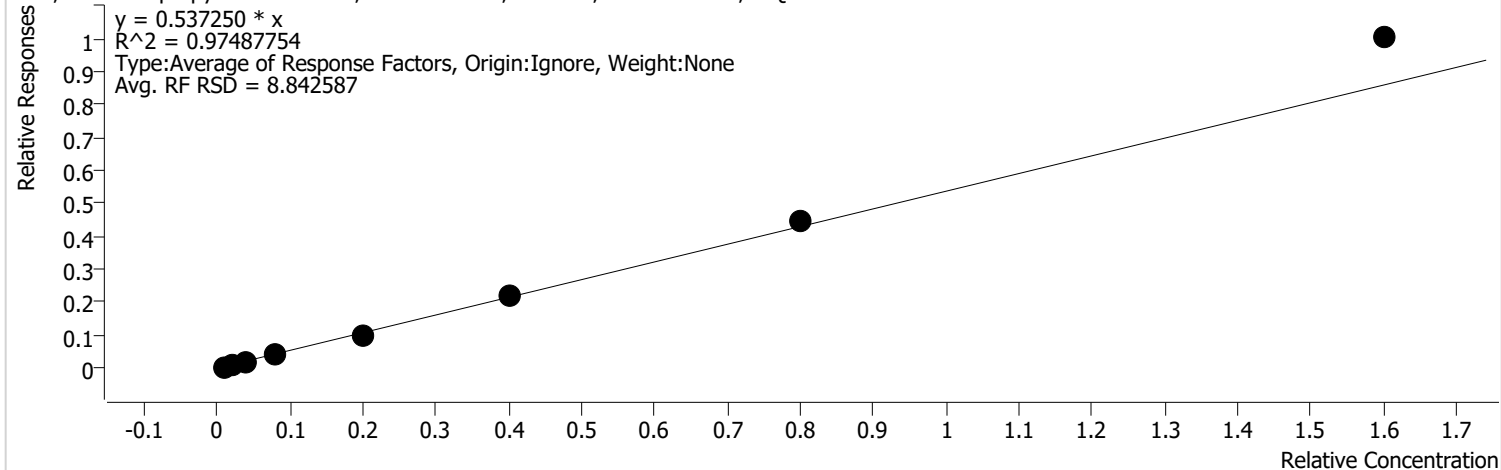
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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D:\GC-27\DATA\082423\082426.D	Calibration	2		2586	0.5000	0.0629	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	5060	1.0000	0.0603	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	7618	2.0000	0.0444	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	13104	5.0000	0.0298	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	29927	10.0000	0.0336	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	65321	20.0000	0.0357	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	150570	40.0000	0.0403	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin	Analyst Name	FA\GC27
Analysis Time	8/25/2023 11:50 AM	Reporter Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Batch State	Processed
Last Calib Update	8/25/2023 8:36 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

cis-1,3-Dichloropropylene %RSE = 8.8

cis-1,3-Dichloropropylene - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

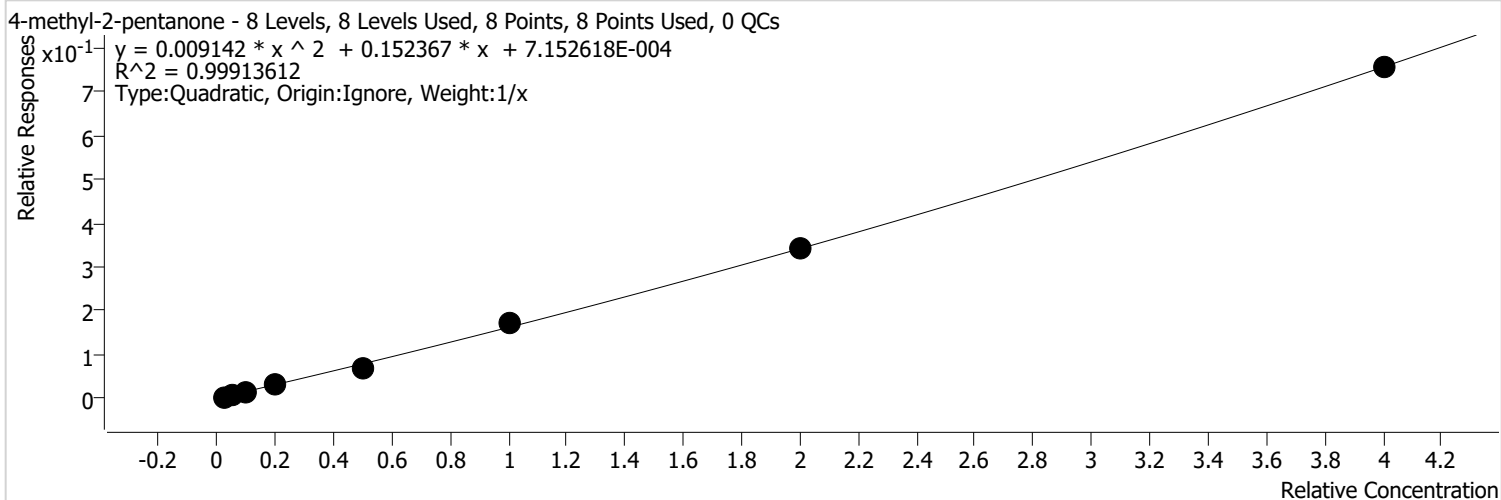


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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D:\GC-27\DATA\082423\082426.D	Calibration	2	x	23041	0.5000	0.5606	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	42571	1.0000	0.5076	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	90392	2.0000	0.5268	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	215395	5.0000	0.4894	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	485043	10.0000	0.5447	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	1026154	20.0000	0.5616	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	2341394	40.0000	0.6271	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin		
Analysis Time	8/25/2023 11:50 AM	Analyst Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Reporter Name	FA\GC27
Last Calib Update	8/25/2023 8:36 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

4-methyl-2-pentanone %RSE = 5.6

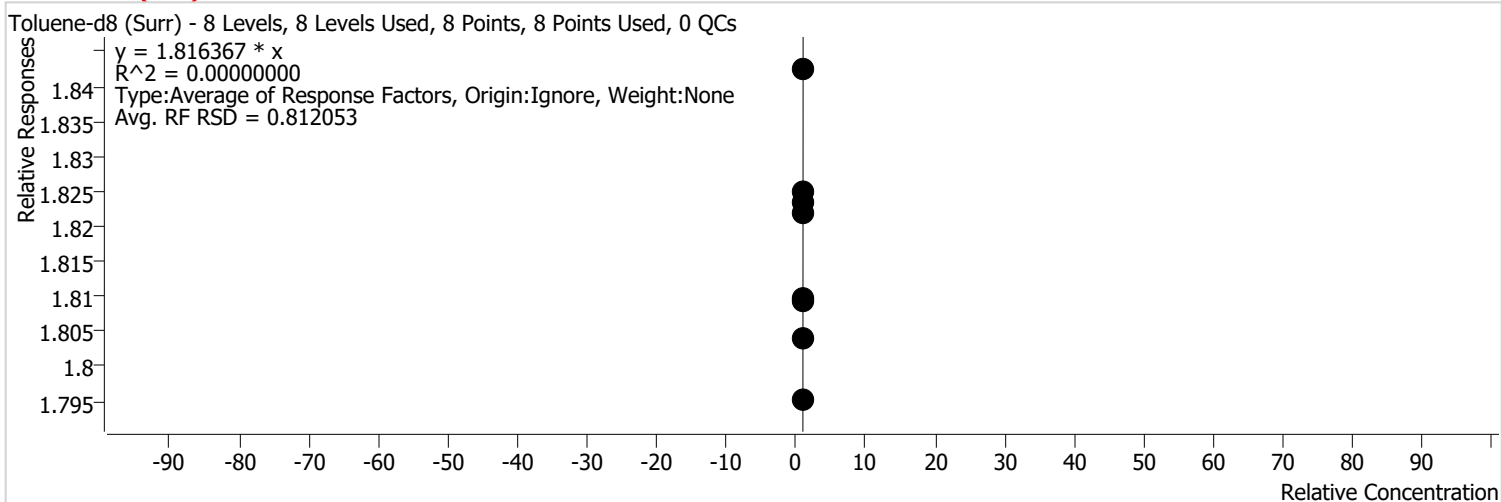


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	7856	0.5000	0.1889	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	18103	1.2500	0.1762	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	33223	2.5000	0.1585	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	67746	5.0000	0.1579	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	156547	12.5000	0.1423	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	378677	25.0000	0.1701	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	785007	50.0000	0.1718	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	1760995	100.0000	0.1887	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin	Analyst Name	FA\GC27
Analysis Time	8/25/2023 11:50 AM	Reporter Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Batch State	Processed
Last Calib Update	8/25/2023 8:36 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Toluene-d8 (Surr) %RSE =

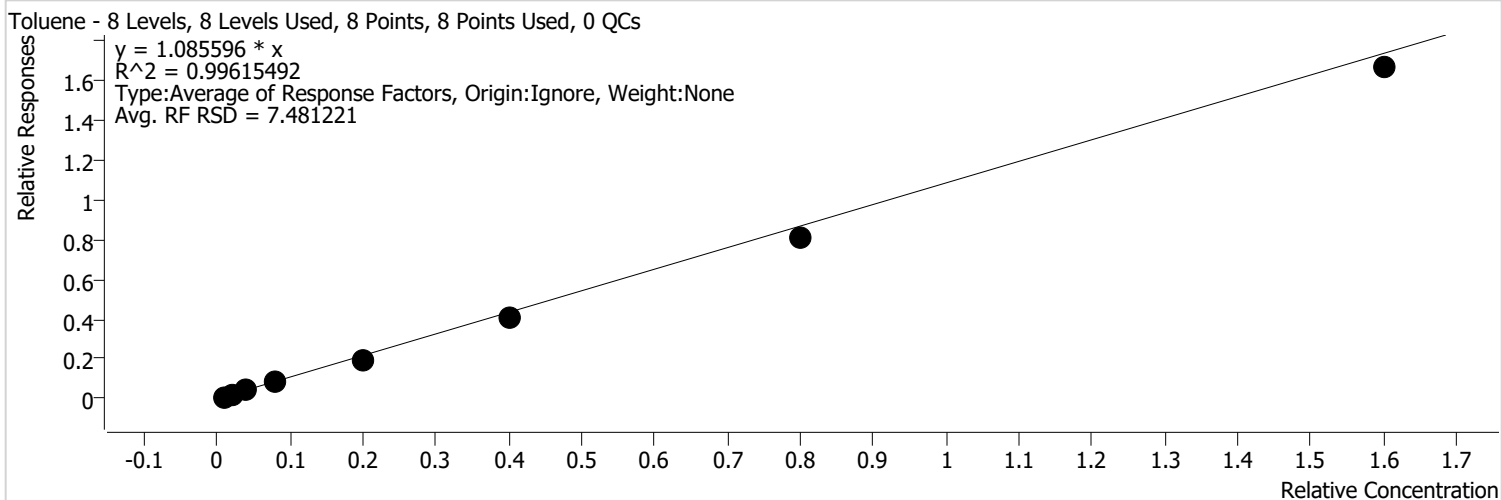


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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D:\GC-27\DATA\082423\082431.D	Calibration	7	x	4100661	25.0000	1.7953	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	4101341	25.0000	1.8424	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	4013107	25.0000	1.8236	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	3881201	25.0000	1.8094	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	3819320	25.0000	1.8218	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	3707006	25.0000	1.8038	
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	3762816	25.0000	1.8098	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin	Analyst Name	FA\GC27
Analysis Time	8/25/2023 11:50 AM	Reporter Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Batch State	Processed
Last Calib Update	8/25/2023 8:36 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Toluene %RSE = 7.5

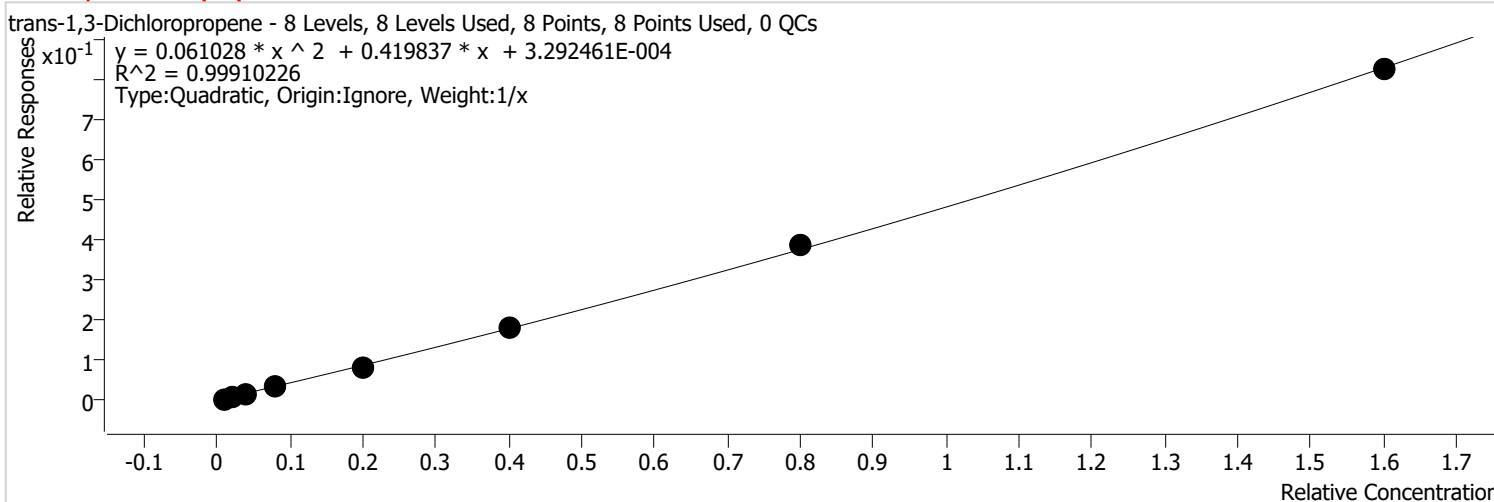


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	19450	0.2000	1.1694	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	50242	0.5000	1.2224	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	93831	1.0000	1.1189	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	188824	2.0000	1.1004	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	437568	5.0000	0.9942	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	906990	10.0000	1.0186	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	1864467	20.0000	1.0204	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	3885318	40.0000	1.0406	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin		
Analysis Time	8/25/2023 11:50 AM	Analyst Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Reporter Name	FA\GC27
Last Calib Update	8/25/2023 8:36 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

trans-1,3-Dichloropropene %RSE = 11.9



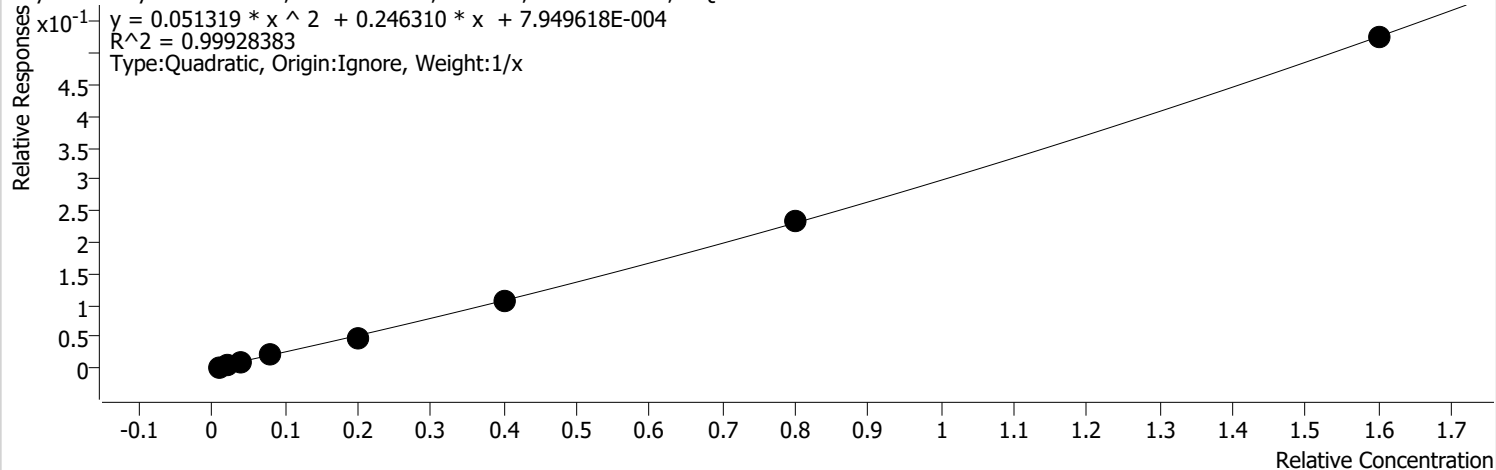
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	6848	0.2000	0.4117	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	21804	0.5000	0.5305	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	34756	1.0000	0.4145	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	73072	2.0000	0.4258	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	175596	5.0000	0.3990	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	395761	10.0000	0.4445	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	883045	20.0000	0.4833	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	1921785	40.0000	0.5147	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin		
Analysis Time	8/25/2023 11:50 AM	Analyst Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Reporter Name	FA\GC27
Last Calib Update	8/25/2023 8:36 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Ethyl methacrylate %RSE = 14.4

Ethyl methacrylate - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

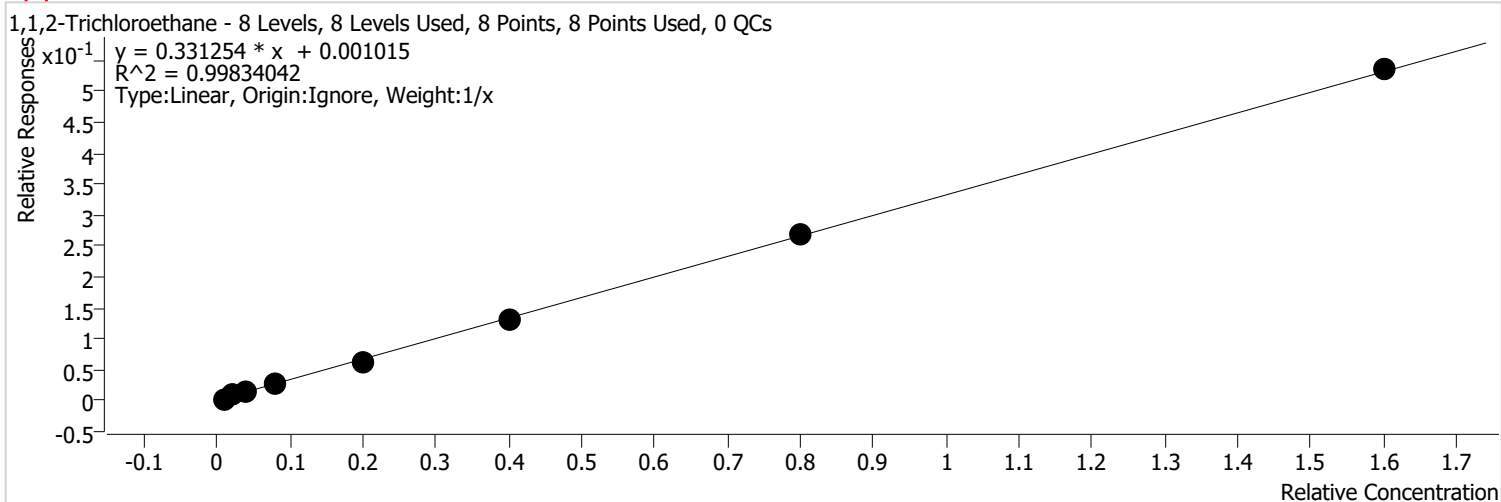


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	5008	0.2000	0.3011	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	14361	0.5000	0.3494	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	21720	1.0000	0.2590	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	45635	2.0000	0.2659	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	106344	5.0000	0.2416	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	240664	10.0000	0.2703	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	535771	20.0000	0.2932	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	1224222	40.0000	0.3279	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin		
Analysis Time	8/25/2023 11:50 AM	Analyst Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Reporter Name	FA\GC27
Last Calib Update	8/25/2023 8:36 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,1,2-Trichloroethane %RSE = 15.3

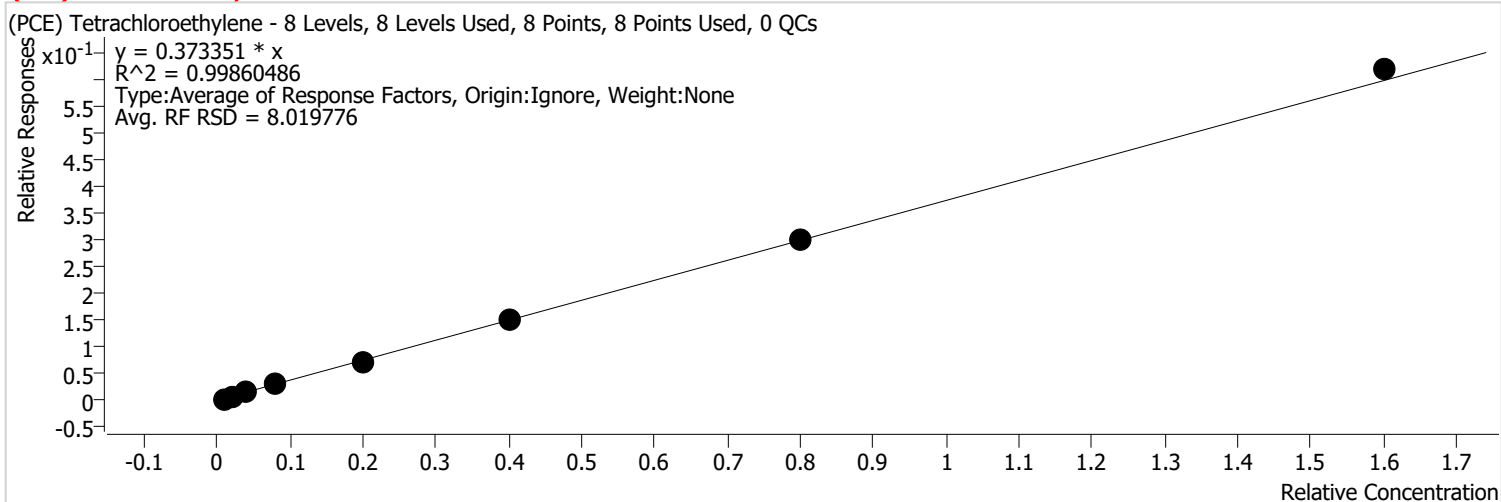


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	6359	0.2000	0.3823	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	19384	0.5000	0.4716	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	30498	1.0000	0.3637	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	61399	2.0000	0.3578	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	131567	5.0000	0.2989	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	294948	10.0000	0.3312	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	613523	20.0000	0.3358	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	1246930	40.0000	0.3340	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin		
Analysis Time	8/25/2023 11:50 AM	Analyst Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Reporter Name	FA\GC27
Last Calib Update	8/25/2023 8:36 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

(PCE) Tetrachloroethylene %RSE = 8.0

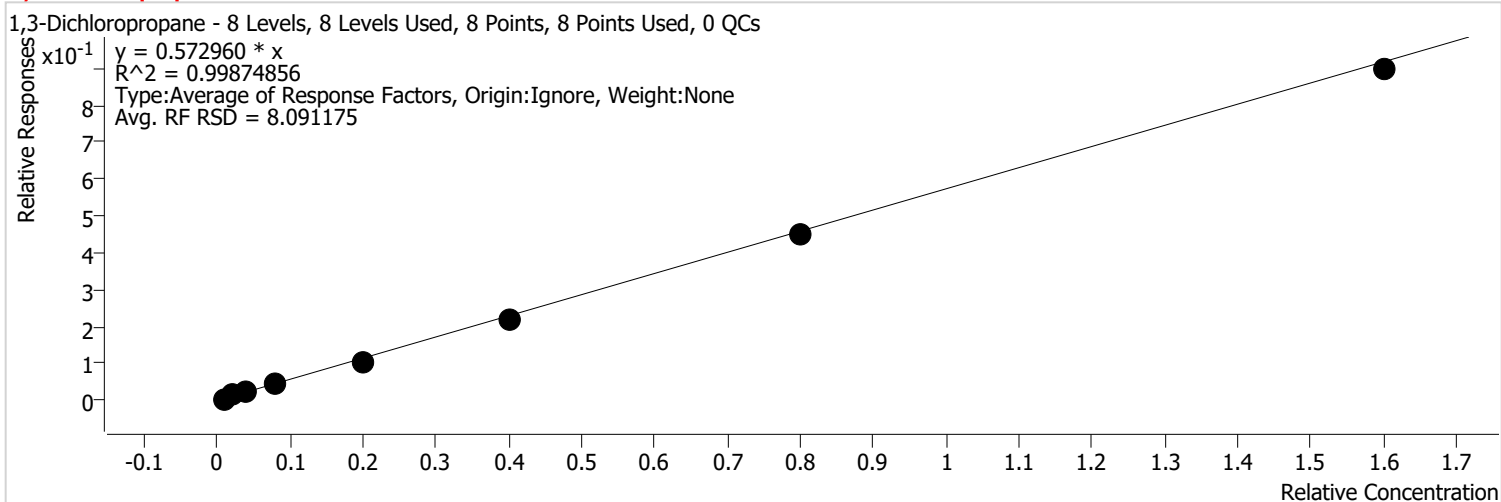


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	5171	0.2000	0.3109	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	15693	0.5000	0.3818	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	32670	1.0000	0.3896	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	70871	2.0000	0.4130	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	156921	5.0000	0.3565	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	330813	10.0000	0.3715	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	689618	20.0000	0.3774	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	1441535	40.0000	0.3861	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin		
Analysis Time	8/25/2023 11:50 AM	Analyst Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Reporter Name	FA\GC27
Last Calib Update	8/25/2023 8:36 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,3-Dichloropropane %RSE = 8.1



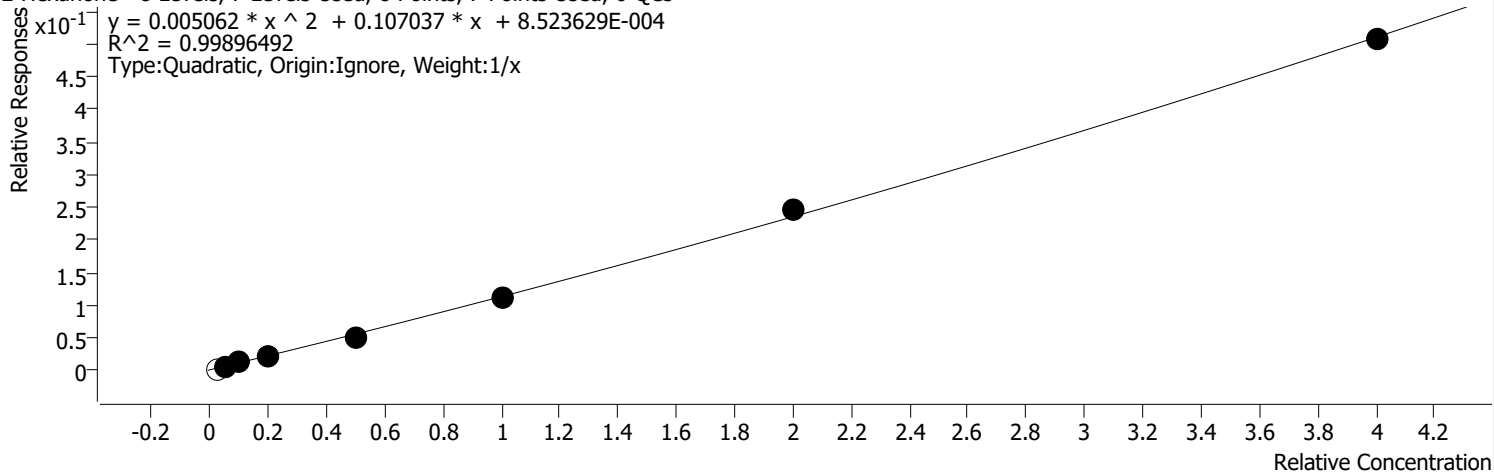
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	9459	0.2000	0.5687	
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D:\GC-27\DATA\082423\082427.D	Calibration	3	x	48014	1.0000	0.5725	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	101417	2.0000	0.5910	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	225739	5.0000	0.5129	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	487229	10.0000	0.5472	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	1020789	20.0000	0.5586	
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Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin		
Analysis Time	8/25/2023 11:50 AM	Analyst Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Reporter Name	FA\GC27
Last Calib Update	8/25/2023 8:36 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

2-Hexanone %RSE = 5.6

2-Hexanone - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 0 QCs



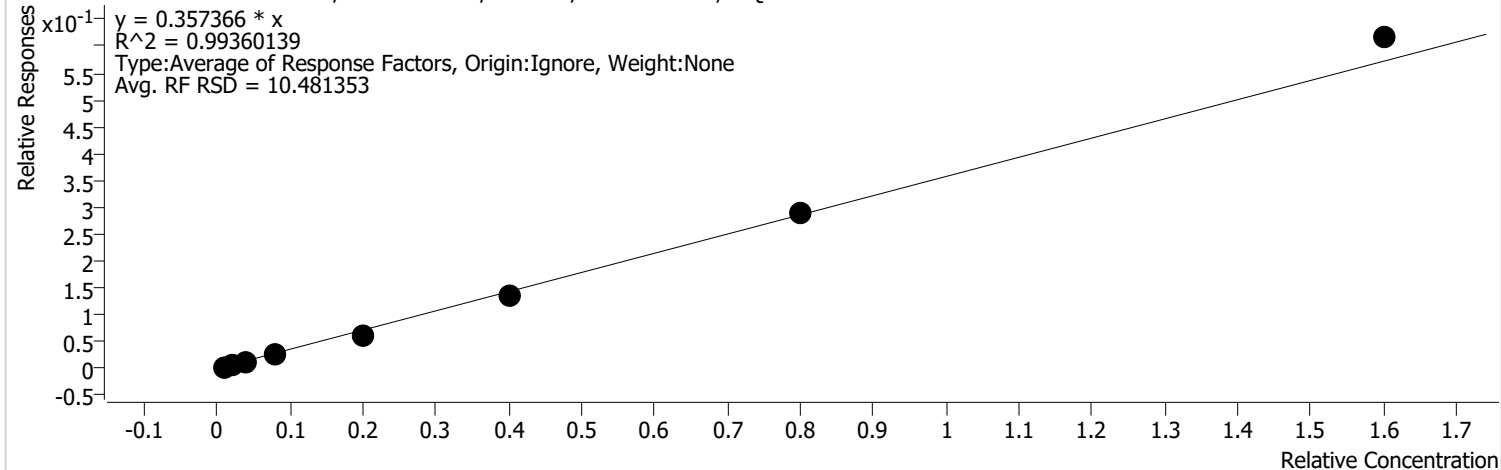
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1		4845	0.5000	0.1165	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	13378	1.2500	0.1302	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	24870	2.5000	0.1186	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	47526	5.0000	0.1108	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	112148	12.5000	0.1019	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	248068	25.0000	0.1114	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	559892	50.0000	0.1226	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	1180708	100.0000	0.1265	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin		
Analysis Time	8/25/2023 11:50 AM	Analyst Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Reporter Name	FA\GC27
Last Calib Update	8/25/2023 8:36 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

dibromochloromethane %RSE = 10.5

dibromochloromethane - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



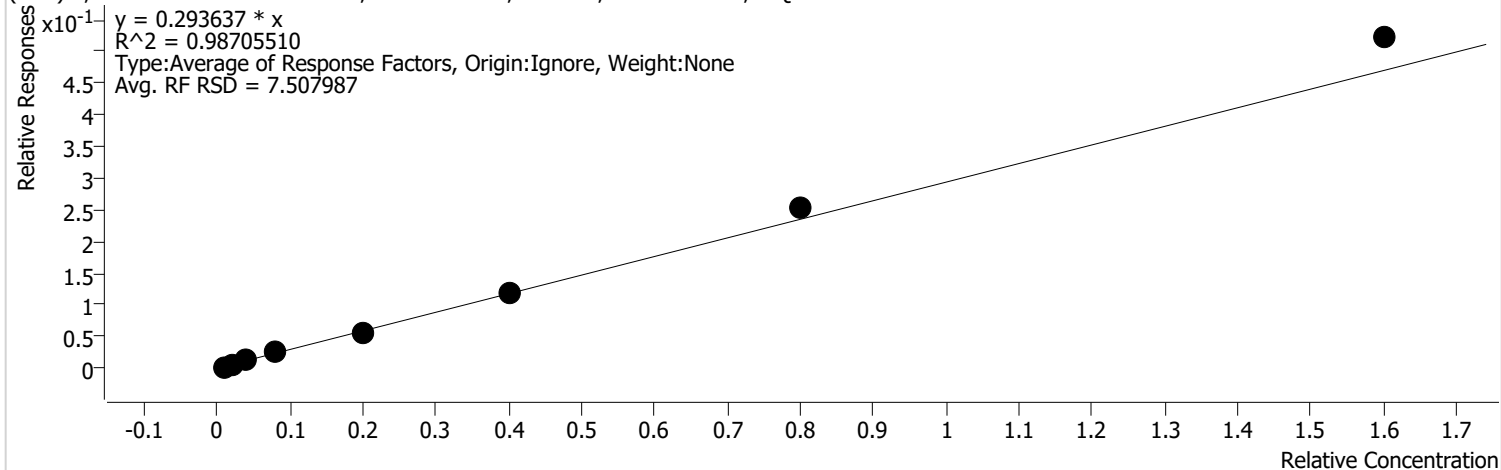
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	6429	0.2000	0.3865	
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D:\GC-27\DATA\082423\082427.D	Calibration	3	x	26466	1.0000	0.3156	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	57253	2.0000	0.3336	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	139222	5.0000	0.3163	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	303826	10.0000	0.3412	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	658991	20.0000	0.3606	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	1436454	40.0000	0.3847	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin		
Analysis Time	8/25/2023 11:50 AM	Analyst Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Reporter Name	FA\GC27
Last Calib Update	8/25/2023 8:36 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

(EDB) 1,2-Dibromoethane %RSE = 7.5

(EDB) 1,2-Dibromoethane - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



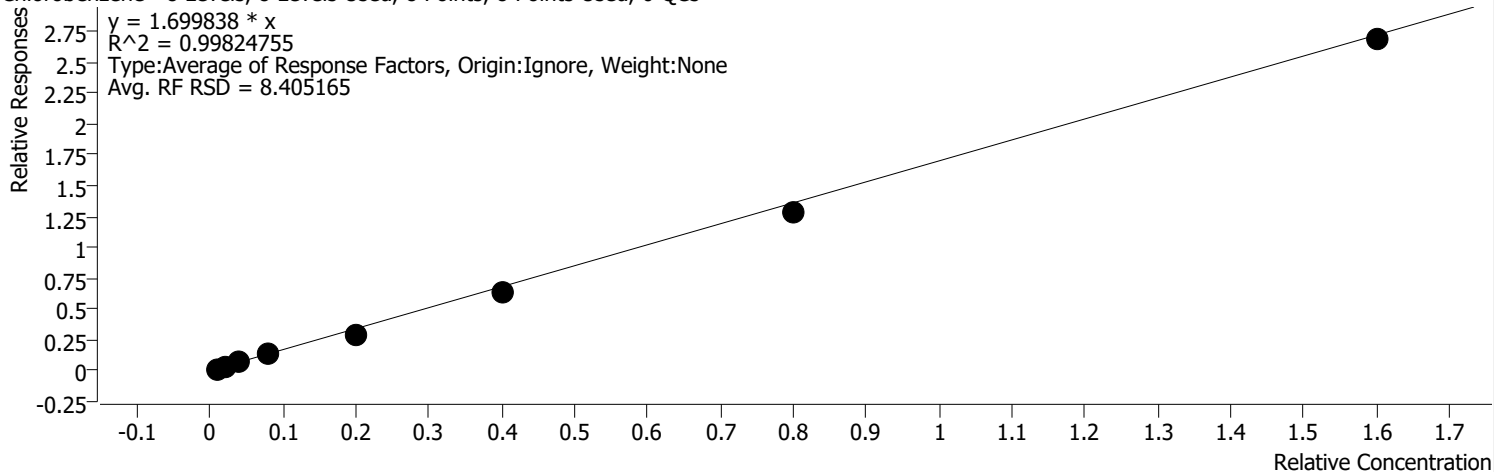
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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D:\GC-27\DATA\082423\082426.D	Calibration	2	x	12083	0.5000	0.2940	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	23597	1.0000	0.2814	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	51061	2.0000	0.2976	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	125139	5.0000	0.2843	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	264853	10.0000	0.2974	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	575735	20.0000	0.3151	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	1217236	40.0000	0.3260	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin		
Analysis Time	8/25/2023 11:50 AM	Analyst Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Reporter Name	FA\GC27
Last Calib Update	8/25/2023 8:36 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Chlorobenzene %RSE = 8.4

Chlorobenzene - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

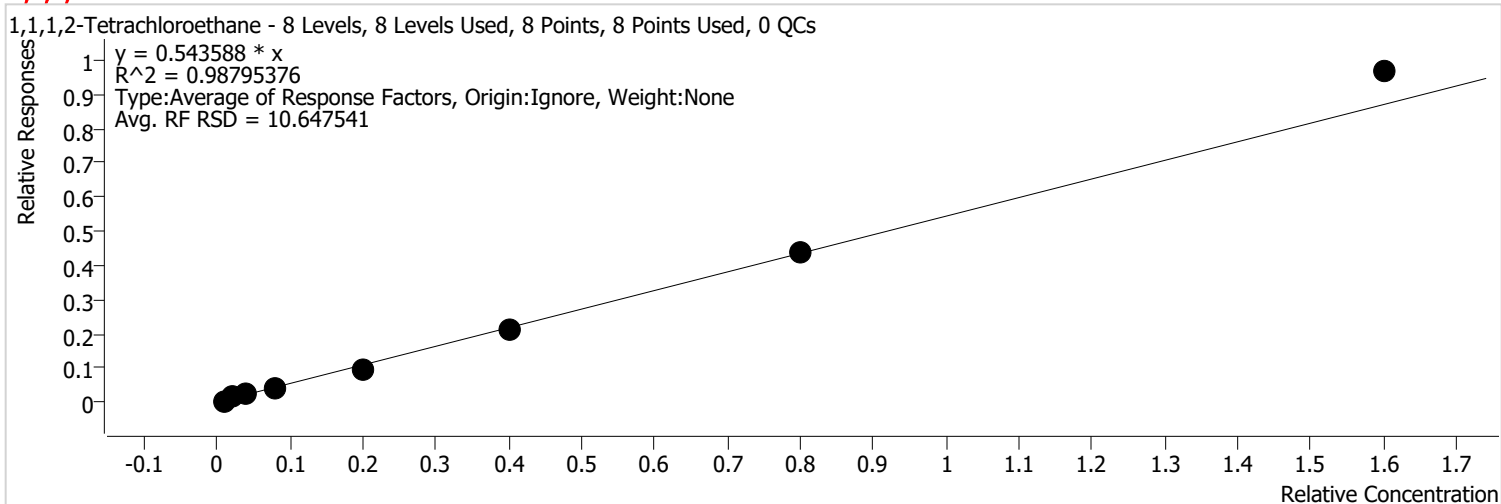


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	21219	0.2000	1.7979	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	57738	0.5000	1.9450	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	107721	1.0000	1.7253	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	223897	2.0000	1.7663	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	471834	5.0000	1.4767	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	1058164	10.0000	1.6055	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	2146029	20.0000	1.6059	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	4465938	40.0000	1.6760	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin	Analyst Name	FA\GC27
Analysis Time	8/25/2023 11:50 AM	Reporter Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Batch State	Processed
Last Calib Update	8/25/2023 8:36 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

1,1,1,2-Tetrachloroethane %RSE = 10.6



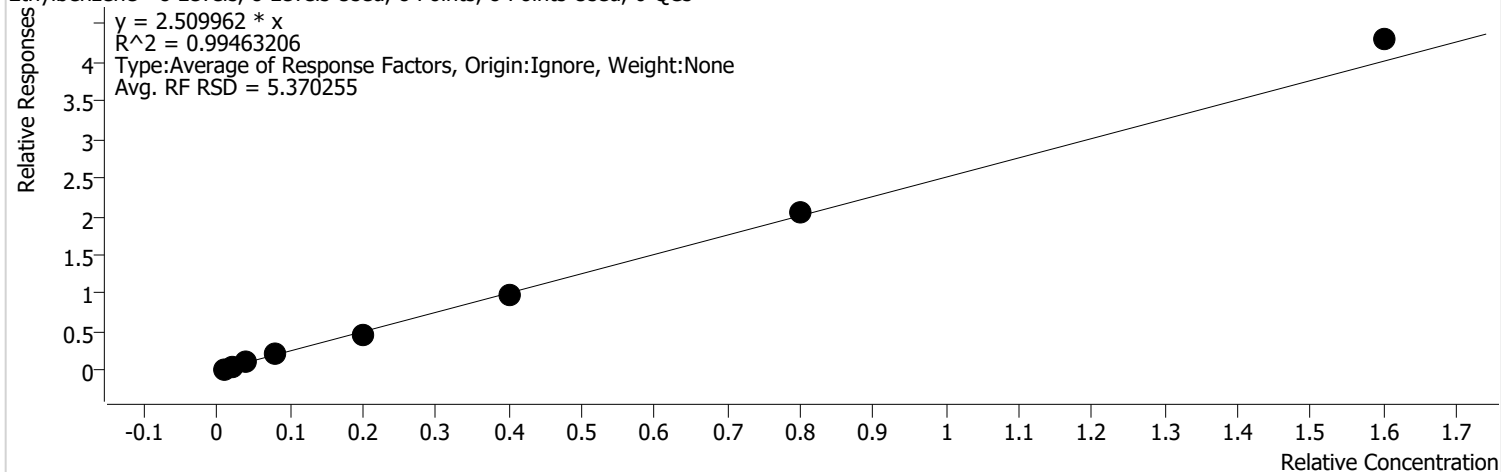
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	5534	0.2000	0.4689	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	19111	0.5000	0.6438	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	32252	1.0000	0.5166	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	68435	2.0000	0.5399	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	155050	5.0000	0.4853	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	355158	10.0000	0.5389	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	737403	20.0000	0.5518	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	1608313	40.0000	0.6036	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin	Analyst Name	FA\GC27
Analysis Time	8/25/2023 11:50 AM	Reporter Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Batch State	Processed
Last Calib Update	8/25/2023 8:36 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Ethylbenzene %RSE = 5.4

Ethylbenzene - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

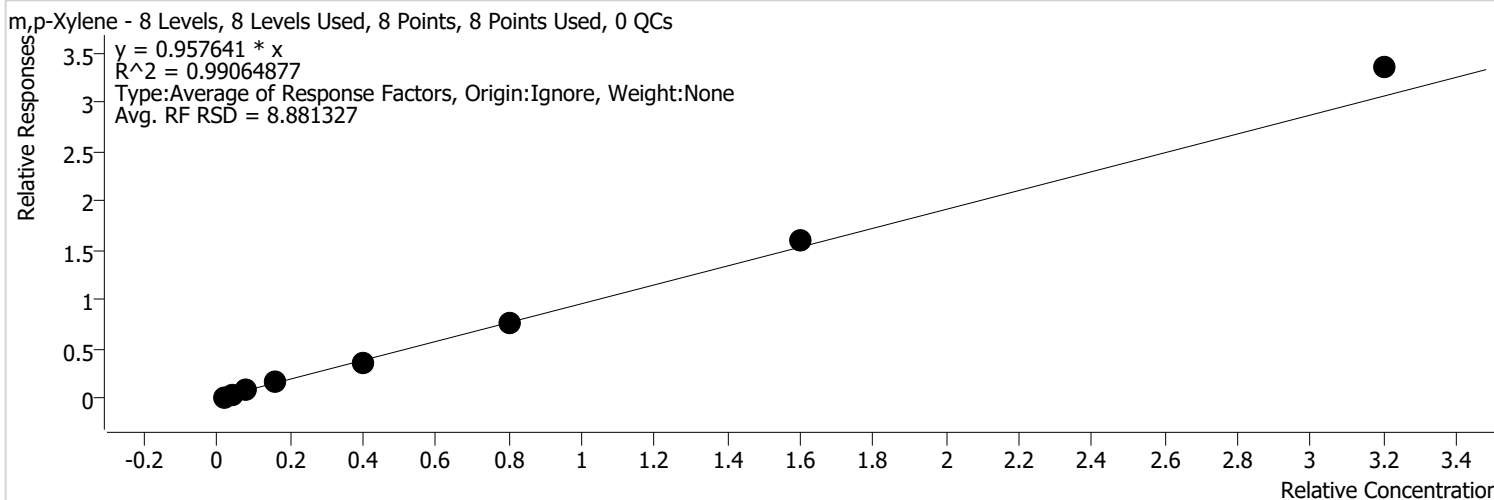


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	28749	0.2000	2.4359	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	78128	0.5000	2.6319	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	150681	1.0000	2.4134	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	330012	2.0000	2.6034	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	730279	5.0000	2.2855	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	1614626	10.0000	2.4499	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	3440898	20.0000	2.5748	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	7153868	40.0000	2.6848	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin		
Analysis Time	8/25/2023 11:50 AM	Analyst Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Reporter Name	FA\GC27
Last Calib Update	8/25/2023 8:36 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

m,p-Xylene %RSE = 8.9

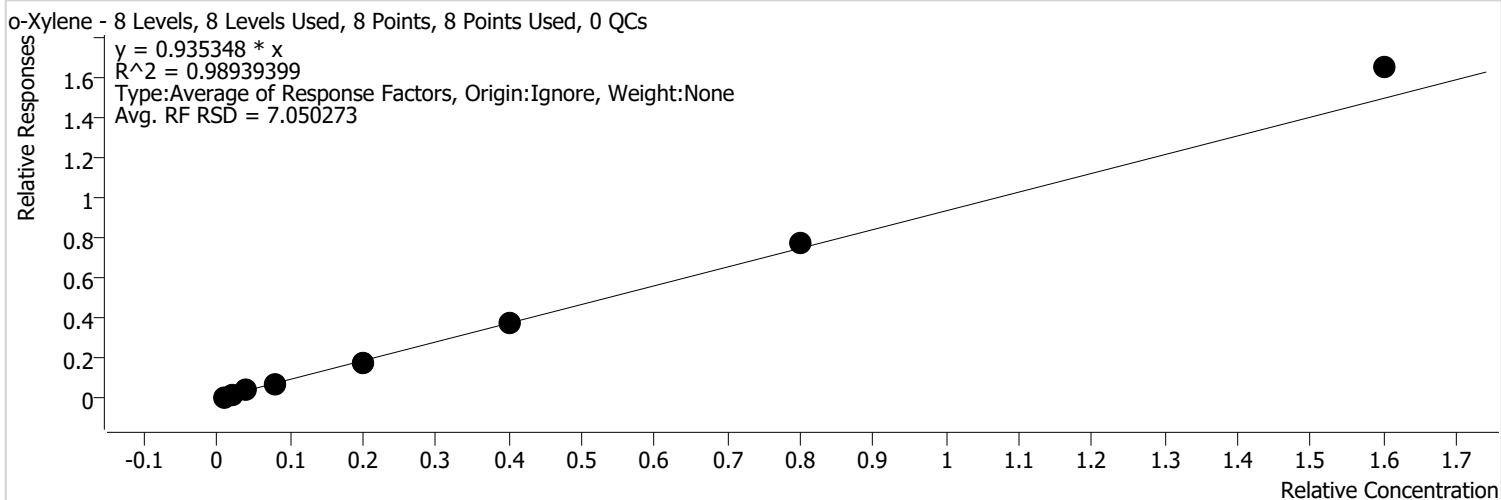


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	18965	0.4000	0.8035	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	62503	1.0000	1.0528	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	115098	2.0000	0.9217	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	252273	4.0000	0.9951	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	565868	10.0000	0.8855	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	1258812	20.0000	0.9550	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	2672127	40.0000	0.9998	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	5584033	80.0000	1.0478	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin		
Analysis Time	8/25/2023 11:50 AM	Analyst Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Reporter Name	FA\GC27
Last Calib Update	8/25/2023 8:36 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

o-Xylene %RSE = 7.1

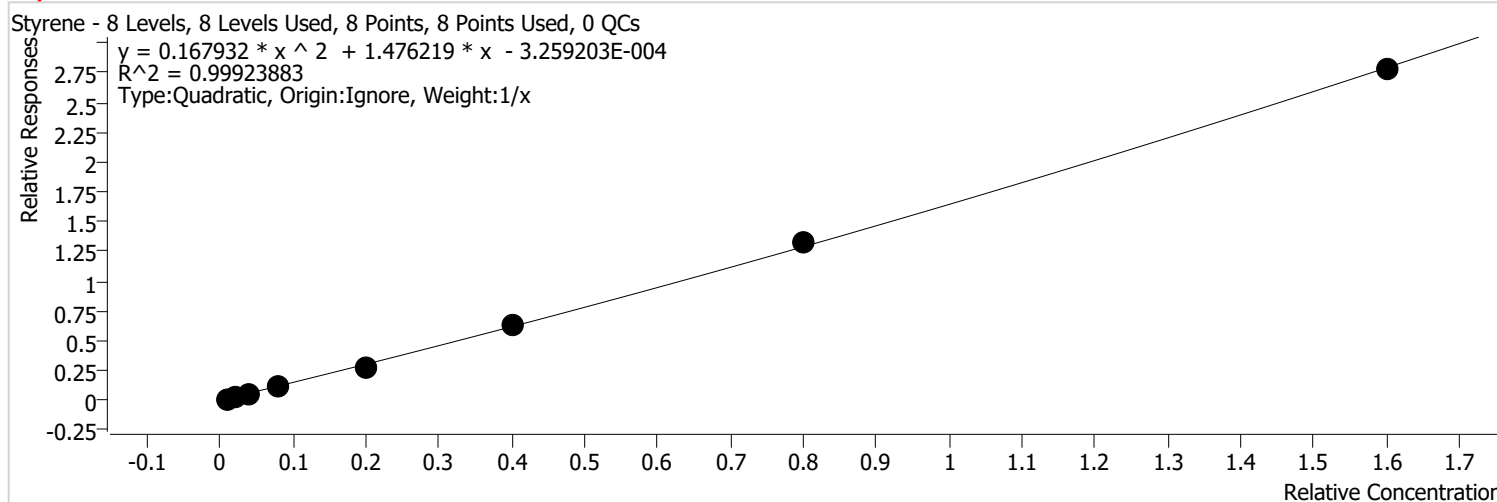


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	10083	0.2000	0.8543	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	30153	0.5000	1.0158	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	55777	1.0000	0.8934	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	117989	2.0000	0.9308	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	275146	5.0000	0.8611	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	613315	10.0000	0.9306	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	1290600	20.0000	0.9658	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	2747389	40.0000	1.0311	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin	Analyst Name	FA\GC27
Analysis Time	8/25/2023 11:50 AM	Reporter Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Batch State	Processed
Last Calib Update	8/25/2023 8:36 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Styrene %RSE = 7.6



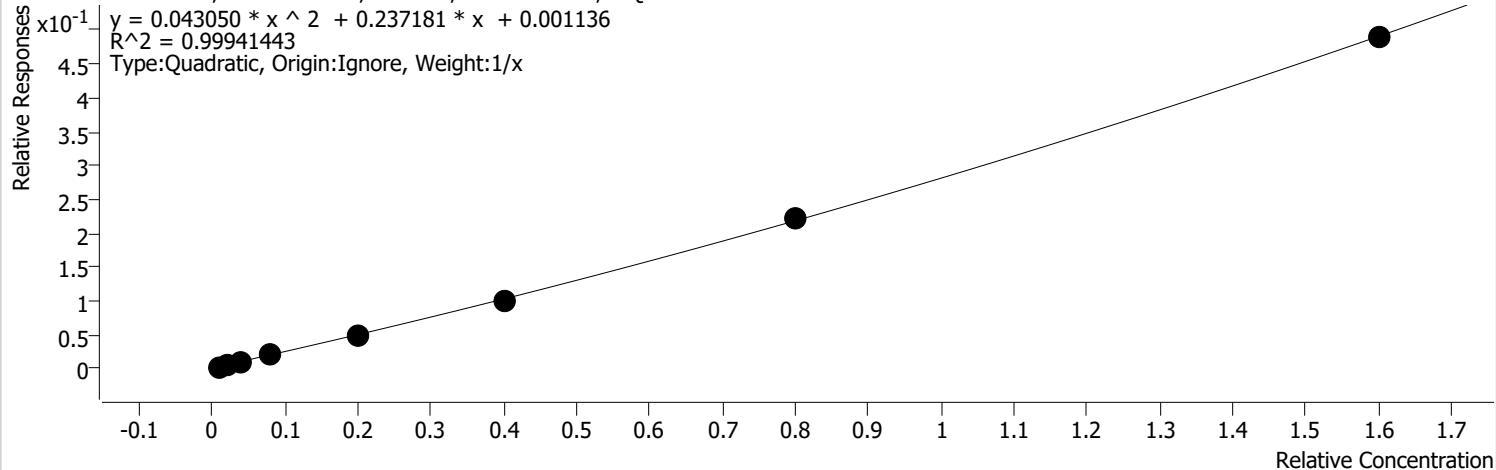
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	16826	0.2000	1.4257	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	49111	0.5000	1.6544	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	85633	1.0000	1.3715	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	188118	2.0000	1.4840	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	442825	5.0000	1.3859	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	1023908	10.0000	1.5536	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	2213742	20.0000	1.6566	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	4621356	40.0000	1.7344	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin	Analyst Name	FA\GC27
Analysis Time	8/25/2023 11:50 AM	Reporter Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Batch State	Processed
Last Calib Update	8/25/2023 8:36 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Bromoform %RSE = 11.6

Bromoform - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

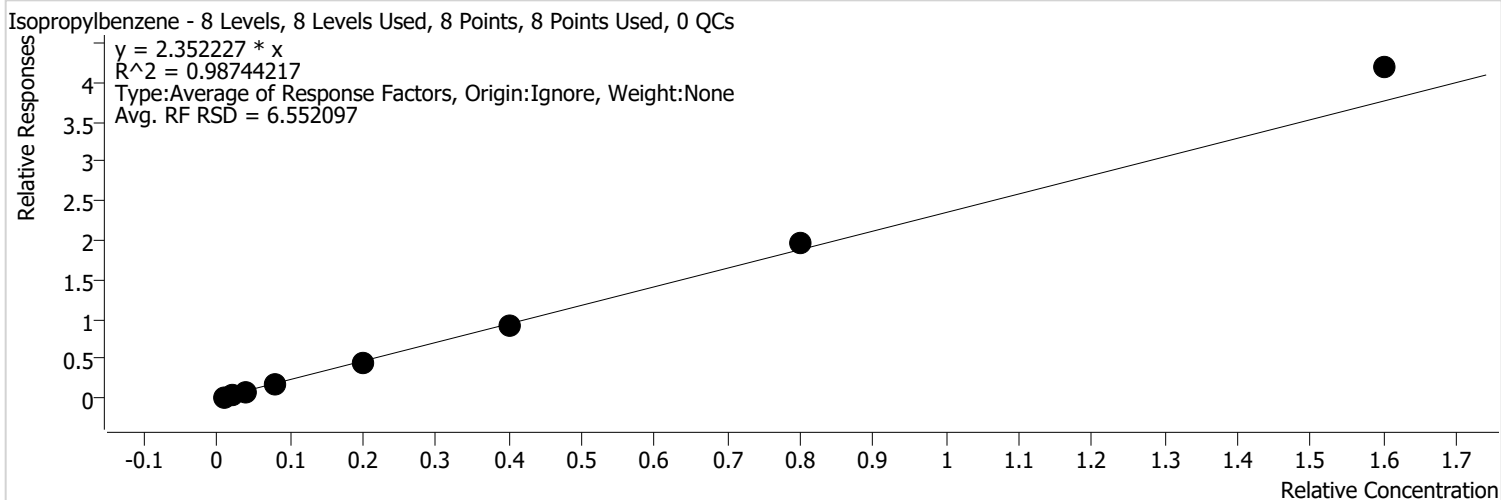


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	4014	0.2000	0.3401	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	10061	0.5000	0.3389	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	17347	1.0000	0.2778	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	31870	2.0000	0.2514	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	75887	5.0000	0.2375	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	167436	10.0000	0.2541	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	373888	20.0000	0.2798	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	814030	40.0000	0.3055	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin		
Analysis Time	8/25/2023 11:50 AM	Analyst Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Reporter Name	FA\GC27
Last Calib Update	8/25/2023 8:36 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Isopropylbenzene %RSE = 6.6

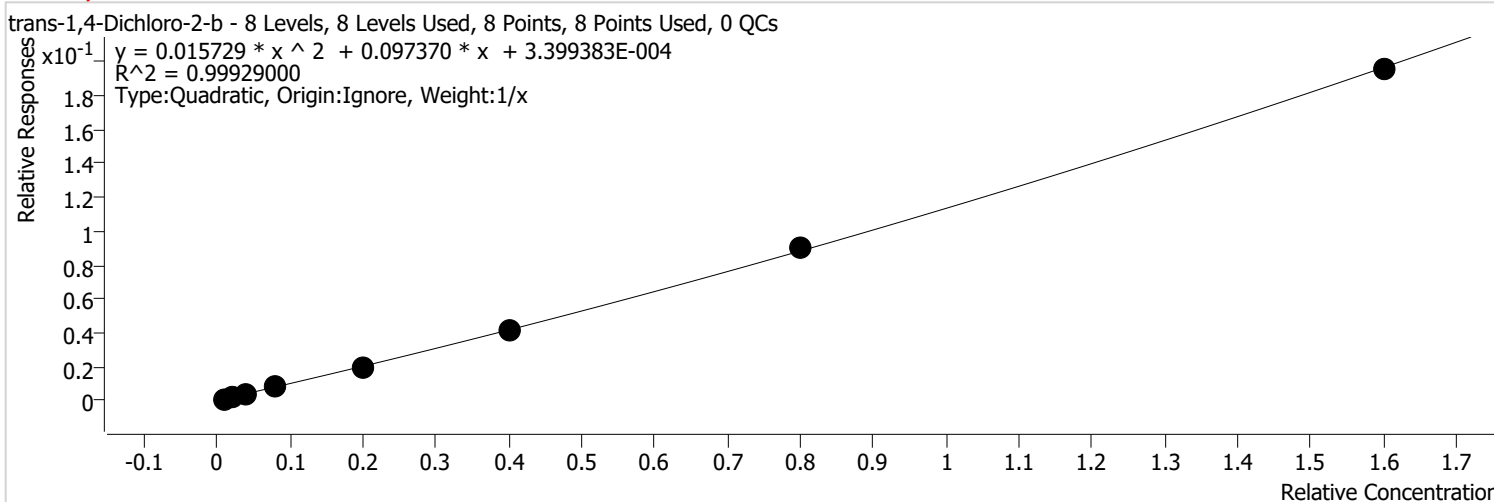


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	25759	0.2000	2.1826	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	73969	0.5000	2.4918	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	139640	1.0000	2.2365	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	293216	2.0000	2.3131	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	701477	5.0000	2.1954	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	1540499	10.0000	2.3374	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	3266804	20.0000	2.4446	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	6971526	40.0000	2.6164	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin		
Analysis Time	8/25/2023 11:50 AM	Analyst Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Reporter Name	FA\GC27
Last Calib Update	8/25/2023 8:36 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

trans-1,4-Dichloro-2-b %RSE = 9.3

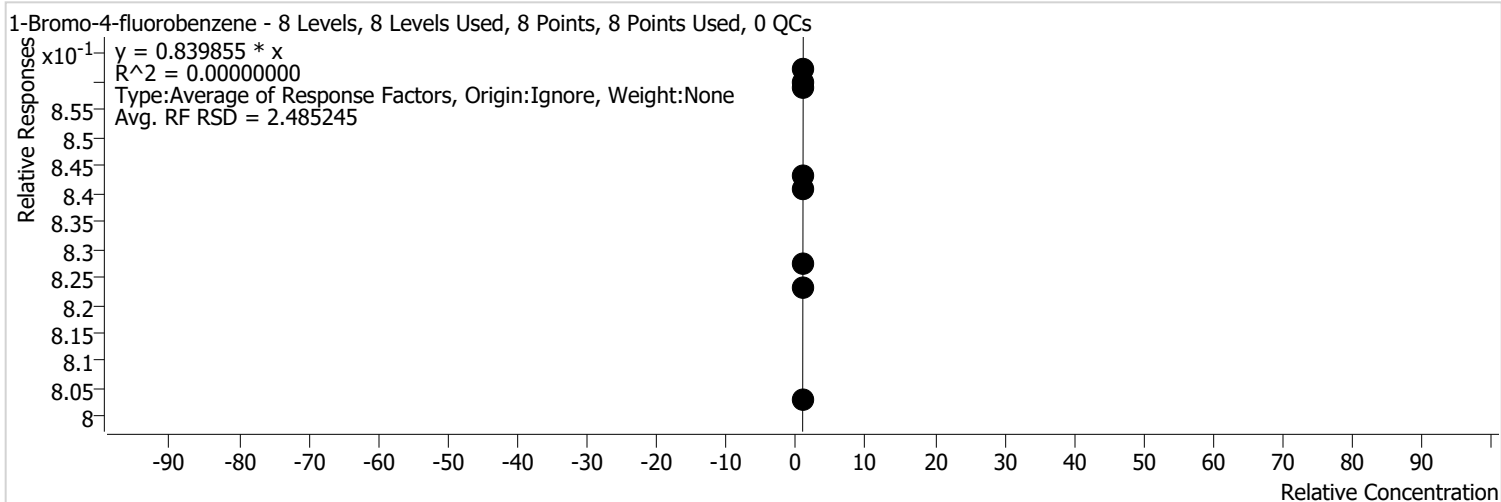


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	1855	0.2000	0.1572	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	3281	0.5000	0.1105	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	6351	1.0000	0.1017	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	12406	2.0000	0.0979	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	30340	5.0000	0.0950	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	69817	10.0000	0.1059	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	152037	20.0000	0.1138	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	324919	40.0000	0.1219	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin	Analyst Name	FA\GC27
Analysis Time	8/25/2023 11:50 AM	Reporter Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Batch State	Processed
Last Calib Update	8/25/2023 8:36 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

1-Bromo-4-fluorobenzene %RSE =



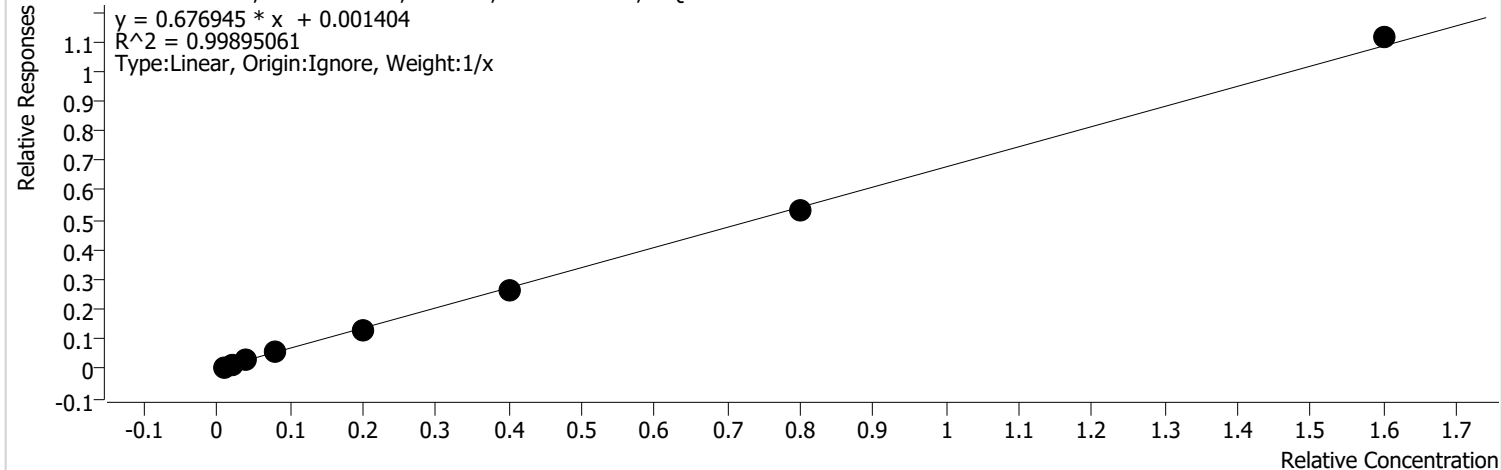
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	1400636	25.0000	0.8410	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	1440225	25.0000	0.8622	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	1389661	25.0000	0.8434	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	1373605	25.0000	0.8598	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	1304028	25.0000	0.8230	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	1291581	25.0000	0.8275	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	1192148	25.0000	0.8032	
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	1266907	25.0000	0.8588	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin	Analyst Name	FA\GC27
Analysis Time	8/25/2023 11:50 AM	Reporter Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Batch State	Processed
Last Calib Update	8/25/2023 8:36 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Bromobenzene %RSE = 5.8

Bromobenzene - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

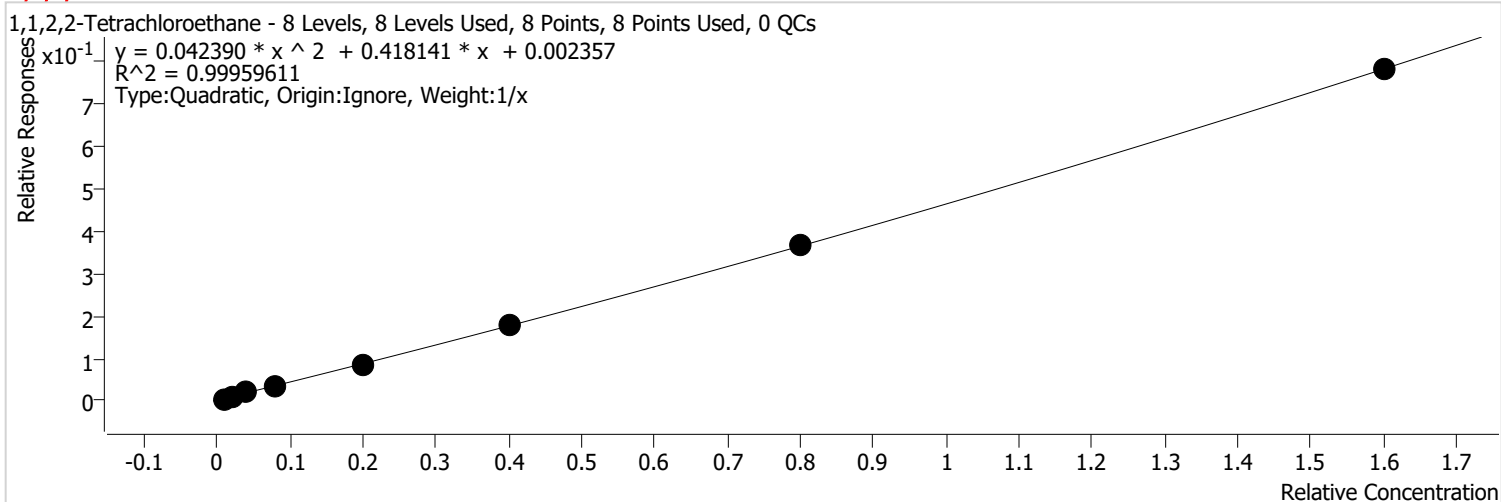


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	9818	0.2000	0.8319	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	24352	0.5000	0.8203	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	45469	1.0000	0.7283	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	87521	2.0000	0.6904	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	203935	5.0000	0.6382	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	433563	10.0000	0.6578	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	888459	20.0000	0.6648	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	1852159	40.0000	0.6951	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin	Analyst Name	FA\GC27
Analysis Time	8/25/2023 11:50 AM	Reporter Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Batch State	Processed
Last Calib Update	8/25/2023 8:36 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

1,1,2,2-Tetrachloroethane %RSE = 10.5

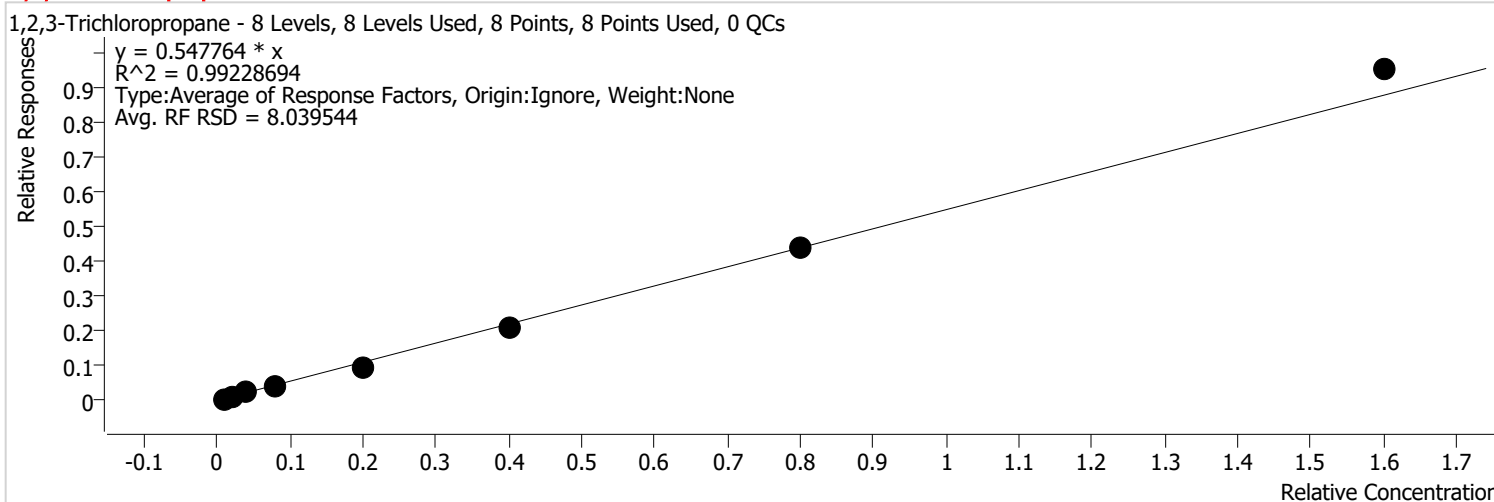


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	7634	0.2000	0.6468	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	17957	0.5000	0.6049	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	30383	1.0000	0.4866	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	58138	2.0000	0.4586	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	133030	5.0000	0.4163	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	291146	10.0000	0.4418	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	614465	20.0000	0.4598	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	1296311	40.0000	0.4865	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin	Analyst Name	FA\GC27
Analysis Time	8/25/2023 11:50 AM	Reporter Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Batch State	Processed
Last Calib Update	8/25/2023 8:36 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

1,2,3-Trichloropropane %RSE = 8.0



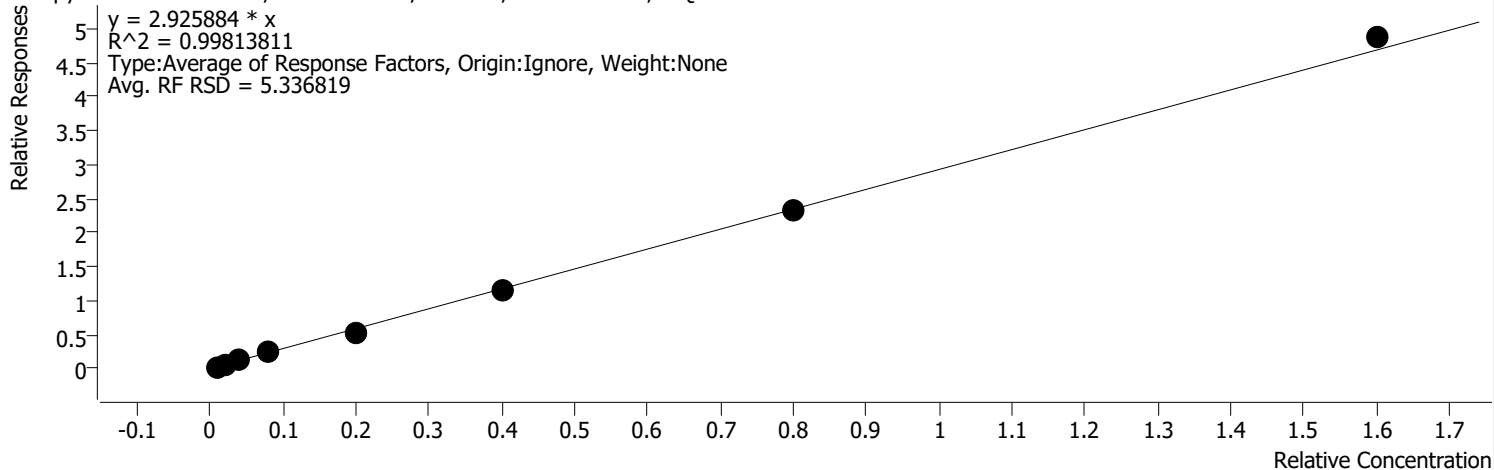
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	6364	0.2000	0.5392	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	17545	0.5000	0.5910	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	36997	1.0000	0.5926	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	67827	2.0000	0.5351	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	149959	5.0000	0.4693	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	338162	10.0000	0.5131	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	732530	20.0000	0.5482	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	1581823	40.0000	0.5936	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin	Analyst Name	FA\GC27
Analysis Time	8/25/2023 11:50 AM	Reporter Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Batch State	Processed
Last Calib Update	8/25/2023 8:36 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

n-Propylbenzene %RSE = 5.3

n-Propylbenzene - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



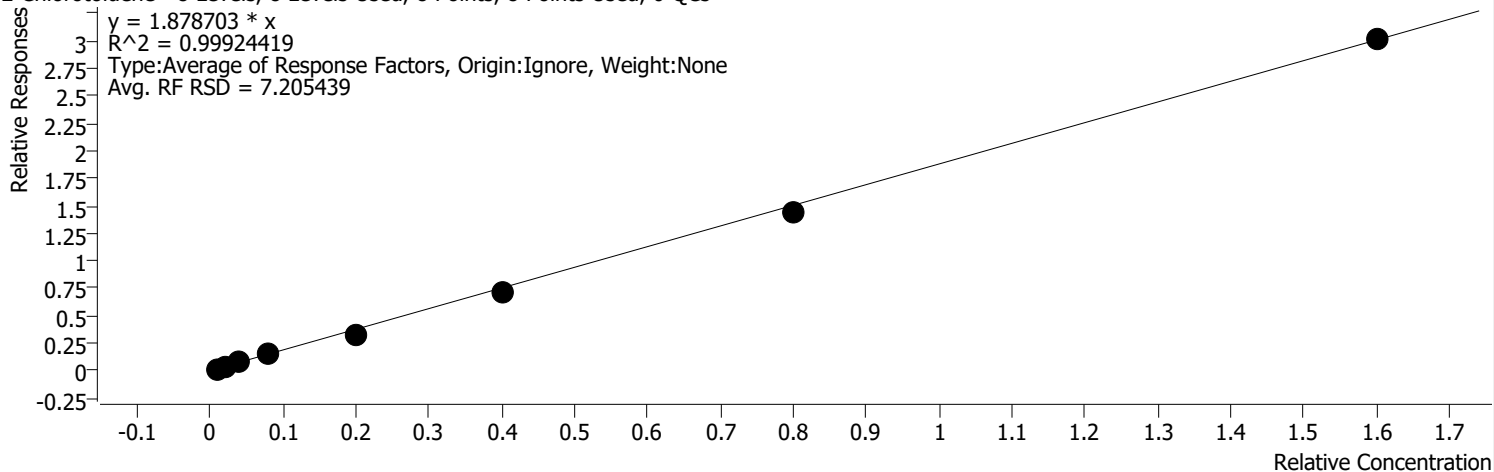
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	36305	0.2000	3.0762	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	93484	0.5000	3.1492	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	178751	1.0000	2.8630	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	362819	2.0000	2.8622	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	851390	5.0000	2.6645	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	1865601	10.0000	2.8307	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	3904919	20.0000	2.9221	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	8098250	40.0000	3.0392	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin	Analyst Name	FA\GC27
Analysis Time	8/25/2023 11:50 AM	Reporter Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Batch State	Processed
Last Calib Update	8/25/2023 8:36 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

2-Chlorotoluene %RSE = 7.2

2-Chlorotoluene - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

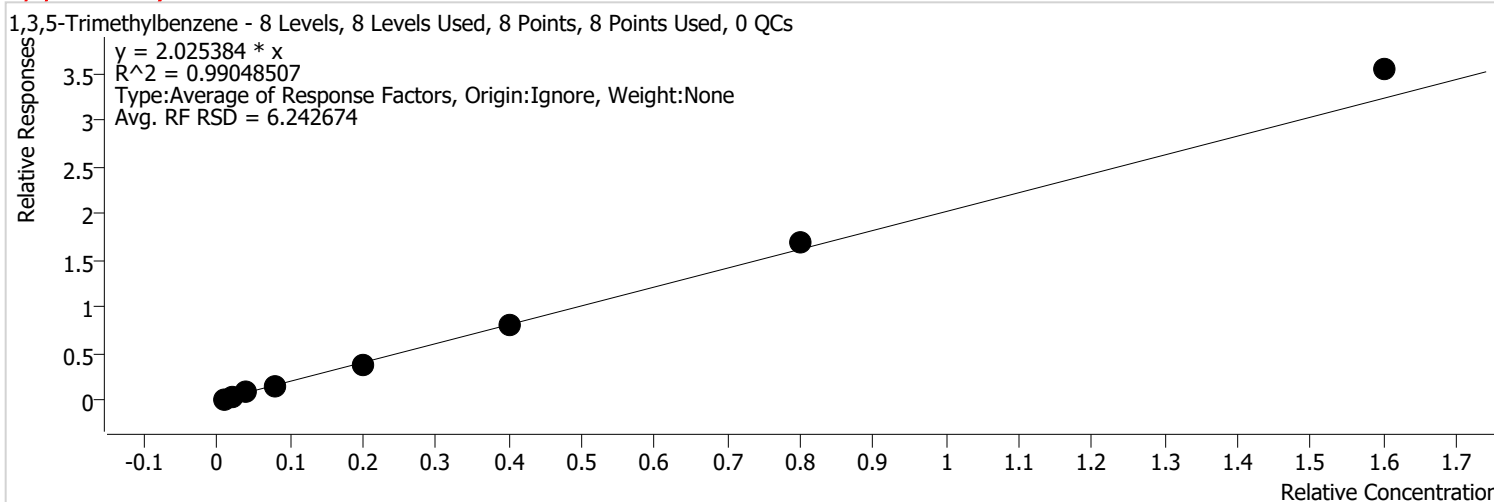


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	24469	0.2000	2.0733	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	61343	0.5000	2.0665	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	116234	1.0000	1.8617	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	237439	2.0000	1.8731	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	534319	5.0000	1.6722	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	1179657	10.0000	1.7899	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	2422754	20.0000	1.8130	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	5009460	40.0000	1.8800	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin		
Analysis Time	8/25/2023 11:50 AM	Analyst Name	FA\GC27
Report Time	8/25/2023 11:58:31 AM	Reporter Name	FA\GC27
Last Calib Update	8/25/2023 8:36 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,3,5-Trimethylbenzene %RSE = 6.2



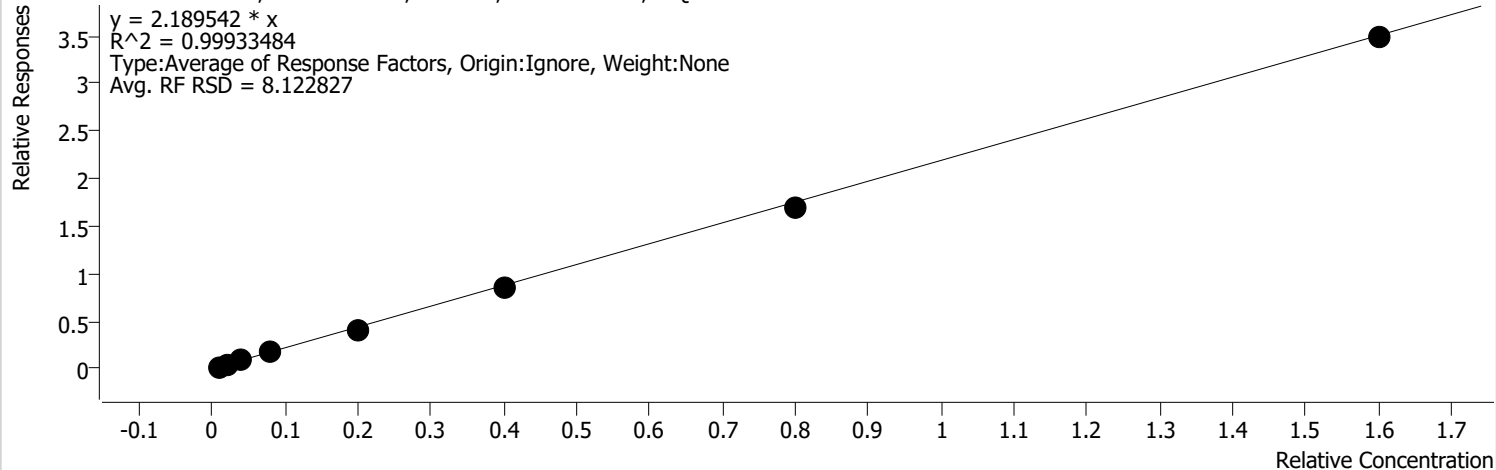
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	22597	0.2000	1.9147	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	63933	0.5000	2.1537	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	121039	1.0000	1.9386	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	245077	2.0000	1.9334	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	601467	5.0000	1.8824	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	1343695	10.0000	2.0388	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	2838817	20.0000	2.1243	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	5907807	40.0000	2.2172	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin	Analyst Name	FA\GC27
Analysis Time	8/25/2023 11:50 AM	Reporter Name	FA\GC27
Report Time	8/25/2023 11:58:31 AM	Batch State	Processed
Last Calib Update	8/25/2023 8:36 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

4-Chlorotoluene %RSE = 8.1

4-Chlorotoluene - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



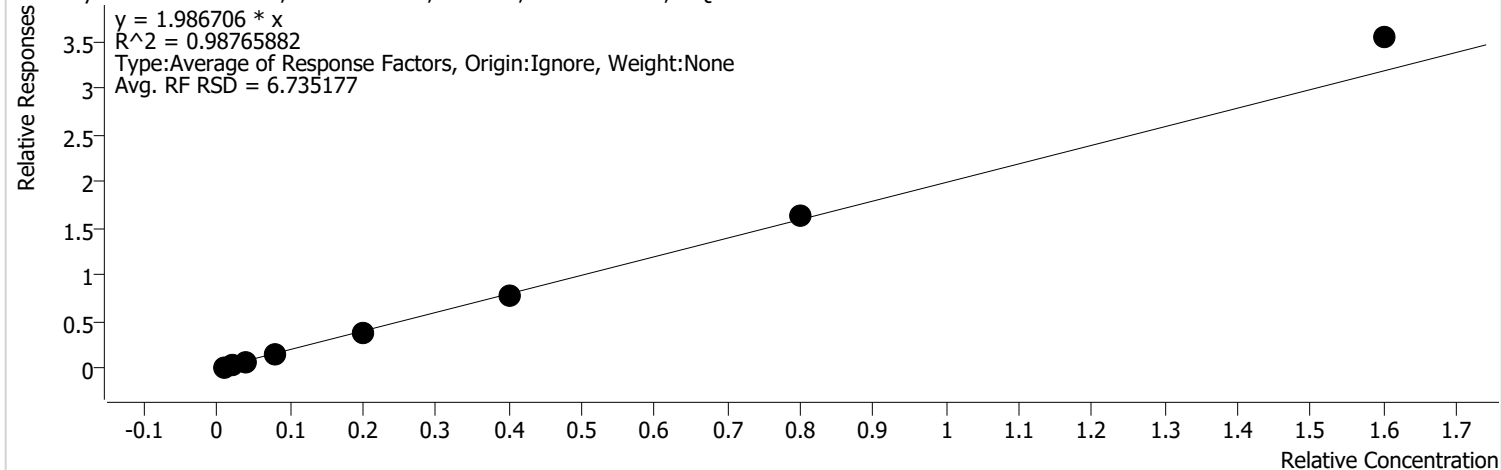
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	28731	0.2000	2.4344	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	73434	0.5000	2.4738	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	129988	1.0000	2.0820	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	275551	2.0000	2.1738	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	623530	5.0000	1.9514	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	1384854	10.0000	2.1012	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	2840344	20.0000	2.1254	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	5793511	40.0000	2.1743	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin		
Analysis Time	8/25/2023 11:50 AM	Analyst Name	FA\GC27
Report Time	8/25/2023 11:58:31 AM	Reporter Name	FA\GC27
Last Calib Update	8/25/2023 8:36 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

tert-Butylbenzene %RSE = 6.7

tert-Butylbenzene - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

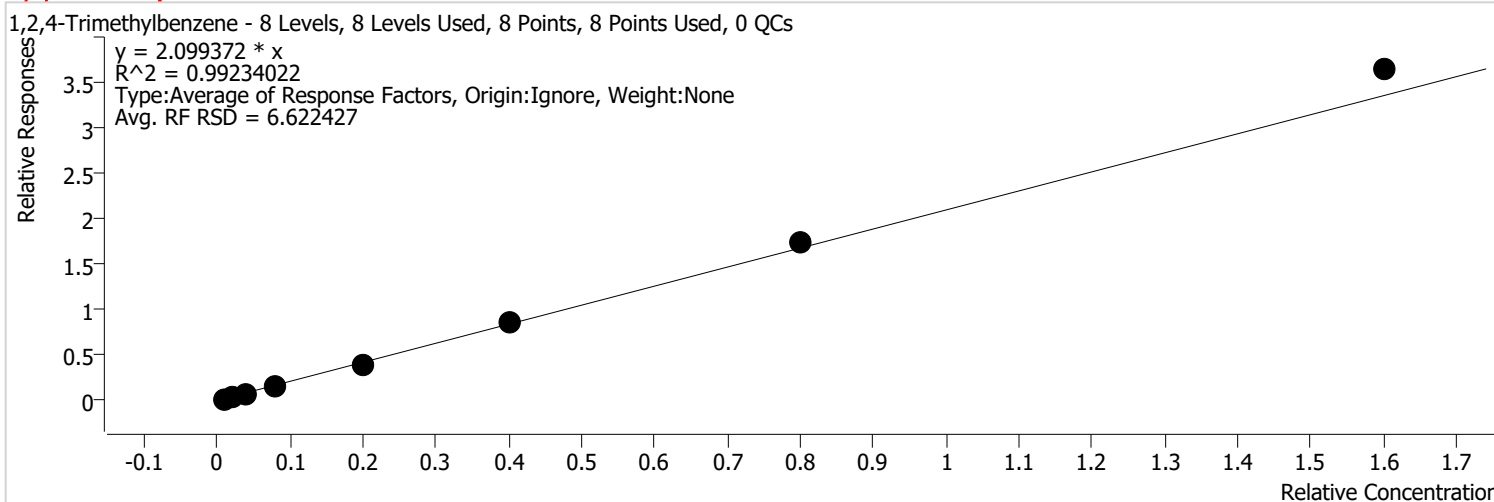


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	21632	0.2000	1.8329	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	63010	0.5000	2.1226	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	117095	1.0000	1.8755	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	251767	2.0000	1.9862	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	592098	5.0000	1.8531	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	1298544	10.0000	1.9703	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	2731860	20.0000	2.0443	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	5885878	40.0000	2.2089	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin		
Analysis Time	8/25/2023 11:50 AM	Analyst Name	FA\GC27
Report Time	8/25/2023 11:58:31 AM	Reporter Name	FA\GC27
Last Calib Update	8/25/2023 8:36 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,2,4-Trimethylbenzene %RSE = 6.6



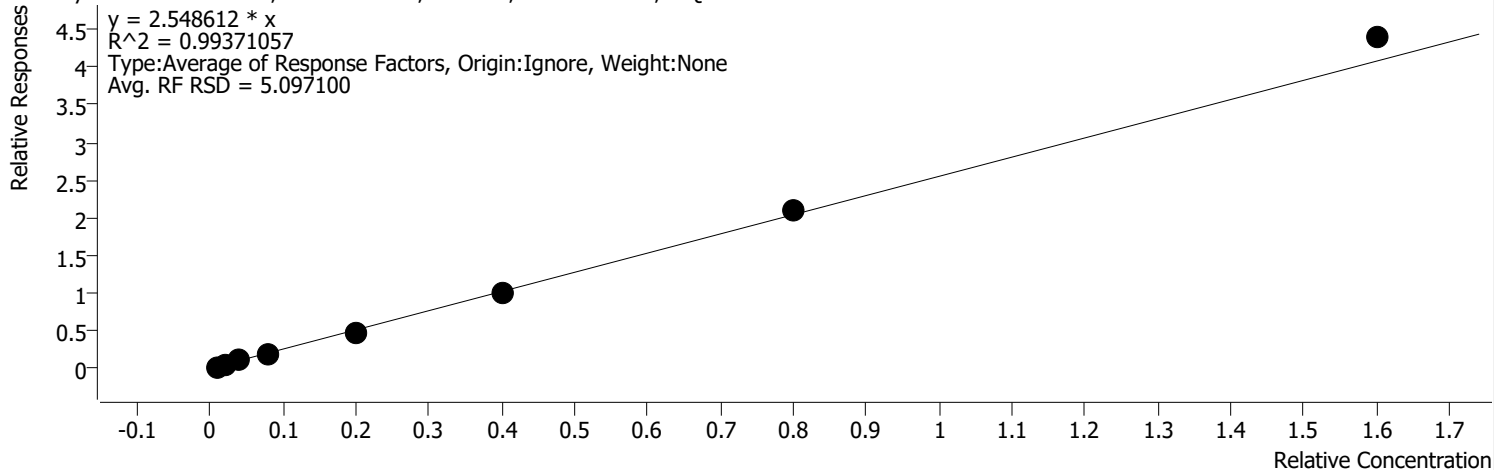
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	26144	0.2000	2.2152	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	64865	0.5000	2.1851	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	119109	1.0000	1.9077	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	253739	2.0000	2.0017	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	614007	5.0000	1.9216	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	1397808	10.0000	2.1209	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	2892639	20.0000	2.1646	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	6070165	40.0000	2.2781	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin		
Analysis Time	8/25/2023 11:50 AM	Analyst Name	FA\GC27
Report Time	8/25/2023 11:58:31 AM	Reporter Name	FA\GC27
Last Calib Update	8/25/2023 8:36 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

sec-Butylbenzene %RSE = 5.1

sec-Butylbenzene - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

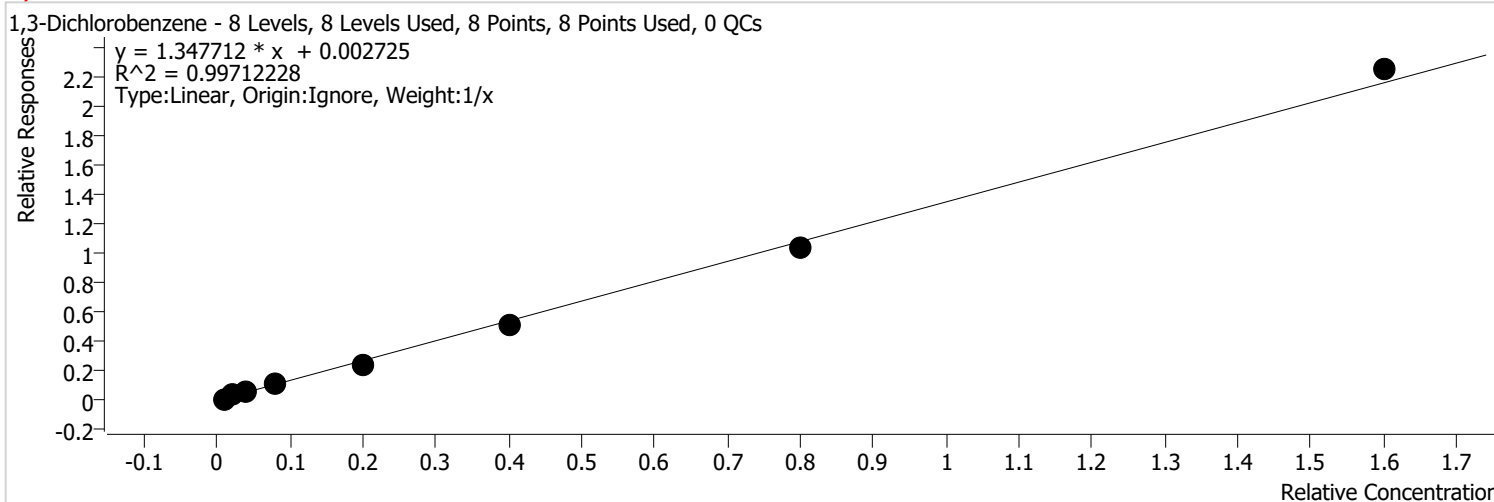


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	28946	0.2000	2.4527	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	79936	0.5000	2.6928	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	151631	1.0000	2.4286	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	321088	2.0000	2.5330	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	760679	5.0000	2.3807	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	1664701	10.0000	2.5258	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	3517830	20.0000	2.6324	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	7308573	40.0000	2.7429	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin	Analyst Name	FA\GC27
Analysis Time	8/25/2023 11:50 AM	Reporter Name	FA\GC27
Report Time	8/25/2023 11:58:31 AM	Batch State	Processed
Last Calib Update	8/25/2023 8:36 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

1,3-Dichlorobenzene %RSE = 11.6

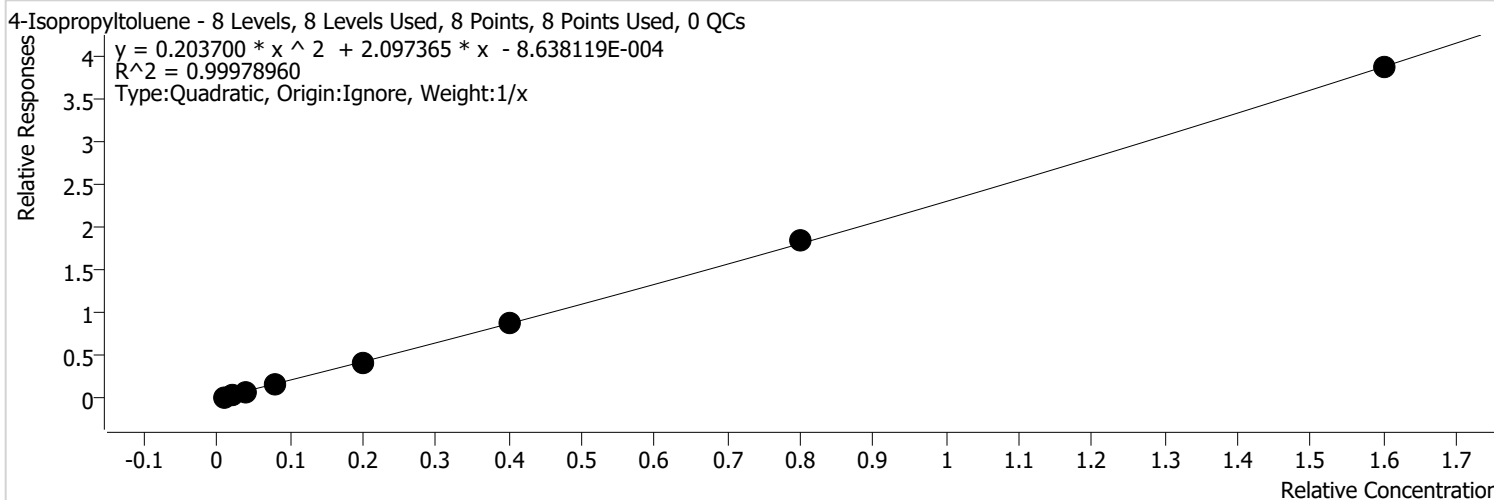


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	19107	0.2000	1.5927	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	51102	0.5000	1.8092	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	86916	1.0000	1.4129	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	170383	2.0000	1.3556	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	394145	5.0000	1.2143	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	846496	10.0000	1.2950	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	1744210	20.0000	1.3013	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	3599572	40.0000	1.4054	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin		
Analysis Time	8/25/2023 11:50 AM	Analyst Name	FA\GC27
Report Time	8/25/2023 11:58:31 AM	Reporter Name	FA\GC27
Last Calib Update	8/25/2023 8:36 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

4-Isopropyltoluene %RSE = 3.9

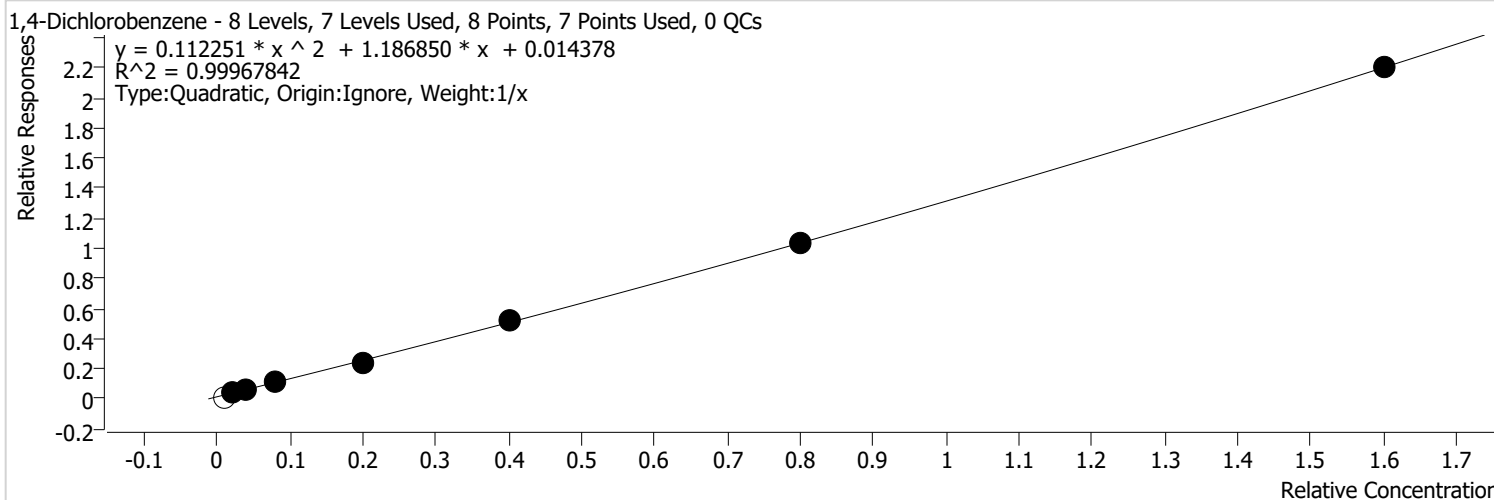


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	23605	0.2000	2.0001	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	64927	0.5000	2.1872	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	124251	1.0000	1.9901	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	267904	2.0000	2.1135	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	652659	5.0000	2.0426	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	1442725	10.0000	2.1890	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	3060865	20.0000	2.2905	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	6436561	40.0000	2.4156	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin	Analyst Name	FA\GC27
Analysis Time	8/25/2023 11:50 AM	Reporter Name	FA\GC27
Report Time	8/25/2023 11:58:31 AM	Batch State	Processed
Last Calib Update	8/25/2023 8:36 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

1,4-Dichlorobenzene %RSE = 3.7



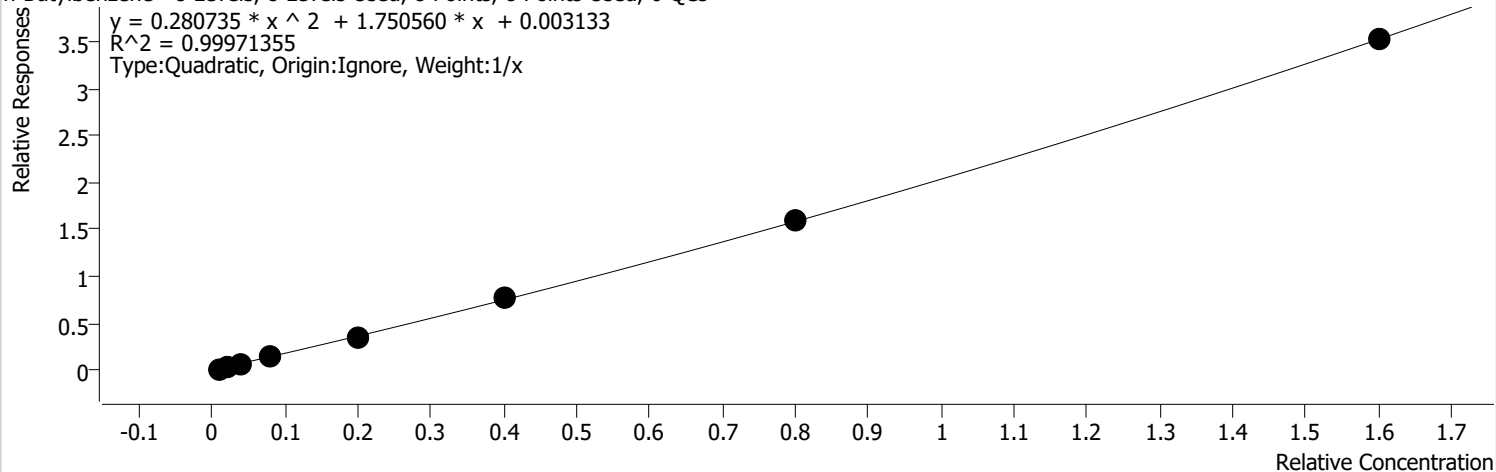
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1		21231	0.2000	1.7698	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	53474	0.5000	1.8932	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	95629	1.0000	1.5546	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	179438	2.0000	1.4277	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	393772	5.0000	1.2131	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	847561	10.0000	1.2966	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	1733355	20.0000	1.2932	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	3521518	40.0000	1.3749	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin	Analyst Name	FA\GC27
Analysis Time	8/25/2023 11:50 AM	Reporter Name	FA\GC27
Report Time	8/25/2023 11:58:31 AM	Batch State	Processed
Last Calib Update	8/25/2023 8:36 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

n-Butylbenzene %RSE = 7.0

n-Butylbenzene - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

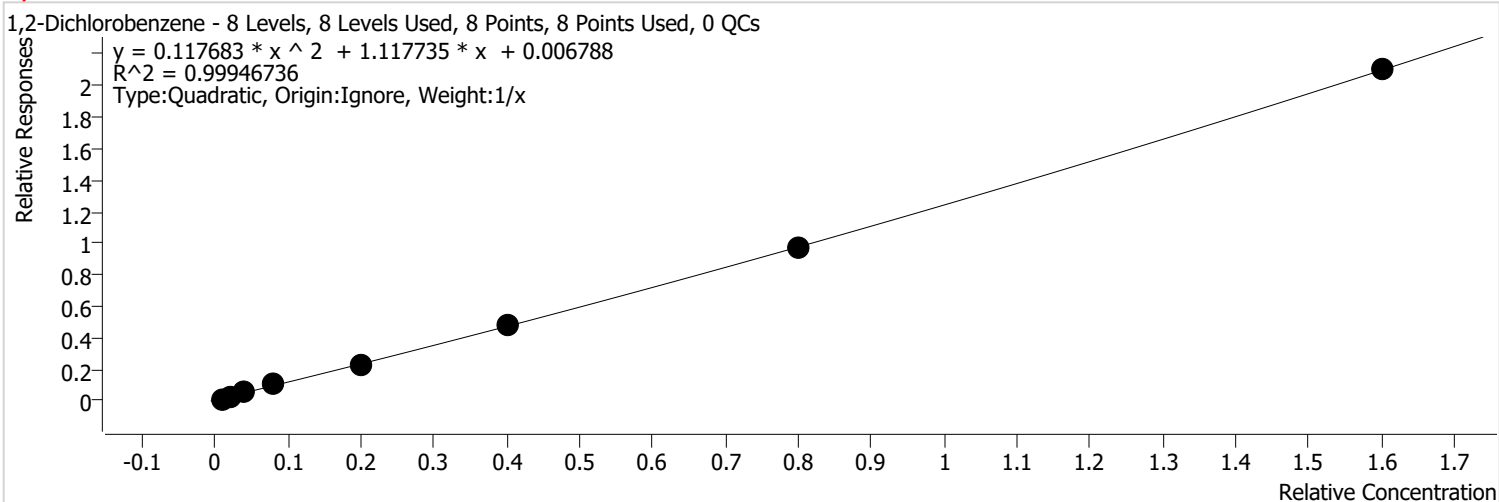


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	23867	0.2000	1.9895	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	59574	0.5000	2.1092	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	110920	1.0000	1.8032	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	235307	2.0000	1.8722	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	560010	5.0000	1.7253	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	1240668	10.0000	1.8980	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	2662889	20.0000	1.9867	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	5633332	40.0000	2.1995	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin	Analyst Name	FA\GC27
Analysis Time	8/25/2023 11:50 AM	Reporter Name	FA\GC27
Report Time	8/25/2023 11:58:31 AM	Batch State	Processed
Last Calib Update	8/25/2023 8:36 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

1,2-Dichlorobenzene %RSE = 11.7



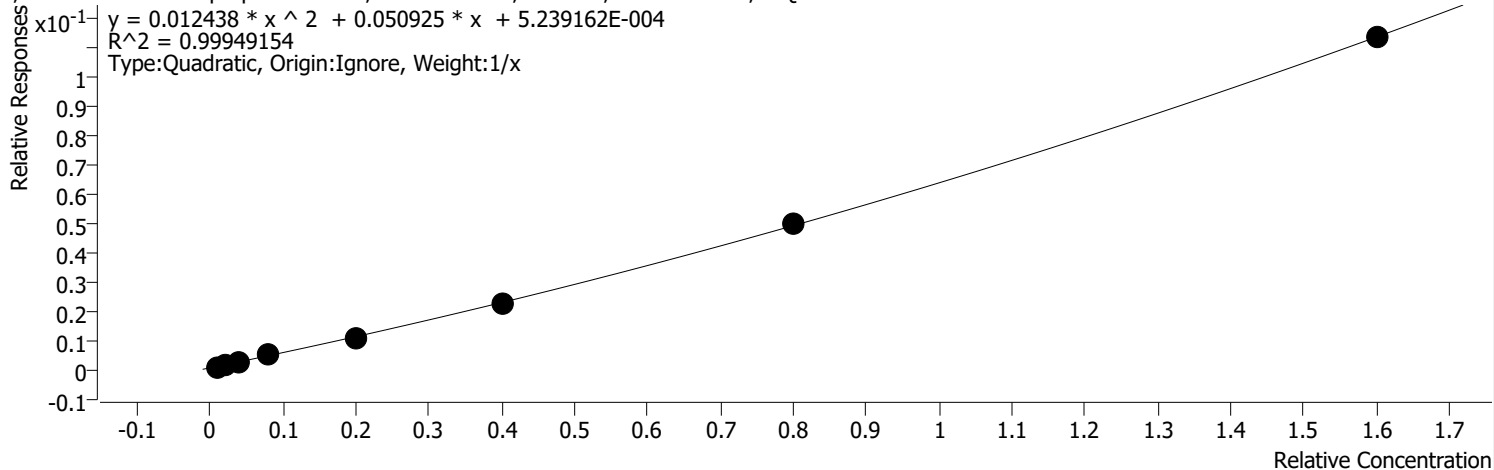
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	20983	0.2000	1.7491	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	46064	0.5000	1.6308	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	80383	1.0000	1.3067	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	162032	2.0000	1.2892	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	362864	5.0000	1.1179	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	786489	10.0000	1.2032	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	1620770	20.0000	1.2092	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	3361377	40.0000	1.3124	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin	Analyst Name	FA\GC27
Analysis Time	8/25/2023 11:50 AM	Reporter Name	FA\GC27
Report Time	8/25/2023 11:58:31 AM	Batch State	Processed
Last Calib Update	8/25/2023 8:36 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

1,2-Dibromo-3-chloropropa %RSE = 10.2

1,2-Dibromo-3-chloropropa - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



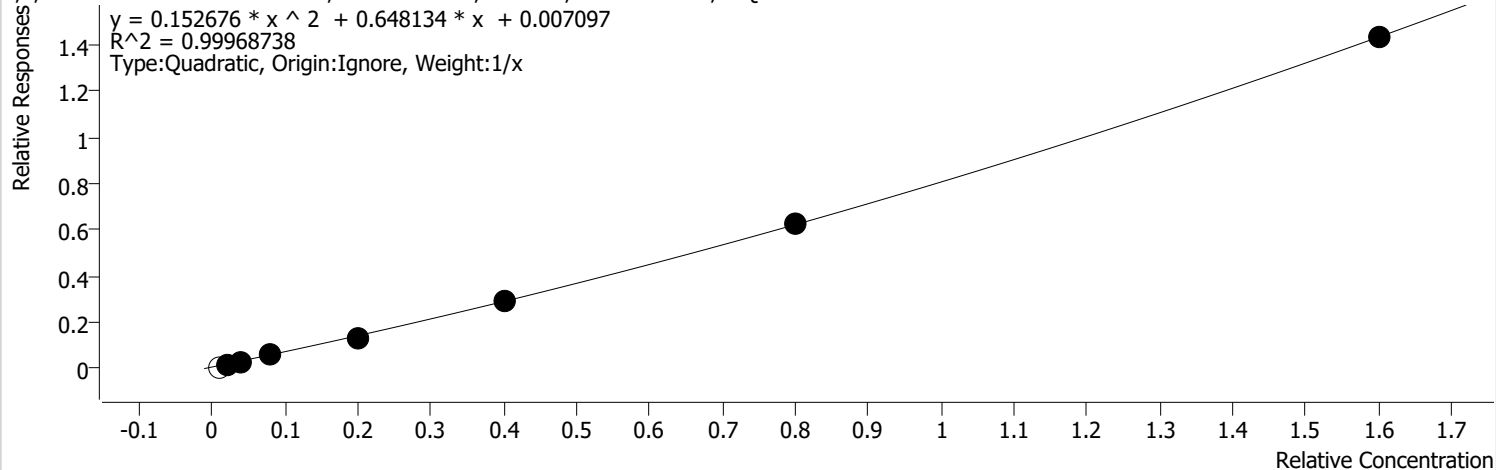
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	1303	0.2000	0.1086	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	2374	0.5000	0.0840	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	4007	1.0000	0.0651	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	7849	2.0000	0.0625	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	16944	5.0000	0.0522	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	37247	10.0000	0.0570	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	83625	20.0000	0.0624	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	181850	40.0000	0.0710	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin	Analyst Name	FA\GC27
Analysis Time	8/25/2023 11:50 AM	Reporter Name	FA\GC27
Report Time	8/25/2023 11:58:31 AM	Batch State	Processed
Last Calib Update	8/25/2023 8:36 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

1,2,4-Trichlorobenzene %RSE = 5.5

1,2,4-Trichlorobenzene - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 0 QCs



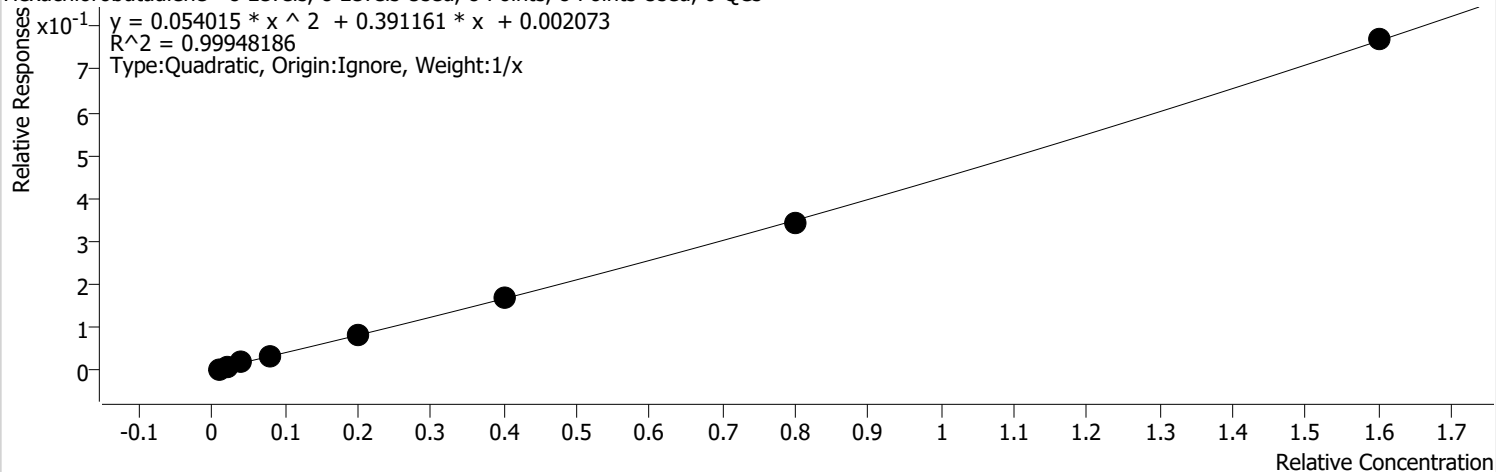
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1		12049	0.2000	1.0044	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	29319	0.5000	1.0380	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	48720	1.0000	0.7920	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	98375	2.0000	0.7827	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	218656	5.0000	0.6736	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	481698	10.0000	0.7369	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	1052598	20.0000	0.7853	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	2292977	40.0000	0.8953	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin		
Analysis Time	8/25/2023 11:50 AM	Analyst Name	FA\GC27
Report Time	8/25/2023 11:58:31 AM	Reporter Name	FA\GC27
Last Calib Update	8/25/2023 8:36 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Hexachlorobutadiene %RSE = 13.2

Hexachlorobutadiene - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



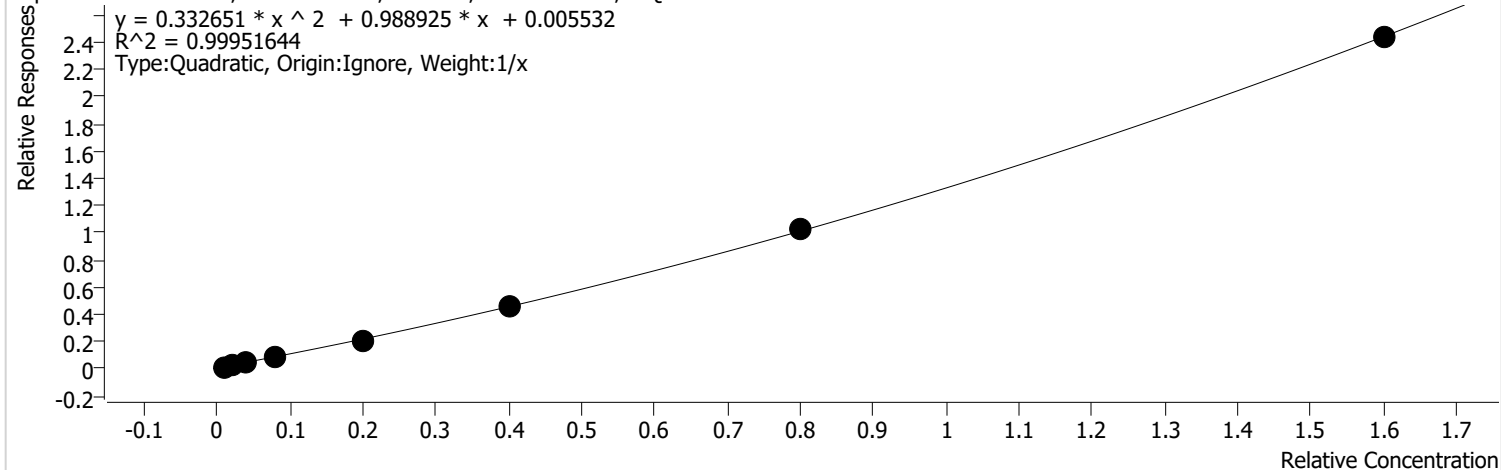
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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D:\GC-27\DATA\082423\082427.D	Calibration	3	x	29657	1.0000	0.4821	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	56729	2.0000	0.4514	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	131004	5.0000	0.4036	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	275059	10.0000	0.4208	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	575349	20.0000	0.4292	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	1231110	40.0000	0.4807	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin	Analyst Name	FA\GC27
Analysis Time	8/25/2023 11:50 AM	Reporter Name	FA\GC27
Report Time	8/25/2023 11:58:31 AM	Batch State	Processed
Last Calib Update	8/25/2023 8:36 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Naphthalene %RSE = 9.5

Naphthalene - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

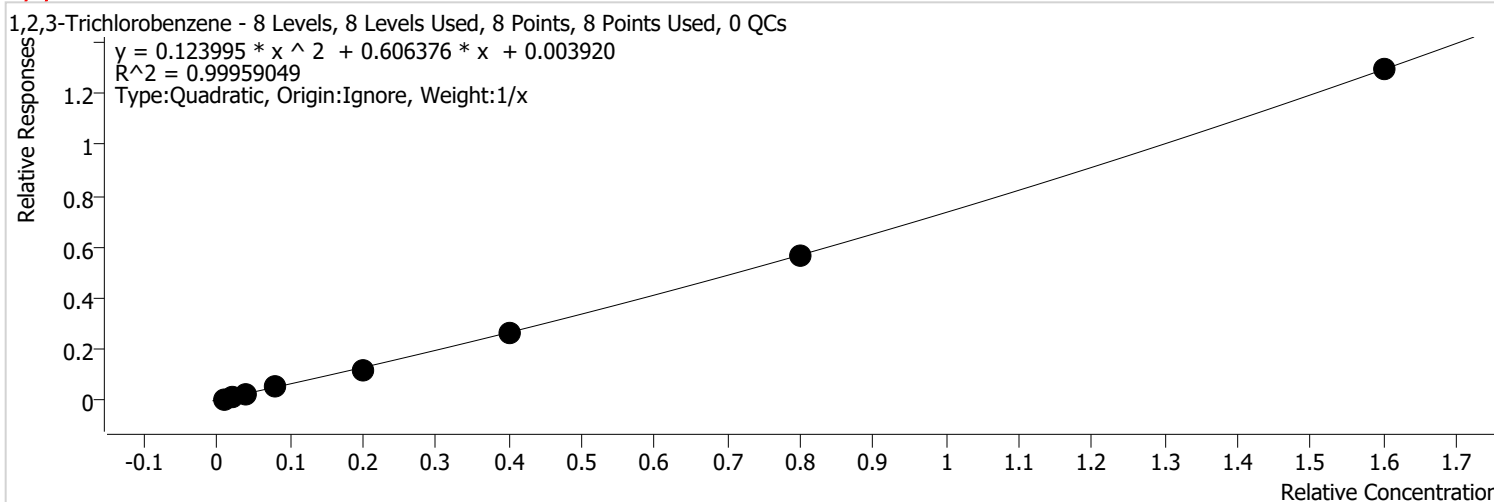


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	18870	0.2000	1.5729	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	40478	0.5000	1.4331	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	69083	1.0000	1.1230	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	139783	2.0000	1.1122	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	323460	5.0000	0.9965	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	748005	10.0000	1.1443	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	1721343	20.0000	1.2842	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	3892583	40.0000	1.5198	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin	Analyst Name	FA\GC27
Analysis Time	8/25/2023 11:50 AM	Reporter Name	FA\GC27
Report Time	8/25/2023 11:58:31 AM	Batch State	Processed
Last Calib Update	8/25/2023 8:36 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

1,2,3-Trichlorobenzene %RSE = 11.0



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	11940	0.2000	0.9953	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	25500	0.5000	0.9028	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	43229	1.0000	0.7027	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	88644	2.0000	0.7053	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	199871	5.0000	0.6158	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	437210	10.0000	0.6688	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	956663	20.0000	0.7137	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	2066028	40.0000	0.8066	

VOC Soil Calibration




Date: 8/24/23
 Analyst: CC
 Instrument: GC-29

Cal	ICV
8260 Standard: <u>28810</u>	8260 Standard: <u>28801</u>

IS/Surrogate 28797

Cal Level	Spike Conc. (ppb)	Cal 8260 Spike (uL)	ICV 8260 Spike (uL)	Amount MeOH (mL)	Final Vol. (mL)	Comments
1	0.2	0.50	--	1.00	50	
2	0.5	1.25	--	1.00	50	
3	1	2.50	--	1.00	50	
4	2	5.00	--	1.00	50	
5	5	12.50	--	1.00	50	
6	10	25.00	--	1.00	50	
7	20	50.00	--	1.00	50	
8	40	100.00	--	1.00	50	
	ICV (20 ppb)	--	50.00	1.00	50	<u>CC 8/24/23</u>

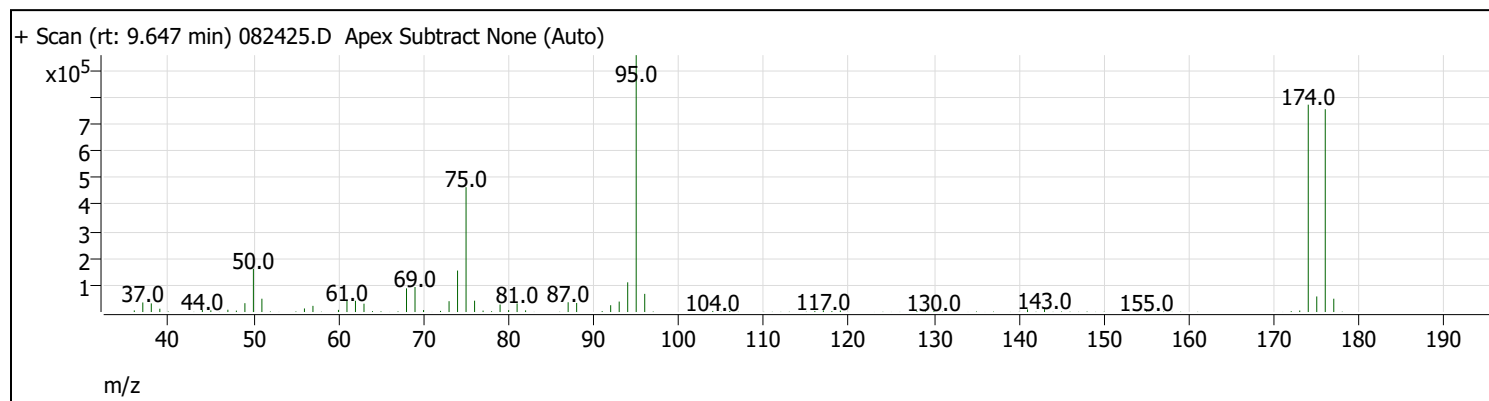
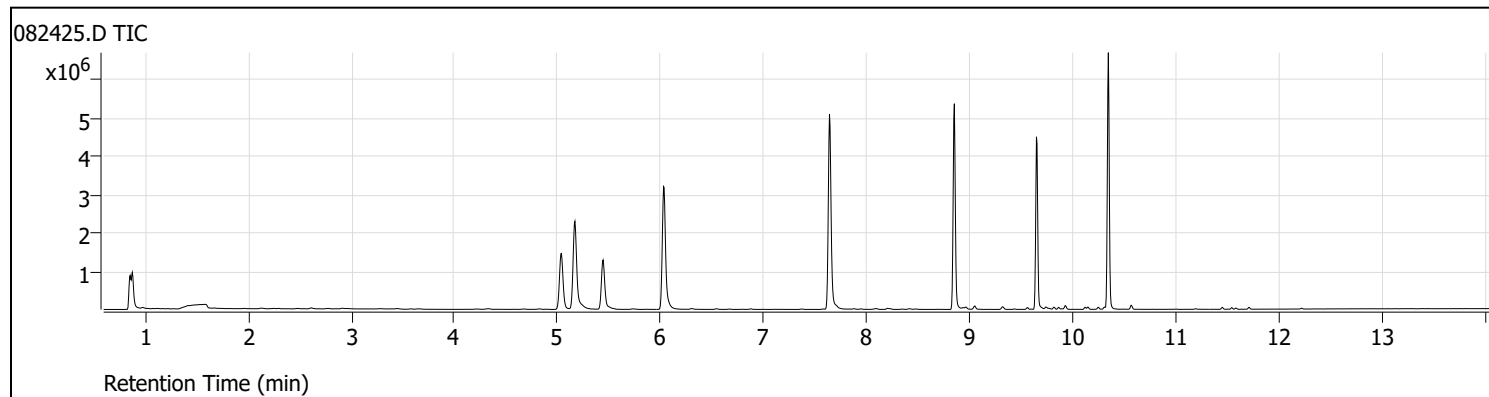
Signature and Date:  8/24/23



Tunes

Tune Evaluation Report

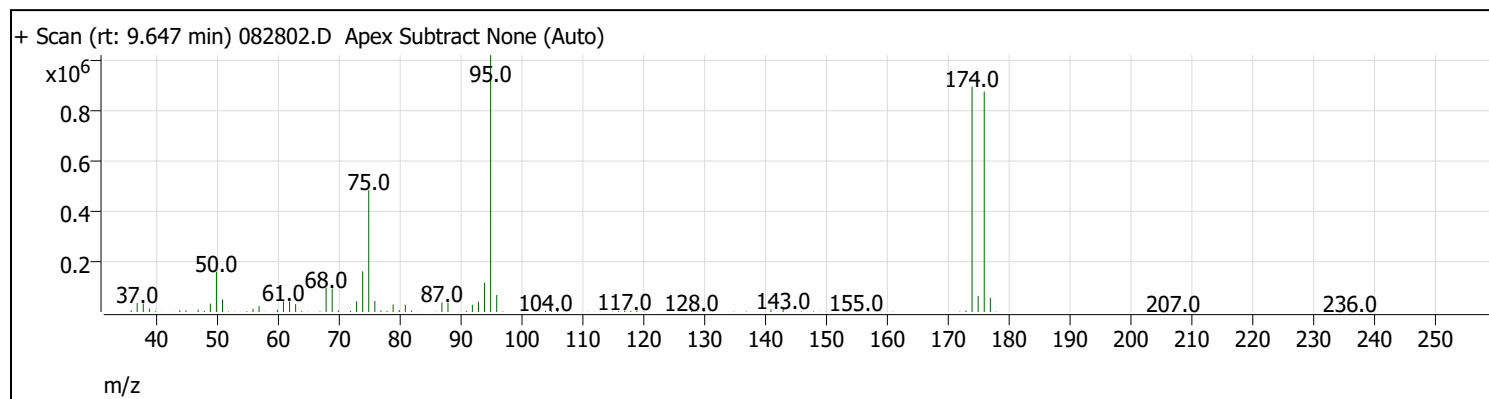
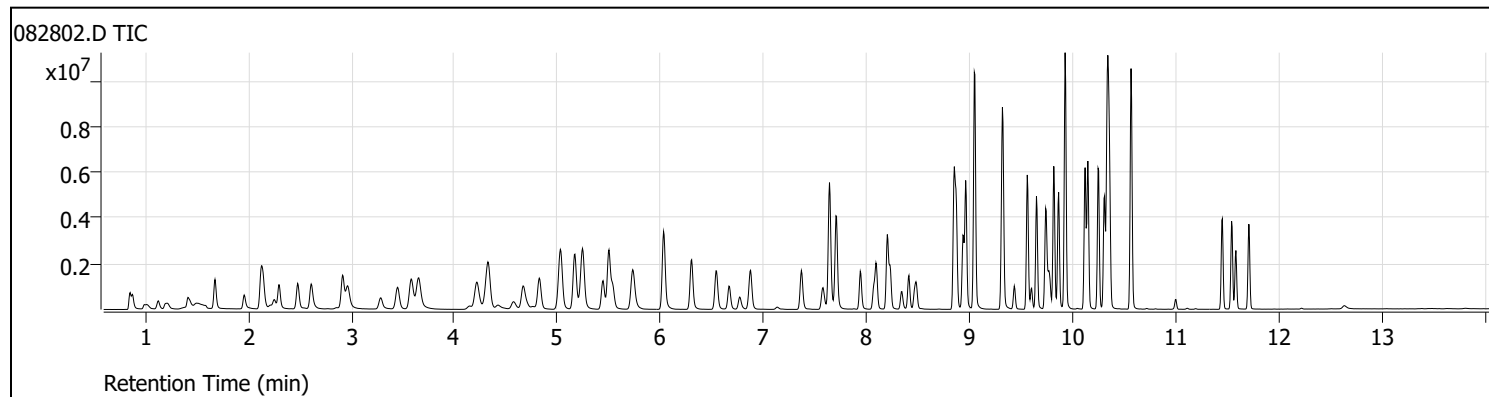
Data Path: D:\GC-27\DATA\082423\082425.D
 Acq on: 8/25/2023 4:24:23 AM
 Operator: CMC/MDS/KJ
 Sample: VOC-S ICAL1
 Inst Name: GC-27
 ALS Vial: 44
 Method: D:\MassHunter\Methods\Quant\BFB2021.m



Target Mass	Rel. To Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Pass/Fail
95	174	50	200	123.9	955452	Pass
96	95	5	9	7.1	67636	Pass
173	174	0	2	0.7	5674	Pass
174	95	50	200	80.7	771231	Pass
175	174	5	9	7.5	57908	Pass
176	174	95	105	97.8	754322	Pass
177	176	5	10	6.6	49584	Pass

Tune Evaluation Report

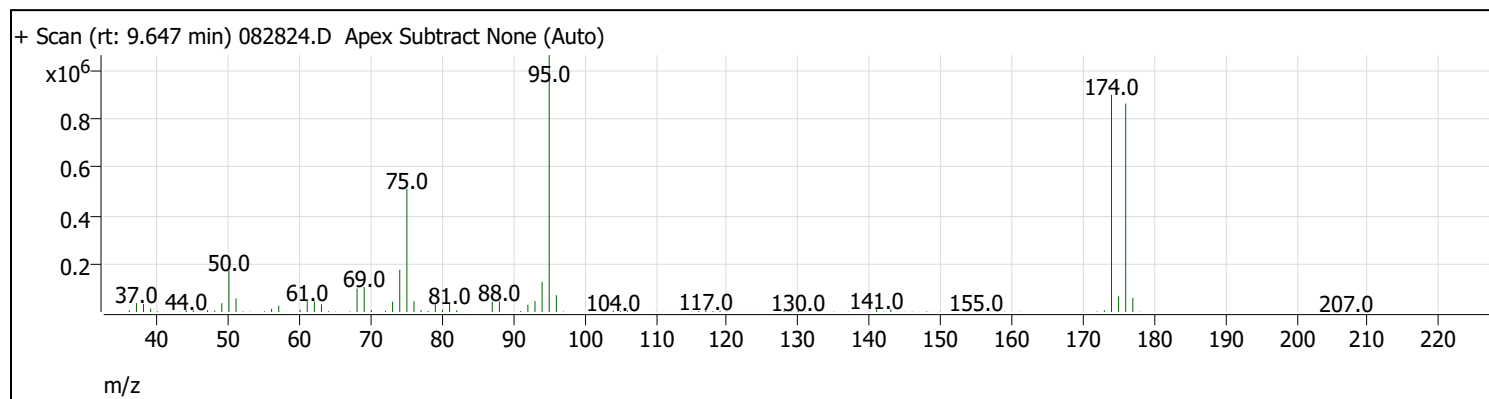
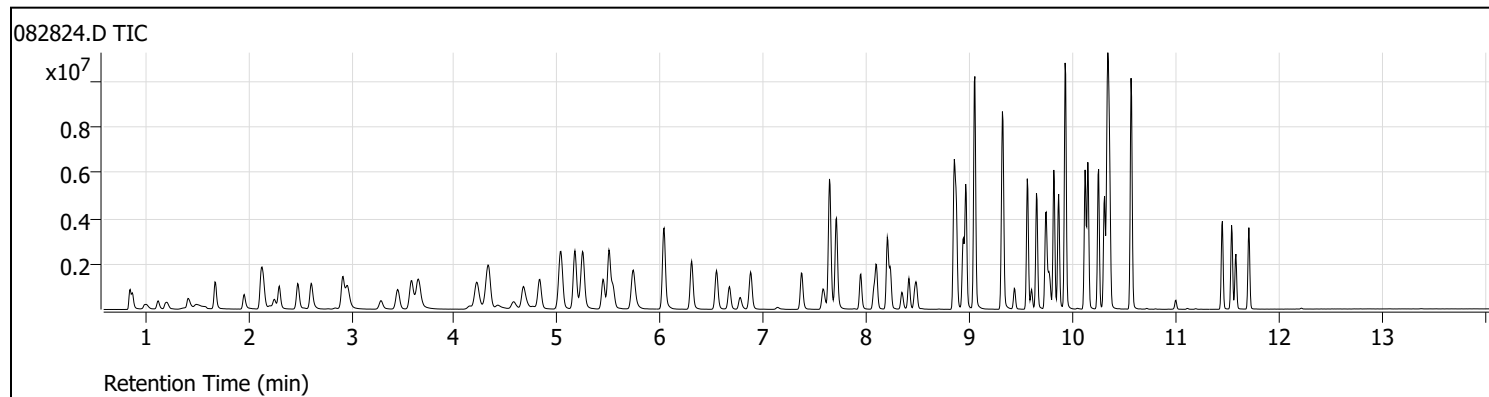
Data Path: D:\GC-27\DATA\082823\082802.D
 Acq on: 8/28/2023 9:34:42 AM
 Operator: CMC/MDS/KJ
 Sample: VOC S CCV A
 Inst Name: GC-27
 ALS Vial: 1
 Method: D:\MassHunter\Methods\Quant\BFB2021.m



Target Mass	Rel. To Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Pass/Fail
95	174	50	200	114.0	1026390	Pass
96	95	5	9	6.6	68132	Pass
173	174	0	2	0.7	6140	Pass
174	95	50	200	87.7	900051	Pass
175	174	5	9	7.2	64559	Pass
176	174	95	105	97.9	881163	Pass
177	176	5	10	6.3	55887	Pass

Tune Evaluation Report

Data Path: D:\GC-27\DATA\082823\082824.D
 Acq on: 8/28/2023 8:54:08 PM
 Operator: CMC/MDS/KJ
 Sample: VOC S CCV B
 Inst Name: GC-27
 ALS Vial: 19
 Method: D:\MassHunter\Methods\Quant\BFB2021.m



Target Mass	Rel. To Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Pass/Fail
95	174	50	200	118.3	1066708	Pass
96	95	5	9	6.6	70061	Pass
173	174	0	2	0.8	6956	Pass
174	95	50	200	84.6	902022	Pass
175	174	5	9	7.2	65373	Pass
176	174	95	105	96.0	865574	Pass
177	176	5	10	6.8	58660	Pass



Internal Standards

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-27 230829A CCV Name: VOC-S 86143
 Run No: 86189 CCV SeqNo: 1798786
 Lab File ID (Standard): 082431.D Date Analyzed: 8/25/2023
 Instrument ID: GC-27 Time Analyzed: 7:25
 GC Column: ID (mm): Length (M):

	IS1 FBZ AREA #	RT #	IS2 (CBZ) AREA #	RT #	IS3 (14DCBZ) AREA #	RT #		
12 HOUR STD	2284072	5.170	1670438	8.850	1675470	10.345		
UPPER LIMIT	4568144	5.670	3340876	9.350	3350940	10.845		
LOWER LIMIT	1142036	4.670	835219	8.350	837735	9.845		
SAMPLE NO.								
01	CCV-41329A	2.17614e+006	5.17	1.55762e+006	8.85	1.59527e+006	10.345	
02	CCV-41329B	2.24214e+006	5.169	1.6523e+006	8.85	1.67393e+006	10.344	

IS1 FBZ = Fluorobenzene

IS3 (14DCBZ) = 1,4-Dichlorobenzene-d4

IS2 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-27 230829A

CCV Name: CCV-41329A

Run No: 86189

CCV SeqNo: 1798782

Lab File ID (Standard): 082802.D

Date Analyzed: 8/28/2023

Instrument ID: GC-27

Time Analyzed: 9:34

GC Column:

ID (mm):

Length (M):

	IS1 FBZ AREA #	RT #	IS2 (CBZ) AREA #	RT #	IS3 (14DCBZ) AREA #	RT #		
12 HOUR STD	2176140	5.170	1557623	8.850	1595271	10.345		
UPPER LIMIT	4352280	5.670	3115246	9.350	3190542	10.845		
LOWER LIMIT	1088070	4.670	778812	8.350	797636	9.845		
SAMPLE NO.								
01	LCS-41329	2.17614e+006	5.17	1.55762e+006	8.85	1.59527e+006	10.345	
02	MB-41329	2.05033e+006	5.17	1.53732e+006	8.85	1.4801e+006	10.344	
03	2308369-004A	2.02052e+006	5.164	1.48045e+006	8.85	1.3713e+006	10.345	
04	2308369-001B	2.14458e+006	5.17	1.58743e+006	8.85	1.53975e+006	10.345	
05	2308369-001BDUP	2.06695e+006	5.169	1.56496e+006	8.85	1.5044e+006	10.344	
06	2308369-002B	2.15681e+006	5.17	1.5205e+006	8.85	1.44107e+006	10.344	
07	2308369-005B	2.22938e+006	5.17	1.56879e+006	8.85	1.53376e+006	10.345	
08	2308369-006B	2.26165e+006	5.17	1.48461e+006	8.85	1.5148e+006	10.345	
09	2308369-003B	2.06115e+006	5.17	1.58409e+006	8.85	1.61595e+006	10.345	
10	2308369-003B	2.17439e+006	5.17	1.63595e+006	8.85	1.56245e+006	10.345	

IS1 FBZ = Fluorobenzene

IS3 (14DCBZ) = 1,4-Dichlorobenzene-d4

IS2 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-27 230829A

CCV Name: CCV-41329B

Run No: 86189

CCV SeqNo: 1798783

Lab File ID (Standard): 082824.D

Date Analyzed: 8/28/2023

Instrument ID: GC-27

Time Analyzed: 20:54

GC Column:

ID (mm):

Length (M):

	IS1 FBZ AREA #	RT #	IS2 (CBZ) AREA #	RT #	IS3 (14DCBZ) AREA #	RT #		
12 HOUR STD	2242139	5.169	1652298	8.850	1673925	10.344		
UPPER LIMIT	4484278	5.669	3304596	9.350	3347850	10.844		
LOWER LIMIT	1121070	4.669	826149	8.350	836963	9.844		
SAMPLE NO.								
01 2308362-001B	1.89259e+006	5.17	1.54102e+006	8.85	1.5097e+006	10.345		
02 2308362-001BDUP	1.87595e+006	5.17	1.51038e+006	8.85	1.46101e+006	10.345		
03 2308362-002B	2.00971e+006	5.17	1.51473e+006	8.85	1.44109e+006	10.345		
04 2308362-003B	1.7954e+006	5.17	1.39158e+006	8.85	1.39663e+006	10.345		
05 2308362-004B	1.94642e+006	5.17	1.52016e+006	8.85	1.47167e+006	10.345		
06 2308362-005B	1.82535e+006	5.17	1.46794e+006	8.85	1.5435e+006	10.344		
07 2308362-006B	1.8297e+006	5.169	1.52806e+006	8.85	1.50006e+006	10.344		
08 2308362-008B	2.1483e+006	5.17	1.61269e+006	8.85	1.52363e+006	10.345		
09 2308362-007B	1.94119e+006	5.17	1.71913e+006	8.85	1.54975e+006	10.345		
10 2308362-007B	2.58954e+006	5.17	1.68389e+006	8.85	1.6529e+006	10.345		
11 2308362-002BMS	2.66684e+006	5.17	1.69618e+006	8.85	1.82427e+006	10.344		

IS1 FBZ = Fluorobenzene

IS3 (14DCBZ) = 1,4-Dichlorobenzene-d4

IS2 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.



3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

GeoEngineers

Robert Trahan
2101 4th Ave, Suite 950
Seattle, WA 98121

**RE: South Jackson St
Work Order Number: 2308436**

September 08, 2023

Attention Robert Trahan:

Fremont Analytical, Inc. received 7 sample(s) on 8/31/2023 for the analyses presented in the following report.

- Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.***
- Gasoline by NWTPH-Gx***
- Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)***
- Sample Moisture (Percent Moisture)***
- Volatile Organic Compounds by EPA Method 8260D***

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager

*DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.3 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910*

Revision v1

www.fremontanalytical.com

CLIENT: GeoEngineers
Project: South Jackson St
Work Order: 2308436

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2308436-001	R3-NSW-E-84	08/30/2023 8:20 AM	08/31/2023 10:43 AM
2308436-002	R3-B6-81	08/30/2023 8:10 AM	08/31/2023 10:43 AM
2308436-003	R3-B7-81	08/30/2023 8:15 AM	08/31/2023 10:43 AM
2308436-004	R3-B8-81	08/31/2023 9:15 AM	08/31/2023 10:43 AM
2308436-005	R3-B9-81	08/31/2023 9:25 AM	08/31/2023 10:43 AM
2308436-006	R3-B10-81	08/31/2023 9:50 AM	08/31/2023 10:43 AM
2308436-007	Trip Blank	08/25/2023 1:38 PM	08/31/2023 10:43 AM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: GeoEngineers
Project: South Jackson St

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Rev 1: Additional analyses requested by the client.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Analytical Report

Work Order: 2308436
Date Reported: 9/8/2023

Client: GeoEngineers

Collection Date: 8/30/2023 8:20:00 AM

Project: South Jackson St

Lab ID: 2308436-001

Matrix: Soil

Client Sample ID: R3-NSW-E-84

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Batch ID: 41371 Analyst: SK

Diesel Range Organics	ND	57.1		mg/Kg-dry	1	9/1/2023 1:31:16 PM
Heavy Oil	ND	114		mg/Kg-dry	1	9/1/2023 1:31:16 PM
Total Petroleum Hydrocarbons	ND	171		mg/Kg-dry	1	9/1/2023 1:31:16 PM
Surr: 2-Fluorobiphenyl	86.1	50 - 150		%Rec	1	9/1/2023 1:31:16 PM
Surr: o-Terphenyl	90.9	50 - 150		%Rec	1	9/1/2023 1:31:16 PM

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Batch ID: 41418 Analyst: SH

Naphthalene	36.2	21.7		µg/Kg-dry	1	9/8/2023 11:41:08 AM
2-Methylnaphthalene	84.9	21.7		µg/Kg-dry	1	9/8/2023 11:41:08 AM
1-Methylnaphthalene	47.5	21.7		µg/Kg-dry	1	9/8/2023 11:41:08 AM
Surr: 2-Fluorobiphenyl	93.9	22.2 - 146		%Rec	1	9/8/2023 11:41:08 AM
Surr: Terphenyl-d14 (surr)	87.4	20.2 - 159		%Rec	1	9/8/2023 11:41:08 AM

Gasoline by NWTPH-Gx

Batch ID: 41372 Analyst: CC

Gasoline Range Organics	ND	6.20		mg/Kg-dry	1	9/1/2023 7:46:47 AM
Surr: Toluene-d8	102	65 - 135		%Rec	1	9/1/2023 7:46:47 AM
Surr: 4-Bromofluorobenzene	96.7	65 - 135		%Rec	1	9/1/2023 7:46:47 AM

Volatile Organic Compounds by EPA Method 8260D

Batch ID: 41372 Analyst: CC

Benzene	ND	0.0217		mg/Kg-dry	1	9/1/2023 7:46:47 AM
Toluene	ND	0.0372		mg/Kg-dry	1	9/1/2023 7:46:47 AM
Ethylbenzene	ND	0.0310		mg/Kg-dry	1	9/1/2023 7:46:47 AM
m,p-Xylene	ND	0.0620		mg/Kg-dry	1	9/1/2023 7:46:47 AM
o-Xylene	ND	0.0310		mg/Kg-dry	1	9/1/2023 7:46:47 AM
Surr: Dibromofluoromethane	102	79.5 - 124		%Rec	1	9/1/2023 7:46:47 AM
Surr: Toluene-d8	98.4	77.5 - 124		%Rec	1	9/1/2023 7:46:47 AM
Surr: 1-Bromo-4-fluorobenzene	96.7	60.5 - 139		%Rec	1	9/1/2023 7:46:47 AM

Sample Moisture (Percent Moisture)

Batch ID: R86276 Analyst: MP

Percent Moisture	14.4	0.500		wt%	1	9/1/2023 8:19:52 AM
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Analytical Report

Work Order: 2308436
Date Reported: 9/8/2023

Client: GeoEngineers

Collection Date: 8/30/2023 8:10:00 AM

Project: South Jackson St

Lab ID: 2308436-002

Matrix: Soil

Client Sample ID: R3-B6-81

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Batch ID: 41371 Analyst: SK

Diesel Range Organics	ND	60.4		mg/Kg-dry	1	9/1/2023 1:42:12 PM
Heavy Oil	ND	121		mg/Kg-dry	1	9/1/2023 1:42:12 PM
Total Petroleum Hydrocarbons	ND	181		mg/Kg-dry	1	9/1/2023 1:42:12 PM
Surr: 2-Fluorobiphenyl	55.3	50 - 150		%Rec	1	9/1/2023 1:42:12 PM
Surr: o-Terphenyl	65.0	50 - 150		%Rec	1	9/1/2023 1:42:12 PM

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Batch ID: 41418 Analyst: SH

Naphthalene	ND	24.1		µg/Kg-dry	1	9/8/2023 12:11:16 PM
2-Methylnaphthalene	ND	24.1		µg/Kg-dry	1	9/8/2023 12:11:16 PM
1-Methylnaphthalene	ND	24.1		µg/Kg-dry	1	9/8/2023 12:11:16 PM
Surr: 2-Fluorobiphenyl	92.7	22.2 - 146		%Rec	1	9/8/2023 12:11:16 PM
Surr: Terphenyl-d14 (surr)	85.2	20.2 - 159		%Rec	1	9/8/2023 12:11:16 PM

Gasoline by NWTPH-Gx

Batch ID: 41372 Analyst: CC

Gasoline Range Organics	ND	6.19		mg/Kg-dry	1	9/1/2023 8:16:58 AM
Surr: Toluene-d8	113	65 - 135		%Rec	1	9/1/2023 8:16:58 AM
Surr: 4-Bromofluorobenzene	112	65 - 135		%Rec	1	9/1/2023 8:16:58 AM

Volatile Organic Compounds by EPA Method 8260D

Batch ID: 41372 Analyst: CC

Benzene	0.0265	0.0217		mg/Kg-dry	1	9/1/2023 8:16:58 AM
Toluene	ND	0.0372		mg/Kg-dry	1	9/1/2023 8:16:58 AM
Ethylbenzene	0.155	0.0310		mg/Kg-dry	1	9/1/2023 8:16:58 AM
m,p-Xylene	0.200	0.0619		mg/Kg-dry	1	9/1/2023 8:16:58 AM
o-Xylene	0.0647	0.0310		mg/Kg-dry	1	9/1/2023 8:16:58 AM
Surr: Dibromofluoromethane	102	79.5 - 124		%Rec	1	9/1/2023 8:16:58 AM
Surr: Toluene-d8	101	77.5 - 124		%Rec	1	9/1/2023 8:16:58 AM
Surr: 1-Bromo-4-fluorobenzene	112	60.5 - 139		%Rec	1	9/1/2023 8:16:58 AM

Sample Moisture (Percent Moisture)

Batch ID: R86276 Analyst: MP

Percent Moisture	23.4	0.500		wt%	1	9/1/2023 8:19:52 AM
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Client: GeoEngineers

Collection Date: 8/30/2023 8:15:00 AM

Project: South Jackson St

Lab ID: 2308436-003

Matrix: Soil

Client Sample ID: R3-B7-81

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Batch ID: 41371 Analyst: SK

Diesel Range Organics	ND	60.1		mg/Kg-dry	1	9/1/2023 1:53:17 PM
Heavy Oil	ND	120		mg/Kg-dry	1	9/1/2023 1:53:17 PM
Total Petroleum Hydrocarbons	ND	180		mg/Kg-dry	1	9/1/2023 1:53:17 PM
Surr: 2-Fluorobiphenyl	72.4	50 - 150		%Rec	1	9/1/2023 1:53:17 PM
Surr: o-Terphenyl	79.1	50 - 150		%Rec	1	9/1/2023 1:53:17 PM

Gasoline by NWTPH-Gx

Batch ID: 41372 Analyst: CC

Gasoline Range Organics	581	305	D	mg/Kg-dry	50	9/5/2023 2:17:50 PM
Surr: Toluene-d8	98.5	65 - 135	D	%Rec	50	9/5/2023 2:17:50 PM
Surr: 4-Bromofluorobenzene	100	65 - 135	D	%Rec	50	9/5/2023 2:17:50 PM

NOTES:

Chromatographic pattern is not consistent with a gasoline standard and is not identified as a specific product

Volatile Organic Compounds by EPA Method 8260D

Batch ID: 41372 Analyst: CC

Benzene	1.38	0.0214		mg/Kg-dry	1	9/1/2023 9:17:17 AM
Toluene	12.9	1.83	D	mg/Kg-dry	50	9/5/2023 2:17:50 PM
Ethylbenzene	9.42	1.53	D	mg/Kg-dry	50	9/5/2023 2:17:50 PM
m,p-Xylene	46.8	3.05	D	mg/Kg-dry	50	9/5/2023 2:17:50 PM
o-Xylene	18.3	1.53	D	mg/Kg-dry	50	9/5/2023 2:17:50 PM
Surr: Dibromofluoromethane	88.6	79.5 - 124		%Rec	1	9/1/2023 9:17:17 AM
Surr: Toluene-d8	96.6	77.5 - 124		%Rec	1	9/1/2023 9:17:17 AM
Surr: 1-Bromo-4-fluorobenzene	105	60.5 - 139		%Rec	1	9/1/2023 9:17:17 AM

Sample Moisture (Percent Moisture)

Batch ID: R86276 Analyst: MP

Percent Moisture	21.8	0.500		wt%	1	9/1/2023 8:19:52 AM
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Client: GeoEngineers

Collection Date: 8/31/2023 9:15:00 AM

Project: South Jackson St

Lab ID: 2308436-004

Matrix: Soil

Client Sample ID: R3-B8-81

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Batch ID: 41371 Analyst: SK

Diesel Range Organics	ND	61.7		mg/Kg-dry	1	9/1/2023 2:04:14 PM
Heavy Oil	ND	123		mg/Kg-dry	1	9/1/2023 2:04:14 PM
Total Petroleum Hydrocarbons	ND	185		mg/Kg-dry	1	9/1/2023 2:04:14 PM
Surr: 2-Fluorobiphenyl	65.6	50 - 150		%Rec	1	9/1/2023 2:04:14 PM
Surr: o-Terphenyl	70.9	50 - 150		%Rec	1	9/1/2023 2:04:14 PM

Gasoline by NWTPH-Gx

Batch ID: 41372 Analyst: CC

Gasoline Range Organics	149	30.0	D	mg/Kg-dry	5	9/5/2023 1:17:36 PM
Surr: Toluene-d8	101	65 - 135	D	%Rec	5	9/5/2023 1:17:36 PM
Surr: 4-Bromofluorobenzene	104	65 - 135	D	%Rec	5	9/5/2023 1:17:36 PM

NOTES:

Chromatographic pattern is not consistent with a gasoline standard and is not identified as a specific product

Volatile Organic Compounds by EPA Method 8260D

Batch ID: 41372 Analyst: CC

Benzene	3.27	0.105	D	mg/Kg-dry	5	9/5/2023 1:17:36 PM
Toluene	7.66	0.180	D	mg/Kg-dry	5	9/5/2023 1:17:36 PM
Ethylbenzene	3.27	0.150	D	mg/Kg-dry	5	9/5/2023 1:17:36 PM
m,p-Xylene	15.2	0.300	D	mg/Kg-dry	5	9/5/2023 1:17:36 PM
o-Xylene	7.12	0.150	D	mg/Kg-dry	5	9/5/2023 1:17:36 PM
Surr: Dibromofluoromethane	98.3	75.8 - 127	D	%Rec	5	9/5/2023 1:17:36 PM
Surr: Toluene-d8	95.7	72 - 135	D	%Rec	5	9/5/2023 1:17:36 PM
Surr: 1-Bromo-4-fluorobenzene	104	66.2 - 133	D	%Rec	5	9/5/2023 1:17:36 PM

Sample Moisture (Percent Moisture)

Batch ID: R86276 Analyst: MP

Percent Moisture	22.8	0.500		wt%	1	9/1/2023 8:19:52 AM
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Analytical Report

Work Order: 2308436
Date Reported: 9/8/2023

Client: GeoEngineers

Collection Date: 8/31/2023 9:25:00 AM

Project: South Jackson St

Lab ID: 2308436-005

Matrix: Soil

Client Sample ID: R3-B9-81

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Batch ID: 41371 Analyst: SK

Diesel Range Organics	ND	61.6		mg/Kg-dry	1	9/1/2023 2:15:09 PM
Heavy Oil	ND	123		mg/Kg-dry	1	9/1/2023 2:15:09 PM
Total Petroleum Hydrocarbons	ND	185		mg/Kg-dry	1	9/1/2023 2:15:09 PM
Surr: 2-Fluorobiphenyl	65.1	50 - 150		%Rec	1	9/1/2023 2:15:09 PM
Surr: o-Terphenyl	71.2	50 - 150		%Rec	1	9/1/2023 2:15:09 PM

Gasoline by NWTPH-Gx

Batch ID: 41372 Analyst: CC

Gasoline Range Organics	303	30.0	D	mg/Kg-dry	5	9/5/2023 1:47:43 PM
Surr: Toluene-d8	103	65 - 135	D	%Rec	5	9/5/2023 1:47:43 PM
Surr: 4-Bromofluorobenzene	101	65 - 135	D	%Rec	5	9/5/2023 1:47:43 PM

NOTES:

Chromatographic pattern is not consistent with a gasoline standard and is not identified as a specific product

Volatile Organic Compounds by EPA Method 8260D

Batch ID: 41372 Analyst: CC

Benzene	0.957	0.105	D	mg/Kg-dry	5	9/5/2023 1:47:43 PM
Toluene	2.90	0.180	D	mg/Kg-dry	5	9/5/2023 1:47:43 PM
Ethylbenzene	4.74	0.150	D	mg/Kg-dry	5	9/5/2023 1:47:43 PM
m,p-Xylene	17.9	0.300	D	mg/Kg-dry	5	9/5/2023 1:47:43 PM
o-Xylene	7.43	0.150	D	mg/Kg-dry	5	9/5/2023 1:47:43 PM
Surr: Dibromofluoromethane	99.1	75.8 - 127	D	%Rec	5	9/5/2023 1:47:43 PM
Surr: Toluene-d8	99.8	72 - 135	D	%Rec	5	9/5/2023 1:47:43 PM
Surr: 1-Bromo-4-fluorobenzene	101	66.2 - 133	D	%Rec	5	9/5/2023 1:47:43 PM

Sample Moisture (Percent Moisture)

Batch ID: R86276 Analyst: MP

Percent Moisture	22.0	0.500		wt%	1	9/1/2023 8:19:52 AM
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Analytical Report

Work Order: 2308436
Date Reported: 9/8/2023

Client: GeoEngineers

Collection Date: 8/31/2023 9:50:00 AM

Project: South Jackson St

Lab ID: 2308436-006

Matrix: Soil

Client Sample ID: R3-B10-81

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Batch ID: 41371 Analyst: SK

Diesel Range Organics	ND	59.2		mg/Kg-dry	1	9/1/2023 2:26:05 PM
Heavy Oil	ND	118		mg/Kg-dry	1	9/1/2023 2:26:05 PM
Total Petroleum Hydrocarbons	ND	178		mg/Kg-dry	1	9/1/2023 2:26:05 PM
Surr: 2-Fluorobiphenyl	67.2	50 - 150		%Rec	1	9/1/2023 2:26:05 PM
Surr: o-Terphenyl	68.2	50 - 150		%Rec	1	9/1/2023 2:26:05 PM

Gasoline by NWTPH-Gx

Batch ID: 41372 Analyst: CC

Gasoline Range Organics	19.0	5.96		mg/Kg-dry	1	9/1/2023 12:15:32 PM
Surr: Toluene-d8	104	65 - 135		%Rec	1	9/1/2023 12:15:32 PM
Surr: 4-Bromofluorobenzene	97.2	65 - 135		%Rec	1	9/1/2023 12:15:32 PM

Volatile Organic Compounds by EPA Method 8260D

Batch ID: 41372 Analyst: CC

Benzene	0.105	0.0209		mg/Kg-dry	1	9/1/2023 12:15:32 PM
Toluene	ND	0.0358		mg/Kg-dry	1	9/1/2023 12:15:32 PM
Ethylbenzene	0.451	0.0298		mg/Kg-dry	1	9/1/2023 12:15:32 PM
m,p-Xylene	0.124	0.0596		mg/Kg-dry	1	9/1/2023 12:15:32 PM
o-Xylene	0.0327	0.0298		mg/Kg-dry	1	9/1/2023 12:15:32 PM
Surr: Dibromofluoromethane	94.0	79.5 - 124		%Rec	1	9/1/2023 12:15:32 PM
Surr: Toluene-d8	94.9	77.5 - 124		%Rec	1	9/1/2023 12:15:32 PM
Surr: 1-Bromo-4-fluorobenzene	97.1	60.5 - 139		%Rec	1	9/1/2023 12:15:32 PM

Sample Moisture (Percent Moisture)

Batch ID: R86276 Analyst: MP

Percent Moisture	22.1	0.500		wt%	1	9/1/2023 8:19:52 AM
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Client: GeoEngineers

Collection Date: 8/25/2023 1:38:00 PM

Project: South Jackson St

Lab ID: 2308436-007

Matrix: Soil

Client Sample ID: Trip Blank

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 41372

Analyst: CC

Benzene	ND	0.0175		mg/Kg	1	9/1/2023 6:46:30 AM
Toluene	ND	0.0300		mg/Kg	1	9/1/2023 6:46:30 AM
Ethylbenzene	ND	0.0250		mg/Kg	1	9/1/2023 6:46:30 AM
m,p-Xylene	ND	0.0500		mg/Kg	1	9/1/2023 6:46:30 AM
o-Xylene	ND	0.0250		mg/Kg	1	9/1/2023 6:46:30 AM
Surr: Dibromofluoromethane	97.6	74.2 - 129		%Rec	1	9/1/2023 6:46:30 AM
Surr: Toluene-d8	112	72 - 135		%Rec	1	9/1/2023 6:46:30 AM
Surr: 1-Bromo-4-fluorobenzene	92.9	51 - 150		%Rec	1	9/1/2023 6:46:30 AM

Work Order: 2308436
CLIENT: GeoEngineers
Project: South Jackson St

QC SUMMARY REPORT
Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Sample ID: HO ICV	SampType: ICV	Units: mg/Kg				Prep Date: 7/27/2023	RunNo: 85547				
Client ID: ICV	Batch ID: 41371					Analysis Date: 7/27/2023	SeqNo: 1784893				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Heavy Oil	515	100	500.0	0	103	70	130				
Surr: 2-Fluorobiphenyl	10.5		10.00		105	50	150				
Surr: o-Terphenyl	10.8		10.00		108	50	150				

Sample ID: HO ICB	SampType: ICB	Units: mg/Kg				Prep Date: 7/27/2023	RunNo: 85547				
Client ID: ICB	Batch ID: 41371					Analysis Date: 7/27/2023	SeqNo: 1784901				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Heavy Oil	ND	100									
Surr: 2-Fluorobiphenyl	9.91		10.00		99.1	50	150				
Surr: o-Terphenyl	9.84		10.00		98.4	50	150				

Sample ID: DX ICB	SampType: ICB	Units: mg/Kg				Prep Date: 7/27/2023	RunNo: 85547				
Client ID: ICB	Batch ID: 41371					Analysis Date: 7/27/2023	SeqNo: 1784903				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel Range Organics	ND	50.0									
Surr: 2-Fluorobiphenyl	10.0		10.00		100	50	150				
Surr: o-Terphenyl	10.0		10.00		100	50	150				

Sample ID: DX ICV	SampType: ICV	Units: mg/Kg				Prep Date: 7/27/2023	RunNo: 85547				
Client ID: ICV	Batch ID: 41371					Analysis Date: 7/27/2023	SeqNo: 1784904				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel Range Organics	479	50.0	500.0	0	95.8	70	130				
Surr: 2-Fluorobiphenyl	10.5		10.00		105	50	150				
Surr: o-Terphenyl	11.0		10.00		110	50	150				

Work Order: 2308436
CLIENT: GeoEngineers
Project: South Jackson St

QC SUMMARY REPORT
Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Sample ID: OIL-CCV-41371A		SampType: CCV		Units: mg/Kg		Prep Date: 9/1/2023		RunNo: 86304			
Client ID: CCV		Batch ID: 41371				Analysis Date: 9/1/2023		SeqNo: 1801080			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Heavy Oil	517	100	500.0	0	103	85	115				
Surr: 2-Fluorobiphenyl	11.5		10.00		115	50	150				
Surr: o-Terphenyl	11.8		10.00		118	50	150				

Sample ID: DX-CCV-41371A		SampType: CCV		Units: mg/Kg		Prep Date: 9/1/2023		RunNo: 86304			
Client ID: CCV		Batch ID: 41371				Analysis Date: 9/1/2023		SeqNo: 1801081			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics	512	50.0	500.0	0	102	85	115				
Surr: 2-Fluorobiphenyl	9.57		10.00		95.7	50	150				
Surr: o-Terphenyl	11.8		10.00		118	50	150				

Sample ID: LCS-41371		SampType: LCS		Units: mg/Kg		Prep Date: 8/31/2023		RunNo: 86304			
Client ID: LCSS		Batch ID: 41371				Analysis Date: 9/1/2023		SeqNo: 1801083			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Petroleum Hydrocarbons	569	150	500.0	0	114	76.8	124				
Surr: 2-Fluorobiphenyl	10.6		10.00		106	50	150				
Surr: o-Terphenyl	14.0		10.00		140	50	150				

Sample ID: 2308435-001AMS		SampType: MS		Units: mg/Kg-dry		Prep Date: 8/31/2023		RunNo: 86304			
Client ID: BATCH		Batch ID: 41371				Analysis Date: 9/1/2023		SeqNo: 1801085			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Petroleum Hydrocarbons	713	187	623.6	47.31	107	21.8	165				
Surr: 2-Fluorobiphenyl	10.7		12.47		85.7	50	150				
Surr: o-Terphenyl	14.8		12.47		118	50	150				

Work Order: 2308436
CLIENT: GeoEngineers
Project: South Jackson St

QC SUMMARY REPORT
Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Sample ID: 2308435-001AMSD		SampType: MSD		Units: mg/Kg-dry		Prep Date: 8/31/2023		RunNo: 86304			
Client ID: BATCH		Batch ID: 41371				Analysis Date: 9/1/2023		SeqNo: 1801086			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Petroleum Hydrocarbons	686	183	609.1	47.31	105	21.8	165	713.5	3.87	30	
Surr: 2-Fluorobiphenyl	12.7		12.18		104	50	150		0		
Surr: o-Terphenyl	15.7		12.18		129	50	150		0		

Sample ID: MB-41371		SampType: MBLK		Units: mg/Kg		Prep Date: 8/31/2023		RunNo: 86304			
Client ID: MBLKS		Batch ID: 41371				Analysis Date: 9/1/2023		SeqNo: 1801089			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics	ND	50.0									
Heavy Oil	ND	100									
Total Petroleum Hydrocarbons	ND	150									
Surr: 2-Fluorobiphenyl	10.5		10.00		105	50	150				
Surr: o-Terphenyl	10.2		10.00		102	50	150				

Sample ID: 2308435-006ADUP		SampType: DUP		Units: mg/Kg-dry		Prep Date: 8/31/2023		RunNo: 86304			
Client ID: BATCH		Batch ID: 41371				Analysis Date: 9/1/2023		SeqNo: 1801093			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics	ND	62.9						0		30	
Heavy Oil	453	126						477.3	5.29	30	
Total Petroleum Hydrocarbons	453	189						477.3	5.29	30	
Surr: 2-Fluorobiphenyl	8.27		12.57		65.8	50	150		0		
Surr: o-Terphenyl	7.71		12.57		61.3	50	150		0		

Sample ID: OIL-CCV-41371B		SampType: CCV		Units: mg/Kg		Prep Date: 9/1/2023		RunNo: 86304			
Client ID: CCV		Batch ID: 41371				Analysis Date: 9/1/2023		SeqNo: 1801095			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Heavy Oil	557	100	500.0	0	111	85	115				
Surr: 2-Fluorobiphenyl	12.3		10.00		123	50	150				

Work Order: 2308436
CLIENT: GeoEngineers
Project: South Jackson St

QC SUMMARY REPORT
Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Sample ID: OIL-CCV-41371B		SampType: CCV		Units: mg/Kg		Prep Date: 9/1/2023		RunNo: 86304			
Client ID: CCV		Batch ID: 41371				Analysis Date: 9/1/2023		SeqNo: 1801095			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: o-Terphenyl	12.8		10.00		128	50	150				

Sample ID: DX-CCV-41371B		SampType: CCV		Units: mg/Kg		Prep Date: 9/1/2023		RunNo: 86304			
Client ID: CCV		Batch ID: 41371				Analysis Date: 9/1/2023		SeqNo: 1801096			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics	511	50.0	500.0	0	102	85	115				
Surr: 2-Fluorobiphenyl	10.2		10.00		102	50	150				
Surr: o-Terphenyl	13.0		10.00		131	50	150				

Sample ID: OIL-CCV-41371C		SampType: CCV		Units: mg/Kg		Prep Date: 9/1/2023		RunNo: 86304			
Client ID: CCV		Batch ID: 41371				Analysis Date: 9/1/2023		SeqNo: 1801098			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Heavy Oil	569	100	500.0	0	114	85	115				
Surr: 2-Fluorobiphenyl	12.3		10.00		123	50	150				
Surr: o-Terphenyl	12.8		10.00		128	50	150				

Sample ID: DX-CCV-41371C		SampType: CCV		Units: mg/Kg		Prep Date: 9/1/2023		RunNo: 86304			
Client ID: CCV		Batch ID: 41371				Analysis Date: 9/1/2023		SeqNo: 1801099			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics	516	50.0	500.0	0	103	85	115				
Surr: 2-Fluorobiphenyl	11.5		10.00		115	50	150				
Surr: o-Terphenyl	13.4		10.00		134	50	150				

Work Order: 2308436
CLIENT: GeoEngineers
Project: South Jackson St

QC SUMMARY REPORT
Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Sample ID: OIL-CCV-41371D	SampType: CCV	Units: mg/Kg			Prep Date: 9/1/2023	RunNo: 86304					
Client ID: CCV	Batch ID: 41371				Analysis Date: 9/1/2023	SeqNo: 1801678					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Heavy Oil	471	100	500.0	0	94.3	85	115				
Surr: 2-Fluorobiphenyl	10.9		10.00		109	50	150				
Surr: o-Terphenyl	10.9		10.00		109	50	150				

Sample ID: DX-CCV-41371D	SampType: CCV	Units: mg/Kg			Prep Date: 9/1/2023	RunNo: 86304					
Client ID: CCV	Batch ID: 41371				Analysis Date: 9/1/2023	SeqNo: 1801679					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics	499	50.0	500.0	0	99.9	85	115				
Surr: 2-Fluorobiphenyl	10.4		10.00		104	50	150				
Surr: o-Terphenyl	12.3		10.00		123	50	150				

Work Order: 2308436
CLIENT: GeoEngineers
Project: South Jackson St

QC SUMMARY REPORT

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Sample ID: PAH-S-SIM MDPT	SampType: CCV	Units: µg/L			Prep Date: 7/31/2023	RunNo: 86399					
Client ID: CCV	Batch ID: 41418				Analysis Date: 7/31/2023	SeqNo: 1803166					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	988	20.0	1,000	0	98.8	80	120				
2-Methylnaphthalene	992	20.0	1,000	0	99.2	80	120				
1-Methylnaphthalene	1,000	20.0	1,000	0	100	80	120				
Surr: 2,4,6-Tribromophenol	966		1,000		96.6	14	136				
Surr: 2-Fluorobiphenyl	494		500.0		98.8	69.5	150				
Surr: Terphenyl-d14 (surr)	479		500.0		95.8	71.6	145				

Sample ID: PAH ICV	SampType: ICV	Units: µg/L			Prep Date: 7/31/2023	RunNo: 86191					
Client ID: ICV	Batch ID: 41418				Analysis Date: 7/31/2023	SeqNo: 1798727					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	923	20.0	1,000	0	92.3	70	130				
2-Methylnaphthalene	931	20.0	1,000	0	93.1	70	130				
1-Methylnaphthalene	945	20.0	1,000	0	94.5	70	130				
Surr: 2-Fluorobiphenyl	468		500.0		93.5	60.9	160				
Surr: Terphenyl-d14 (surr)	449		500.0		89.7	62.2	159				

Sample ID: PAH ICB	SampType: ICB	Units: µg/L			Prep Date: 7/31/2023	RunNo: 86191					
Client ID: ICB	Batch ID: 41418				Analysis Date: 7/31/2023	SeqNo: 1798728					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	ND	20.0									
2-Methylnaphthalene	ND	20.0									
1-Methylnaphthalene	ND	20.0									
Surr: 2-Fluorobiphenyl	508		500.0		102	50.4	142				
Surr: Terphenyl-d14 (surr)	482		500.0		96.4	48.8	157				

Work Order: 2308436
CLIENT: GeoEngineers
Project: South Jackson St

QC SUMMARY REPORT

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Sample ID: CCV-41418A	SampType: CCV	Units: µg/L	Prep Date: 9/8/2023	RunNo: 86399							
Client ID: CCV	Batch ID: 41418	Analysis Date: 9/8/2023	SeqNo: 1803158								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	1,010	20.0	1,000	0	101	80	120				I
2-Methylnaphthalene	965	20.0	1,000	0	96.5	80	120				I
1-Methylnaphthalene	984	20.0	1,000	0	98.4	80	120				I
Surr: 2-Fluorobiphenyl	470		500.0		94.1	69.5	150				I
Surr: Terphenyl-d14 (surr)	434		500.0		86.8	71.6	145				I

NOTES:

I - Internal standards were outside of acceptance criteria. Result is an estimate.

Sample ID: MB-41418	SampType: MBLK	Units: µg/Kg	Prep Date: 9/7/2023	RunNo: 86399							
Client ID: MBLKS	Batch ID: 41418	Analysis Date: 9/8/2023	SeqNo: 1803158								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	ND	20.0									
2-Methylnaphthalene	ND	20.0									
1-Methylnaphthalene	ND	20.0									
Surr: 2-Fluorobiphenyl	850		1,000		85.0	22.2	146				
Surr: Terphenyl-d14 (surr)	756		1,000		75.6	20.2	159				

Sample ID: LCS-41418	SampType: LCS	Units: µg/Kg	Prep Date: 9/7/2023	RunNo: 86399							
Client ID: LCSS	Batch ID: 41418	Analysis Date: 9/8/2023	SeqNo: 1803185								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	1,370	20.0	2,000	0	68.3	63.8	120				
2-Methylnaphthalene	1,300	20.0	2,000	0	65.0	57	118				
1-Methylnaphthalene	1,330	20.0	2,000	0	66.6	56.6	119				
Surr: 2-Fluorobiphenyl	880		1,000		88.0	22.2	146				
Surr: Terphenyl-d14 (surr)	781		1,000		78.1	20.2	159				

Work Order: 2308436
CLIENT: GeoEngineers
Project: South Jackson St

QC SUMMARY REPORT

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Sample ID: 2309041-001AMS	SampType: MS	Units: µg/Kg-dry			Prep Date: 9/7/2023	RunNo: 86399					
Client ID: BATCH	Batch ID: 41418				Analysis Date: 9/8/2023	SeqNo: 1803190					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	1,480	20.1	2,011	0	73.6	44.9	136				
2-Methylnaphthalene	1,410	20.1	2,011	0	70.0	39.2	132				
1-Methylnaphthalene	1,440	20.1	2,011	0	71.8	40.9	133				
Surr: 2-Fluorobiphenyl	902		1,006		89.6	22.2	146				
Surr: Terphenyl-d14 (surr)	795		1,006		79.1	20.2	159				

Sample ID: 2309041-001AMSD	SampType: MSD	Units: µg/Kg-dry			Prep Date: 9/7/2023	RunNo: 86399					
Client ID: BATCH	Batch ID: 41418				Analysis Date: 9/8/2023	SeqNo: 1803191					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	1,400	18.4	1,845	0	75.8	44.9	136	1,481	5.74	30	
2-Methylnaphthalene	1,330	18.4	1,845	0	71.8	39.2	132	1,408	6.03	30	
1-Methylnaphthalene	1,360	18.4	1,845	0	73.7	40.9	133	1,444	6.01	30	
Surr: 2-Fluorobiphenyl	831		922.4		90.1	22.2	146		0		
Surr: Terphenyl-d14 (surr)	753		922.4		81.6	20.2	159		0		

Work Order: 2308436
CLIENT: GeoEngineers
Project: South Jackson St

QC SUMMARY REPORT
Gasoline by NWTPH-Gx

Sample ID: GX ICB		SampType: ICB		Units: µg/L		Prep Date: 8/24/2023		RunNo: 86113			
Client ID: ICB		Batch ID: 41372				Analysis Date: 8/24/2023		SeqNo: 1796976			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	ND	50.0									
Surr: Toluene-d8	24.5		25.00		98.2	65	135				
Surr: 4-Bromofluorobenzene	24.7		25.00		98.8	65	135				

Sample ID: GX ICV		SampType: ICV		Units: µg/L		Prep Date: 8/24/2023		RunNo: 86113			
Client ID: ICV		Batch ID: 41372				Analysis Date: 8/24/2023		SeqNo: 1796977			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	448	50.0	500.0	0	89.6	80	120				
Surr: Toluene-d8	25.6		25.00		102	65	135				
Surr: 4-Bromofluorobenzene	25.7		25.00		103	65	135				

Sample ID: CCV-41372A		SampType: CCV		Units: mg/Kg		Prep Date: 9/1/2023		RunNo: 86317			
Client ID: CCV		Batch ID: 41372				Analysis Date: 9/1/2023		SeqNo: 1801529			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	497	5.00	500.0	0	99.5	80	120				
Surr: Toluene-d8	26.1		25.00		105	65	135				
Surr: 4-Bromofluorobenzene	25.3		25.00		101	65	135				

Sample ID: LCS-41372		SampType: LCS		Units: mg/Kg		Prep Date: 8/31/2023		RunNo: 86317			
Client ID: LCSS		Batch ID: 41372				Analysis Date: 9/1/2023		SeqNo: 1801532			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	24.9	5.00	25.00	0	99.5	65	135				
Surr: Toluene-d8	1.31		1.250		105	65	135				
Surr: 4-Bromofluorobenzene	1.26		1.250		101	65	135				

Work Order: 2308436
CLIENT: GeoEngineers
Project: South Jackson St

QC SUMMARY REPORT
Gasoline by NWTPH-Gx

Sample ID: MB-41372	SampType: MBLK	Units: mg/Kg	Prep Date: 8/31/2023	RunNo: 86317							
Client ID: MBLKS	Batch ID: 41372		Analysis Date: 9/1/2023	SeqNo: 1801531							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	ND	5.00									
Surr: Toluene-d8	1.25		1.250		100	65	135				
Surr: 4-Bromofluorobenzene	1.20		1.250		95.6	65	135				

Sample ID: 2308436-002BDUP	SampType: DUP	Units: mg/Kg-dry	Prep Date: 8/31/2023	RunNo: 86317							
Client ID: R3-B6-81	Batch ID: 41372		Analysis Date: 9/1/2023	SeqNo: 1801522							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	7.07	6.19						6.104	14.6	30	
Surr: Toluene-d8	1.61		1.548		104	65	135		0		
Surr: 4-Bromofluorobenzene	1.51		1.548		97.5	65	135		0		

Sample ID: 2308436-004BDUP	SampType: DUP	Units: mg/Kg-dry	Prep Date: 8/31/2023	RunNo: 86317							
Client ID: R3-B8-81	Batch ID: 41372		Analysis Date: 9/1/2023	SeqNo: 1801526							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	121	6.00						130.2	7.11	30	E
Surr: Toluene-d8	1.56		1.500		104	65	135		0		
Surr: 4-Bromofluorobenzene	1.53		1.500		102	65	135		0		

Sample ID: 2308436-003BMS	SampType: MS	Units: mg/Kg-dry	Prep Date: 8/31/2023	RunNo: 86317							
Client ID: R3-B7-81	Batch ID: 41372		Analysis Date: 9/1/2023	SeqNo: 1801524							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	807	6.11	30.54	892.2	-280	65	135				S
Surr: Toluene-d8	1.52		1.527		99.5	65	135				
Surr: 4-Bromofluorobenzene	1.72		1.527		112	65	135				

NOTES:

S - Spiked amount was low relative to sample concentration. Outlying spike recoveries may be expected.

Work Order: 2308436
CLIENT: GeoEngineers
Project: South Jackson St

QC SUMMARY REPORT
Gasoline by NWTPH-Gx

Sample ID: CCV-41372B		SampType: CCV		Units: mg/Kg		Prep Date: 9/1/2023		RunNo: 86317			
Client ID: CCV		Batch ID: 41372				Analysis Date: 9/1/2023		SeqNo: 1801530			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	509	5.00	500.0	0	102	80	120				
Surr: Toluene-d8	26.6		25.00		106	65	135				
Surr: 4-Bromofluorobenzene	26.6		25.00		107	65	135				

Sample ID: CCV-41372C		SampType: CCV		Units: mg/Kg		Prep Date: 9/5/2023		RunNo: 86317			
Client ID: CCV		Batch ID: 86317				Analysis Date: 9/5/2023		SeqNo: 1801971			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	594	5.00	500.0	0	119	80	120				
Surr: Toluene-d8	25.7		25.00		103	65	135				
Surr: 4-Bromofluorobenzene	26.6		25.00		107	65	135				

Sample ID: CCV-41372D		SampType: CCV		Units: mg/Kg		Prep Date: 9/5/2023		RunNo: 86317			
Client ID: CCV		Batch ID: 86317				Analysis Date: 9/5/2023		SeqNo: 1801973			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	595	5.00	500.0	0	119	80	120				
Surr: Toluene-d8	25.6		25.00		102	65	135				
Surr: 4-Bromofluorobenzene	25.9		25.00		104	65	135				

Work Order: 2308436
 CLIENT: GeoEngineers
 Project: South Jackson St

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: VOC-S 86143	SampType: CCV	Units: µg/L	Prep Date: 8/25/2023	RunNo: 86315							
Client ID: CCV	Batch ID: 41372		Analysis Date: 8/25/2023	SeqNo: 1801489							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	18.8	0.0175	20.00	0	94.1	80	120				
Toluene	18.8	0.0300	20.00	0	94.0	80	120				
Ethylbenzene	20.5	0.0250	20.00	0	103	80	120				
m,p-Xylene	41.8	0.0500	40.00	0	104	80	120				
o-Xylene	20.7	0.0250	20.00	0	103	80	120				
Surr: Dibromofluoromethane	24.0		25.00		96.0	80	120				
Surr: Toluene-d8	24.7		25.00		98.8	80	120				
Surr: 1-Bromo-4-fluorobenzene	25.7		25.00		103	80	120				

Sample ID: ICV	SampType: ICV	Units: µg/L	Prep Date: 8/25/2023	RunNo: 86143							
Client ID: ICV	Batch ID: 41372		Analysis Date: 8/25/2023	SeqNo: 1797749							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	19.2	0.0175	20.00	0	96.0	70	130				
Toluene	18.6	0.0300	20.00	0	93.0	70	130				
Ethylbenzene	20.0	0.0250	20.00	0	100	70	130				
m,p-Xylene	41.2	0.0500	40.00	0	103	70	130				
o-Xylene	20.7	0.0250	20.00	0	103	70	130				
Surr: Dibromofluoromethane	24.4		25.00		97.8	80	120				
Surr: Toluene-d8	25.0		25.00		100	80	120				
Surr: 1-Bromo-4-fluorobenzene	25.0		25.00		99.9	80	120				

Sample ID: ICB	SampType: ICB	Units: µg/L	Prep Date: 8/25/2023	RunNo: 86143							
Client ID: ICB	Batch ID: 41372		Analysis Date: 8/25/2023	SeqNo: 1797750							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	0.0219	0.0175									
Toluene	0.0657	0.0300									
Ethylbenzene	0.0514	0.0250									
m,p-Xylene	0.104	0.0500									
o-Xylene	ND	0.0250									

Work Order: 2308436
CLIENT: GeoEngineers
Project: South Jackson St

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: ICB		SampType: ICB		Units: µg/L		Prep Date: 8/25/2023		RunNo: 86143			
Client ID: ICB		Batch ID: 41372				Analysis Date: 8/25/2023		SeqNo: 1797750			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	24.5		25.00		98.1	80	120				
Surr: Toluene-d8	24.5		25.00		97.8	80	120				
Surr: 1-Bromo-4-fluorobenzene	24.4		25.00		97.5	80	120				

Sample ID: CCV-41372A		SampType: CCV		Units: µg/L		Prep Date: 9/1/2023		RunNo: 86315			
Client ID: CCV		Batch ID: 41372				Analysis Date: 9/1/2023		SeqNo: 1801457			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	17.8	0.0175	20.00	0	89.1	80	120				
Toluene	17.5	0.0300	20.00	0	87.3	80	120				
Ethylbenzene	19.1	0.0250	20.00	0	95.5	80	120				
m,p-Xylene	40.3	0.0500	40.00	0	101	80	120				
o-Xylene	19.6	0.0250	20.00	0	97.8	80	120				
Surr: Dibromofluoromethane	24.9		25.00		99.8	80	120				
Surr: Toluene-d8	25.3		25.00		101	80	120				
Surr: 1-Bromo-4-fluorobenzene	25.7		25.00		103	80	120				

Sample ID: LCS-41372		SampType: LCS		Units: µg/L		Prep Date: 8/31/2023		RunNo: 86315			
Client ID: LCSS		Batch ID: 41372				Analysis Date: 9/1/2023		SeqNo: 1801488			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	0.891	0.0175	1.000	0	89.1	80	120				
Toluene	0.873	0.0300	1.000	0	87.3	80	120				
Ethylbenzene	0.955	0.0250	1.000	0	95.5	80	120				
m,p-Xylene	2.01	0.0500	2.000	0	101	80	120				
o-Xylene	0.978	0.0250	1.000	0	97.8	80	120				
Surr: Dibromofluoromethane	1.25		1.250		99.8	79.5	124				
Surr: Toluene-d8	1.27		1.250		101	77.5	124				
Surr: 1-Bromo-4-fluorobenzene	1.29		1.250		103	60.5	139				

Work Order: 2308436
CLIENT: GeoEngineers
Project: South Jackson St

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: MB-41372		SampType: MBLK		Units: mg/Kg		Prep Date: 8/31/2023		RunNo: 86315			
Client ID: MBLKS		Batch ID: 41372				Analysis Date: 9/1/2023		SeqNo: 1801456			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.0175									
Toluene	ND	0.0300									
Ethylbenzene	ND	0.0250									
m,p-Xylene	ND	0.0500									
o-Xylene	ND	0.0250									
Surr: Dibromofluoromethane	1.27		1.250		101	79.5	124				
Surr: Toluene-d8	1.24		1.250		99.3	77.5	124				
Surr: 1-Bromo-4-fluorobenzene	1.19		1.250		95.5	60.5	139				

Sample ID: 2308436-002BDUP		SampType: DUP		Units: mg/Kg-dry		Prep Date: 8/31/2023		RunNo: 86315			
Client ID: R3-B6-81		Batch ID: 41372				Analysis Date: 9/1/2023		SeqNo: 1801450			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	0.0258	0.0217						0.02647	2.75	30	
Toluene	ND	0.0372						0		30	
Ethylbenzene	0.146	0.0310						0.1552	5.77	30	
m,p-Xylene	0.184	0.0619						0.2004	8.49	30	
o-Xylene	0.0560	0.0310						0.06467	14.5	30	
Surr: Dibromofluoromethane	1.50		1.548		96.7	79.5	124		0		
Surr: Toluene-d8	1.61		1.548		104	77.5	124		0		
Surr: 1-Bromo-4-fluorobenzene	1.51		1.548		97.4	60.5	139		0		

Sample ID: 2308436-004BDUP		SampType: DUP		Units: mg/Kg-dry		Prep Date: 8/31/2023		RunNo: 86315			
Client ID: R3-B8-81		Batch ID: 41372				Analysis Date: 9/1/2023		SeqNo: 1801453			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	3.02	0.0210						2.940	2.76	30	E
Toluene	6.62	0.0360						6.499	1.78	30	E
Ethylbenzene	2.51	0.0300						2.669	6.08	30	E
m,p-Xylene	10.7	0.0600						11.35	5.65	30	E
o-Xylene	5.29	0.0300						5.838	9.78	30	E

Work Order: 2308436
CLIENT: GeoEngineers
Project: South Jackson St

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: 2308436-004BDUP		SampType: DUP		Units: mg/Kg-dry		Prep Date: 8/31/2023		RunNo: 86315			
Client ID: R3-B8-81		Batch ID: 41372				Analysis Date: 9/1/2023		SeqNo: 1801453			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	1.40		1.500		93.6	79.5	124		0		
Surr: Toluene-d8	1.67		1.500		111	77.5	124		0		
Surr: 1-Bromo-4-fluorobenzene	1.53		1.500		102	60.5	139		0		

Sample ID: 2308436-001BMS		SampType: MS		Units: mg/Kg-dry		Prep Date: 8/31/2023		RunNo: 86315			
Client ID: R3-NSW-E-84		Batch ID: 41372				Analysis Date: 9/1/2023		SeqNo: 1801448			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	1.17	0.0217	1.241	0	94.6	52.3	147				
Toluene	1.19	0.0372	1.241	0	96.2	50.1	147				
Ethylbenzene	1.31	0.0310	1.241	0	106	51.7	143				
m,p-Xylene	2.80	0.0620	2.481	0	113	54.5	144				
o-Xylene	1.35	0.0310	1.241	0	109	57.1	141				
Surr: Dibromofluoromethane	1.55		1.551		99.9	79.5	124				
Surr: Toluene-d8	1.56		1.551		100	77.5	124				
Surr: 1-Bromo-4-fluorobenzene	1.63		1.551		105	60.5	139				

Sample ID: CCV-41372B		SampType: CCV		Units: µg/L		Prep Date: 9/5/2023		RunNo: 86315			
Client ID: CCV		Batch ID: 41372				Analysis Date: 9/5/2023		SeqNo: 1801966			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	18.8	0.0175	20.00	0	93.9	80	120				
Toluene	21.7	0.0300	20.00	0	109	80	120				
Ethylbenzene	21.0	0.0250	20.00	0	105	80	120				
m,p-Xylene	43.7	0.0500	40.00	0	109	80	120				
o-Xylene	21.9	0.0250	20.00	0	110	80	120				
Surr: Dibromofluoromethane	23.7		25.00		94.8	80	120				
Surr: Toluene-d8	28.6		25.00		114	80	120				
Surr: 1-Bromo-4-fluorobenzene	26.1		25.00		105	80	120				

Client Name: GEI	Work Order Number: 2308436
Logged by: Morgan Wilson	Date Received: 8/31/2023 10:43:00 AM

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
2. How was the sample delivered? Client

Log In

3. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes No Not Present
4. Was an attempt made to cool the samples? Yes No NA
5. Were all items received at a temperature of >2°C to 6°C * Yes No NA
6. Sample(s) in proper container(s)? Yes No
7. Sufficient sample volume for indicated test(s)? Yes No
8. Are samples properly preserved? Yes No
9. Was preservative added to bottles? Yes No NA
10. Is there headspace in the VOA vials? Yes No NA
11. Did all samples containers arrive in good condition(unbroken)? Yes No
12. Does paperwork match bottle labels? Yes No
13. Are matrices correctly identified on Chain of Custody? Yes No
14. Is it clear what analyses were requested? Yes No
15. Were all holding times able to be met? Yes No

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

17. Additional remarks:

Item Information

Item #	Temp °C
Sample	1.4

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C



3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Chain of Custody Record & Laboratory Services Agreement

Date: 8/30/23 Page: 1 of 1

Project Name: South Jackson St

Project No: 24584-081-03

Collected by: Paul Robinson

Location: Seattle

Report To (PM): Robert Trahan

PM Email: rtrahan@geosyninc.com

Laboratory Project No (Internal): 2308436

Special Remarks: Level 2B QA

Sample Disposal: Return to client Disposal by lab (after 30 days)

Client: GEOSYN INC
Address: 2101 4th Ave #950
City, State, Zip: Seattle, WA, 98121
Telephone: 425.861.2534
Fax:

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	# of Cont.	Analytes													Comments
					VOCS (EPA 8260 / 624)	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (DX)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T) Dissolved (D)	Anions (IC)***	EDB (8011)		
1 R3-NSW-E-94	8/30/23	0820	S	3	X	X	X	X	X	X	X	X	X	X	X	X		
2 R3-B6-81	8/30/23	815	S	3	X	X	X	X	X	X	X	X	X	X	X	X		
3 R3-B7-81	8/30/23	915	S	3	X	X	X	X	X	X	X	X	X	X	X	X		
4 R3-B8-81	8/30/23	915	S	3	X	X	X	X	X	X	X	X	X	X	X	X		
5 R3-B9-81	8/30/23	925	S	3	X	X	X	X	X	X	X	X	X	X	X	X		
6 R3-B10-81	8/30/23	950	S	3	X	X	X	X	X	X	X	X	X	X	X	X		
7 TASP Blank				1														
8																		
9																		
10																		

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water
 **Metals (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Tl V Zn
 ***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished (Signature): [Signature] Print Name: Paul Robinson Date/Time: 8/30/23 1043
 Relinquished (Signature): [Signature] Print Name: Ashley Saldani Date/Time: 8/31/23 1043



3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Chain of Custody Record & Laboratory Services Agreement

Date: 8/30/23 Page: 1 of 1
Project Name: South Jackson St
Project No: 24584-081-03
Collected by: Paul Robinson
Location: Seattle
Report To (PM): Robert Trahan
PM Email: rtrahan@geosyninc.com

Laboratory Project No (Internal): 2308436
Special Remarks:
Level 2B QA
Edits per RT 9/5/2023 -BB

Client: GEOSYN INC
Address: 2101 4th Ave #950
City, State, Zip: Seattle, WA, 98121
Telephone: 425.861.2534
Fax:

Location: SEATTLE
Report To (PM): ROBERT TRAHAN
PM Email: rtrahan@geosyninc.com

Sample Disposal: Return to client Disposal by lab (after 30 days)

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	# of Cont.	Analytes											Comments	
					VOCS (EPA 8260 / 624)	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (DX)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T) Dissolved (D)	Anions (IC)***		EDB (8011)
1 R3-NISW-E-94	8/30/23	0820	S	3	X	X	X	X	X	X	X	X	X	X	X	X	
2 R3-B6-81	8/30/23	815	S	3	X	X	X	X	X	X	X	X	X	X	X	X	
3 R3-B7-81	8/30/23	815	S	3	X	X	X	X	X	X	X	X	X	X	X	X	
4 R3-B8-81	8/30/23	915	S	3	X	X	X	X	X	X	X	X	X	X	X	X	
5 R3-B9-81	8/30/23	925	S	3	X	X	X	X	X	X	X	X	X	X	X	X	
6 R3-B10-81	8/30/23	950	S	3	X	X	X	X	X	X	X	X	X	X	X	X	
7 TASP Blank				1	X												
8																	
9																	
10																	

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water
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Turn-around Time:
 3 Day Next Day Same Day
 2 Day (specify)

Relinquished (Signature): [Signature] Print Name: Paul Robinson Date/Time: 8/30/23 1043
 Relinquished (Signature): [Signature] Print Name: Ashley Saldani Date/Time: 8/31/23 1043



3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Chain of Custody Record & Laboratory Services Agreement

Date: 8/30/23 Page: 1 of 1

Project Name: South Jackson St

Project No: 24584-001-03

Collected by: PAUL ROBERTS

Location: SEATTLE

Report To (PM): ROBERT TRAHAN

PM Email: rtrahan@geosyninc.com

Laboratory Project No (Internal): 2308436

Special Remarks:
Level 28 QA

Edits per RT 9/5/2023 -BB

add analysis per RT -MMW 9/6/23

Sample Disposal: Return to client Disposal by lab (after 30 days)

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	# of Cont.	Parameters Analyzed													Comments			
					VOCS (EPA 8260 / 624)	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (DX)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T) Dissolved (D)	Anions (IC)***	EDB (8011)					
1 R3-N5W-E-94	8/30/23	0820	S	3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	X Naphthalenes Std TAT
2 R3-B6-81	8/30/23	0810	S	3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	X Naphthalenes 2 Day TAT
3 R3-B7-81	8/30/23	0815	S	3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
4 R3-BB-81	8/31/23	915	S	3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
5 R3-B9-81		925	S	3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
6 R3-B10-81		950	S	3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
7 TRSP Blank				1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
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Turn-around Time:
 3 Day Next Day
 2 Day Same Day (specify)

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished (Signature) _____ Date/Time 8/31/23 1043
 Print Name Ashley Sakemi
 Received (Signature) _____ Date/Time 8/31/23 1043
 Print Name _____ Date/Time _____

DATA SET for Review - Deliverable Requirements

Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Fremont Analytical Work Order No. 2308436

GeoEngineers

Project Name: S Jackson Street

Project Number: 24504-001-01

This data set contains the following:

- Analytical Sequence Summary
- Calibration Information

Data Directory: D:\GC-24\Data\2023\230727FRONT\

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) 07270002.D CO	DX_220112.M	150	1.000	27 Jul 2023 10:39 am
2) 07270004.D HO 20	DX_220112.M	21	1.000	27 Jul 2023 10:50 am
3) 07270006.D HO 100	DX_220112.M	22	1.000	27 Jul 2023 11:01 am
4) 07270008.D HO 500	DX_220112.M	23	1.000	27 Jul 2023 11:12 am
5) 07270010.D HO 1000	DX_220112.M	24	1.000	27 Jul 2023 11:23 am
6) 07270012.D HO 2000	DX_220112.M	25	1.000	27 Jul 2023 11:34 am
7) 07270014.D HO 5000	DX_220112.M	26	1.000	27 Jul 2023 11:45 am
8) 07270016.D HO 10000	DX_220112.M	27	1.000	27 Jul 2023 11:56 am
9) 07270018.D CO	DX_220112.M	150	1.000	27 Jul 2023 12:07 pm
10) 07270020.D CO	DX_220112.M	150	1.000	27 Jul 2023 12:18 pm
11) 07270022.D CO	DX_220112.M	148	1.000	27 Jul 2023 12:29 pm
12) 07270024.D HO ICB	DX_220112.M	28	1.000	27 Jul 2023 12:40 pm
13) 07270026.D HO 20	DX_220112.M	21	1.000	27 Jul 2023 12:51 pm
14) 07270028.D HO ICV	DX_220112.M	29	1.000	27 Jul 2023 01:02 pm
15) 07270030.D CO	DX_220112.M	150	1.000	27 Jul 2023 01:13 pm
16) 07270032.D DX 20	DX_220112.M	11	1.000	27 Jul 2023 01:23 pm
17) 07270034.D DX 100	DX_220112.M	12	1.000	27 Jul 2023 01:34 pm
18) 07270036.D DX 500	DX_220112.M	13	1.000	27 Jul 2023 01:46 pm
19) 07270038.D DX 1000	DX_220112.M	14	1.000	27 Jul 2023 01:57 pm
20) 07270040.D DX 2000	DX_220112.M	15	1.000	27 Jul 2023 02:08 pm
21) 07270042.D DX 5000	DX_220112.M	16	1.000	27 Jul 2023 02:19 pm

22) 07270044.D DX 10000	DX_220112.M	17	1.000	27 Jul 2023	02:30 pm
23) 07270046.D HO ICB	DX_220112.M	28	1.000	27 Jul 2023	02:41 pm
24) 07270048.D HO 20	DX_220112.M	21	1.000	27 Jul 2023	02:52 pm
25) 07270050.D CO	DX_220112.M	150	1.000	27 Jul 2023	03:03 pm
26) 07270052.D CO	DX_220112.M	150	1.000	27 Jul 2023	03:14 pm
27) 07270054.D DX ICB	DX_220112.M	18	1.000	27 Jul 2023	03:25 pm
28) 07270056.D DX ICV	DX_220112.M	19	1.000	27 Jul 2023	03:42 pm
29) 07270058.D CO	DX_220112.M	150	1.000	27 Jul 2023	03:53 pm
30) 07270060.D CO	DX_220112.M	150	1.000	27 Jul 2023	04:04 pm
31) 07270062.D CO	DX_220112.M	150	1.000	27 Jul 2023	04:15 pm
32) 07270064.D CO	DX_220112.M	150	1.000	27 Jul 2023	04:26 pm
33) 07270066.D OIL-CCV	DX_220112.M	2	1.000	27 Jul 2023	04:37 pm
34) 07270068.D DX-CCV	DX_220112.M	1	1.000	27 Jul 2023	04:48 pm
35) 07270070.D CO	DX_220112.M	150	1.000	27 Jul 2023	04:59 pm
36) 07270072.D MB-40979	DX_220112.M	61	1.000	27 Jul 2023	05:10 pm
37) 07270074.D LCS-40979	DX_220112.M	62	1.000	27 Jul 2023	05:21 pm
38) 07270076.D LCSD-40979	DX_220112.M	63	1.000	27 Jul 2023	05:32 pm
39) 07270078.D Dx MDL	DX_220112.M	73	1.000	27 Jul 2023	05:43 pm
40) 07270080.D RRO MDL	DX_220112.M	74	1.000	27 Jul 2023	05:54 pm
41) 07270082.D CO	DX_220112.M	150	1.000	27 Jul 2023	06:05 pm
42) 07270084.D CO	DX_220112.M	150	1.000	27 Jul 2023	06:16 pm
43) 07270086.D OIL-CCV	DX_220112.M	2	1.000	27 Jul 2023	06:27 pm
44) 07270088.D DX-CCV	DX_220112.M	1	1.000	27 Jul 2023	06:38 pm
45) 07270090.D	DX_220112.M				

CO			150	1.000	27 Jul 2023	06:49	pm
46)	07270092.D MB-41004	DX_220112.M	111	1.000	27 Jul 2023	07:00	pm
47)	07270094.D LCS-41004	DX_220112.M	112	1.000	27 Jul 2023	07:11	pm
48)	07270096.D 2307262-001B	DX_220112.M	113	1.000	27 Jul 2023	07:22	pm
49)	07270098.D 2307262-002B	DX_220112.M	114	1.000	27 Jul 2023	07:33	pm
50)	07270100.D 2307262-003B	DX_220112.M	115	1.000	27 Jul 2023	07:44	pm
51)	07270102.D 2307262-004B	DX_220112.M	116	1.000	27 Jul 2023	07:55	pm
52)	07270104.D 2307262-005B	DX_220112.M	117	1.000	27 Jul 2023	08:06	pm
53)	07270106.D 2307262-006B	DX_220112.M	118	1.000	27 Jul 2023	08:17	pm
54)	07270108.D 2307262-007B	DX_220112.M	119	1.000	27 Jul 2023	08:28	pm
55)	07270110.D 2307262-007BDUP	DX_220112.M	120	1.000	27 Jul 2023	08:39	pm
56)	07270112.D CO	DX_220112.M	150	1.000	27 Jul 2023	08:50	pm
57)	07270114.D OIL-CCV	DX_220112.M	2	1.000	27 Jul 2023	09:01	pm
58)	07270116.D DX-CCV	DX_220112.M	1	1.000	27 Jul 2023	09:12	pm
59)	07270118.D CO	DX_220112.M	150	1.000	27 Jul 2023	09:23	pm
60)	07270120.D 2307262-008B	DX_220112.M	121	1.000	27 Jul 2023	09:34	pm
61)	07270122.D 2307262-009B	DX_220112.M	122	1.000	27 Jul 2023	09:45	pm
62)	07270124.D 2307262-010B	DX_220112.M	123	1.000	27 Jul 2023	09:56	pm
63)	07270126.D 2307284-001B	DX_220112.M	124	1.000	27 Jul 2023	10:07	pm
64)	07270128.D 2307284-002B	DX_220112.M	125	1.000	27 Jul 2023	10:18	pm
65)	07270130.D 2307284-003B	DX_220112.M	126	1.000	27 Jul 2023	10:29	pm
66)	07270132.D 2307284-004B	DX_220112.M	127	1.000	27 Jul 2023	10:40	pm
67)	07270134.D 2307285-001A	DX_220112.M	128	1.000	27 Jul 2023	10:51	pm
68)	07270136.D CO	DX_220112.M	150	1.000	27 Jul 2023	11:02	pm

69) 07270138.D OIL-CCV	DX_220112.M	2	1.000	27 Jul 2023	11:12 pm
70) 07270140.D DX-CCV	DX_220112.M	1	1.000	27 Jul 2023	11:23 pm
71) 07270142.D CO	DX_220112.M	150	1.000	27 Jul 2023	11:34 pm
72) 07270144.D MB-40989	DX_220112.M	131	1.000	27 Jul 2023	11:45 pm
73) 07270146.D LCS-40989	DX_220112.M	132	1.000	27 Jul 2023	11:56 pm
74) 07270148.D 2307278-002A	DX_220112.M	136	1.000	28 Jul 2023	12:07 am
75) 07270150.D 2307278-002ADUP	DX_220112.M	137	1.000	28 Jul 2023	12:18 am
76) 07270152.D 2307278-003A	DX_220112.M	138	1.000	28 Jul 2023	12:29 am
77) 07270154.D 2307278-004A	DX_220112.M	139	1.000	28 Jul 2023	12:40 am
78) 07270156.D 2307278-005A	DX_220112.M	140	1.000	28 Jul 2023	12:51 am
79) 07270158.D 2307278-006A	DX_220112.M	141	1.000	28 Jul 2023	01:02 am
80) 07270160.D 2307278-009A	DX_220112.M	144	1.000	28 Jul 2023	01:13 am
81) 07270162.D 2307278-010A	DX_220112.M	145	1.000	28 Jul 2023	01:24 am
82) 07270164.D CO	DX_220112.M	150	1.000	28 Jul 2023	01:35 am
83) 07270166.D OIL-CCV	DX_220112.M	2	1.000	28 Jul 2023	01:46 am
84) 07270168.D DX-CCV	DX_220112.M	1	1.000	28 Jul 2023	01:57 am
85) 07270170.D CO	DX_220112.M	150	1.000	28 Jul 2023	02:08 am
86) 07270172.D 2307278-012A	DX_220112.M	147	1.000	28 Jul 2023	02:18 am
87) 07270174.D 2307278-001A	DX_220112.M	133	1.000	28 Jul 2023	02:29 am
88) 07270176.D CO	DX_220112.M	150	1.000	28 Jul 2023	02:40 am
89) 07270178.D 2307278-001AMS	DX_220112.M	134	1.000	28 Jul 2023	02:51 am
90) 07270180.D CO	DX_220112.M	150	1.000	28 Jul 2023	03:02 am
91) 07270182.D 2307278-001AMSD	DX_220112.M	135	1.000	28 Jul 2023	03:13 am

92) 07270184.D CO	DX_220112.M	150	1.000	28 Jul 2023	03:24 am
93) 07270186.D 2307278-011A	DX_220112.M	146	1.000	28 Jul 2023	03:35 am
94) 07270188.D CO	DX_220112.M	150	1.000	28 Jul 2023	03:46 am
95) 07270190.D 2307278-008A	DX_220112.M	143	1.000	28 Jul 2023	03:57 am
96) 07270192.D CO	DX_220112.M	150	1.000	28 Jul 2023	04:08 am
97) 07270194.D 2307278-007A	DX_220112.M	142	1.000	28 Jul 2023	04:19 am
98) 07270196.D CO	DX_220112.M	150	1.000	28 Jul 2023	04:30 am
99) 07270198.D CO	DX_220112.M	150	1.000	28 Jul 2023	04:41 am
100) 07270200.D OIL-CCV	DX_220112.M	2	1.000	28 Jul 2023	04:52 am
101) 07270202.D DX-CCV	DX_220112.M	1	1.000	28 Jul 2023	05:03 am
102) 07270204.D CO	DX_220112.M	150	1.000	28 Jul 2023	05:14 am

Data Directory: D:\GC-24\Data\2023\230901FRONT\

SampleName	MiscInfo	Vial	Multiplier	Injection Time	
1) 09010071.D No data found	DX_220112.M		0.000	N/A	
2) 09010072.D No data found	DX_220112.M		0.000	N/A	
3) 09010002.D CO	DX_220112.M	150	1.000	01 Sep 2023	08:24 am
4) 09010004.D OIL-CCV	DX_220112.M	2	1.000	01 Sep 2023	08:34 am
5) 09010006.D DX-CCV	DX_220112.M	1	1.000	01 Sep 2023	08:45 am
6) 09010008.D CO	DX_220112.M	150	1.000	01 Sep 2023	08:56 am
7) 09010010.D MB-41371	DX_220112.M	91	1.000	01 Sep 2023	09:18 am
8) 09010012.D LCS-41371	DX_220112.M	92	1.000	01 Sep 2023	09:29 am
9) 09010014.D 2308435-001A	DX_220112.M	93	1.000	01 Sep 2023	09:40 am
10) 09010016.D 2308435-001AMS	DX_220112.M	94	1.000	01 Sep 2023	09:51 am
11) 09010018.D 2308435-001AMSD	DX_220112.M	95	1.000	01 Sep 2023	10:02 am
12) 09010020.D 2308435-002A	DX_220112.M	96	1.000	01 Sep 2023	10:13 am
13) 09010022.D 2308435-003A	DX_220112.M	97	1.000	01 Sep 2023	10:24 am
14) 09010024.D MB-41371 RR	DX_220112.M	91	1.000	01 Sep 2023	10:35 am
15) 09010026.D 2308435-004A	DX_220112.M	98	1.000	01 Sep 2023	10:46 am
16) 09010028.D 2308435-005A	DX_220112.M	99	1.000	01 Sep 2023	10:57 am
17) 09010030.D 2308435-006A	DX_220112.M	100	1.000	01 Sep 2023	11:08 am
18) 09010032.D 2308435-006ADUP	DX_220112.M	101	1.000	01 Sep 2023	11:19 am
19) 09010034.D 2308435-007A	DX_220112.M	102	1.000	01 Sep 2023	11:30 am
20) 09010036.D CO	DX_220112.M	150	1.000	01 Sep 2023	11:41 am
21) 09010038.D OIL-CCV	DX_220112.M	2	1.000	01 Sep 2023	11:52 am

22) 09010040.D DX-CCV	DX_220112.M	1	1.000	01 Sep 2023	12:02 pm
23) 09010042.D CO	DX_220112.M	150	1.000	01 Sep 2023	12:14 pm
24) 09010044.D 2308435-005A RR	DX_220112.M	99	1.000	01 Sep 2023	12:25 pm
25) 09010046.D 2308435-007A RR	DX_220112.M	102	1.000	01 Sep 2023	12:36 pm
26) 09010048.D CO	DX_220112.M	150	1.000	01 Sep 2023	12:47 pm
27) 09010050.D OIL-CCV	DX_220112.M	2	1.000	01 Sep 2023	12:58 pm
28) 09010052.D DX-CCV	DX_220112.M	1	1.000	01 Sep 2023	01:09 pm
29) 09010054.D CO	DX_220112.M	150	1.000	01 Sep 2023	01:20 pm
30) 09010056.D 2308436-001A	DX_220112.M	103	1.000	01 Sep 2023	01:31 pm
31) 09010058.D 2308436-002A	DX_220112.M	104	1.000	01 Sep 2023	01:42 pm
32) 09010060.D 2308436-003A	DX_220112.M	105	1.000	01 Sep 2023	01:53 pm
33) 09010062.D 2308436-004A	DX_220112.M	106	1.000	01 Sep 2023	02:04 pm
34) 09010064.D 2308436-005A	DX_220112.M	107	1.000	01 Sep 2023	02:15 pm
35) 09010066.D 2308436-006A	DX_220112.M	108	1.000	01 Sep 2023	02:26 pm
36) 09010068.D CO	DX_220112.M	150	1.000	01 Sep 2023	02:37 pm
37) 09010070.D OIL-CCV	DX_220112.M	2	1.000	01 Sep 2023	02:47 pm
38) 09010074.D MB-41376	DX_220112.M	111	1.000	01 Sep 2023	03:16 pm
39) 09010076.D LCS-41376	DX_220112.M	112	1.000	01 Sep 2023	03:27 pm
40) 09010078.D LCSD-41376	DX_220112.M	113	1.000	01 Sep 2023	03:38 pm
41) 09010080.D 2308286-006A	DX_220112.M	114	1.000	01 Sep 2023	03:49 pm
42) 09010082.D CO	DX_220112.M	150	1.000	01 Sep 2023	04:01 pm
43) 09010084.D DX-CCV	DX_220112.M	1	1.000	01 Sep 2023	04:12 pm
44) 09010086.D 2308286-006AMS	DX_220112.M	115	1.000	01 Sep 2023	04:23 pm
45) 09010088.D	DX_220112.M				

2308286-006AMSD		116	1.000	01 Sep 2023	04:34	pm
46) 09010090.D 2308438-001A	DX_220112.M	118	1.000	01 Sep 2023	04:45	pm
47) 09010092.D 2308438-001ADUP	DX_220112.M	119	1.000	01 Sep 2023	04:56	pm
48) 09010094.D 2308438-002A	DX_220112.M	120	1.000	01 Sep 2023	05:07	pm
49) 09010096.D 2308439-001A	DX_220112.M	121	1.000	01 Sep 2023	05:18	pm
50) 09010098.D 2308439-002A	DX_220112.M	122	1.000	01 Sep 2023	05:29	pm
51) 09010100.D 2308439-003A	DX_220112.M	123	1.000	01 Sep 2023	05:40	pm
52) 09010102.D 2308439-004A	DX_220112.M	124	1.000	01 Sep 2023	05:51	pm
53) 09010104.D 2308407-002A 10X	DX_220112.M	59	1.000	01 Sep 2023	06:02	pm
54) 09010106.D CO	DX_220112.M	150	1.000	01 Sep 2023	06:13	pm
55) 09010108.D OIL-CCV	DX_220112.M	2	1.000	01 Sep 2023	06:24	pm
56) 09010110.D DX-CCV	DX_220112.M	1	1.000	01 Sep 2023	06:35	pm
57) 09010112.D CO	DX_220112.M	150	1.000	01 Sep 2023	06:46	pm
58) 09010114.D 2308425-001A 10X	DX_220112.M	125	1.000	01 Sep 2023	06:57	pm
59) 09010116.D CO	DX_220112.M	150	1.000	01 Sep 2023	07:08	pm
60) 09010118.D 2308425-001A	DX_220112.M	117	1.000	01 Sep 2023	07:20	pm
61) 09010120.D CO	DX_220112.M	150	1.000	01 Sep 2023	07:31	pm
62) 09010122.D CO	DX_220112.M	150	1.000	01 Sep 2023	07:42	pm
63) 09010124.D CO	DX_220112.M	150	1.000	01 Sep 2023	07:53	pm
64) 09010126.D CO	DX_220112.M	150	1.000	01 Sep 2023	08:04	pm
65) 09010128.D CO	DX_220112.M	150	1.000	01 Sep 2023	08:15	pm
66) 09010130.D CO	DX_220112.M	150	1.000	01 Sep 2023	08:26	pm
67) 09010132.D OIL-CCV	DX_220112.M	2	1.000	01 Sep 2023	08:37	pm
68) 09010134.D DX-CCV	DX_220112.M	1	1.000	01 Sep 2023	08:48	pm

69)	09010136.D	DX_220112.M	150	1.000	01 Sep 2023	08:59 pm
CO						
70)	09050002.D	DX_220112.M	150	1.000	05 Sep 2023	08:17 am
CO						
71)	09050004.D	DX_220112.M	2	1.000	05 Sep 2023	08:27 am
OIL-CCV						
72)	09050006.D	DX_220112.M	1	1.000	05 Sep 2023	08:38 am
DX-CCV						
73)	09050008.D	DX_220112.M	150	1.000	05 Sep 2023	08:49 am
CO						
74)	09050010.D	DX_220112.M	126	1.000	05 Sep 2023	09:34 am
2308438-001A 10x						
75)	09050012.D	DX_220112.M	117	1.000	05 Sep 2023	09:45 am
2308425-001A RR						
76)	09050014.D	DX_220112.M	150	1.000	05 Sep 2023	09:56 am
CO						
77)	09050016.D	DX_220112.M	150	1.000	05 Sep 2023	10:06 am
CO						
78)	09050018.D	DX_220112.M	2	1.000	05 Sep 2023	10:17 am
OIL-CCV						
79)	09050020.D	DX_220112.M	1	1.000	05 Sep 2023	10:28 am
DX-CCV						



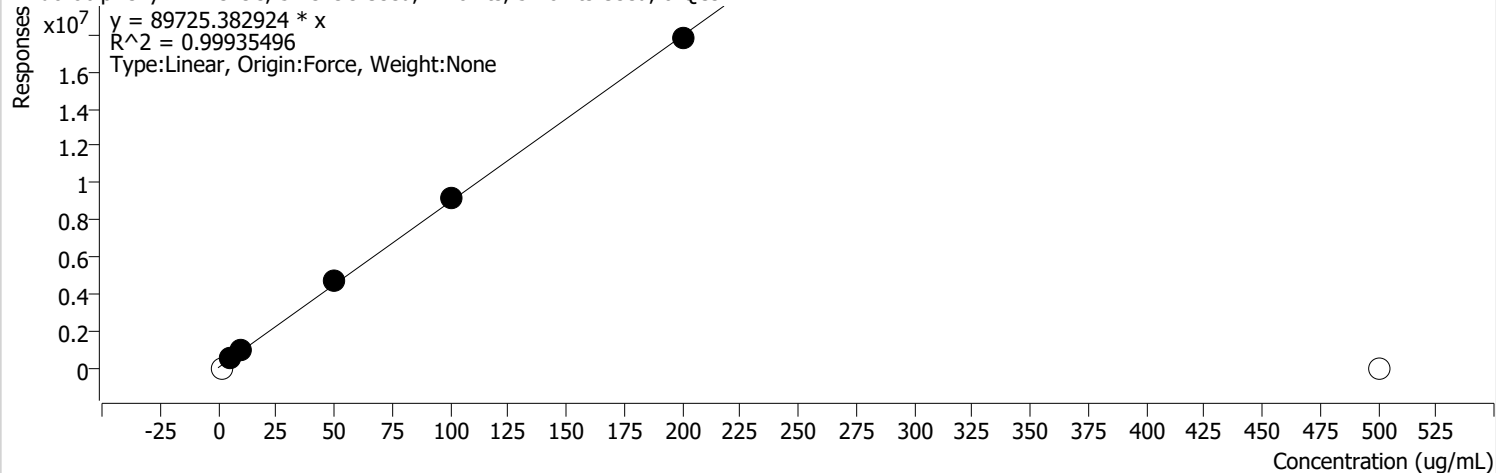
Calibration

Calibration Report

Batch Path	D:\GC-24\Data\2023\230727FRONT\QuantResults\Dx-Oil Cal.batch.bin		
Analysis Time	7/28/2023 9:47:30 AM	Analyst Name	FA\GC24
Report Time	7/28/2023 9:50:54 AM	Reporter Name	GC24
Last Calib Update	7/28/2023 9:45:03 AM	Batch State	Processed

2-Fluorobiphenyl

2-Fluorobiphenyl - 7 Levels, 5 Levels Used, 7 Points, 5 Points Used, 0 QCs

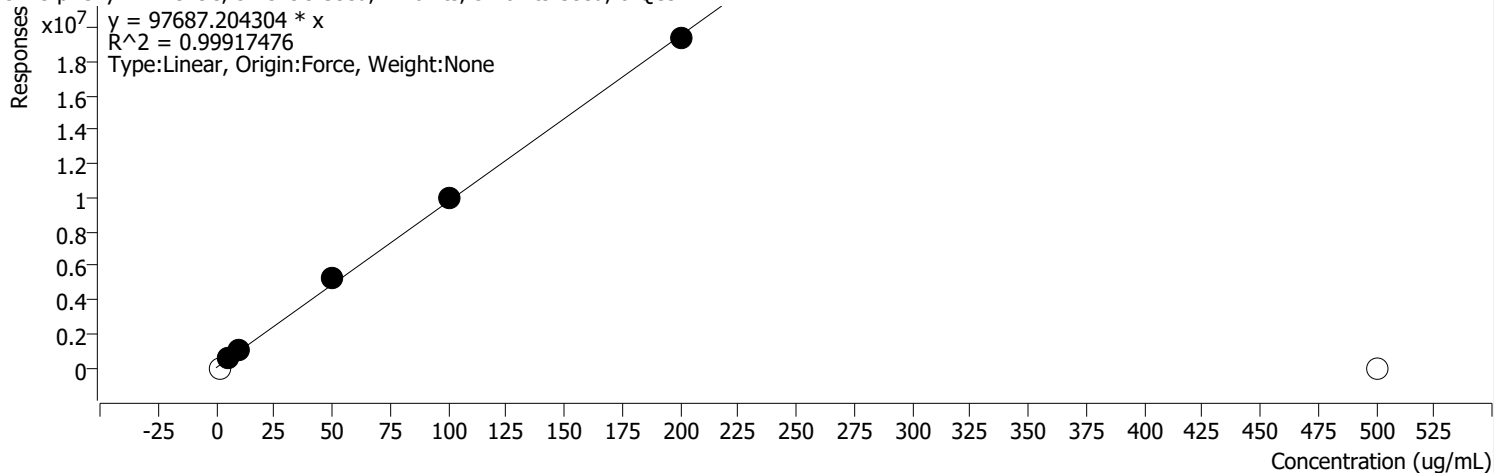


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-24\Data\2023\230727FRONT\07270048.D	Calibration	1		0	2.0000	0.0000
D:\GC-24\Data\2023\230727FRONT\07270006.D	Calibration	2	x	499781	5.0000	99956.2936
D:\GC-24\Data\2023\230727FRONT\07270008.D	Calibration	3	x	1001008	10.0000	100100.7802
D:\GC-24\Data\2023\230727FRONT\07270010.D	Calibration	4	x	4748564	50.0000	94971.2777
D:\GC-24\Data\2023\230727FRONT\07270012.D	Calibration	5	x	9133555	100.0000	91335.5456
D:\GC-24\Data\2023\230727FRONT\07270014.D	Calibration	6	x	17792528	200.0000	88962.6410
D:\GC-24\Data\2023\230727FRONT\07270016.D	Calibration	7		0	500.0000	0.0000

Batch Path	D:\GC-24\Data\2023\230727FRONT\QuantResults\Dx-Oil Cal.batch.bin		
Analysis Time	7/28/2023 9:47:30 AM	Analyst Name	FA\GC24
Report Time	7/28/2023 9:50:56 AM	Reporter Name	GC24
Last Calib Update	7/28/2023 9:45:03 AM	Batch State	Processed

O-Terphenyl

O-Terphenyl - 7 Levels, 5 Levels Used, 7 Points, 5 Points Used, 0 QCs



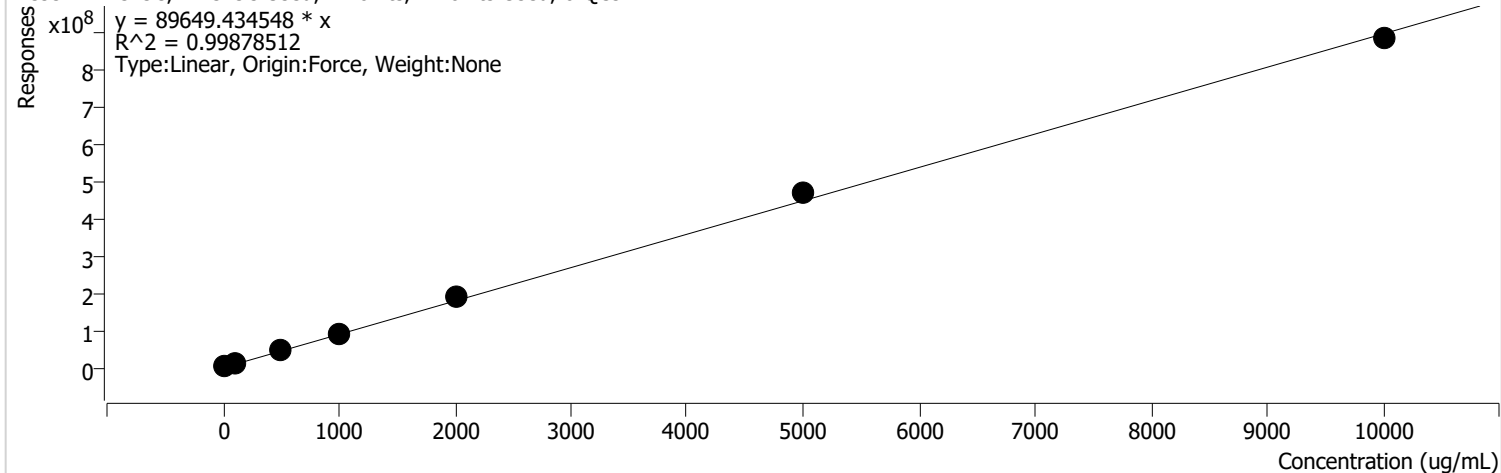
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-24\Data\2023\230727FRONT\07270048.D	Calibration	1		0	2.0000	0.0000
D:\GC-24\Data\2023\230727FRONT\07270006.D	Calibration	2	x	559603	5.0000	111920.5680
D:\GC-24\Data\2023\230727FRONT\07270008.D	Calibration	3	x	1118016	10.0000	111801.6431
D:\GC-24\Data\2023\230727FRONT\07270010.D	Calibration	4	x	5218661	50.0000	104373.2229
D:\GC-24\Data\2023\230727FRONT\07270012.D	Calibration	5	x	9941086	100.0000	99410.8621
D:\GC-24\Data\2023\230727FRONT\07270014.D	Calibration	6	x	19358846	200.0000	96794.2318
D:\GC-24\Data\2023\230727FRONT\07270016.D	Calibration	7		0	500.0000	0.0000

Calibration Report

Batch Path	D:\GC-24\Data\2023\230727FRONT\QuantResults\Dx-Oil Cal.batch.bin		
Analysis Time	7/28/2023 9:47:30 AM	Analyst Name	FA\GC24
Report Time	7/28/2023 9:50:56 AM	Reporter Name	GC24
Last Calib Update	7/28/2023 9:45:03 AM	Batch State	Processed

Diesel

Diesel - 7 Levels, 7 Levels Used, 7 Points, 7 Points Used, 0 QCs



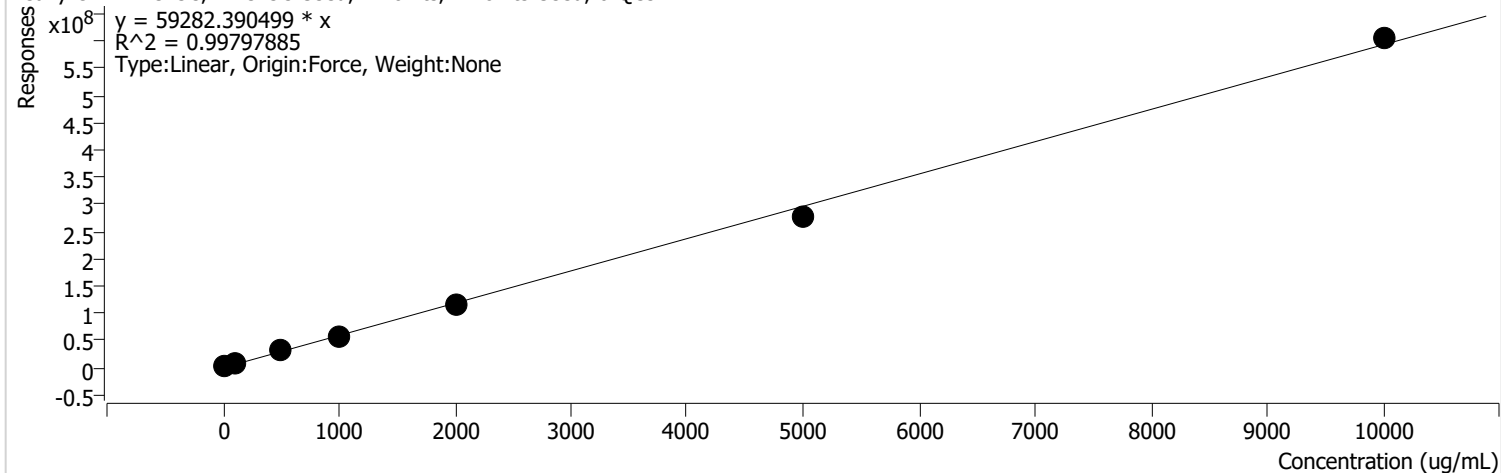
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-24\Data\2023\230727FRONT\07270032.D	Calibration	1	x	1532157	20.0000	76607.8377
D:\GC-24\Data\2023\230727FRONT\07270034.D	Calibration	2	x	8909518	100.0000	89095.1823
D:\GC-24\Data\2023\230727FRONT\07270036.D	Calibration	3	x	45292573	500.0000	90585.1454
D:\GC-24\Data\2023\230727FRONT\07270038.D	Calibration	4	x	91275534	1000.0000	91275.5337
D:\GC-24\Data\2023\230727FRONT\07270040.D	Calibration	5	x	188230632	2000.0000	94115.3159
D:\GC-24\Data\2023\230727FRONT\07270042.D	Calibration	6	x	470981718	5000.0000	94196.3435
D:\GC-24\Data\2023\230727FRONT\07270044.D	Calibration	7	x	883155794	10000.0000	88315.5794

Calibration Report

Batch Path	D:\GC-24\Data\2023\230727FRONT\QuantResults\Dx-Oil Cal.batch.bin		
Analysis Time	7/28/2023 9:47:30 AM	Analyst Name	FA\GC24
Report Time	7/28/2023 9:50:56 AM	Reporter Name	GC24
Last Calib Update	7/28/2023 9:45:03 AM	Batch State	Processed

Heavy Oil

Heavy Oil - 7 Levels, 7 Levels Used, 7 Points, 7 Points Used, 0 QCs



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-24\Data\2023\230727FRONT\07270048.D	Calibration	1	x	1139369	20.0000	56968.4627
D:\GC-24\Data\2023\230727FRONT\07270006.D	Calibration	2	x	6651487	100.0000	66514.8704
D:\GC-24\Data\2023\230727FRONT\07270008.D	Calibration	3	x	32500169	500.0000	65000.3388
D:\GC-24\Data\2023\230727FRONT\07270010.D	Calibration	4	x	56908464	1000.0000	56908.4636
D:\GC-24\Data\2023\230727FRONT\07270012.D	Calibration	5	x	117299033	2000.0000	58649.5166
D:\GC-24\Data\2023\230727FRONT\07270014.D	Calibration	6	x	275285166	5000.0000	55057.0333
D:\GC-24\Data\2023\230727FRONT\07270016.D	Calibration	7	x	603727752	10000.0000	60372.7752

Heavy Oil Calibration

Date: 7/27/23

Oil CAL STD: 28320

Concentration: 50,000 ug/L

Analyst: AHP

Oil ICV (SS): 27047

Concentration: 50,000 ug/L

MeCl2: 7583

SURROGATE: 28541

Concentration: 1,000 ug/L

	Calibration Point (ppm)	Surr Cal Point (ppm)	MeCl2 (uL)	STD Conc (ppm)	STD Amt (uL)	Surr Amt (uL)	Final Vol. (mL)	Comments
21	20	2	980	1000*	20*	-	1	*Note: the 1000 point w/ HO and surr will be used to make points 100 and 20
22	100	5	900	1000*	100*	-	1	
23	500	10	980	50,000	10	10	1	
24	1000*	50	930	50,000	20	50	1	
25	2000	100	860	50,000	40	100	1	
26	5000	200	700	50,000	100	200	1	
27	10000	500 -	800 ⁵⁰⁰ 800	50,000	200	500	1	
28	ICB	-	990 ^{0.712}	-	-	10	1	
29	ICV (500)	10	980	50,000 SS	10 ^{SS}	10	1	

Signature and Date: Alex Posters 7/27/23

Diesel Calibration

Date: 7/27/23

DX CAL STD: 27149 Concentration: 50,000 ug/L

Analyst: AHP

DX ICV (SS): 28397 Concentration: 50,000 ug/L

MeCl2: 7583

Surr: 28541 Concentration 1000 mg/L

1 3 2

11
12
13
14
15
16
17
18
19

Calibration Point (ppm)	MeCl2 (uL)	STD Conc (ppm)	STD Amt (uL)	Surr (uL)	Final Vol. (mL)	Comments
20	980	1000*	20	-	1	
100	900	1000*	100	-	1	
500	990	50,000	10	-	1	
1000*	980	50,000	20	-	1	
2000	960	50,000	40	-	1	
5000	900	50,000	100	-	1	*Note: the 1000 point will be used to make points 100 and 20
10000	800	50,000	200	-	1	
ICB	990	-	-	10	1	
ICV (500)	980	50,000 SS	10 ^{SS}	10	1	

Signature and Date: Alex Potten 7/27/23

DATA SET for Review - Deliverable Requirements

Gasoline by NWTPH-Gx

Fremont Analytical Work Order No. 2308436

GeoEngineers

Project Name: S Jackson Street

Project Number: 24504-001-01

This data set contains the following:

- Analytical Sequence Summary
- Calibration Information
- Tune Information
- Internal Standards Report

Data Directory: D:\GC-27\DATA\082323\

SampleName	MiscInfo	Vial	Multiplier	Injection Time	
1) 082342.D	8260B-0206-1.M				
No data found			0.000	N/A	
2) 082301.D	8260B-0206-1.M				
R	O-VOC-W		1.000	23 Aug 2023	01:36 pm
3) 082302.D	8260B-0206-1.M				
R	O-VOC-W		1.000	23 Aug 2023	02:05 pm
4) 082303.D	8260B-0206-1.M				
R	O-VOC-W		1.000	23 Aug 2023	02:34 pm
5) 082304.D	8260B-0206-1.M				
VOC W CCV A	O-VOC-W	1	1.000	23 Aug 2023	03:04 pm
6) 082305.D	8260B-0206-1.M				
GX CCV A	O-VOC-W	2	1.000	23 Aug 2023	03:34 pm
7) 082306.D	8260B-0206-1.M				
R	O-VOC-W		1.000	23 Aug 2023	04:03 pm
8) 082307.D	8260B-0206-1.M				
R	O-VOC-W		1.000	23 Aug 2023	05:40 pm
9) 082308.D	8260B-0206-1.M				
R	O-VOC-W		1.000	23 Aug 2023	06:09 pm
10) 082309.D	8260B-0206-1.M				
R	O-VOC-W		1.000	23 Aug 2023	06:38 pm
11) 082310.D	8260B-0206-1.M				
R	O-VOC-W		1.000	23 Aug 2023	07:06 pm
12) 082311.D	8260B-0206-1.M				
VOC W ICAL 1	O-VOC-W	1	1.000	23 Aug 2023	07:36 pm
13) 082312.D	8260B-0206-1.M				
VOC W ICAL 2	O-VOC-W	2	1.000	23 Aug 2023	08:07 pm
14) 082313.D	8260B-0206-1.M				
VOC W ICAL 3	O-VOC-W	3	1.000	23 Aug 2023	08:37 pm
15) 082314.D	8260B-0206-1.M				
VOC W ICAL 4	O-VOC-W	4	1.000	23 Aug 2023	09:07 pm
16) 082315.D	8260B-0206-1.M				
VOC W ICAL 5	O-VOC-W	5	1.000	23 Aug 2023	09:37 pm
17) 082316.D	8260B-0206-1.M				
VOC W ICAL 6	O-VOC-W	6	1.000	23 Aug 2023	10:07 pm
18) 082317.D	8260B-0206-1.M				
VOC W ICAL 7	O-VOC-W	7	1.000	23 Aug 2023	10:37 pm
19) 082318.D	8260B-0206-1.M				
VOC W ICAL 8	O-VOC-W	8	1.000	23 Aug 2023	11:07 pm
20) 082319.D	8260B-0206-1.M				
VOC W ICAL 9	O-VOC-W	9	1.000	23 Aug 2023	11:37 pm
21) 082320.D	8260B-0206-1.M				
R	O-VOC-W		1.000	24 Aug 2023	12:06 am

R	22) 082321.D	8260B-0206-1.M		1.000	24 Aug 2023	12:35 am
		O-VOC-W				
R	23) 082322.D	8260B-0206-1.M		1.000	24 Aug 2023	01:04 am
		O-VOC-W				
VOC W ICB	24) 082323.D	8260B-0206-1.M	10	1.000	24 Aug 2023	01:34 am
		O-VOC-W				
VOC W ICV	25) 082324.D	8260B-0206-1.M	11	1.000	24 Aug 2023	02:04 am
		O-VOC-W				
R	26) 082325.D	8260B-0206-1.M		1.000	24 Aug 2023	02:33 am
		O-VOC-W				
R	27) 082326.D	8260B-0206-1.M		1.000	24 Aug 2023	03:02 am
		O-VOC-W				
GX ICAL 1	28) 082327.D	8260B-0206-1.M	12	1.000	24 Aug 2023	03:32 am
		O-VOC-W				
GX ICAL 2	29) 082328.D	8260B-0206-1.M	13	1.000	24 Aug 2023	04:02 am
		O-VOC-W				
GX ICAL 3	30) 082329.D	8260B-0206-1.M	14	1.000	24 Aug 2023	04:32 am
		O-VOC-W				
GX ICAL 4	31) 082330.D	8260B-0206-1.M	15	1.000	24 Aug 2023	05:02 am
		O-VOC-W				
GX ICAL 5	32) 082331.D	8260B-0206-1.M	16	1.000	24 Aug 2023	05:32 am
		O-VOC-W				
GX ICAL 6	33) 082332.D	8260B-0206-1.M	17	1.000	24 Aug 2023	06:02 am
		O-VOC-W				
GX ICAL 7	34) 082333.D	8260B-0206-1.M	18	1.000	24 Aug 2023	06:32 am
		O-VOC-W				
R	35) 082334.D	8260B-0206-1.M		1.000	24 Aug 2023	07:01 am
		O-VOC-W				
R	36) 082335.D	8260B-0206-1.M		1.000	24 Aug 2023	07:30 am
		O-VOC-W				
GX ICB	37) 082336.D	8260B-0206-1.M	19	1.000	24 Aug 2023	08:00 am
		O-VOC-W				
GX ICV	38) 082337.D	8260B-0206-1.M	20	1.000	24 Aug 2023	08:30 am
		O-VOC-W				
VOC W CCV	39) 082338.D	8260B-0206-1.M	21	1.000	24 Aug 2023	09:00 am
		O-VOC-W				
VOC S CCV	40) 082339.D	8260B-0206-1.M	22	1.000	24 Aug 2023	09:31 am
		O-VOC-W				
R	41) 082340.D	8260B-0206-1.M		1.000	24 Aug 2023	09:59 am
		O-VOC-W				
INSTRUMENT BLANK	42) 082341.D	8260B-0206-1.M	23	1.000	24 Aug 2023	10:57 am
		O-VOC-W				

Data Directory: D:\GC-27\DATA\082923\

SampleName	MiscInfo	Vial	Multiplier	Injection Time		
1) 090103.D No data found	8260B-0206-1.M		0.000	N/A		
2) 082901.D R	8260B-0206-1.M O-VOC-W		1.000	29 Aug 2023	12:53	pm
3) 082902.D VOC W CCV A	8260B-0206-1.M O-VOC-W	36	1.000	29 Aug 2023	01:23	pm
4) 082903.D GX CCV A	8260B-0206-1.M O-VOC-GX-W	37	1.000	29 Aug 2023	01:53	pm
5) 082904.D R	8260B-0206-1.M O-VOC-GX-S		1.000	29 Aug 2023	02:22	pm
6) 082905.D instrument blank	8260B-0206-1.M O-VOC-W	38	1.000	29 Aug 2023	02:52	pm
7) 082906.D 2308302-002A 10x	8260B-0206-1.M O-VOC-W	39	1.000	29 Aug 2023	03:30	pm
8) 082907.D 2308302-004A 10x	8260B-0206-1.M O-VOC-W	40	1.000	29 Aug 2023	04:00	pm
9) 082908.D 2308302-006A 10x	8260B-0206-1.M O-VOC-W	41	1.000	29 Aug 2023	04:30	pm
10) 082909.D 2308302-007A 10x	8260B-0206-1.M O-VOC-W	42	1.000	29 Aug 2023	05:00	pm
11) 082910.D 2308302-008A 100x	8260B-0206-1.M O-VOC-W	43	1.000	29 Aug 2023	05:31	pm
12) 082911.D 2308302-008A 50x	8260B-0206-1.M O-VOC-W	44	1.000	29 Aug 2023	06:01	pm
13) 082912.D R	8260B-0206-1.M O-VOC-W		1.000	29 Aug 2023	06:29	pm
14) 082913.D 2308302-008A 1000x	8260B-0206-1.M O-VOC-W	45	1.000	29 Aug 2023	07:00	pm
15) 082914.D 2308302-011A 50x	8260B-0206-1.M O-VOC-W	46	1.000	29 Aug 2023	07:30	pm
16) 082915.D 2308302-012A 50x	8260B-0206-1.M O-VOC-W	47	1.000	29 Aug 2023	08:00	pm
17) 082916.D 2308302-011A 20x	8260B-0206-1.M O-VOC-W	48	1.000	29 Aug 2023	08:30	pm
18) 082917.D 2308302-012A 20x	8260B-0206-1.M O-VOC-W	49	1.000	29 Aug 2023	09:00	pm
19) 082918.D R	8260B-0206-1.M O-VOC-W		1.000	29 Aug 2023	09:29	pm
20) 082919.D CCV-41347A VOC	8260B-0206-1.M O-VOC-W	50	1.000	29 Aug 2023	09:59	pm
21) 082920.D GX CCV B	8260B-0206-1.M O-VOC-S	51	1.000	29 Aug 2023	10:29	pm

22)	082921.D		8260B-0206-1.M						
R		O-VOC-S		1.000	29 Aug 2023	10:58	pm		
23)	082922.D		8260B-0206-1.M						
MB-41347		O-VOC-S	52	1.000	29 Aug 2023	11:28	pm		
24)	082923.D		8260B-0206-1.M						
2308377-002B		O-VOC-S	53	1.000	29 Aug 2023	11:58	pm		
25)	082924.D		8260B-0206-1.M						
2308377-002BDUP		O-VOC-S	54	1.000	30 Aug 2023	12:29	am		
26)	082925.D		8260B-0206-1.M						
2308377-003B		O-VOC-S	55	1.000	30 Aug 2023	12:59	am		
27)	082926.D		8260B-0206-1.M						
2308377-006B		O-VOC-S	56	1.000	30 Aug 2023	01:29	am		
28)	082927.D		8260B-0206-1.M						
2308377-006BDUP		O-VOC-S	57	1.000	30 Aug 2023	01:59	am		
29)	082928.D		8260B-0206-1.M						
2308377-007B		O-VOC-S	58	1.000	30 Aug 2023	02:29	am		
30)	082929.D		8260B-0206-1.M						
2308377-008B		O-VOC-S	59	1.000	30 Aug 2023	02:59	am		
31)	082930.D		8260B-0206-1.M						
2308377-009B		O-VOC-S	60	1.000	30 Aug 2023	03:30	am		
32)	082931.D		8260B-0206-1.M						
2308377-013B		O-VOC-S	61	1.000	30 Aug 2023	04:00	am		
33)	082932.D		8260B-0206-1.M						
2308377-014B		O-VOC-S	62	1.000	30 Aug 2023	04:30	am		
34)	082933.D		8260B-0206-1.M						
2308377-016B		O-VOC-S	63	1.000	30 Aug 2023	05:00	am		
35)	082934.D		8260B-0206-1.M						
2308377-017B		O-VOC-S	64	1.000	30 Aug 2023	05:30	am		
36)	082935.D		8260B-0206-1.M						
2308377-018B		O-VOC-S	65	1.000	30 Aug 2023	06:00	am		
37)	082936.D		8260B-0206-1.M						
2308377-003BMS VOC		O-VOC-S	66	1.000	30 Aug 2023	06:31	am		
38)	082937.D		8260B-0206-1.M						
2308377-007BMS GX		O-VOC-S	67	1.000	30 Aug 2023	07:01	am		
39)	082938.D		8260B-0206-1.M						
R		O-VOC-W		1.000	30 Aug 2023	07:30	am		
40)	082939.D		8260B-0206-1.M						
R		O-VOC-W		1.000	30 Aug 2023	07:58	am		
41)	082940.D		8260B-0206-1.M						
CCV-41347B VOC		O-VOC-W	68	1.000	30 Aug 2023	08:29	am		
42)	082941.D		8260B-0206-1.M						
CCV-41347B GX		O-VOC-S	69	1.000	30 Aug 2023	08:59	am		
43)	082942.D		8260B-0206-1.M						
R		O-VOC-GX-S		1.000	30 Aug 2023	09:27	am		
44)	082943.D		8260B-0206-1.M						
2308302-012A 100X		O-VOC-W	74	1.000	30 Aug 2023	09:58	am		
45)	082944.D		8260B-0206-1.M						

2308302-012A	500X	O-VOC-W	75	1.000	30 Aug 2023	10:28	am
46)	082945.D	8260B-0206-1.M					
2308302-011A	500X	O-VOC-W	76	1.000	30 Aug 2023	10:58	am
47)	082946.D	8260B-0206-1.M					
2308377-003B	RR	O-VOC-S	77	1.000	30 Aug 2023	11:28	am
48)	082947.D	8260B-0206-1.M					
2308377-002B	10x	O-VOC-S	78	1.000	30 Aug 2023	11:59	am
49)	082948.D	8260B-0206-1.M					
2308383-001B	20X	O-VOC-S	70	1.000	30 Aug 2023	12:29	pm
50)	082949.D	8260B-0206-1.M					
2308384-001B	20X	O-VOC-S	71	1.000	30 Aug 2023	01:00	pm
51)	082950.D	8260B-0206-1.M					
2308356-001B	10000..	O-VOC-S	72	1.000	30 Aug 2023	01:30	pm
52)	082951.D	8260B-0206-1.M					
R		O-VOC-GX-S		1.000	30 Aug 2023	01:59	pm
53)	082952.D	8260B-0206-1.M					
R		O-VOC-GX-S		1.000	30 Aug 2023	02:27	pm
54)	082953.D	8260B-0206-1.M					
R		O-VOC-GX-S		1.000	30 Aug 2023	02:56	pm
55)	082954.D	8260B-0206-1.M					
2308384-001B	100x	O-VOC-S	79	1.000	30 Aug 2023	03:26	pm
56)	082955.D	8260B-0206-1.M					
R		O-VOC-GX-S		1.000	30 Aug 2023	03:55	pm
57)	082956.D	8260B-0206-1.M					
CCV-41347C	GX	O-VOC-GX-S	73	1.000	30 Aug 2023	04:25	pm
58)	082957.D	8260B-0206-1.M					
r		O-VOC-GX-S		1.000	30 Aug 2023	04:54	pm
59)	082958.D	8260B-0206-1.M					
2308356-001B	100000X	O-VOC-S	80	1.000	30 Aug 2023	05:24	pm
60)	082959.D	8260B-0206-1.M					
2308356-001B	10000X	O-VOC-S	81	1.000	30 Aug 2023	05:55	pm
61)	082960.D	8260B-0206-1.M					
r		O-VOC-S		1.000	30 Aug 2023	06:23	pm
62)	082961.D	8260B-0206-1.M					
r		O-VOC-S		1.000	30 Aug 2023	06:52	pm
63)	082962.D	8260B-0206-1.M					
r		O-VOC-S		1.000	30 Aug 2023	07:21	pm
64)	082963.D	8260B-0206-1.M					
r		O-VOC-S		1.000	30 Aug 2023	07:50	pm
65)	082964.D	8260B-0206-1.M					
2308383-001B	100X	O-VOC-S	82	1.000	30 Aug 2023	08:20	pm
66)	082965.D	8260B-0206-1.M					
r		O-VOC-S		1.000	30 Aug 2023	08:49	pm
67)	082966.D	8260B-0206-1.M					
r		O-VOC-S		1.000	30 Aug 2023	09:17	pm
68)	082967.D	8260B-0206-1.M					
r		O-VOC-S		1.000	30 Aug 2023	09:46	pm

69)	082968.D		8260B-0206-1.M						
r		O-VOC-S		1.000	30 Aug 2023	10:15	pm		
70)	082969.D		8260B-0206-1.M						
r		O-VOC-S		1.000	30 Aug 2023	10:44	pm		
71)	082970.D		8260B-0206-1.M						
GX CCV D		O-VOC-S	83	1.000	30 Aug 2023	11:14	pm		
72)	082971.D		8260B-0206-1.M						
r		O-VOC-S		1.000	30 Aug 2023	11:43	pm		
73)	082972.D		8260B-0206-1.M						
r		O-VOC-S		1.000	31 Aug 2023	12:11	am		
74)	082973.D		8260B-0206-1.M						
r		O-VOC-S		1.000	31 Aug 2023	12:40	am		
75)	082974.D		8260B-0206-1.M						
r		O-VOC-S		1.000	31 Aug 2023	09:10	am		
76)	082975.D		8260B-0206-1.M						
2308383-001B 100X		O-VOC-S	1	1.000	31 Aug 2023	09:40	am		
77)	082976.D		8260B-0206-1.M						
r		O-VOC-S		1.000	31 Aug 2023	10:09	am		
78)	082977.D		8260B-0206-1.M						
GX CCV E		O-VOC-S	2	1.000	31 Aug 2023	10:39	am		
79)	082978.D		8260B-0206-1.M						
r		O-VOC-S		1.000	31 Aug 2023	11:08	am		
80)	082979.D		8260B-0206-1.M						
MB-S		O-VOC-GX-S	3	1.000	31 Aug 2023	12:00	pm		
81)	082980.D		8260B-0206-1.M						
2308427-001B		O-VOC-GX-S	4	1.000	31 Aug 2023	12:30	pm		
82)	082981.D		8260B-0206-1.M						
2308427-002B		O-VOC-GX-S	5	1.000	31 Aug 2023	01:00	pm		
83)	082983.D		8260B-0206-1.M						
2308427-002B		O-VOC-GX-S	6	1.000	31 Aug 2023	02:50	pm		
84)	082984.D		8260B-0206-1.M						
2308427-002BDUP		O-VOC-GX-S	7	1.000	31 Aug 2023	03:20	pm		
85)	082985.D		8260B-0206-1.M						
2308427-003B		O-VOC-GX-S	8	1.000	31 Aug 2023	03:50	pm		
86)	082986.D		8260B-0206-1.M						
2308427-003BDUP		O-VOC-GX-S	9	1.000	31 Aug 2023	04:20	pm		
87)	082987.D		8260B-0206-1.M						
2308427-004B		O-VOC-GX-S	10	1.000	31 Aug 2023	04:50	pm		
88)	082988.D		8260B-0206-1.M						
2308427-005B		O-VOC-GX-S	11	1.000	31 Aug 2023	05:21	pm		
89)	082989.D		8260B-0206-1.M						
2308427-006B		O-VOC-GX-S	12	1.000	31 Aug 2023	05:51	pm		
90)	082990.D		8260B-0206-1.M						
2308427-007B		O-VOC-GX-S	13	1.000	31 Aug 2023	06:21	pm		
91)	082991.D		8260B-0206-1.M						
2308427-008B		O-VOC-GX-S	14	1.000	31 Aug 2023	06:51	pm		

92) 082992.D	8260B-0206-1.M					
2308427-009B	O-VOC-GX-S	15	1.000	31 Aug 2023	07:21	pm
93) 082993.D	8260B-0206-1.M					
2308427-010B	O-VOC-GX-S	16	1.000	31 Aug 2023	07:51	pm
94) 082994.D	8260B-0206-1.M					
2308427-001BMS GX	O-VOC-GX-S	21	1.000	31 Aug 2023	08:21	pm
95) 082995.D	8260B-0206-1.M					
R	O-VOC-GX-S		1.000	31 Aug 2023	08:50	pm
96) 082996.D	8260B-0206-1.M					
GX CCV F	O-VOC-GX-S	22	1.000	31 Aug 2023	09:20	pm
97) 082997.D	8260B-0206-1.M					
R	O-VOC-GX-S		1.000	31 Aug 2023	09:49	pm
98) 082998.D	8260B-0206-1.M					
2308427-011B	O-VOC-GX-S	17	1.000	31 Aug 2023	10:19	pm
99) 082999.D	8260B-0206-1.M					
2308427-012B	O-VOC-GX-S	18	1.000	31 Aug 2023	10:49	pm
100) 083000.D	8260B-0206-1.M					
2308427-013B	O-VOC-GX-S	19	1.000	31 Aug 2023	11:19	pm
101) 083001.D	8260B-0206-1.M					
2308427-014B	O-VOC-GX-S	20	1.000	31 Aug 2023	11:50	pm
102) 083002.D	8260B-0206-1.M					
2308427-015B	O-VOC-GX-S	23	1.000	01 Sep 2023	12:20	am
103) 083003.D	8260B-0206-1.M					
2308427-016B	O-VOC-GX-S	24	1.000	01 Sep 2023	12:50	am
104) 083004.D	8260B-0206-1.M					
2308427-017B	O-VOC-GX-S	25	1.000	01 Sep 2023	01:20	am
105) 083005.D	8260B-0206-1.M					
2308427-018B	O-VOC-GX-S	26	1.000	01 Sep 2023	01:50	am
106) 083006.D	8260B-0206-1.M					
2308427-019B	O-VOC-GX-S	27	1.000	01 Sep 2023	02:20	am
107) 083007.D	8260B-0206-1.M					
2308427-020B	O-VOC-GX-S	28	1.000	01 Sep 2023	02:50	am
108) 083008.D	8260B-0206-1.M					
R	O-VOC-GX-S		1.000	01 Sep 2023	03:19	am
109) 083011.D	8260B-0206-1.M					
VOC S CCV D	O-VOC-S	29	1.000	01 Sep 2023	03:48	am
110) 083012.D	8260B-0206-1.M					
GX CCV G	O-VOC-GX-S	30	1.000	01 Sep 2023	04:17	am
111) 083013.D	8260B-0206-1.M					
R	O-VOC-GX-S		1.000	01 Sep 2023	04:47	am
112) 083014.D	8260B-0206-1.M					
MB-41373	O-VOC-S	31	1.000	01 Sep 2023	05:17	am
113) 083015.D	8260B-0206-1.M					
2308436-007B	O-VOC-S	32	1.000	01 Sep 2023	05:46	am
114) 083016.D	8260B-0206-1.M					
2308286-006B	O-VOC-S	33	1.000	01 Sep 2023	06:16	am
115) 083017.D	8260B-0206-1.M					

2308436-001B	O-VOC-S	8260B-0206-1.M	34	1.000	01 Sep 2023	06:46 am

116) 083018.D		8260B-0206-1.M				
2308436-002B	O-VOC-S		35	1.000	01 Sep 2023	07:16 am

117) 083019.D		8260B-0206-1.M				
2308436-002BDUP	O-VOC-S		36	1.000	01 Sep 2023	07:46 am

118) 083020.D		8260B-0206-1.M				
2308436-003B	O-VOC-S		37	1.000	01 Sep 2023	08:16 am

119) 083021.D		8260B-0206-1.M				
2308436-002BDUP REAL	O-VOC-S		36	1.000	01 Sep 2023	08:47 am

120) 083022.D		8260B-0206-1.M				
2308436-003B REAL	O-VOC-S		37	1.000	01 Sep 2023	09:17 am

121) 083023.D		8260B-0206-1.M				
2308436-005B 10X	O-VOC-S		38	1.000	01 Sep 2023	09:47 am

122) 083024.D		8260B-0206-1.M				
R	O-VOC-S			1.000	01 Sep 2023	10:16 am

123) 083025.D		8260B-0206-1.M				
2308436-004B	O-VOC-S		39	1.000	01 Sep 2023	10:46 am

124) 083026.D		8260B-0206-1.M				
2308436-004BDUP	O-VOC-S		40	1.000	01 Sep 2023	11:16 am

125) 083027.D		8260B-0206-1.M				
R	O-VOC-S			1.000	01 Sep 2023	11:45 am

126) 083028.D		8260B-0206-1.M				
2308436-006B	O-VOC-S		41	1.000	01 Sep 2023	12:15 pm

127) 083032.D		8260B-0206-1.M				
R	O-VOC-S			1.000	01 Sep 2023	12:44 pm

128) 083033.D		8260B-0206-1.M				
2308436-001BMS VOC	O-VOC-S		43	1.000	01 Sep 2023	01:14 pm

129) 083034.D		8260B-0206-1.M				
2308436-003BMS GX	O-VOC-S		44	1.000	01 Sep 2023	01:44 pm

130) 083035.D		8260B-0206-1.M				
R	O-VOC-S			1.000	01 Sep 2023	02:13 pm

131) 090101.D		8260B-0206-1.M				
VOC S CCV E	O-VOC-S		1	1.000	01 Sep 2023	02:43 pm

132) 090102.D		8260B-0206-1.M				
GX CCV H	O-VOC-S		2	1.000	01 Sep 2023	03:13 pm

Data Directory: D:\GC-27\DATA\090523\

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) 090501.D R	8260B-0206-1.M O-VOC-S		1.000	05 Sep 2023 08:49 am
2) 090502.D VOC S CCV A	8260B-0206-1.M O-VOC-S	1	1.000	05 Sep 2023 09:19 am
3) 090503.D GX CCV A	8260B-0206-1.M O-VOC-S	2	1.000	05 Sep 2023 09:49 am
4) 090504.D 1122 TETRA breakdo..	8260B-0206-1.M O-VOC-S	3	1.000	05 Sep 2023 10:19 am
5) 090505.D VOC S CCV AA	8260B-0206-1.M O-VOC-S	15	1.000	05 Sep 2023 10:49 am
6) 090506.D R	8260B-0206-1.M O-VOC-S		1.000	05 Sep 2023 11:18 am
7) 090507.D VOC S CCV new std	8260B-0206-1.M O-VOC-S	16	1.000	05 Sep 2023 11:48 am
8) 090508.D R	8260B-0206-1.M O-VOC-S		1.000	05 Sep 2023 12:17 pm
9) 090509.D MB S	8260B-0206-1.M O-VOC-S	4	1.000	05 Sep 2023 12:47 pm
10) 090515.D 2308436-004B 5x	8260B-0206-1.M O-VOC-S	5	1.000	05 Sep 2023 01:17 pm
11) 090516.D 2308436-005B 5x	8260B-0206-1.M O-VOC-S	6	1.000	05 Sep 2023 01:47 pm
12) 090517.D 2308436-003B 50x	8260B-0206-1.M O-VOC-S	7	1.000	05 Sep 2023 02:17 pm
13) 090518.D R	8260B-0206-1.M O-VOC-S		1.000	05 Sep 2023 02:46 pm
14) 090523.D R	8260B-0206-1.M O-VOC-S		1.000	05 Sep 2023 03:15 pm
15) 090524.D R	8260B-0206-1.M O-VOC-S		1.000	05 Sep 2023 03:44 pm
16) 090525.D gx ccv b	8260B-0206-1.M O-VOC-S	8	1.000	05 Sep 2023 04:13 pm
17) 090526.D R	8260B-0206-1.M O-VOC-S		1.000	05 Sep 2023 04:45 pm
18) 090527.D R	8260B-0206-1.M O-VOC-S		1.000	05 Sep 2023 05:13 pm
19) 090528.D R	8260B-0206-1.M O-VOC-S		1.000	05 Sep 2023 05:42 pm
20) 090529.D R	8260B-0206-1.M O-VOC-S		1.000	05 Sep 2023 06:11 pm
21) 090530.D R	8260B-0206-1.M O-VOC-S		1.000	05 Sep 2023 06:40 pm

22)	090531.D	8260B-0206-1.M					
VOC S	CAL 1	O-VOC-S	9	1.000	05 Sep 2023	07:10	pm

23)	090532.D	8260B-0206-1.M					
VOC S	CAL 2	O-VOC-S	10	1.000	05 Sep 2023	07:40	pm

24)	090533.D	8260B-0206-1.M					
VOC S	CAL 3	O-VOC-S	11	1.000	05 Sep 2023	08:10	pm

25)	090534.D	8260B-0206-1.M					
VOC S	CAL 4	O-VOC-S	12	1.000	05 Sep 2023	08:40	pm

26)	090535.D	8260B-0206-1.M					
VOC S	CAL 5	O-VOC-S	13	1.000	05 Sep 2023	09:10	pm

27)	090536.D	8260B-0206-1.M					
VOC S	CAL 6	O-VOC-S	14	1.000	05 Sep 2023	09:41	pm

28)	090537.D	8260B-0206-1.M					
VOC S	CAL 7	O-VOC-S	15	1.000	05 Sep 2023	10:11	pm

29)	090538.D	8260B-0206-1.M					
VOC S	CAL 8	O-VOC-S	16	1.000	05 Sep 2023	10:41	pm

30)	090539.D	8260B-0206-1.M					
R		O-VOC-S		1.000	05 Sep 2023	11:10	pm

31)	090540.D	8260B-0206-1.M					
R		O-VOC-S		1.000	05 Sep 2023	11:38	pm

32)	090541.D	8260B-0206-1.M					
VOC S	CAL 11	O-VOC-S	17	1.000	06 Sep 2023	12:09	am

33)	090542.D	8260B-0206-1.M					
VOC S	CAL 12	O-VOC-S	18	1.000	06 Sep 2023	12:39	am

34)	090543.D	8260B-0206-1.M					
R		O-VOC-S		1.000	06 Sep 2023	01:08	am

35)	090544.D	8260B-0206-1.M					
R		O-VOC-S		1.000	06 Sep 2023	01:36	am

36)	090545.D	8260B-0206-1.M					
R		O-VOC-S		1.000	06 Sep 2023	02:05	am

37)	090546.D	8260B-0206-1.M					
R		O-VOC-S		1.000	06 Sep 2023	02:34	am

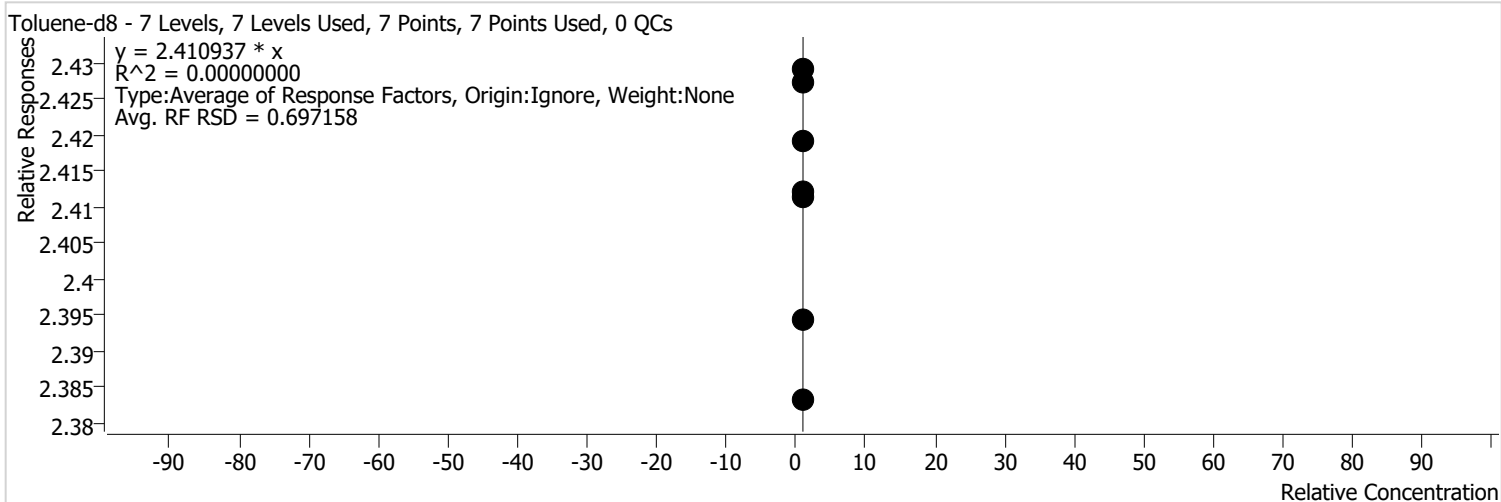


Calibration

Calibration Report

Batch Path	D:\GC-27\DATA\082323\QuantResults\GX ICAL.batch.bin	Analyst Name	FA\GC27
Analysis Time	8/24/2023 11:09 AM	Reporter Name	FA\GC27
Report Time	8/24/2023 11:14:12 AM	Batch State	Processed
Last Calib Update	8/24/2023 11:06 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Toluene-d8 %RSE =



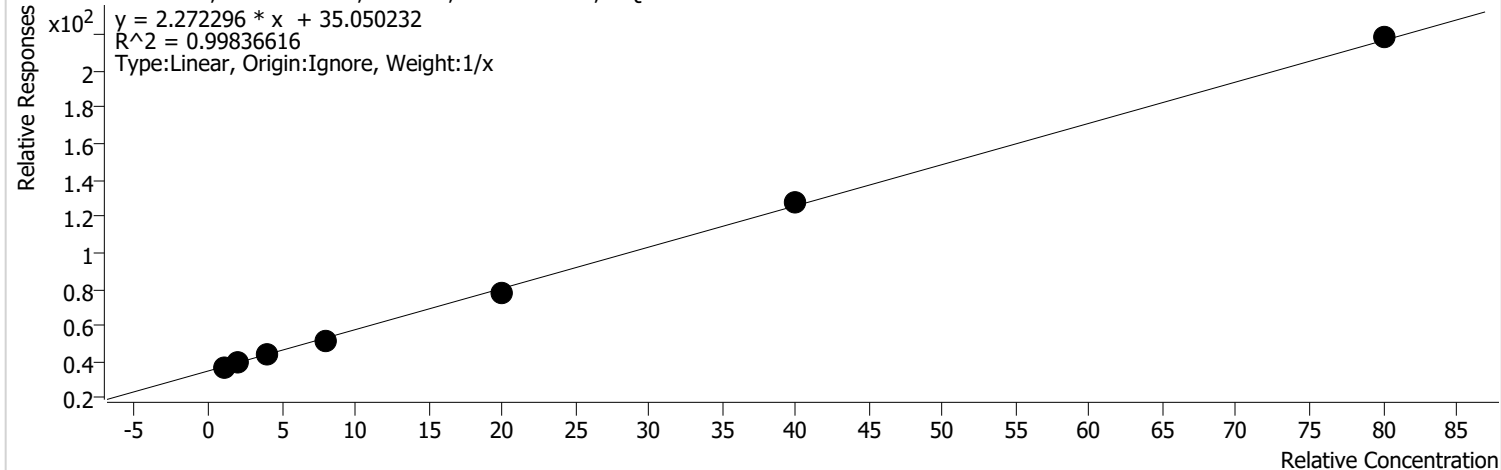
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082323\082333.D	Calibration	7	x	4484573	25.0000	2.3945	
D:\GC-27\DATA\082323\082332.D	Calibration	6	x	4186991	25.0000	2.4120	
D:\GC-27\DATA\082323\082331.D	Calibration	5	x	3978437	25.0000	2.4272	
D:\GC-27\DATA\082323\082330.D	Calibration	4	x	3976468	25.0000	2.4114	
D:\GC-27\DATA\082323\082329.D	Calibration	3	x	3773968	25.0000	2.4191	
D:\GC-27\DATA\082323\082328.D	Calibration	2	x	3897466	25.0000	2.4291	
D:\GC-27\DATA\082323\082327.D	Calibration	1	x	3845534	25.0000	2.3833	

Calibration Report

Batch Path	D:\GC-27\DATA\082323\QuantResults\GX ICAL.batch.bin		
Analysis Time	8/24/2023 11:09 AM	Analyst Name	FA\GC27
Report Time	8/24/2023 11:14:14 AM	Reporter Name	FA\GC27
Last Calib Update	8/24/2023 11:06 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

GASOLINE %RSE = 8.6

GASOLINE - 7 Levels, 7 Levels Used, 7 Points, 7 Points Used, 0 QCs

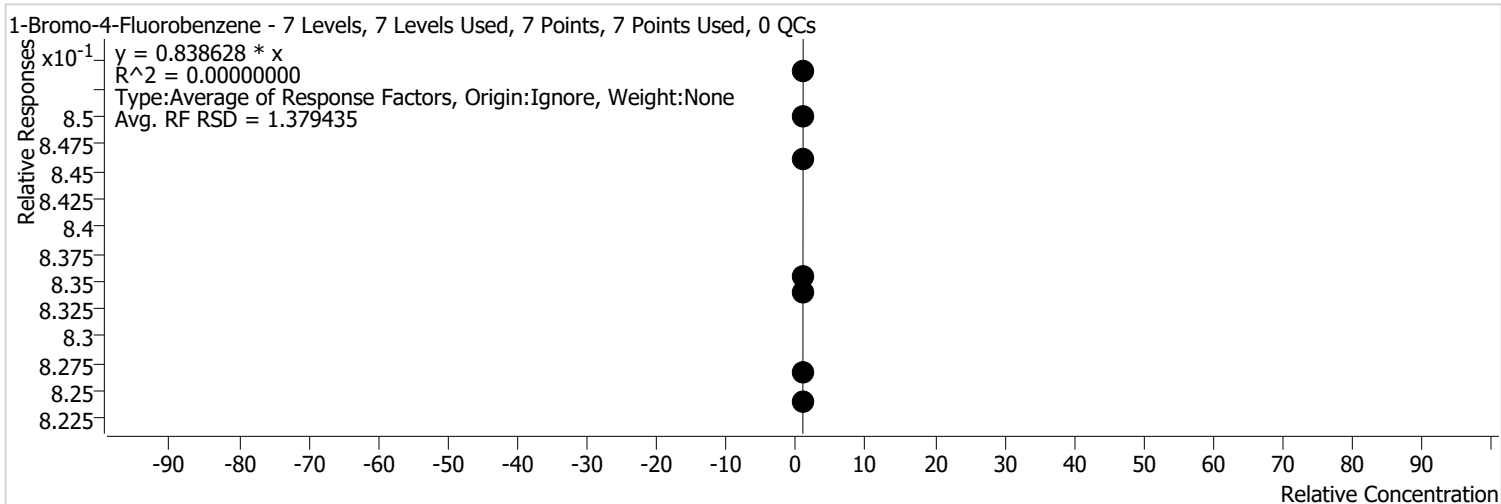


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082323\082327.D	Calibration	1	x	58663085	25.0000	37.3513	
D:\GC-27\DATA\082323\082328.D	Calibration	2	x	62041592	50.0000	20.1391	
D:\GC-27\DATA\082323\082329.D	Calibration	3	x	66397929	100.0000	10.8947	
D:\GC-27\DATA\082323\082330.D	Calibration	4	x	85757227	200.0000	6.4784	
D:\GC-27\DATA\082323\082331.D	Calibration	5	x	124634840	500.0000	3.8900	
D:\GC-27\DATA\082323\082332.D	Calibration	6	x	215128053	1000.0000	3.2094	
D:\GC-27\DATA\082323\082333.D	Calibration	7	x	399463989	2000.0000	2.7293	

Calibration Report

Batch Path	D:\GC-27\DATA\082323\QuantResults\GX ICAL.batch.bin		
Analysis Time	8/24/2023 11:09 AM	Analyst Name	FA\GC27
Report Time	8/24/2023 11:14:14 AM	Reporter Name	FA\GC27
Last Calib Update	8/24/2023 11:06 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1-Bromo-4-Fluorobenzene %RSE =



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082323\082333.D	Calibration	7	x	1564784	25.0000	0.8355	
D:\GC-27\DATA\082323\082332.D	Calibration	6	x	1468617	25.0000	0.8460	
D:\GC-27\DATA\082323\082331.D	Calibration	5	x	1399862	25.0000	0.8540	
D:\GC-27\DATA\082323\082330.D	Calibration	4	x	1401674	25.0000	0.8500	
D:\GC-27\DATA\082323\082329.D	Calibration	3	x	1300915	25.0000	0.8339	
D:\GC-27\DATA\082323\082328.D	Calibration	2	x	1326638	25.0000	0.8268	
D:\GC-27\DATA\082323\082327.D	Calibration	1	x	1329763	25.0000	0.8241	

R 86113

GX Calibration



Date: 8/23/23

Analyst: KS

Instrument: 6027

Cal	ICV
GX Standard: <u>28755</u>	GX Standard: <u>28565</u>

IS/Surrogate 28797

Cal Level	Spike Conc. (ppb)	Cal GX Spike (uL)	ICV GX Spike (uL)	Final Vol. (mL)	Comments
1	25	0.50	--	50	
2	50	1.00	--	50	
3	100	2.00	--	50	
4	200	4.00	--	50	
5	500	10.00	--	50	
6	1000	20.00	--	50	
7	2000	40.00	--	50	
	ICV (500 ppb)	--	10.00	50	

Signature and Date: Kelley J. 8/23/23

Signature: AK

V-Gasoline Calibration Bench Sheet v1.1

1 of 1

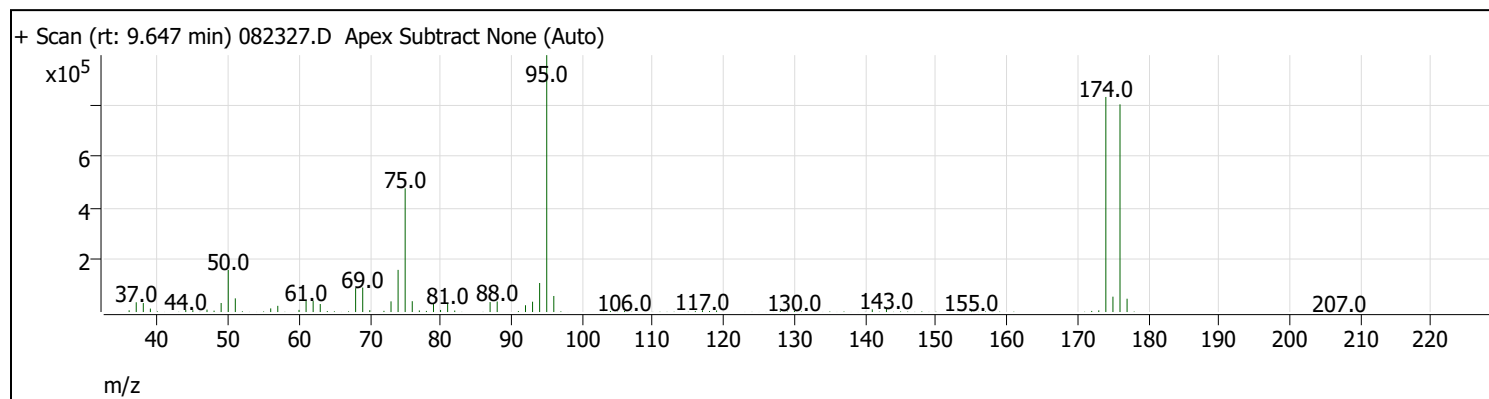
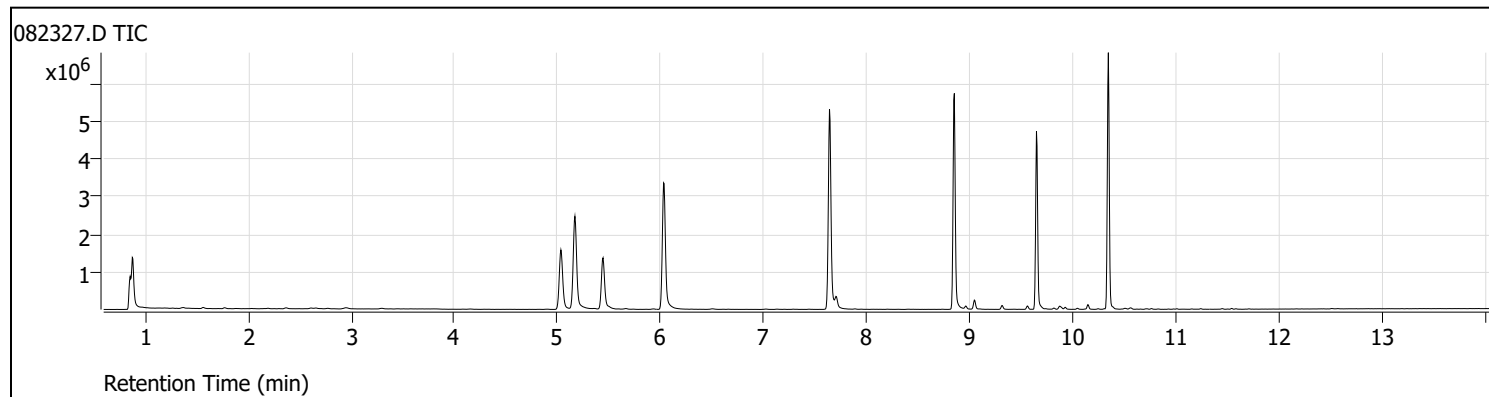
Official Approval: 4/12/2023



Tunes

Tune Evaluation Report

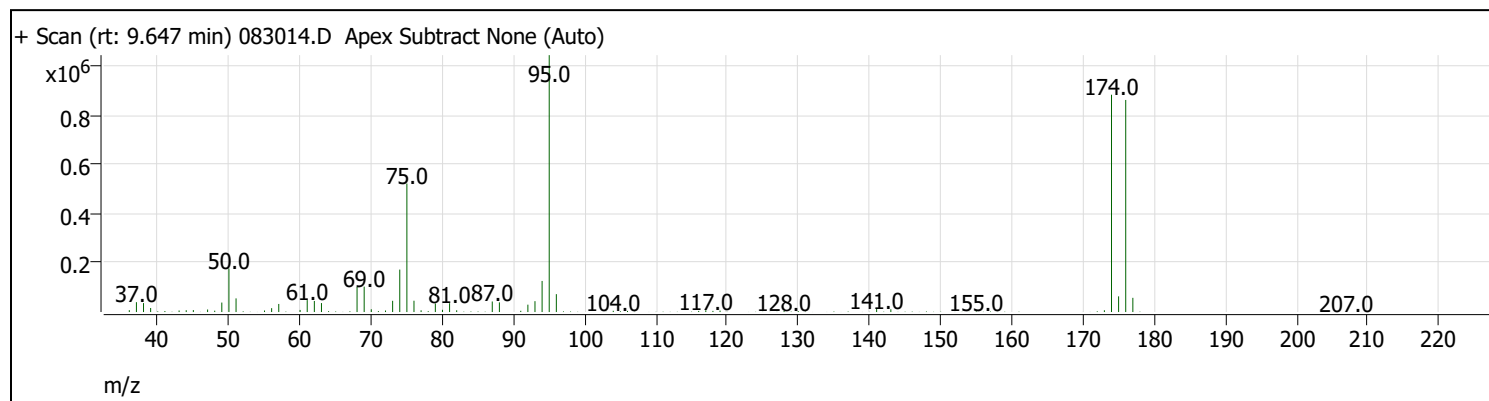
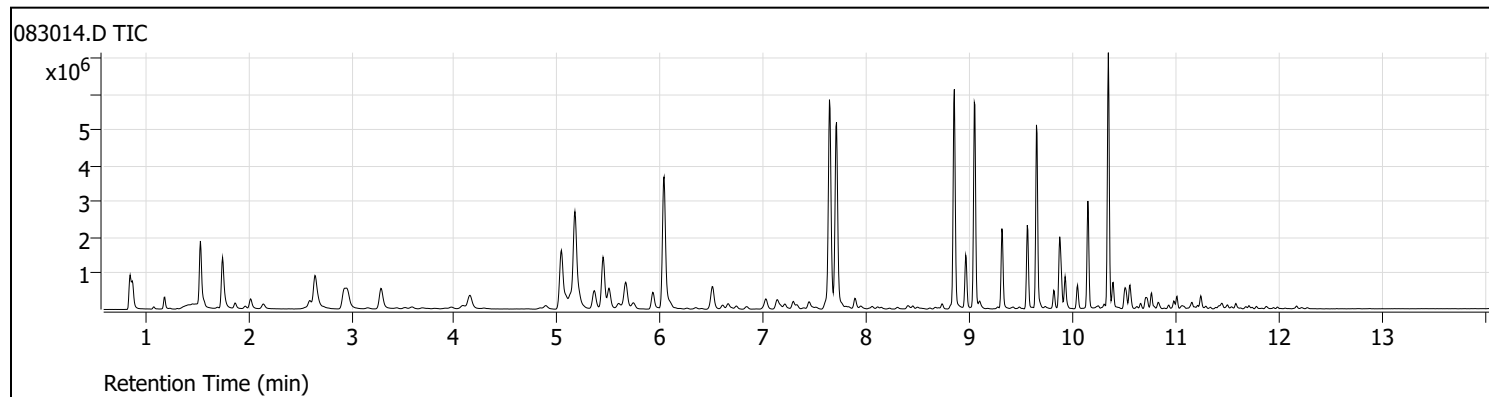
Data Path: D:\GC-27\DATA\082323\082327.D
 Acq on: 8/24/2023 3:32:17 AM
 Operator: CMC/SH/MDS
 Sample: GX ICAL 1
 Inst Name: GC-27
 ALS Vial: 12
 Method: D:\MassHunter\Methods\Quant\BFB2021.m



Target Mass	Rel. To Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Pass/Fail
95	174	50	200	119.4	989296	Pass
96	95	5	9	6.2	61778	Pass
173	174	0	2	0.8	6405	Pass
174	95	50	200	83.7	828280	Pass
175	174	5	9	7.1	59160	Pass
176	174	95	105	96.6	799795	Pass
177	176	5	10	6.4	51337	Pass

Tune Evaluation Report

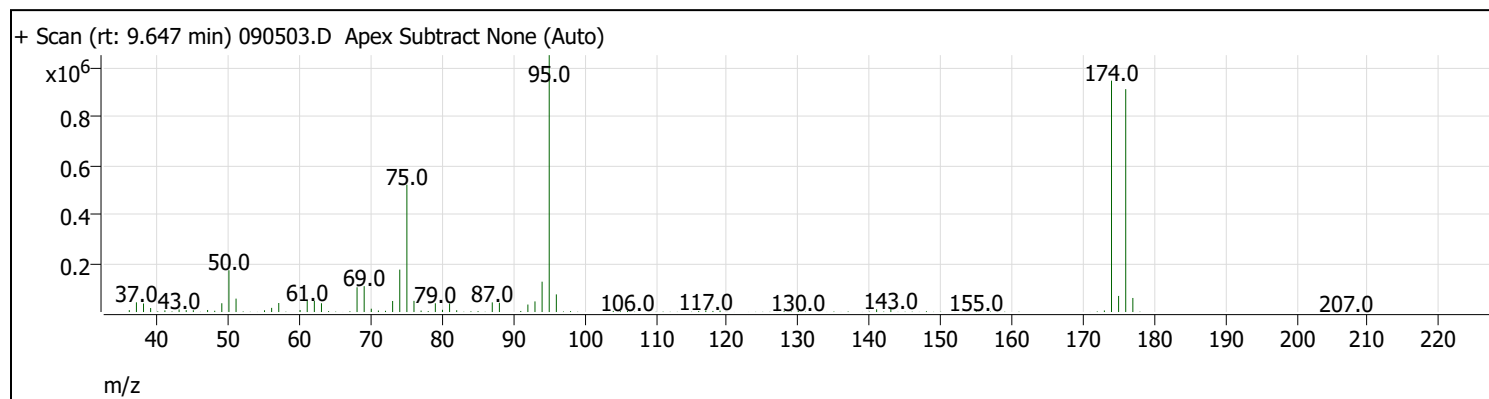
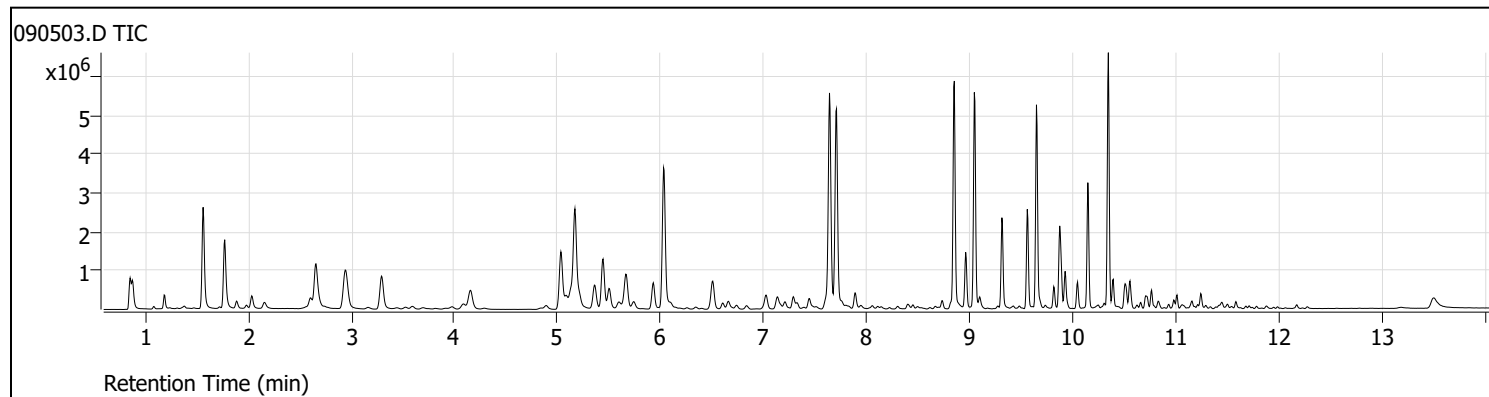
Data Path: D:\GC-27\DATA\082923\083014.D
 Acq on: 9/1/2023 5:17:26 AM
 Operator: CMC/MDS/KJ
 Sample: MB-41373
 Inst Name: GC-27
 ALS Vial: 31
 Method: D:\MassHunter\Methods\Quant\BFB2021.m



Target Mass	Rel. To Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Pass/Fail
95	174	50	200	118.2	1043463	Pass
96	95	5	9	7.0	72588	Pass
173	174	0	2	0.8	7228	Pass
174	95	50	200	84.6	882672	Pass
175	174	5	9	7.2	63725	Pass
176	174	95	105	97.6	861487	Pass
177	176	5	10	6.7	57662	Pass

Tune Evaluation Report

Data Path: D:\GC-27\DATA\090523\090503.D
 Acq on: 9/5/2023 9:49:20 AM
 Operator: CMC/MDS/KJ
 Sample: GX CCV A
 Inst Name: GC-27
 ALS Vial: 2
 Method: D:\MassHunter\Methods\Quant\BFB2021.m



Target Mass	Rel. To Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Pass/Fail
95	174	50	200	111.0	1053152	Pass
96	95	5	9	6.9	72295	Pass
173	174	0	2	0.7	6425	Pass
174	95	50	200	90.1	948600	Pass
175	174	5	9	7.0	66043	Pass
176	174	95	105	96.3	913715	Pass
177	176	5	10	6.3	57594	Pass



Internal Standards

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-27 230905B CCV Name: R86113 GX MIDPOINT
 Run No: 86317 CCV SeqNo: 1801533
 Lab File ID (Standard): 082331.D Date Analyzed: 8/24/2023
 Instrument ID: GC-27 Time Analyzed: 5:32
 GC Column: ID (mm): Length (M):

	IS1 (CBZ) AREA #	RT #	IS2 (14DCBZ) AREA #	RT #				
12 HOUR STD	1639108	8.850	1602002	10.344				
UPPER LIMIT	3278216	9.350	3204004	10.844				
LOWER LIMIT	819554	8.350	801001	9.844				
SAMPLE NO.								
01	CCV-41372A	1.64596e+006	8.85	1.61419e+006	10.344			
02	CCV-41372B	1.5212e+006	8.85	1.56417e+006	10.345			
03	CCV-41372C	1.5689e+006	8.85	1.49961e+006	10.344			
04	CCV-41372D	1.5918e+006	8.85	1.59125e+006	10.345			

IS1 (CBZ) = Chlorobenzene-d5

IS2 (14DCBZ) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-27 230905B CCV Name: CCV-41372A
 Run No: 86317 CCV SeqNo: 1801529
 Lab File ID (Standard): 083014.D Date Analyzed: 9/1/2023
 Instrument ID: GC-27 Time Analyzed: 5:17
 GC Column: ID (mm): Length (M):

	IS1 (CBZ) AREA #	RT #	IS2 (14DCBZ) AREA #	RT #				
12 HOUR STD	1645957	8.850	1614188	10.344				
UPPER LIMIT	3291914	9.350	3228376	10.844				
LOWER LIMIT	822979	8.350	807094	9.844				
SAMPLE NO.								
01	LCS-41372	1.64596e+006	8.85	1.61419e+006	10.344			
02	MB-41372	1.6743e+006	8.85	1.61374e+006	10.344			
03	2308436-007A	1.61502e+006	8.85	1.48439e+006	10.345			
04	2308286-006B	1.74297e+006	8.85	1.6883e+006	10.345			
05	2308436-001B	1.34927e+006	8.85	1.31069e+006	10.344			
06	2308436-002B	1.42647e+006	8.85	1.55943e+006	10.345			
07	2308436-002BDUP	1.67827e+006	8.85	1.60609e+006	10.345			
08	2308436-003B	1.81156e+006	8.85	1.8067e+006	10.345			
09	2308436-005B	1.93135e+006	8.845	1.92833e+006	10.344			
10	2308436-004B	1.80889e+006	8.85	1.8395e+006	10.345			
11	2308436-004BDUP	1.78184e+006	8.85	1.77374e+006	10.345			
12	2308436-006B	1.38728e+006	8.85	1.37067e+006	10.345			
13	2308436-003BMS	1.74764e+006	8.85	1.92135e+006	10.344			

IS1 (CBZ) = Chlorobenzene-d5

IS2 (14DCBZ) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-27 230905B

CCV Name: CCV-41372C

Run No: 86317

CCV SeqNo: 1801971

Lab File ID (Standard): 090503.D

Date Analyzed: 9/5/2023

Instrument ID: GC-27

Time Analyzed: 9:49

GC Column:

ID (mm):

Length (M):

	IS1 (CBZ) AREA #	RT #	IS2 (14DCBZ) AREA #	RT #				
12 HOUR STD	1568897	8.850	1499608	10.344				
UPPER LIMIT	3137794	9.350	2999216	10.844				
LOWER LIMIT	784449	8.350	749804	9.844				
SAMPLE NO.								
01 2308436-004B	1.3243e+006	8.85	1.40016e+006	10.345				
02 2308436-005B	1.60982e+006	8.85	1.67106e+006	10.345				
03 2308436-003B	1.67597e+006	8.85	1.72096e+006	10.345				

IS1 (CBZ) = Chlorobenzene-d5

IS2 (14DCBZ) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

DATA SET for Review - Deliverable Requirements

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Fremont Analytical Work Order No. 2308436

GeoEngineers

Project Name: S Jackson Street

Project Number: 24504-001-01

This data set contains the following:

- Analytical Sequence Summary
- Calibration Information
- Tune Information
- Internal Standards Report

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) 073104.D No data found	SIM_8270E-625.M		0.000	N/A
2) 073101.D CO	SIM_8270E-625.M	2	1.000	31 Jul 2023 08:10 am
3) 073102.D TUNE	SCAN-8270E-625.M	1	1.000	31 Jul 2023 08:40 am
4) 073103.D CCV	SIM_8270E-625.M	2	1.000	31 Jul 2023 09:11 am
5) 073105.D TUNE	SCAN-8270E-625.M	1	1.000	31 Jul 2023 09:58 am
6) 073106.D CCV	SCAN-8270E-625.M	2	1.000	31 Jul 2023 10:28 am
7) 073107.D 2307271-017A	SCAN-8270E-625.M	124	1.000	31 Jul 2023 11:30 am
8) 073108.D 2307271-018A	SCAN-8270E-625.M	125	1.000	31 Jul 2023 12:00 pm
9) 073109.D 2307271-001A	SCAN-8270E-625.M	106	1.000	31 Jul 2023 12:30 pm
10) 073110.D 2307271-011A	SCAN-8270E-625.M	118	1.000	31 Jul 2023 01:29 pm
11) 073111.D 2307271-015A	SCAN-8270E-625.M	122	1.000	31 Jul 2023 02:24 pm
12) 073112.D SEMI CCV-QCS-	SCAN-8270E-625.M	2	1.000	31 Jul 2023 02:54 pm
13) 073114.D CO	SIM_8270E-625.M	2	1.000	31 Jul 2023 04:32 pm
14) 073115.D TUNE	SCAN-8270E-625.M	1	1.000	31 Jul 2023 05:02 pm
15) 073116.D PAH Cal 10	SIM_8270E-625.M	82	1.000	31 Jul 2023 05:33 pm
16) 073117.D PAH Cal 20	SIM_8270E-625.M	83	1.000	31 Jul 2023 06:03 pm
17) 073118.D PAH Cal 40	SIM_8270E-625.M	84	1.000	31 Jul 2023 06:34 pm
18) 073119.D PAh Cal 100	SIM_8270E-625.M	85	1.000	31 Jul 2023 07:04 pm
19) 073120.D PAH CAL 200	SIM_8270E-625.M	86	1.000	31 Jul 2023 07:34 pm
20) 073121.D PAH Cal 500	SIM_8270E-625.M	87	1.000	31 Jul 2023 08:05 pm
21) 073122.D Pah Cal 750	SIM_8270E-625.M	88	1.000	31 Jul 2023 08:35 pm
22) 073123.D PAH Cal 1000	SIM_8270E-625.M	89	1.000	31 Jul 2023 09:05 pm
23) 073124.D PAH Cal 2000	SIM_8270E-625.M	90	1.000	31 Jul 2023 09:36 pm
24) 073125.D PAH Cal 5000	SIM_8270E-625.M	91	1.000	31 Jul 2023 10:06 pm
25) 073126.D PAH ICV	SIM_8270E-625.M	93	1.000	31 Jul 2023 10:36 pm
26) 073127.D PAH ICB	SIM_8270E-625.M	92	1.000	31 Jul 2023 11:07 pm
27) 073128.D TUNE	SCAN-8270E-625.M	1	1.000	31 Jul 2023 11:37 pm

28) 073129.D SEMI CCV-QCS-	SCAN-8270E-625.M	2	1.000	01 Aug 2023	12:07 am

29) 073130.D 2307233-002C	SCAN-8270E-625.M	126	1.000	01 Aug 2023	12:37 am

30) 073131.D 2307233-003C	SCAN-8270E-625.M	127	1.000	01 Aug 2023	01:07 am

31) 073132.D 2307233-004C	SCAN-8270E-625.M	128	1.000	01 Aug 2023	01:38 am

32) 073133.D 2307252-001C	SCAN-8270E-625.M	129	1.000	01 Aug 2023	02:08 am

33) 073134.D 2307252-001CDUP	SCAN-8270E-625.M	130	1.000	01 Aug 2023	02:38 am

34) 073135.D CO	SCAN-8270E-625.M	2	1.000	01 Aug 2023	03:08 am

35) 073136.D SEMI QCS	SCAN-8270E-625.M	2	1.000	01 Aug 2023	03:38 am

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) 090712.D No data found	SIM_8270E-625.M		0.000	N/A
2) 090701.D CO	SIM_8270E-625.M	4	1.000	08 Sep 2023 08:38 am
3) 090702.D tune	SIM_8270E-625.M	1	1.000	08 Sep 2023 09:08 am
4) 090703.D tune	SCAN-8270E-625.M	1	1.000	08 Sep 2023 09:39 am
5) 090704.D CCV-	SIM_8270E-625.M	4	1.000	08 Sep 2023 10:09 am
6) 090705.D MB-41418	SIM_8270E-625.M	81	1.000	08 Sep 2023 10:40 am
7) 090706.D LCS-41418	SIM_8270E-625.M	82	1.000	08 Sep 2023 11:10 am
8) 090707.D 2308436-001A	SIM_8270E-625.M	83	1.000	08 Sep 2023 11:41 am
9) 090708.D 2308436-002A	SIM_8270E-625.M	84	1.000	08 Sep 2023 12:11 pm
10) 090709.D 2309041-001A	SIM_8270E-625.M	85	1.000	08 Sep 2023 12:41 pm
11) 090710.D 2309041-001AMS	SIM_8270E-625.M	86	1.000	08 Sep 2023 01:11 pm
12) 090711.D 2309041-001AMSD	SIM_8270E-625.M	87	1.000	08 Sep 2023 01:44 pm



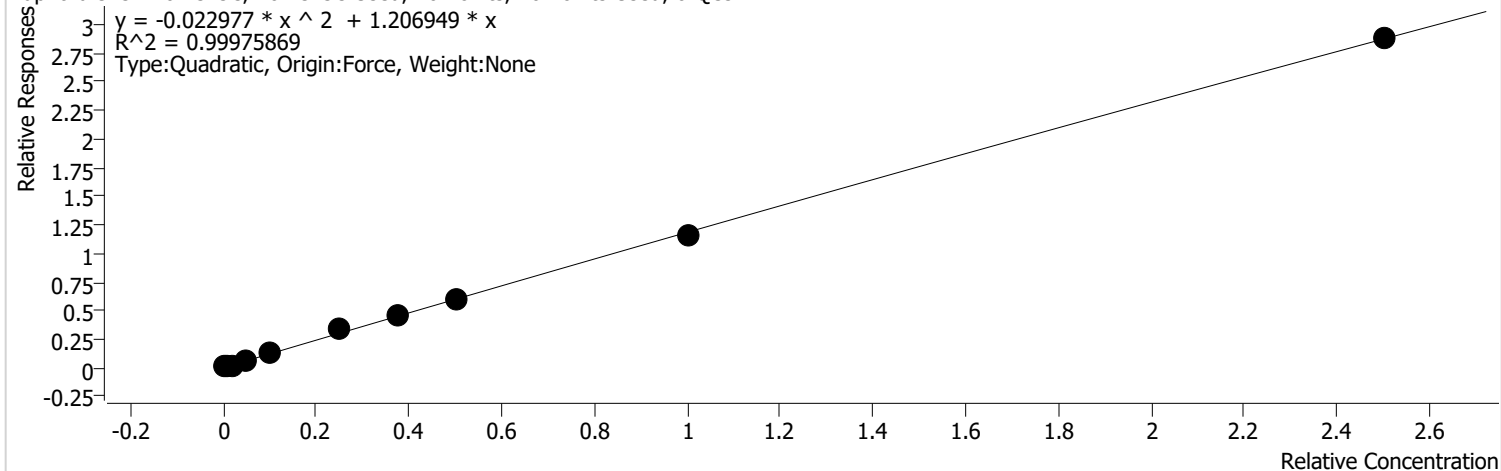
Calibration

Calibration Report

Batch Path	D:\GC-21\Data\2023\073123\QuantResults\PAH ICAL.batch.bin		
Analysis Time	8/29/2023 11:41:10 AM	Analyst Name	FA\GC1821
Report Time	8/29/2023 11:43:25 AM	Reporter Name	GC1821
Last Calib Update	8/29/2023 11:22:27 AM	Batch State	Processed

Naphthalene

Naphthalene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs

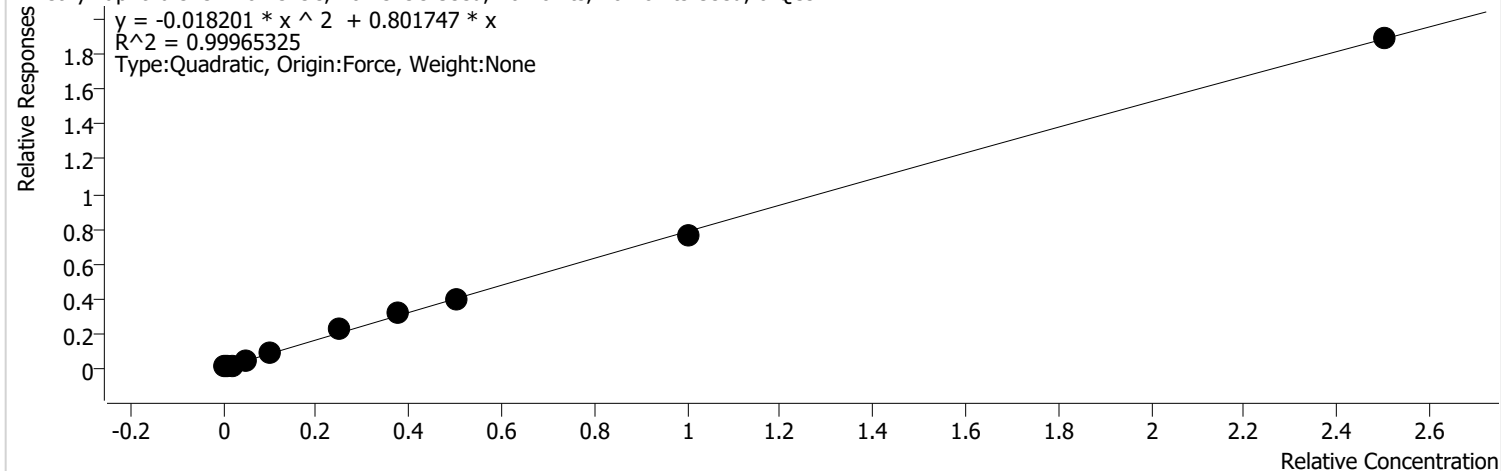


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-21\Data\2023\073123\073116.D	Calibration	1	x	2926	10.0000	1.0409
D:\GC-21\Data\2023\073123\073117.D	Calibration	2	x	5919	20.0000	1.0613
D:\GC-21\Data\2023\073123\073118.D	Calibration	3	x	12468	40.0000	1.1921
D:\GC-21\Data\2023\073123\073119.D	Calibration	4	x	32071	100.0000	1.1915
D:\GC-21\Data\2023\073123\073120.D	Calibration	5	x	67816	200.0000	1.2491
D:\GC-21\Data\2023\073123\073121.D	Calibration	6	x	173035	500.0000	1.3286
D:\GC-21\Data\2023\073123\073122.D	Calibration	7	x	264253	750.0000	1.2464
D:\GC-21\Data\2023\073123\073123.D	Calibration	8	x	322802	1000.0000	1.1812
D:\GC-21\Data\2023\073123\073124.D	Calibration	9	x	672177	2000.0000	1.1666
D:\GC-21\Data\2023\073123\073125.D	Calibration	10	x	1686791	5000.0000	1.1504

Batch Path	D:\GC-21\Data\2023\073123\QuantResults\PAH ICAL.batch.bin		
Analysis Time	8/29/2023 11:41:10 AM	Analyst Name	FA\GC1821
Report Time	8/29/2023 11:43:26 AM	Reporter Name	GC1821
Last Calib Update	8/29/2023 11:22:27 AM	Batch State	Processed

2-Methylnaphthalene

2-Methylnaphthalene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



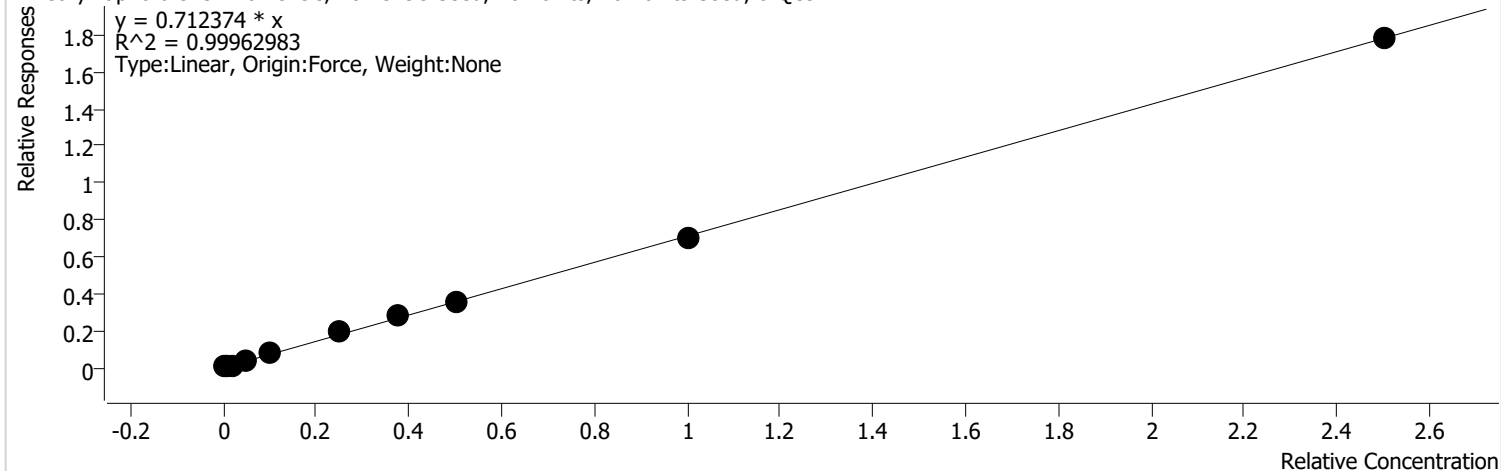
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-21\Data\2023\073123\073116.D	Calibration	1	x	2015	10.0000	0.7169
D:\GC-21\Data\2023\073123\073117.D	Calibration	2	x	3969	20.0000	0.7117
D:\GC-21\Data\2023\073123\073118.D	Calibration	3	x	8416	40.0000	0.8047
D:\GC-21\Data\2023\073123\073119.D	Calibration	4	x	21704	100.0000	0.8064
D:\GC-21\Data\2023\073123\073120.D	Calibration	5	x	45484	200.0000	0.8377
D:\GC-21\Data\2023\073123\073121.D	Calibration	6	x	116405	500.0000	0.8938
D:\GC-21\Data\2023\073123\073122.D	Calibration	7	x	176900	750.0000	0.8344
D:\GC-21\Data\2023\073123\073123.D	Calibration	8	x	214895	1000.0000	0.7863
D:\GC-21\Data\2023\073123\073124.D	Calibration	9	x	442580	2000.0000	0.7681
D:\GC-21\Data\2023\073123\073125.D	Calibration	10	x	1109998	5000.0000	0.7571

Calibration Report

Batch Path	D:\GC-21\Data\2023\073123\QuantResults\PAH ICAL.batch.bin		
Analysis Time	8/29/2023 11:41:10 AM	Analyst Name	FA\GC1821
Report Time	8/29/2023 11:43:26 AM	Reporter Name	GC1821
Last Calib Update	8/29/2023 11:22:27 AM	Batch State	Processed

1-Methylnaphthalene

1-Methylnaphthalene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs

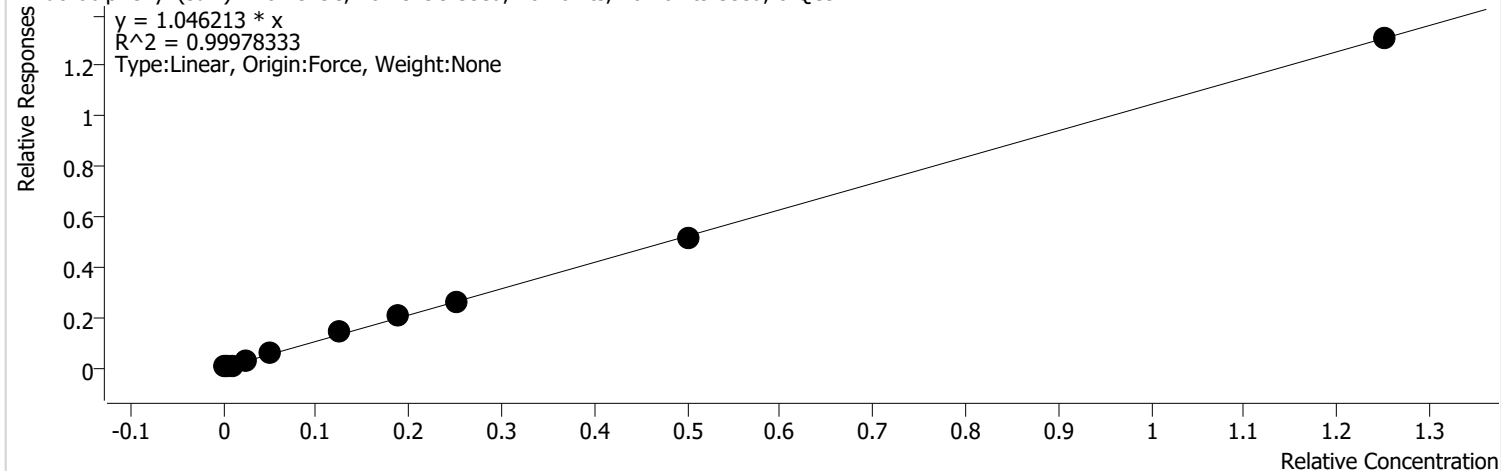


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-21\Data\2023\073123\073116.D	Calibration	1	x	1933	10.0000	0.6878
D:\GC-21\Data\2023\073123\073117.D	Calibration	2	x	3819	20.0000	0.6848
D:\GC-21\Data\2023\073123\073118.D	Calibration	3	x	8020	40.0000	0.7668
D:\GC-21\Data\2023\073123\073119.D	Calibration	4	x	20153	100.0000	0.7487
D:\GC-21\Data\2023\073123\073120.D	Calibration	5	x	41925	200.0000	0.7722
D:\GC-21\Data\2023\073123\073121.D	Calibration	6	x	105526	500.0000	0.8103
D:\GC-21\Data\2023\073123\073122.D	Calibration	7	x	160625	750.0000	0.7576
D:\GC-21\Data\2023\073123\073123.D	Calibration	8	x	195101	1000.0000	0.7139
D:\GC-21\Data\2023\073123\073124.D	Calibration	9	x	405519	2000.0000	0.7038
D:\GC-21\Data\2023\073123\073125.D	Calibration	10	x	1043320	5000.0000	0.7116

Batch Path	D:\GC-21\Data\2023\073123\QuantResults\PAH ICAL.batch.bin		
Analysis Time	8/29/2023 11:41:10 AM	Analyst Name	FA\GC1821
Report Time	8/29/2023 11:43:26 AM	Reporter Name	GC1821
Last Calib Update	8/29/2023 11:22:27 AM	Batch State	Processed

2-Fluorobiphenyl (surr)

2-Fluorobiphenyl (surr) - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



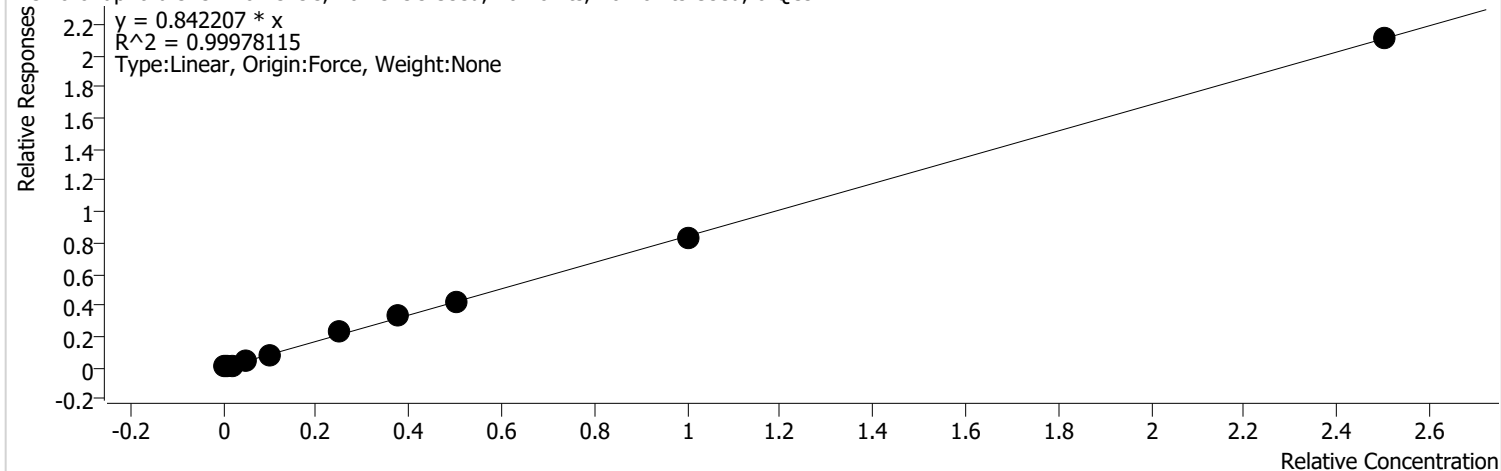
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-21\Data\2023\073123\073116.D	Calibration	1	x	1331	5.0000	0.9467
D:\GC-21\Data\2023\073123\073117.D	Calibration	2	x	2672	10.0000	0.9581
D:\GC-21\Data\2023\073123\073118.D	Calibration	3	x	5600	20.0000	1.0708
D:\GC-21\Data\2023\073123\073119.D	Calibration	4	x	14300	50.0000	1.0626
D:\GC-21\Data\2023\073123\073120.D	Calibration	5	x	29762	100.0000	1.0964
D:\GC-21\Data\2023\073123\073121.D	Calibration	6	x	75517	250.0000	1.1597
D:\GC-21\Data\2023\073123\073122.D	Calibration	7	x	116178	375.0000	1.0960
D:\GC-21\Data\2023\073123\073123.D	Calibration	8	x	141198	500.0000	1.0333
D:\GC-21\Data\2023\073123\073124.D	Calibration	9	x	299387	1000.0000	1.0392
D:\GC-21\Data\2023\073123\073125.D	Calibration	10	x	766470	2500.0000	1.0455

Calibration Report

Batch Path	D:\GC-21\Data\2023\073123\QuantResults\PAH ICAL.batch.bin		
Analysis Time	8/29/2023 11:41:10 AM	Analyst Name	FA\GC1821
Report Time	8/29/2023 11:43:26 AM	Reporter Name	GC1821
Last Calib Update	8/29/2023 11:22:27 AM	Batch State	Processed

2-Chloronaphthalene

2-Chloronaphthalene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



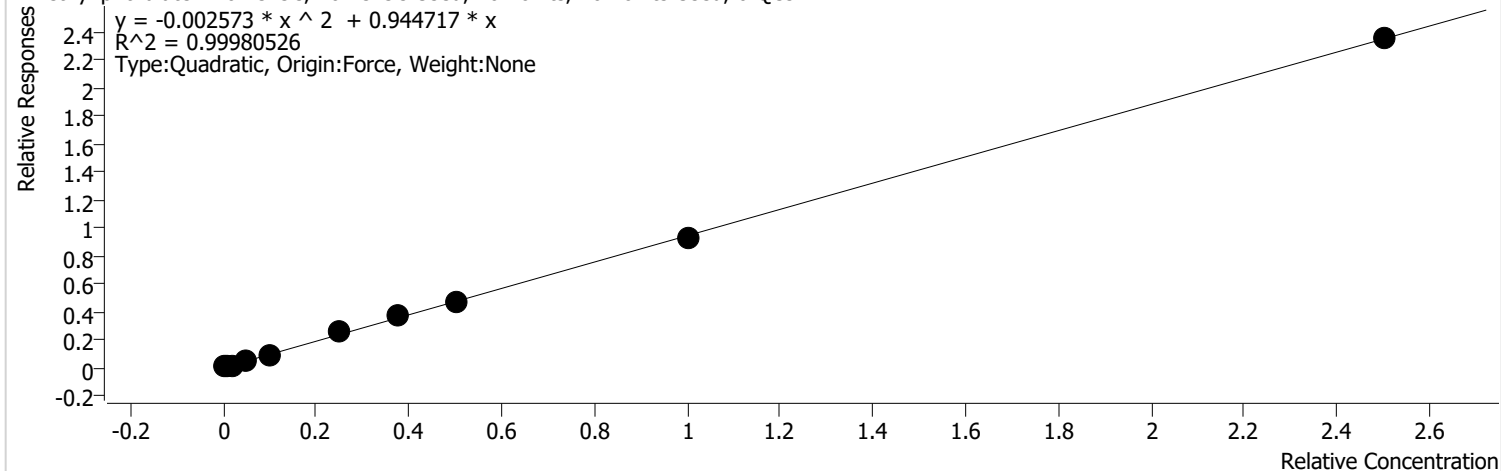
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-21\Data\2023\073123\073116.D	Calibration	1	x	2069	10.0000	0.7360
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D:\GC-21\Data\2023\073123\073118.D	Calibration	3	x	8874	40.0000	0.8485
D:\GC-21\Data\2023\073123\073119.D	Calibration	4	x	22730	100.0000	0.8445
D:\GC-21\Data\2023\073123\073120.D	Calibration	5	x	47593	200.0000	0.8766
D:\GC-21\Data\2023\073123\073121.D	Calibration	6	x	121632	500.0000	0.9339
D:\GC-21\Data\2023\073123\073122.D	Calibration	7	x	186318	750.0000	0.8788
D:\GC-21\Data\2023\073123\073123.D	Calibration	8	x	227682	1000.0000	0.8331
D:\GC-21\Data\2023\073123\073124.D	Calibration	9	x	479895	2000.0000	0.8329
D:\GC-21\Data\2023\073123\073125.D	Calibration	10	x	1234944	5000.0000	0.8423

Calibration Report

Batch Path	D:\GC-21\Data\2023\073123\QuantResults\PAH ICAL.batch.bin		
Analysis Time	8/29/2023 11:41:10 AM	Analyst Name	FA\GC1821
Report Time	8/29/2023 11:43:26 AM	Reporter Name	GC1821
Last Calib Update	8/29/2023 11:22:27 AM	Batch State	Processed

Dimethyl phthalate

Dimethyl phthalate - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



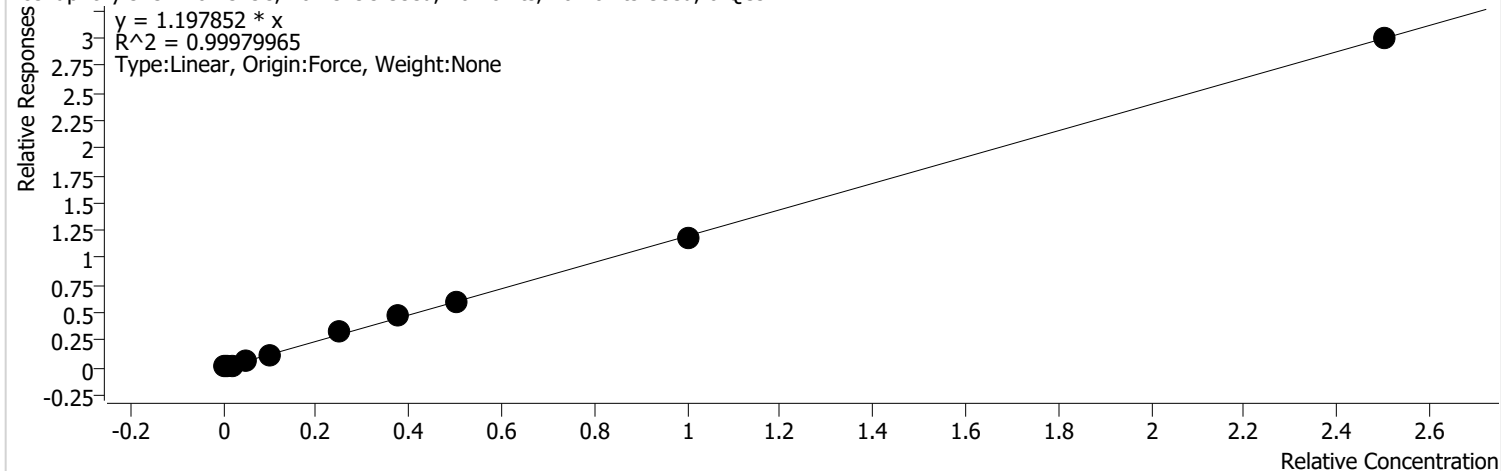
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
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D:\GC-21\Data\2023\073123\073117.D	Calibration	2	x	5459	20.0000	0.9788
D:\GC-21\Data\2023\073123\073118.D	Calibration	3	x	10396	40.0000	0.9939
D:\GC-21\Data\2023\073123\073119.D	Calibration	4	x	25422	100.0000	0.9445
D:\GC-21\Data\2023\073123\073120.D	Calibration	5	x	52088	200.0000	0.9594
D:\GC-21\Data\2023\073123\073121.D	Calibration	6	x	135059	500.0000	1.0370
D:\GC-21\Data\2023\073123\073122.D	Calibration	7	x	207864	750.0000	0.9804
D:\GC-21\Data\2023\073123\073123.D	Calibration	8	x	254381	1000.0000	0.9308
D:\GC-21\Data\2023\073123\073124.D	Calibration	9	x	535876	2000.0000	0.9300
D:\GC-21\Data\2023\073123\073125.D	Calibration	10	x	1376691	5000.0000	0.9389

Calibration Report

Batch Path	D:\GC-21\Data\2023\073123\QuantResults\PAH ICAL.batch.bin		
Analysis Time	8/29/2023 11:41:10 AM	Analyst Name	FA\GC1821
Report Time	8/29/2023 11:43:26 AM	Reporter Name	GC1821
Last Calib Update	8/29/2023 11:22:27 AM	Batch State	Processed

Acenaphthylene

Acenaphthylene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



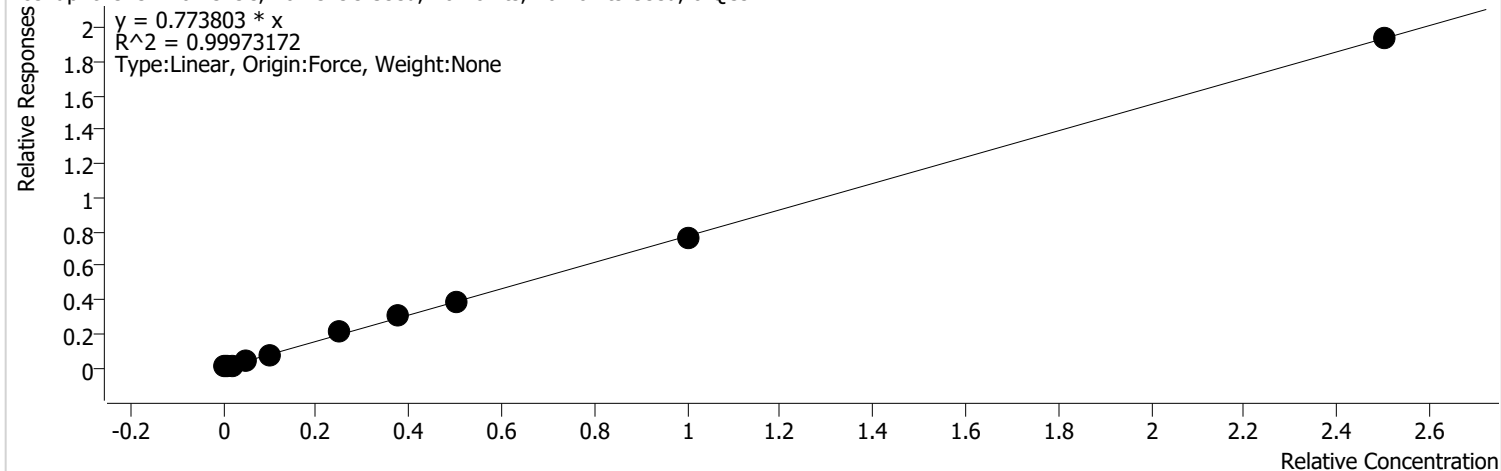
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-21\Data\2023\073123\073116.D	Calibration	1	x	3046	10.0000	1.0836
D:\GC-21\Data\2023\073123\073117.D	Calibration	2	x	6083	20.0000	1.0907
D:\GC-21\Data\2023\073123\073118.D	Calibration	3	x	12556	40.0000	1.2005
D:\GC-21\Data\2023\073123\073119.D	Calibration	4	x	31938	100.0000	1.1866
D:\GC-21\Data\2023\073123\073120.D	Calibration	5	x	66749	200.0000	1.2294
D:\GC-21\Data\2023\073123\073121.D	Calibration	6	x	173216	500.0000	1.3300
D:\GC-21\Data\2023\073123\073122.D	Calibration	7	x	264518	750.0000	1.2477
D:\GC-21\Data\2023\073123\073123.D	Calibration	8	x	323522	1000.0000	1.1838
D:\GC-21\Data\2023\073123\073124.D	Calibration	9	x	686633	2000.0000	1.1917
D:\GC-21\Data\2023\073123\073125.D	Calibration	10	x	1754932	5000.0000	1.1969

Calibration Report

Batch Path	D:\GC-21\Data\2023\073123\QuantResults\PAH ICAL.batch.bin		
Analysis Time	8/29/2023 11:41:10 AM	Analyst Name	FA\GC1821
Report Time	8/29/2023 11:43:26 AM	Reporter Name	GC1821
Last Calib Update	8/29/2023 11:22:27 AM	Batch State	Processed

Acenaphthene

Acenaphthene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



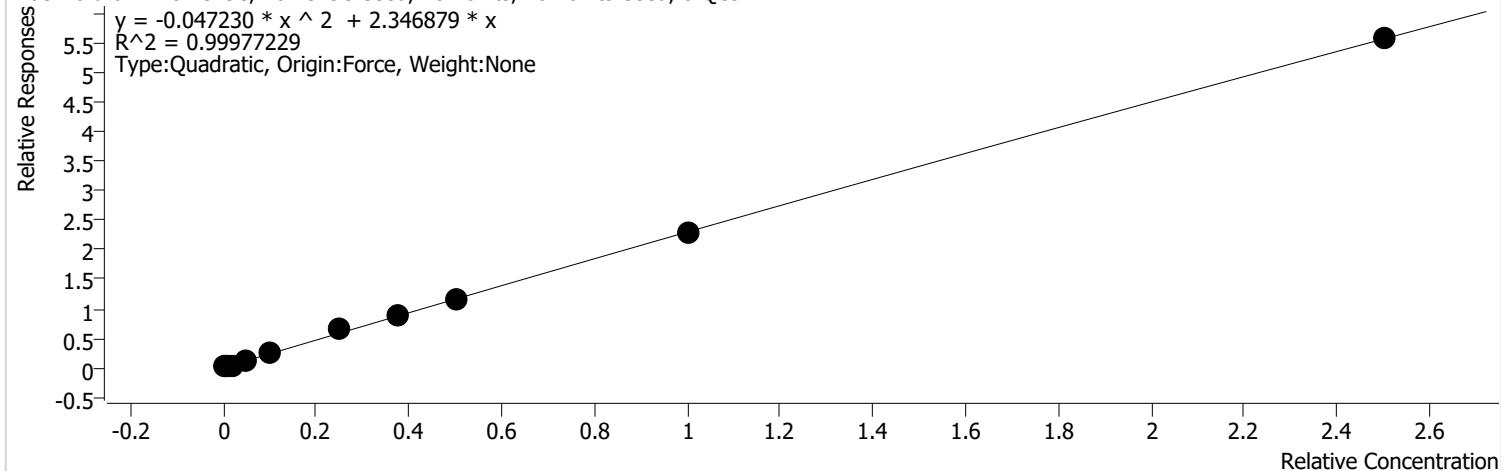
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
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D:\GC-21\Data\2023\073123\073117.D	Calibration	2	x	3950	20.0000	0.7082
D:\GC-21\Data\2023\073123\073118.D	Calibration	3	x	8223	40.0000	0.7862
D:\GC-21\Data\2023\073123\073119.D	Calibration	4	x	21098	100.0000	0.7838
D:\GC-21\Data\2023\073123\073120.D	Calibration	5	x	43753	200.0000	0.8059
D:\GC-21\Data\2023\073123\073121.D	Calibration	6	x	112619	500.0000	0.8647
D:\GC-21\Data\2023\073123\073122.D	Calibration	7	x	173089	750.0000	0.8164
D:\GC-21\Data\2023\073123\073123.D	Calibration	8	x	209065	1000.0000	0.7650
D:\GC-21\Data\2023\073123\073124.D	Calibration	9	x	441420	2000.0000	0.7661
D:\GC-21\Data\2023\073123\073125.D	Calibration	10	x	1134064	5000.0000	0.7735

Calibration Report

Batch Path	D:\GC-21\Data\2023\073123\QuantResults\PAH ICAL.batch.bin		
Analysis Time	8/29/2023 11:41:10 AM	Analyst Name	FA\GC1821
Report Time	8/29/2023 11:43:26 AM	Reporter Name	GC1821
Last Calib Update	8/29/2023 11:22:27 AM	Batch State	Processed

Dibenzofuran

Dibenzofuran - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



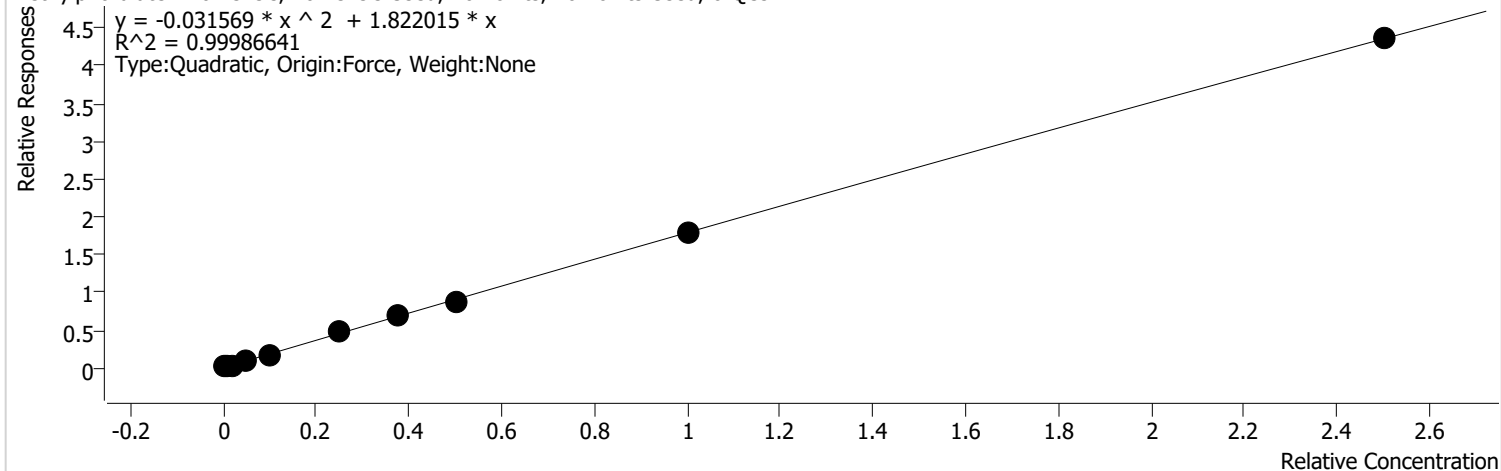
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-21\Data\2023\073123\073116.D	Calibration	1	x	2849	10.0000	1.9220
D:\GC-21\Data\2023\073123\073117.D	Calibration	2	x	5788	20.0000	1.9864
D:\GC-21\Data\2023\073123\073118.D	Calibration	3	x	12136	40.0000	2.2330
D:\GC-21\Data\2023\073123\073119.D	Calibration	4	x	31176	100.0000	2.2402
D:\GC-21\Data\2023\073123\073120.D	Calibration	5	x	65349	200.0000	2.3597
D:\GC-21\Data\2023\073123\073121.D	Calibration	6	x	168253	500.0000	2.5691
D:\GC-21\Data\2023\073123\073122.D	Calibration	7	x	258713	750.0000	2.4296
D:\GC-21\Data\2023\073123\073123.D	Calibration	8	x	313609	1000.0000	2.2869
D:\GC-21\Data\2023\073123\073124.D	Calibration	9	x	656508	2000.0000	2.2701
D:\GC-21\Data\2023\073123\073125.D	Calibration	10	x	1670827	5000.0000	2.2304

Calibration Report

Batch Path	D:\GC-21\Data\2023\073123\QuantResults\PAH ICAL.batch.bin		
Analysis Time	8/29/2023 11:41:10 AM	Analyst Name	FA\GC1821
Report Time	8/29/2023 11:43:26 AM	Reporter Name	GC1821
Last Calib Update	8/29/2023 11:22:27 AM	Batch State	Processed

Diethylphthalate

Diethylphthalate - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



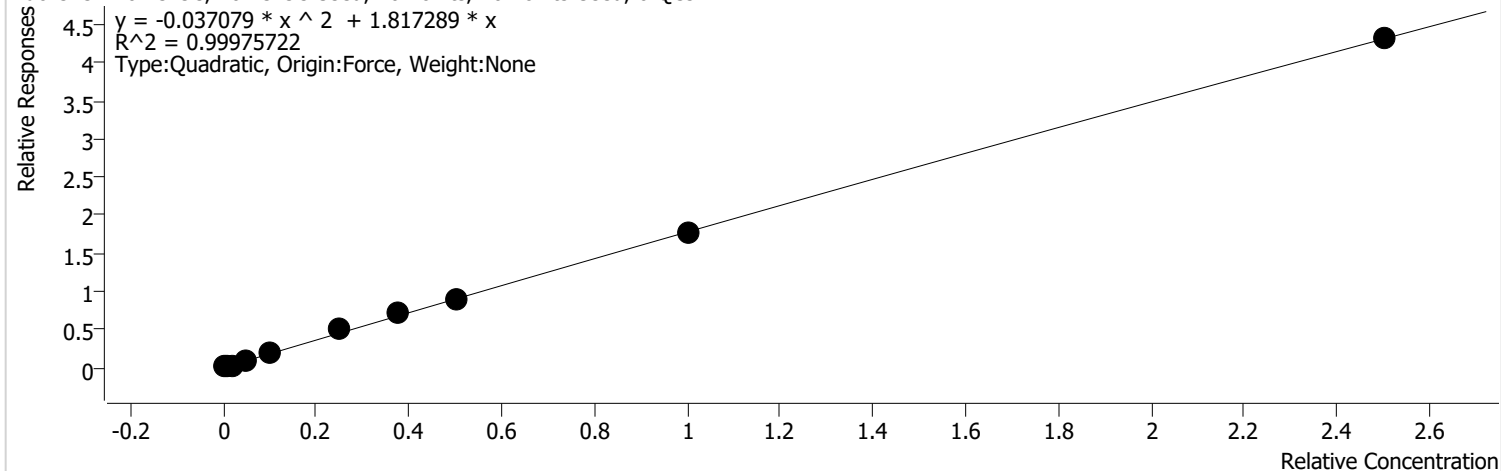
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-21\Data\2023\073123\073116.D	Calibration	1	x	2370	10.0000	1.5989
D:\GC-21\Data\2023\073123\073117.D	Calibration	2	x	4546	20.0000	1.5603
D:\GC-21\Data\2023\073123\073118.D	Calibration	3	x	9280	40.0000	1.7074
D:\GC-21\Data\2023\073123\073119.D	Calibration	4	x	23448	100.0000	1.6849
D:\GC-21\Data\2023\073123\073120.D	Calibration	5	x	49109	200.0000	1.7733
D:\GC-21\Data\2023\073123\073121.D	Calibration	6	x	128169	500.0000	1.9570
D:\GC-21\Data\2023\073123\073122.D	Calibration	7	x	198219	750.0000	1.8615
D:\GC-21\Data\2023\073123\073123.D	Calibration	8	x	242317	1000.0000	1.7670
D:\GC-21\Data\2023\073123\073124.D	Calibration	9	x	515145	2000.0000	1.7813
D:\GC-21\Data\2023\073123\073125.D	Calibration	10	x	1306210	5000.0000	1.7437

Calibration Report

Batch Path	D:\GC-21\Data\2023\073123\QuantResults\PAH ICAL.batch.bin		
Analysis Time	8/29/2023 11:41:10 AM	Analyst Name	FA\GC1821
Report Time	8/29/2023 11:43:26 AM	Reporter Name	GC1821
Last Calib Update	8/29/2023 11:22:27 AM	Batch State	Processed

Fluorene

Fluorene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



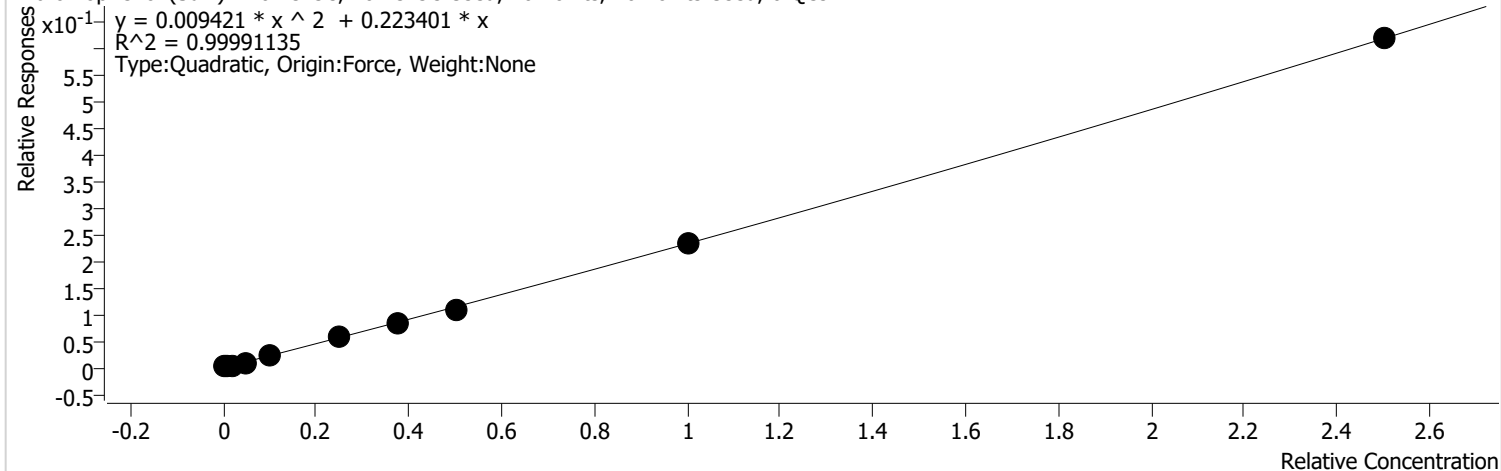
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-21\Data\2023\073123\073116.D	Calibration	1	x	2338	10.0000	1.5769
D:\GC-21\Data\2023\073123\073117.D	Calibration	2	x	4578	20.0000	1.5712
D:\GC-21\Data\2023\073123\073118.D	Calibration	3	x	9464	40.0000	1.7412
D:\GC-21\Data\2023\073123\073119.D	Calibration	4	x	24156	100.0000	1.7358
D:\GC-21\Data\2023\073123\073120.D	Calibration	5	x	50806	200.0000	1.8346
D:\GC-21\Data\2023\073123\073121.D	Calibration	6	x	130741	500.0000	1.9963
D:\GC-21\Data\2023\073123\073122.D	Calibration	7	x	200422	750.0000	1.8822
D:\GC-21\Data\2023\073123\073123.D	Calibration	8	x	241828	1000.0000	1.7634
D:\GC-21\Data\2023\073123\073124.D	Calibration	9	x	508612	2000.0000	1.7587
D:\GC-21\Data\2023\073123\073125.D	Calibration	10	x	1292813	5000.0000	1.7258

Calibration Report

Batch Path	D:\GC-21\Data\2023\073123\QuantResults\PAH ICAL.batch.bin		
Analysis Time	8/29/2023 11:41:10 AM	Analyst Name	FA\GC1821
Report Time	8/29/2023 11:43:26 AM	Reporter Name	GC1821
Last Calib Update	8/29/2023 11:22:27 AM	Batch State	Processed

Tribromophenol (Surr)

Tribromophenol (Surr) - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



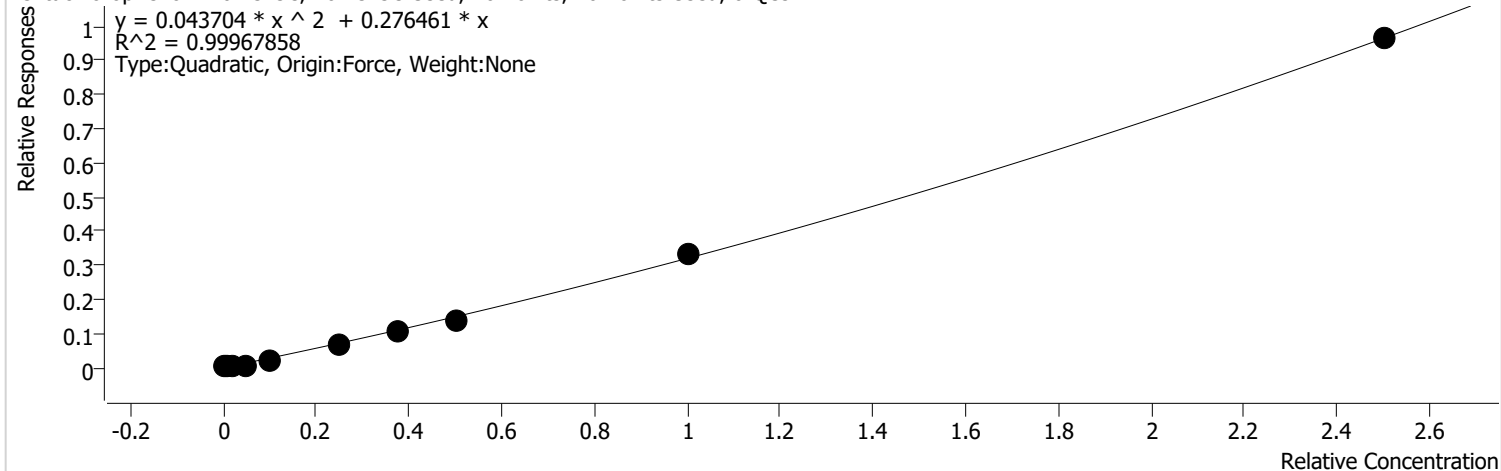
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-21\Data\2023\073123\073116.D	Calibration	1	x	267	10.0000	0.1804
D:\GC-21\Data\2023\073123\073117.D	Calibration	2	x	528	20.0000	0.1812
D:\GC-21\Data\2023\073123\073118.D	Calibration	3	x	1073	40.0000	0.1974
D:\GC-21\Data\2023\073123\073119.D	Calibration	4	x	2750	100.0000	0.1976
D:\GC-21\Data\2023\073123\073120.D	Calibration	5	x	5791	200.0000	0.2091
D:\GC-21\Data\2023\073123\073121.D	Calibration	6	x	15412	500.0000	0.2353
D:\GC-21\Data\2023\073123\073122.D	Calibration	7	x	24381	750.0000	0.2290
D:\GC-21\Data\2023\073123\073123.D	Calibration	8	x	30205	1000.0000	0.2203
D:\GC-21\Data\2023\073123\073124.D	Calibration	9	x	67820	2000.0000	0.2345
D:\GC-21\Data\2023\073123\073125.D	Calibration	10	x	184950	5000.0000	0.2469

Calibration Report

Batch Path	D:\GC-21\Data\2023\073123\QuantResults\PAH ICAL.batch.bin		
Analysis Time	8/29/2023 11:41:10 AM	Analyst Name	FA\GC1821
Report Time	8/29/2023 11:43:26 AM	Reporter Name	GC1821
Last Calib Update	8/29/2023 11:22:27 AM	Batch State	Processed

Pentachlorophenol

Pentachlorophenol - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



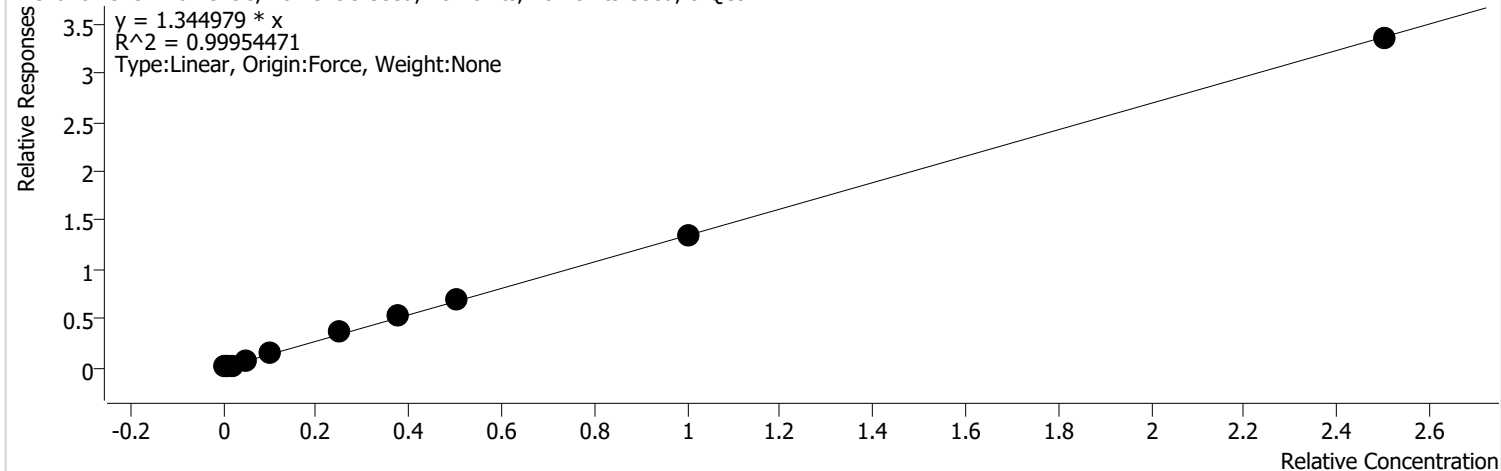
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-21\Data\2023\073123\073116.D	Calibration	1	x	398	10.0000	0.2684
D:\GC-21\Data\2023\073123\073117.D	Calibration	2	x	458	20.0000	0.1572
D:\GC-21\Data\2023\073123\073118.D	Calibration	3	x	847	40.0000	0.1559
D:\GC-21\Data\2023\073123\073119.D	Calibration	4	x	2424	100.0000	0.1742
D:\GC-21\Data\2023\073123\073120.D	Calibration	5	x	5862	200.0000	0.2117
D:\GC-21\Data\2023\073123\073121.D	Calibration	6	x	18171	500.0000	0.2775
D:\GC-21\Data\2023\073123\073122.D	Calibration	7	x	30008	750.0000	0.2818
D:\GC-21\Data\2023\073123\073123.D	Calibration	8	x	38859	1000.0000	0.2834
D:\GC-21\Data\2023\073123\073124.D	Calibration	9	x	95409	2000.0000	0.3299
D:\GC-21\Data\2023\073123\073125.D	Calibration	10	x	288610	5000.0000	0.3853

Calibration Report

Batch Path	D:\GC-21\Data\2023\073123\QuantResults\PAH ICAL.batch.bin		
Analysis Time	8/29/2023 11:41:10 AM	Analyst Name	FA\GC1821
Report Time	8/29/2023 11:43:26 AM	Reporter Name	GC1821
Last Calib Update	8/29/2023 11:22:27 AM	Batch State	Processed

Phenanthrene

Phenanthrene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



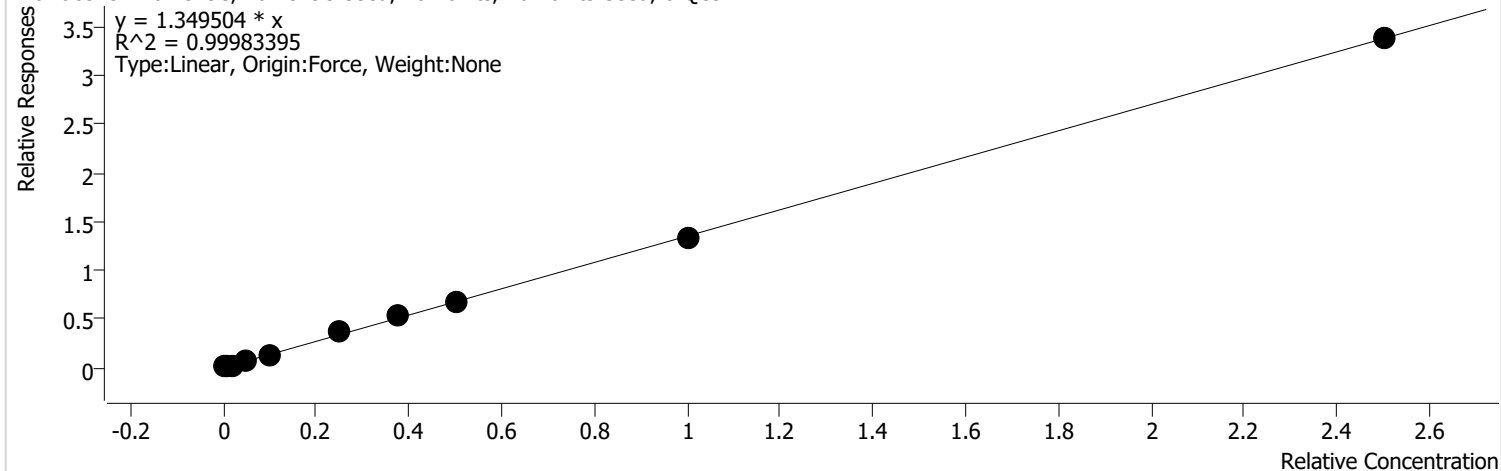
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-21\Data\2023\073123\073116.D	Calibration	1	x	3326	10.0000	1.2025
D:\GC-21\Data\2023\073123\073117.D	Calibration	2	x	6612	20.0000	1.2103
D:\GC-21\Data\2023\073123\073118.D	Calibration	3	x	13341	40.0000	1.3174
D:\GC-21\Data\2023\073123\073119.D	Calibration	4	x	34561	100.0000	1.3278
D:\GC-21\Data\2023\073123\073120.D	Calibration	5	x	73380	200.0000	1.4054
D:\GC-21\Data\2023\073123\073121.D	Calibration	6	x	192523	500.0000	1.5303
D:\GC-21\Data\2023\073123\073122.D	Calibration	7	x	294046	750.0000	1.4556
D:\GC-21\Data\2023\073123\073123.D	Calibration	8	x	359811	1000.0000	1.3700
D:\GC-21\Data\2023\073123\073124.D	Calibration	9	x	756530	2000.0000	1.3525
D:\GC-21\Data\2023\073123\073125.D	Calibration	10	x	1909168	5000.0000	1.3383

Calibration Report

Batch Path	D:\GC-21\Data\2023\073123\QuantResults\PAH ICAL.batch.bin		
Analysis Time	8/29/2023 11:41:10 AM	Analyst Name	FA\GC1821
Report Time	8/29/2023 11:43:26 AM	Reporter Name	GC1821
Last Calib Update	8/29/2023 11:22:27 AM	Batch State	Processed

Anthracene

Anthracene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs

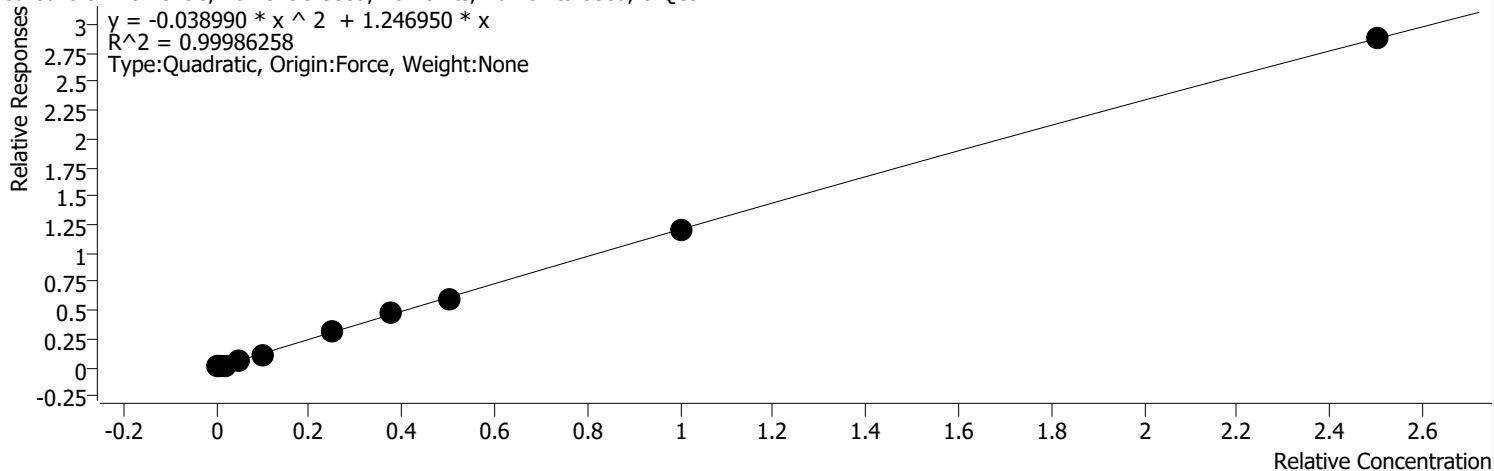


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-21\Data\2023\073123\073116.D	Calibration	1	x	3271	10.0000	1.1825
D:\GC-21\Data\2023\073123\073117.D	Calibration	2	x	6254	20.0000	1.1447
D:\GC-21\Data\2023\073123\073118.D	Calibration	3	x	13022	40.0000	1.2859
D:\GC-21\Data\2023\073123\073119.D	Calibration	4	x	33335	100.0000	1.2807
D:\GC-21\Data\2023\073123\073120.D	Calibration	5	x	68917	200.0000	1.3199
D:\GC-21\Data\2023\073123\073121.D	Calibration	6	x	183637	500.0000	1.4597
D:\GC-21\Data\2023\073123\073122.D	Calibration	7	x	286869	750.0000	1.4201
D:\GC-21\Data\2023\073123\073123.D	Calibration	8	x	349900	1000.0000	1.3323
D:\GC-21\Data\2023\073123\073124.D	Calibration	9	x	750321	2000.0000	1.3414
D:\GC-21\Data\2023\073123\073125.D	Calibration	10	x	1924199	5000.0000	1.3489

Batch Path	D:\GC-21\Data\2023\073123\QuantResults\PAH ICAL.batch.bin		
Analysis Time	8/29/2023 11:41:10 AM	Analyst Name	FA\GC1821
Report Time	8/29/2023 11:43:26 AM	Reporter Name	GC1821
Last Calib Update	8/29/2023 11:22:27 AM	Batch State	Processed

Carbazole

Carbazole - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



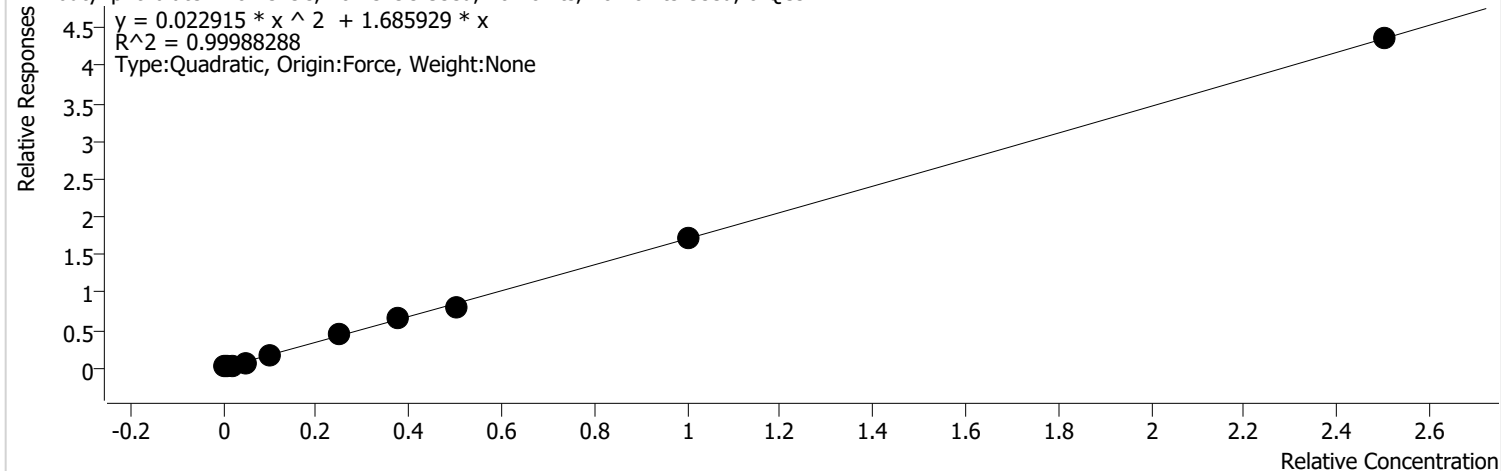
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-21\Data\2023\073123\073116.D	Calibration	1	x	2841	10.0000	1.0272
D:\GC-21\Data\2023\073123\073117.D	Calibration	2	x	5447	20.0000	0.9970
D:\GC-21\Data\2023\073123\073118.D	Calibration	3	x	11162	40.0000	1.1022
D:\GC-21\Data\2023\073123\073119.D	Calibration	4	x	28552	100.0000	1.0970
D:\GC-21\Data\2023\073123\073120.D	Calibration	5	x	60977	200.0000	1.1679
D:\GC-21\Data\2023\073123\073121.D	Calibration	6	x	164454	500.0000	1.3072
D:\GC-21\Data\2023\073123\073122.D	Calibration	7	x	255038	750.0000	1.2625
D:\GC-21\Data\2023\073123\073123.D	Calibration	8	x	311637	1000.0000	1.1866
D:\GC-21\Data\2023\073123\073124.D	Calibration	9	x	677361	2000.0000	1.2110
D:\GC-21\Data\2023\073123\073125.D	Calibration	10	x	1639696	5000.0000	1.1494

Calibration Report

Batch Path	D:\GC-21\Data\2023\073123\QuantResults\PAH ICAL.batch.bin		
Analysis Time	8/29/2023 11:41:10 AM	Analyst Name	FA\GC1821
Report Time	8/29/2023 11:43:26 AM	Reporter Name	GC1821
Last Calib Update	8/29/2023 11:22:27 AM	Batch State	Processed

Di-n-butyl phthalate

Di-n-butyl phthalate - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



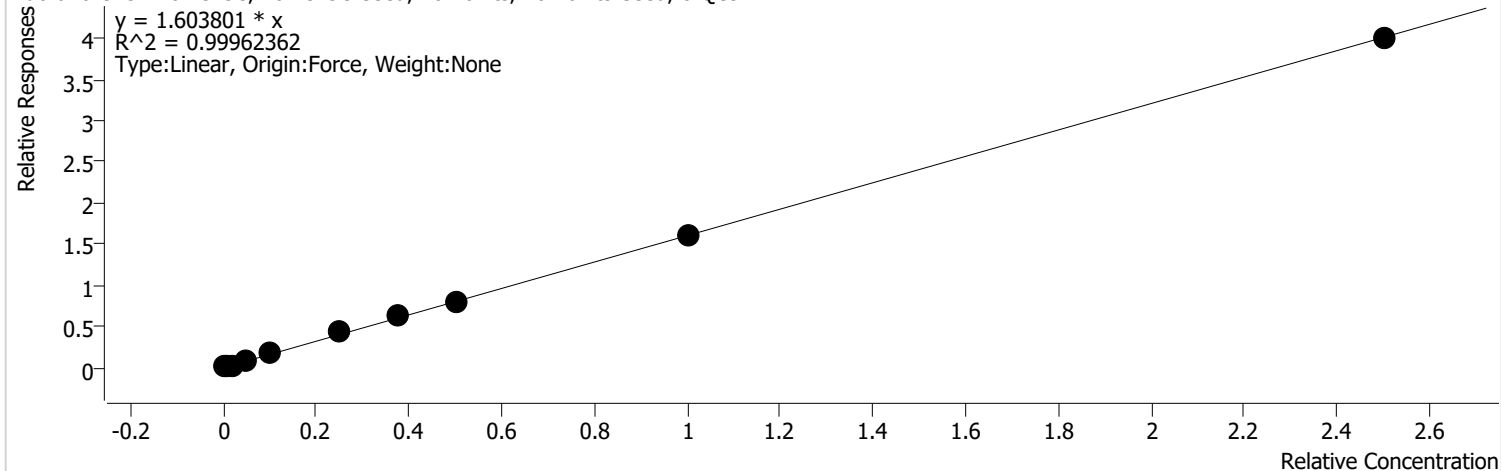
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-21\Data\2023\073123\073116.D	Calibration	1	x	4191	10.0000	1.5152
D:\GC-21\Data\2023\073123\073117.D	Calibration	2	x	7831	20.0000	1.4333
D:\GC-21\Data\2023\073123\073118.D	Calibration	3	x	15636	40.0000	1.5440
D:\GC-21\Data\2023\073123\073119.D	Calibration	4	x	38830	100.0000	1.4919
D:\GC-21\Data\2023\073123\073120.D	Calibration	5	x	82936	200.0000	1.5884
D:\GC-21\Data\2023\073123\073121.D	Calibration	6	x	223757	500.0000	1.7786
D:\GC-21\Data\2023\073123\073122.D	Calibration	7	x	351217	750.0000	1.7386
D:\GC-21\Data\2023\073123\073123.D	Calibration	8	x	429767	1000.0000	1.6364
D:\GC-21\Data\2023\073123\073124.D	Calibration	9	x	959177	2000.0000	1.7148
D:\GC-21\Data\2023\073123\073125.D	Calibration	10	x	2486550	5000.0000	1.7431

Calibration Report

Batch Path	D:\GC-21\Data\2023\073123\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC1821
Analysis Time	8/29/2023 11:41:10 AM	Reporter Name	GC1821
Report Time	8/29/2023 11:43:26 AM	Batch State	Processed
Last Calib Update	8/29/2023 11:22:27 AM		

Fluoranthene

Fluoranthene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



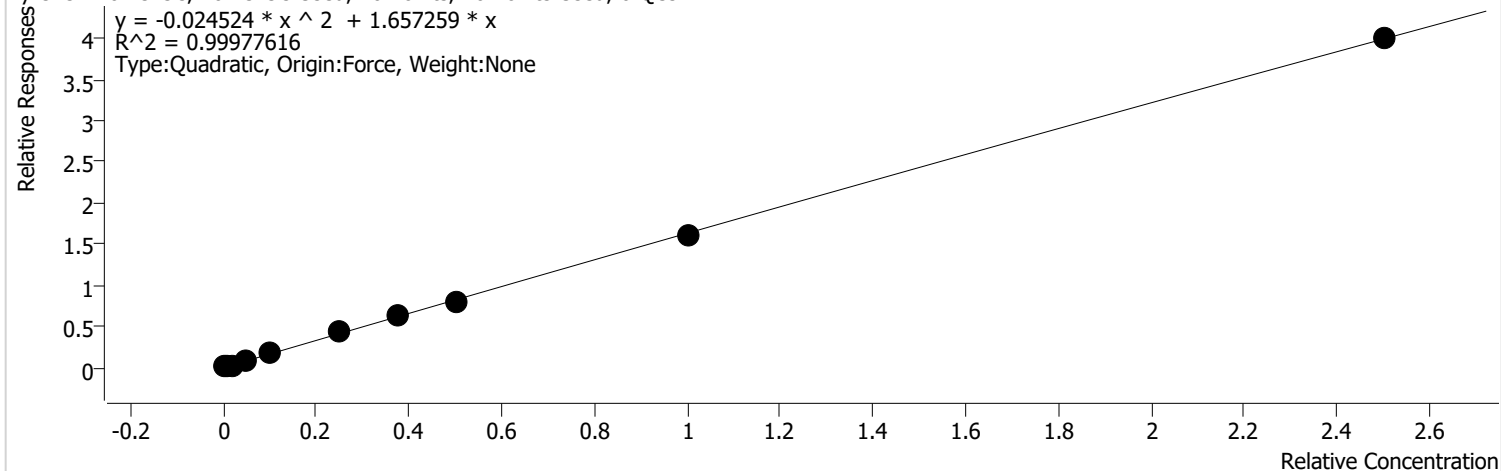
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-21\Data\2023\073123\073116.D	Calibration	1	x	4156	10.0000	1.5025
D:\GC-21\Data\2023\073123\073117.D	Calibration	2	x	7980	20.0000	1.4606
D:\GC-21\Data\2023\073123\073118.D	Calibration	3	x	16251	40.0000	1.6047
D:\GC-21\Data\2023\073123\073119.D	Calibration	4	x	41470	100.0000	1.5933
D:\GC-21\Data\2023\073123\073120.D	Calibration	5	x	87345	200.0000	1.6729
D:\GC-21\Data\2023\073123\073121.D	Calibration	6	x	226318	500.0000	1.7989
D:\GC-21\Data\2023\073123\073122.D	Calibration	7	x	349976	750.0000	1.7325
D:\GC-21\Data\2023\073123\073123.D	Calibration	8	x	427019	1000.0000	1.6259
D:\GC-21\Data\2023\073123\073124.D	Calibration	9	x	899705	2000.0000	1.6085
D:\GC-21\Data\2023\073123\073125.D	Calibration	10	x	2278454	5000.0000	1.5972

Calibration Report

Batch Path	D:\GC-21\Data\2023\073123\QuantResults\PAH ICAL.batch.bin		
Analysis Time	8/29/2023 11:41:10 AM	Analyst Name	FA\GC1821
Report Time	8/29/2023 11:43:26 AM	Reporter Name	GC1821
Last Calib Update	8/29/2023 11:22:27 AM	Batch State	Processed

Pyrene

Pyrene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



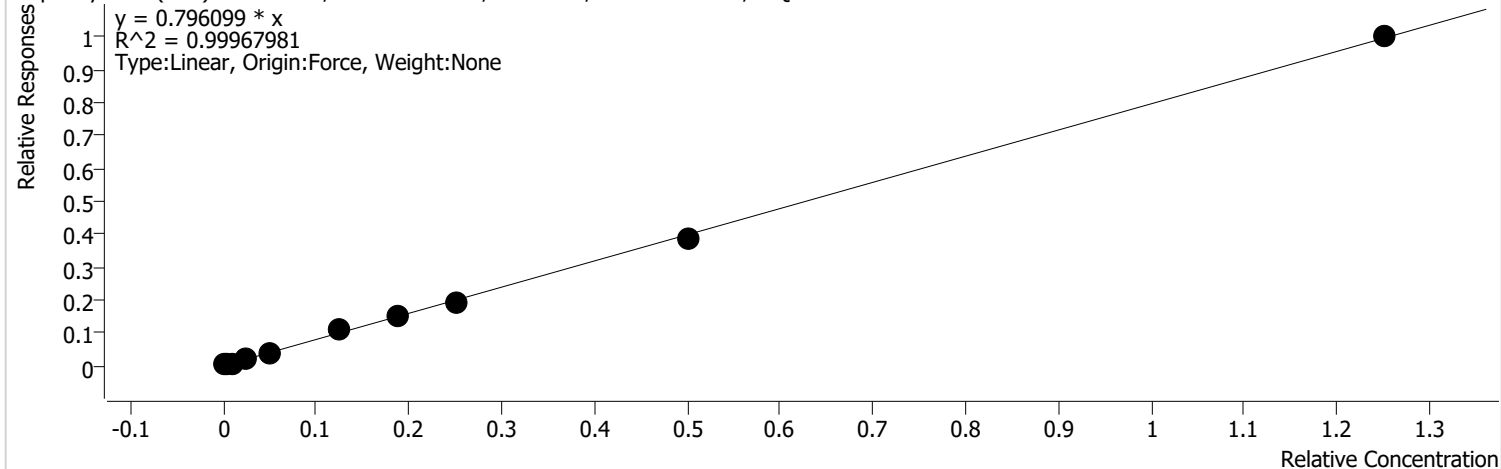
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-21\Data\2023\073123\073116.D	Calibration	1	x	4156	10.0000	1.5025
D:\GC-21\Data\2023\073123\073117.D	Calibration	2	x	7980	20.0000	1.4606
D:\GC-21\Data\2023\073123\073118.D	Calibration	3	x	16251	40.0000	1.6047
D:\GC-21\Data\2023\073123\073119.D	Calibration	4	x	41470	100.0000	1.5933
D:\GC-21\Data\2023\073123\073120.D	Calibration	5	x	87345	200.0000	1.6729
D:\GC-21\Data\2023\073123\073121.D	Calibration	6	x	226318	500.0000	1.7989
D:\GC-21\Data\2023\073123\073122.D	Calibration	7	x	349976	750.0000	1.7325
D:\GC-21\Data\2023\073123\073123.D	Calibration	8	x	427019	1000.0000	1.6259
D:\GC-21\Data\2023\073123\073124.D	Calibration	9	x	899705	2000.0000	1.6085
D:\GC-21\Data\2023\073123\073125.D	Calibration	10	x	2278454	5000.0000	1.5972

Calibration Report

Batch Path	D:\GC-21\Data\2023\073123\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC1821
Analysis Time	8/29/2023 11:41:10 AM	Reporter Name	GC1821
Report Time	8/29/2023 11:43:26 AM	Batch State	Processed
Last Calib Update	8/29/2023 11:22:27 AM		

Terphenyl-d14 (surr)

Terphenyl-d14 (surr) - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



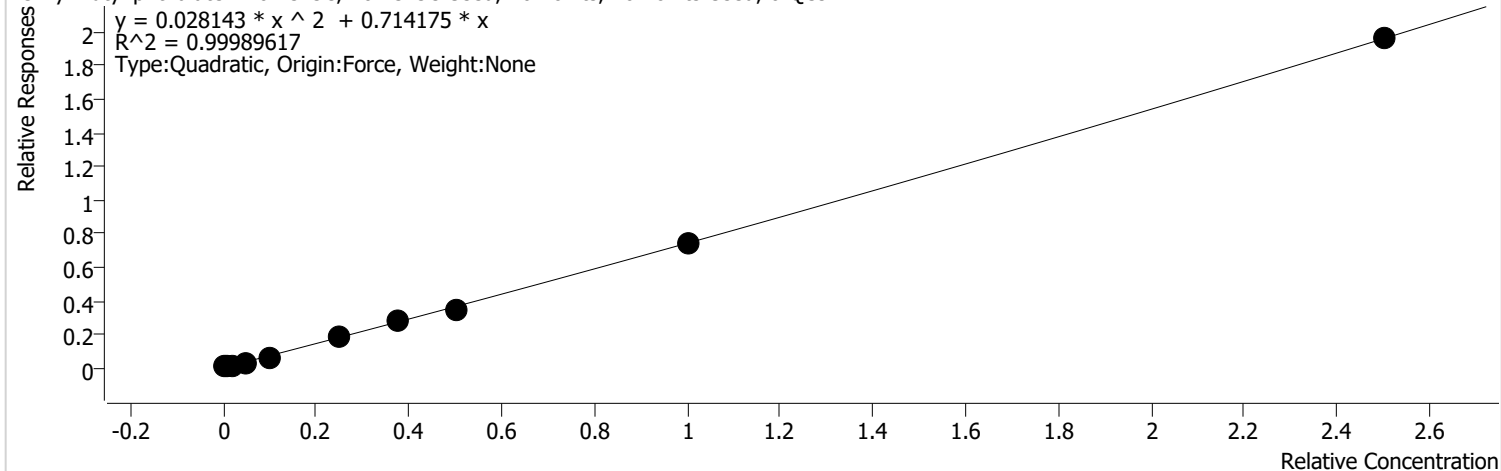
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-21\Data\2023\073123\073116.D	Calibration	1	x	989	5.0000	0.7154
D:\GC-21\Data\2023\073123\073117.D	Calibration	2	x	1865	10.0000	0.6828
D:\GC-21\Data\2023\073123\073118.D	Calibration	3	x	3776	20.0000	0.7457
D:\GC-21\Data\2023\073123\073119.D	Calibration	4	x	9710	50.0000	0.7461
D:\GC-21\Data\2023\073123\073120.D	Calibration	5	x	20446	100.0000	0.7832
D:\GC-21\Data\2023\073123\073121.D	Calibration	6	x	53828	250.0000	0.8557
D:\GC-21\Data\2023\073123\073122.D	Calibration	7	x	82552	375.0000	0.8173
D:\GC-21\Data\2023\073123\073123.D	Calibration	8	x	100151	500.0000	0.7627
D:\GC-21\Data\2023\073123\073124.D	Calibration	9	x	216783	1000.0000	0.7751
D:\GC-21\Data\2023\073123\073125.D	Calibration	10	x	570438	2500.0000	0.7998

Calibration Report

Batch Path	D:\GC-21\Data\2023\073123\QuantResults\PAH ICAL.batch.bin		
Analysis Time	8/29/2023 11:41:10 AM	Analyst Name	FA\GC1821
Report Time	8/29/2023 11:43:27 AM	Reporter Name	GC1821
Last Calib Update	8/29/2023 11:22:27 AM	Batch State	Processed

Benzyl Butyl phthalate

Benzyl Butyl phthalate - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



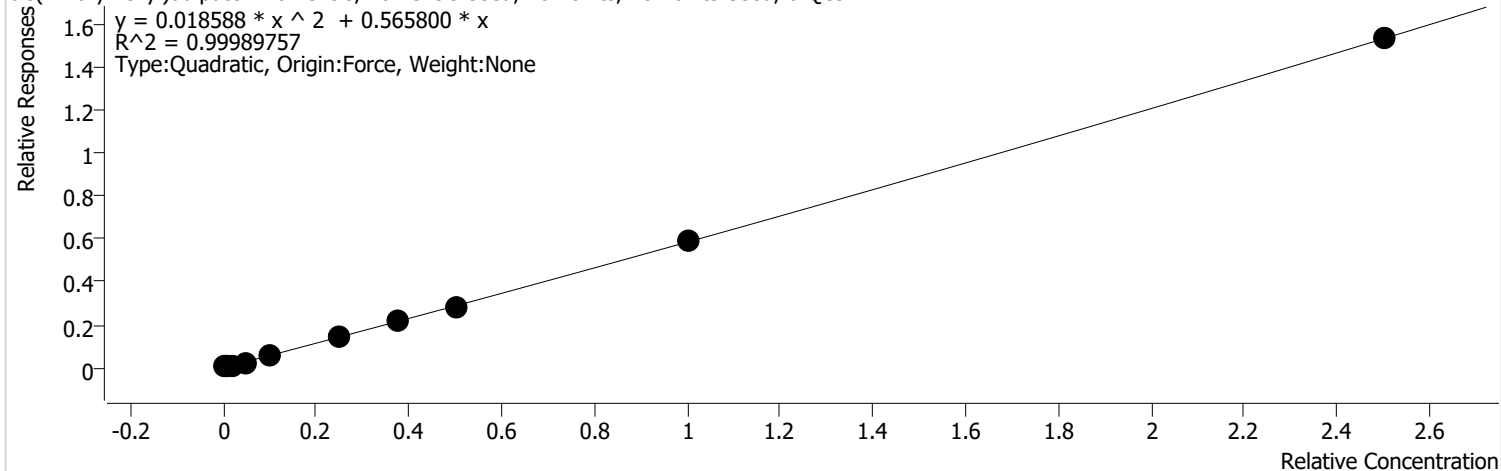
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-21\Data\2023\073123\073116.D	Calibration	1	x	1700	10.0000	0.6144
D:\GC-21\Data\2023\073123\073117.D	Calibration	2	x	3171	20.0000	0.5803
D:\GC-21\Data\2023\073123\073118.D	Calibration	3	x	6325	40.0000	0.6245
D:\GC-21\Data\2023\073123\073119.D	Calibration	4	x	16256	100.0000	0.6245
D:\GC-21\Data\2023\073123\073120.D	Calibration	5	x	34392	200.0000	0.6587
D:\GC-21\Data\2023\073123\073121.D	Calibration	6	x	94272	500.0000	0.7493
D:\GC-21\Data\2023\073123\073122.D	Calibration	7	x	149711	750.0000	0.7411
D:\GC-21\Data\2023\073123\073123.D	Calibration	8	x	184257	1000.0000	0.7016
D:\GC-21\Data\2023\073123\073124.D	Calibration	9	x	417672	2000.0000	0.7467
D:\GC-21\Data\2023\073123\073125.D	Calibration	10	x	1118938	5000.0000	0.7844

Calibration Report

Batch Path	D:\GC-21\Data\2023\073123\QuantResults\PAH ICAL.batch.bin		
Analysis Time	8/29/2023 11:41:10 AM	Analyst Name	FA\GC1821
Report Time	8/29/2023 11:43:27 AM	Reporter Name	GC1821
Last Calib Update	8/29/2023 11:22:27 AM	Batch State	Processed

bis(2-Ethylhexyl)adipate

bis(2-Ethylhexyl)adipate - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



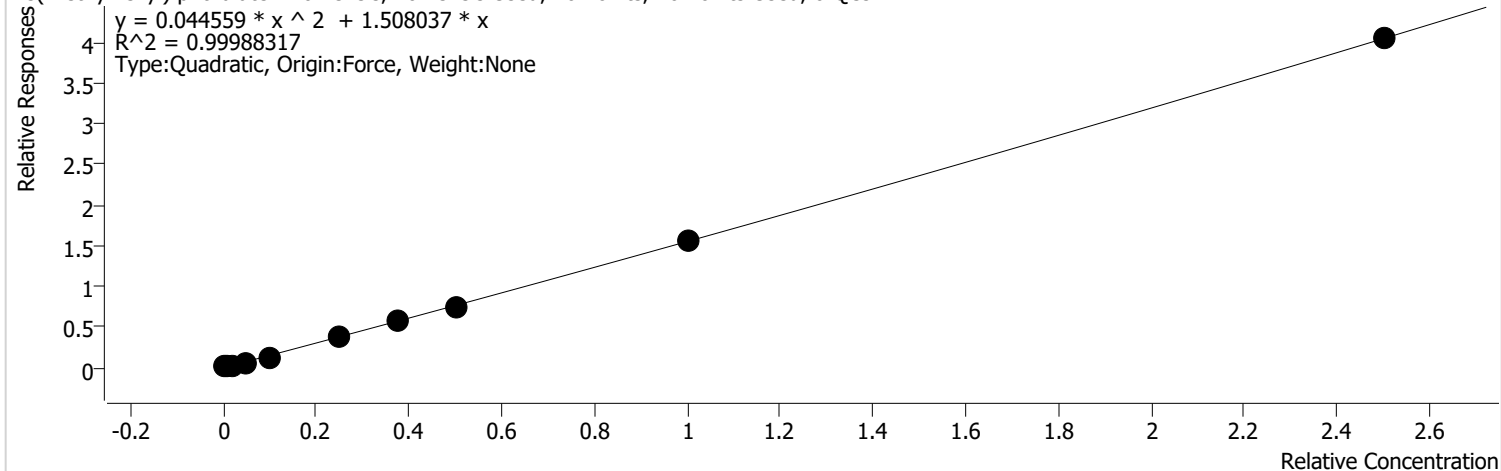
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-21\Data\2023\073123\073116.D	Calibration	1	x	1570	10.0000	0.5676
D:\GC-21\Data\2023\073123\073117.D	Calibration	2	x	2607	20.0000	0.4772
D:\GC-21\Data\2023\073123\073118.D	Calibration	3	x	5239	40.0000	0.5173
D:\GC-21\Data\2023\073123\073119.D	Calibration	4	x	13113	100.0000	0.5038
D:\GC-21\Data\2023\073123\073120.D	Calibration	5	x	27953	200.0000	0.5354
D:\GC-21\Data\2023\073123\073121.D	Calibration	6	x	75435	500.0000	0.5996
D:\GC-21\Data\2023\073123\073122.D	Calibration	7	x	118442	750.0000	0.5863
D:\GC-21\Data\2023\073123\073123.D	Calibration	8	x	145750	1000.0000	0.5550
D:\GC-21\Data\2023\073123\073124.D	Calibration	9	x	328056	2000.0000	0.5865
D:\GC-21\Data\2023\073123\073125.D	Calibration	10	x	873346	5000.0000	0.6122

Calibration Report

Batch Path	D:\GC-21\Data\2023\073123\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC1821
Analysis Time	8/29/2023 11:41:10 AM	Reporter Name	GC1821
Report Time	8/29/2023 11:43:27 AM	Batch State	Processed
Last Calib Update	8/29/2023 11:22:27 AM		

Bis(2-ethylhexyl) phthalate

Bis(2-ethylhexyl) phthalate - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs

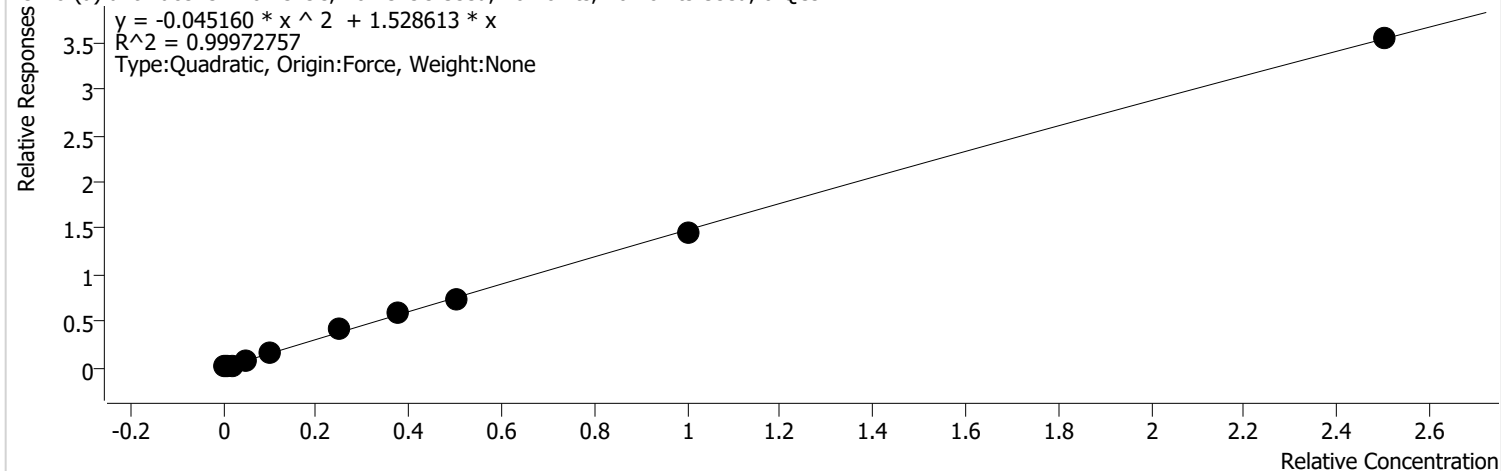


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-21\Data\2023\073123\073116.D	Calibration	1	x	2913	10.0000	1.4713
D:\GC-21\Data\2023\073123\073117.D	Calibration	2	x	4773	20.0000	1.2471
D:\GC-21\Data\2023\073123\073118.D	Calibration	3	x	9483	40.0000	1.3267
D:\GC-21\Data\2023\073123\073119.D	Calibration	4	x	23828	100.0000	1.2967
D:\GC-21\Data\2023\073123\073120.D	Calibration	5	x	50076	200.0000	1.3474
D:\GC-21\Data\2023\073123\073121.D	Calibration	6	x	138486	500.0000	1.5432
D:\GC-21\Data\2023\073123\073122.D	Calibration	7	x	221497	750.0000	1.5315
D:\GC-21\Data\2023\073123\073123.D	Calibration	8	x	270860	1000.0000	1.4727
D:\GC-21\Data\2023\073123\073124.D	Calibration	9	x	603574	2000.0000	1.5719
D:\GC-21\Data\2023\073123\073125.D	Calibration	10	x	1569984	5000.0000	1.6186

Batch Path	D:\GC-21\Data\2023\073123\QuantResults\PAH ICAL.batch.bin		
Analysis Time	8/29/2023 11:41:10 AM	Analyst Name	FA\GC1821
Report Time	8/29/2023 11:43:27 AM	Reporter Name	GC1821
Last Calib Update	8/29/2023 11:22:27 AM	Batch State	Processed

Benzo (a) anthracene

Benzo (a) anthracene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



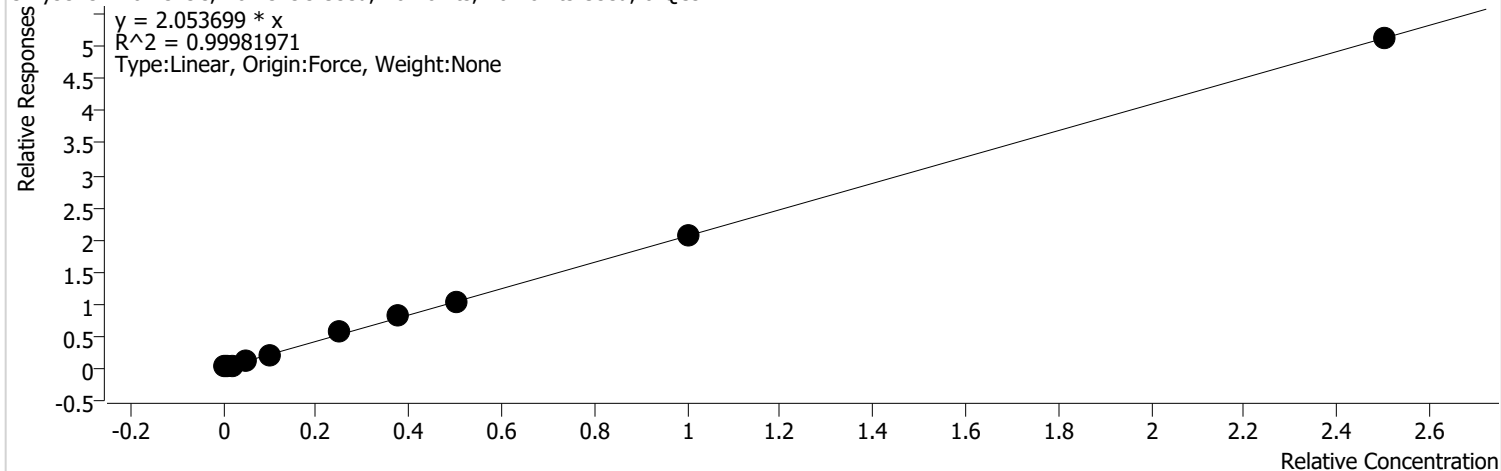
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-21\Data\2023\073123\073116.D	Calibration	1	x	5368	10.0000	1.9406
D:\GC-21\Data\2023\073123\073117.D	Calibration	2	x	8431	20.0000	1.5432
D:\GC-21\Data\2023\073123\073118.D	Calibration	3	x	15467	40.0000	1.5273
D:\GC-21\Data\2023\073123\073119.D	Calibration	4	x	37185	100.0000	1.4287
D:\GC-21\Data\2023\073123\073120.D	Calibration	5	x	79013	200.0000	1.5133
D:\GC-21\Data\2023\073123\073121.D	Calibration	6	x	210390	500.0000	1.6723
D:\GC-21\Data\2023\073123\073122.D	Calibration	7	x	320744	750.0000	1.5878
D:\GC-21\Data\2023\073123\073123.D	Calibration	8	x	389938	1000.0000	1.4847
D:\GC-21\Data\2023\073123\073124.D	Calibration	9	x	817455	2000.0000	1.4614
D:\GC-21\Data\2023\073123\073125.D	Calibration	10	x	2021202	5000.0000	1.4169

Calibration Report

Batch Path	D:\GC-21\Data\2023\073123\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC1821
Analysis Time	8/29/2023 11:41:10 AM	Reporter Name	GC1821
Report Time	8/29/2023 11:43:27 AM	Batch State	Processed
Last Calib Update	8/29/2023 11:22:27 AM		

Chrysene

Chrysene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



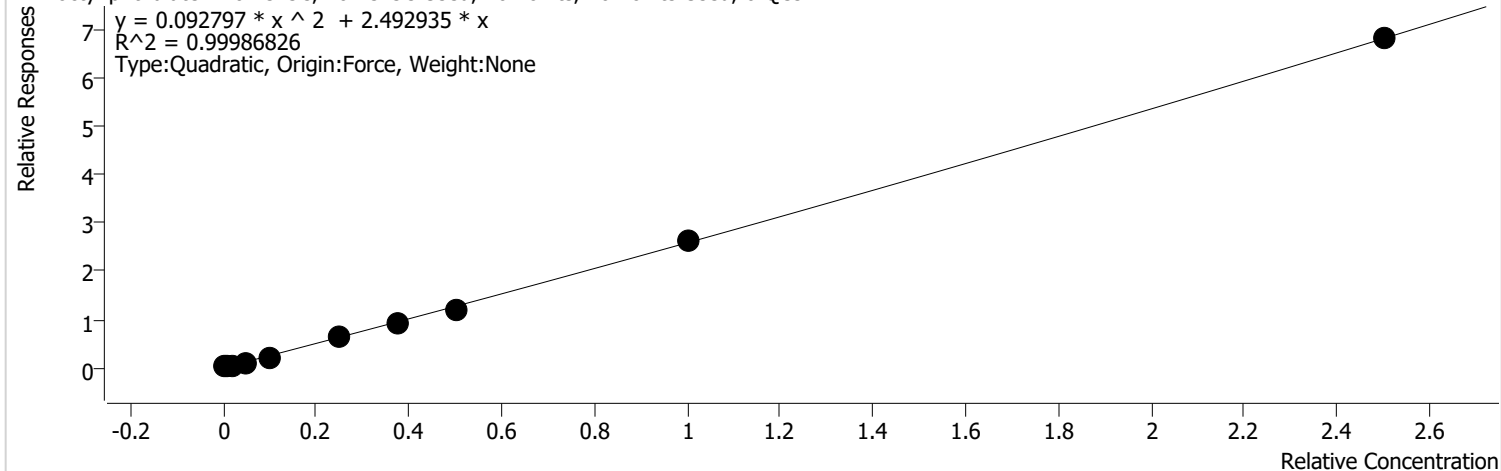
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-21\Data\2023\073123\073116.D	Calibration	1	x	3756	10.0000	1.8970
D:\GC-21\Data\2023\073123\073117.D	Calibration	2	x	6751	20.0000	1.7639
D:\GC-21\Data\2023\073123\073118.D	Calibration	3	x	14265	40.0000	1.9956
D:\GC-21\Data\2023\073123\073119.D	Calibration	4	x	36197	100.0000	1.9699
D:\GC-21\Data\2023\073123\073120.D	Calibration	5	x	77017	200.0000	2.0723
D:\GC-21\Data\2023\073123\073121.D	Calibration	6	x	203915	500.0000	2.2723
D:\GC-21\Data\2023\073123\073122.D	Calibration	7	x	307924	750.0000	2.1291
D:\GC-21\Data\2023\073123\073123.D	Calibration	8	x	372120	1000.0000	2.0232
D:\GC-21\Data\2023\073123\073124.D	Calibration	9	x	788286	2000.0000	2.0529
D:\GC-21\Data\2023\073123\073125.D	Calibration	10	x	1989531	5000.0000	2.0512

Calibration Report

Batch Path	D:\GC-21\Data\2023\073123\QuantResults\PAH ICAL.batch.bin		
Analysis Time	8/29/2023 11:41:10 AM	Analyst Name	FA\GC1821
Report Time	8/29/2023 11:43:27 AM	Reporter Name	GC1821
Last Calib Update	8/29/2023 11:22:27 AM	Batch State	Processed

Di-n-octyl phthalate

Di-n-octyl phthalate - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs

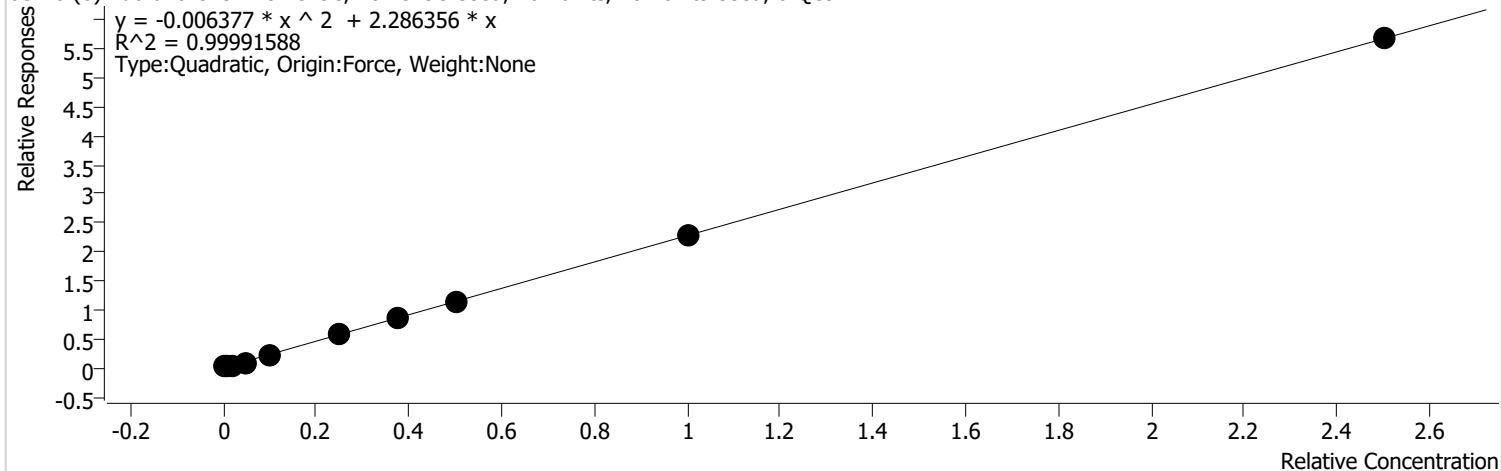


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-21\Data\2023\073123\073116.D	Calibration	1	x	4210	10.0000	2.1263
D:\GC-21\Data\2023\073123\073117.D	Calibration	2	x	7818	20.0000	2.0426
D:\GC-21\Data\2023\073123\073118.D	Calibration	3	x	15696	40.0000	2.1957
D:\GC-21\Data\2023\073123\073119.D	Calibration	4	x	39600	100.0000	2.1551
D:\GC-21\Data\2023\073123\073120.D	Calibration	5	x	85270	200.0000	2.2943
D:\GC-21\Data\2023\073123\073121.D	Calibration	6	x	231867	500.0000	2.5838
D:\GC-21\Data\2023\073123\073122.D	Calibration	7	x	363486	750.0000	2.5133
D:\GC-21\Data\2023\073123\073123.D	Calibration	8	x	447553	1000.0000	2.4334
D:\GC-21\Data\2023\073123\073124.D	Calibration	9	x	1007029	2000.0000	2.6226
D:\GC-21\Data\2023\073123\073125.D	Calibration	10	x	2641572	5000.0000	2.7234

Batch Path	D:\GC-21\Data\2023\073123\QuantResults\PAH ICAL.batch.bin		
Analysis Time	8/29/2023 11:41:10 AM	Analyst Name	FA\GC1821
Report Time	8/29/2023 11:43:27 AM	Reporter Name	GC1821
Last Calib Update	8/29/2023 11:22:27 AM	Batch State	Processed

benzo (b) fluoranthene

benzo (b) fluoranthene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs

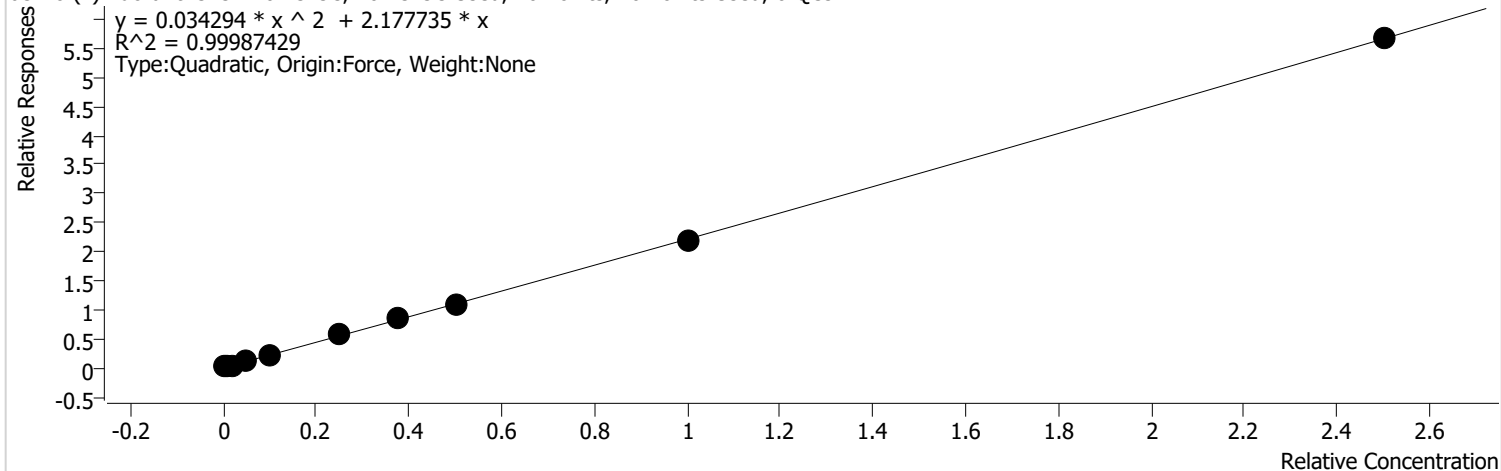


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-21\Data\2023\073123\073116.D	Calibration	1	x	4043	10.0000	2.0419
D:\GC-21\Data\2023\073123\073117.D	Calibration	2	x	7047	20.0000	1.8412
D:\GC-21\Data\2023\073123\073118.D	Calibration	3	x	14469	40.0000	2.0241
D:\GC-21\Data\2023\073123\073119.D	Calibration	4	x	35450	100.0000	1.9292
D:\GC-21\Data\2023\073123\073120.D	Calibration	5	x	77836	200.0000	2.0943
D:\GC-21\Data\2023\073123\073121.D	Calibration	6	x	215292	500.0000	2.3991
D:\GC-21\Data\2023\073123\073122.D	Calibration	7	x	331461	750.0000	2.2918
D:\GC-21\Data\2023\073123\073123.D	Calibration	8	x	410263	1000.0000	2.2306
D:\GC-21\Data\2023\073123\073124.D	Calibration	9	x	879310	2000.0000	2.2900
D:\GC-21\Data\2023\073123\073125.D	Calibration	10	x	2201851	5000.0000	2.2701

Batch Path	D:\GC-21\Data\2023\073123\QuantResults\PAH ICAL.batch.bin		
Analysis Time	8/29/2023 11:41:10 AM	Analyst Name	FA\GC1821
Report Time	8/29/2023 11:43:27 AM	Reporter Name	GC1821
Last Calib Update	8/29/2023 11:22:27 AM	Batch State	Processed

benzo (k) fluoranthene

benzo (k) fluoranthene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



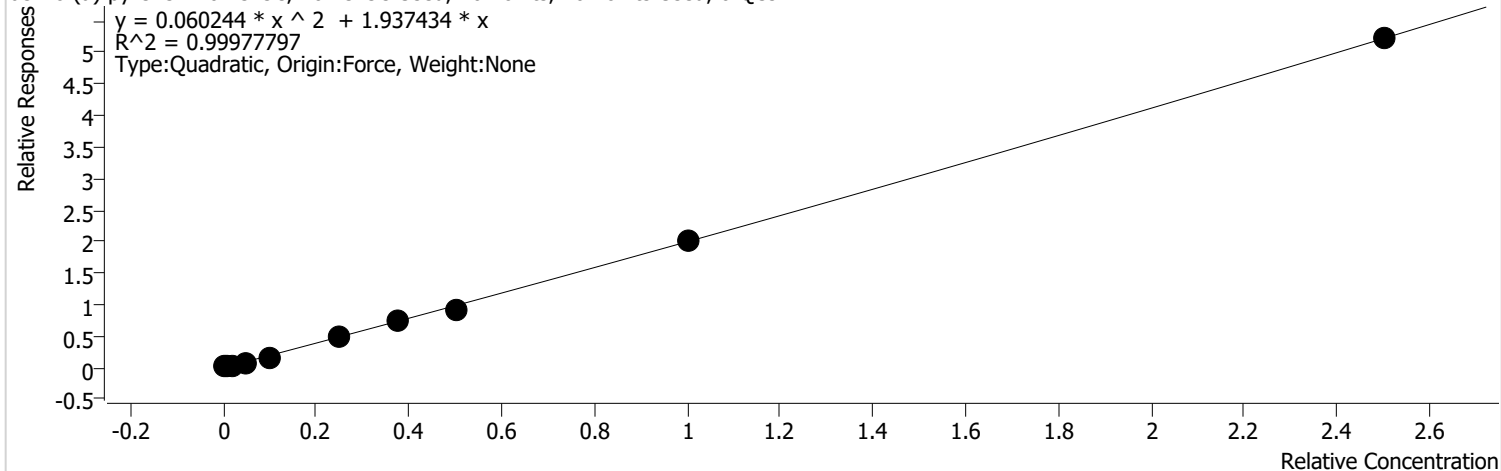
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-21\Data\2023\073123\073116.D	Calibration	1	x	4292	10.0000	2.1677
D:\GC-21\Data\2023\073123\073117.D	Calibration	2	x	7124	20.0000	1.8613
D:\GC-21\Data\2023\073123\073118.D	Calibration	3	x	13870	40.0000	1.9403
D:\GC-21\Data\2023\073123\073119.D	Calibration	4	x	37314	100.0000	2.0306
D:\GC-21\Data\2023\073123\073120.D	Calibration	5	x	79204	200.0000	2.1311
D:\GC-21\Data\2023\073123\073121.D	Calibration	6	x	210373	500.0000	2.3443
D:\GC-21\Data\2023\073123\073122.D	Calibration	7	x	327886	750.0000	2.2671
D:\GC-21\Data\2023\073123\073123.D	Calibration	8	x	392651	1000.0000	2.1349
D:\GC-21\Data\2023\073123\073124.D	Calibration	9	x	846139	2000.0000	2.2036
D:\GC-21\Data\2023\073123\073125.D	Calibration	10	x	2196039	5000.0000	2.2641

Calibration Report

Batch Path	D:\GC-21\Data\2023\073123\QuantResults\PAH ICAL.batch.bin		
Analysis Time	8/29/2023 11:41:10 AM	Analyst Name	FA\GC1821
Report Time	8/29/2023 11:43:27 AM	Reporter Name	GC1821
Last Calib Update	8/29/2023 11:22:27 AM	Batch State	Processed

benzo (a) pyrene

benzo (a) pyrene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs

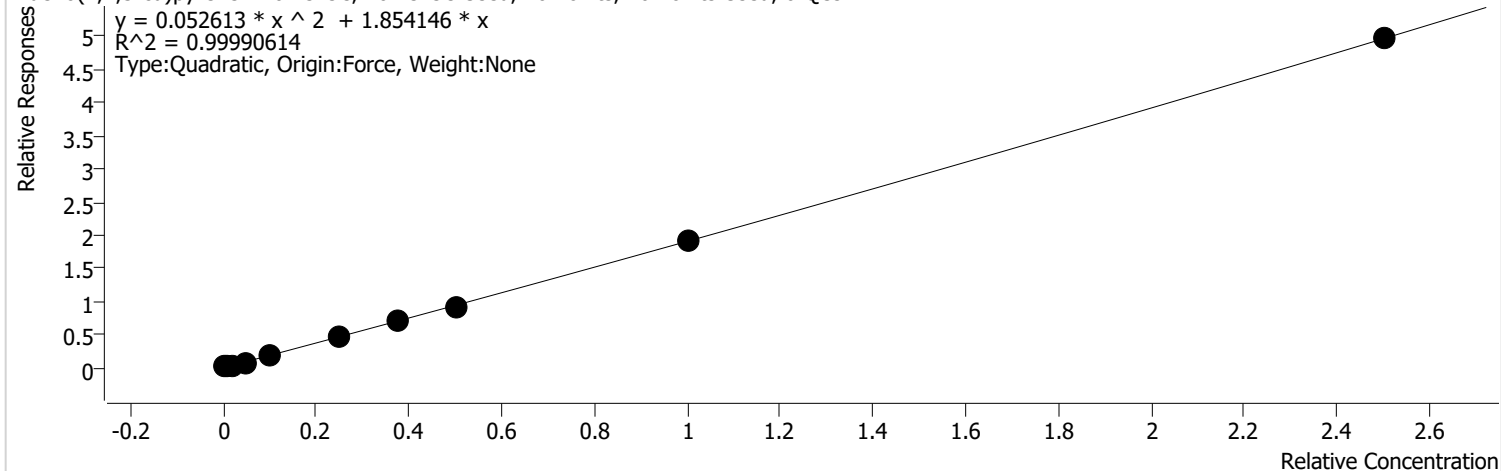


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-21\Data\2023\073123\073116.D	Calibration	1	x	3635	10.0000	1.8358
D:\GC-21\Data\2023\073123\073117.D	Calibration	2	x	6021	20.0000	1.5730
D:\GC-21\Data\2023\073123\073118.D	Calibration	3	x	11597	40.0000	1.6224
D:\GC-21\Data\2023\073123\073119.D	Calibration	4	x	29747	100.0000	1.6188
D:\GC-21\Data\2023\073123\073120.D	Calibration	5	x	63771	200.0000	1.7159
D:\GC-21\Data\2023\073123\073121.D	Calibration	6	x	177307	500.0000	1.9758
D:\GC-21\Data\2023\073123\073122.D	Calibration	7	x	286803	750.0000	1.9830
D:\GC-21\Data\2023\073123\073123.D	Calibration	8	x	341587	1000.0000	1.8572
D:\GC-21\Data\2023\073123\073124.D	Calibration	9	x	780598	2000.0000	2.0329
D:\GC-21\Data\2023\073123\073125.D	Calibration	10	x	2023884	5000.0000	2.0866

Batch Path	D:\GC-21\Data\2023\073123\QuantResults\PAH ICAL.batch.bin		
Analysis Time	8/29/2023 11:41:10 AM	Analyst Name	FA\GC1821
Report Time	8/29/2023 11:43:27 AM	Reporter Name	GC1821
Last Calib Update	8/29/2023 11:22:27 AM	Batch State	Processed

Indeno(1,2,3-cd)pyrene

Indeno(1,2,3-cd)pyrene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs

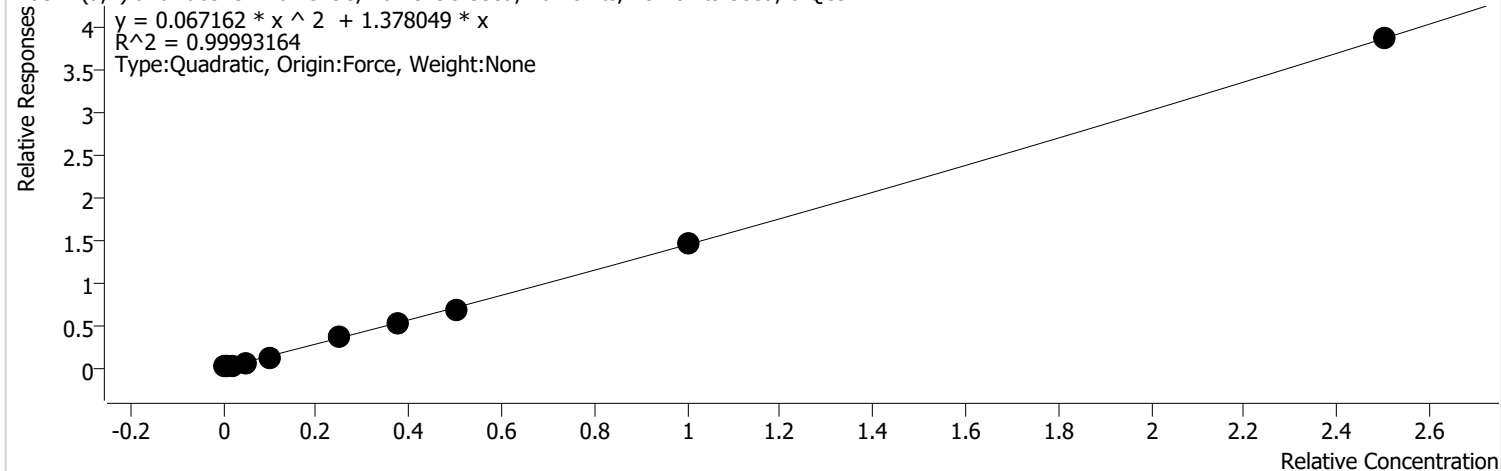


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-21\Data\2023\073123\073116.D	Calibration	1	x	4558	10.0000	2.0170
D:\GC-21\Data\2023\073123\073117.D	Calibration	2	x	6903	20.0000	1.5857
D:\GC-21\Data\2023\073123\073118.D	Calibration	3	x	12707	40.0000	1.5932
D:\GC-21\Data\2023\073123\073119.D	Calibration	4	x	31507	100.0000	1.5201
D:\GC-21\Data\2023\073123\073120.D	Calibration	5	x	70985	200.0000	1.6852
D:\GC-21\Data\2023\073123\073121.D	Calibration	6	x	203118	500.0000	1.9473
D:\GC-21\Data\2023\073123\073122.D	Calibration	7	x	324809	750.0000	1.8988
D:\GC-21\Data\2023\073123\073123.D	Calibration	8	x	400678	1000.0000	1.8247
D:\GC-21\Data\2023\073123\073124.D	Calibration	9	x	912322	2000.0000	1.9173
D:\GC-21\Data\2023\073123\073125.D	Calibration	10	x	2440412	5000.0000	1.9853

Batch Path	D:\GC-21\Data\2023\073123\QuantResults\PAH ICAL.batch.bin		
Analysis Time	8/29/2023 11:41:10 AM	Analyst Name	FA\GC1821
Report Time	8/29/2023 11:43:27 AM	Reporter Name	GC1821
Last Calib Update	8/29/2023 11:22:27 AM	Batch State	Processed

Dibenz (a,h) anthracene

Dibenz (a,h) anthracene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs

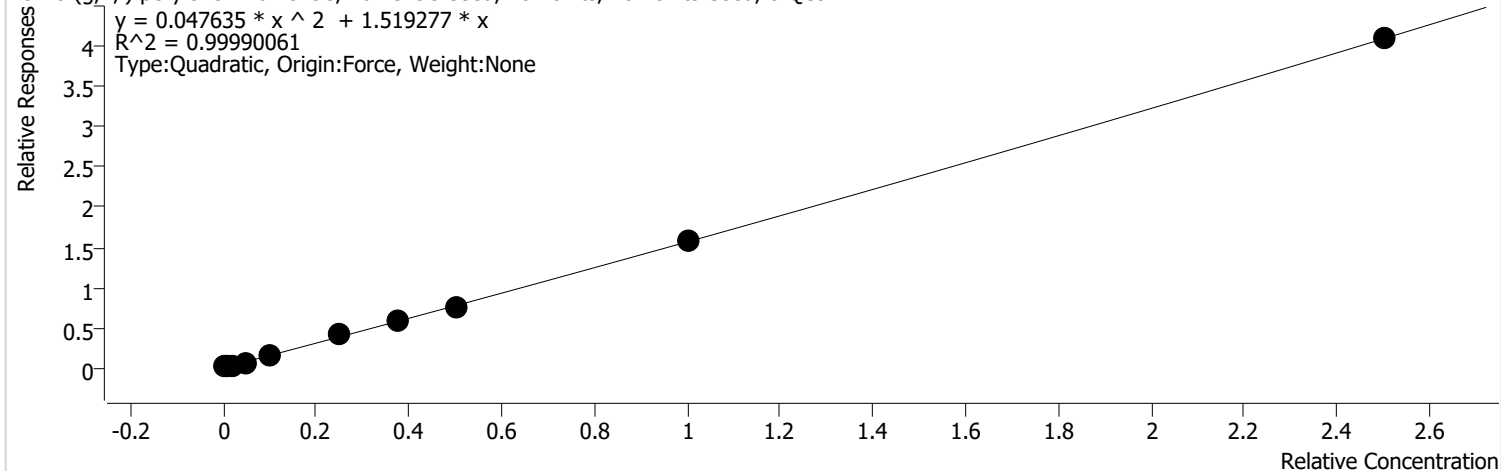


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-21\Data\2023\073123\073116.D	Calibration	1	x	3334	10.0000	1.4755
D:\GC-21\Data\2023\073123\073117.D	Calibration	2	x	5011	20.0000	1.1510
D:\GC-21\Data\2023\073123\073118.D	Calibration	3	x	9215	40.0000	1.1554
D:\GC-21\Data\2023\073123\073119.D	Calibration	4	x	22881	100.0000	1.1039
D:\GC-21\Data\2023\073123\073120.D	Calibration	5	x	51684	200.0000	1.2270
D:\GC-21\Data\2023\073123\073121.D	Calibration	6	x	148902	500.0000	1.4275
D:\GC-21\Data\2023\073123\073122.D	Calibration	7	x	242266	750.0000	1.4163
D:\GC-21\Data\2023\073123\073123.D	Calibration	8	x	303068	1000.0000	1.3802
D:\GC-21\Data\2023\073123\073124.D	Calibration	9	x	691825	2000.0000	1.4539
D:\GC-21\Data\2023\073123\073125.D	Calibration	10	x	1899897	5000.0000	1.5456

Batch Path	D:\GC-21\Data\2023\073123\QuantResults\PAH ICAL.batch.bin		
Analysis Time	8/29/2023 11:41:10 AM	Analyst Name	FA\GC1821
Report Time	8/29/2023 11:43:27 AM	Reporter Name	GC1821
Last Calib Update	8/29/2023 11:22:27 AM	Batch State	Processed

Benzo (g,h,i) perylene

Benzo (g,h,i) perylene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-21\Data\2023\073123\073116.D	Calibration	1	x	4222	10.0000	1.8684
D:\GC-21\Data\2023\073123\073117.D	Calibration	2	x	6135	20.0000	1.4094
D:\GC-21\Data\2023\073123\073118.D	Calibration	3	x	11337	40.0000	1.4214
D:\GC-21\Data\2023\073123\073119.D	Calibration	4	x	28514	100.0000	1.3757
D:\GC-21\Data\2023\073123\073120.D	Calibration	5	x	60687	200.0000	1.4407
D:\GC-21\Data\2023\073123\073121.D	Calibration	6	x	170168	500.0000	1.6314
D:\GC-21\Data\2023\073123\073122.D	Calibration	7	x	268584	750.0000	1.5701
D:\GC-21\Data\2023\073123\073123.D	Calibration	8	x	328801	1000.0000	1.4974
D:\GC-21\Data\2023\073123\073124.D	Calibration	9	x	746221	2000.0000	1.5682
D:\GC-21\Data\2023\073123\073125.D	Calibration	10	x	2014037	5000.0000	1.6384

GC-21

PAH Calibration

Date: 7/31/23

Analyst: SPH

MeCl2: 7645

Cal	ICV
8270 Megamix: <u>28525</u>	8270 Megamix: <u>27571</u>

8270 Surrogate: 28414 IS: 28717

Spike Conc. (ppb)	BN/Acid Surr Conc. (ppb)	2° Spike (uL)	B/N Surr (uL)	Internal Standard (uL)	Remove (uL)	Final Vol. (mL)	Comments
81 2	2/1	0.2	--	10	10.2	1	For PAH-LL Cal Only
82 10	10/5	1	--	10	11	1	
83 20	20/10	2	--	10	12	1	
84 40	40/20	4	--	10	14	1	
85 100	100/50	10	--	10	20	1	
86 200	200/100	20	--	10	30	1	
87 500	500/250	50	--	10	60	1	
88 750	750/375	75	--	10	85	1	
89 1000	1000/500	100	--	10	110	1	
90 2000	2000/1000	200	--	10	210	1	
91 5000	5000/2500	500	--	10	510	1	
92 ICB	1000/500		5	10	15	1	
93 ICV (1000 ppb)	1000/500	**	5	10	16	1	**Add 1 uL of SS Megamix

	Mega Mix (uL)	8270 Surr (uL)	Final Volume (mL)
2° Intermediate (cal)	100	500	10

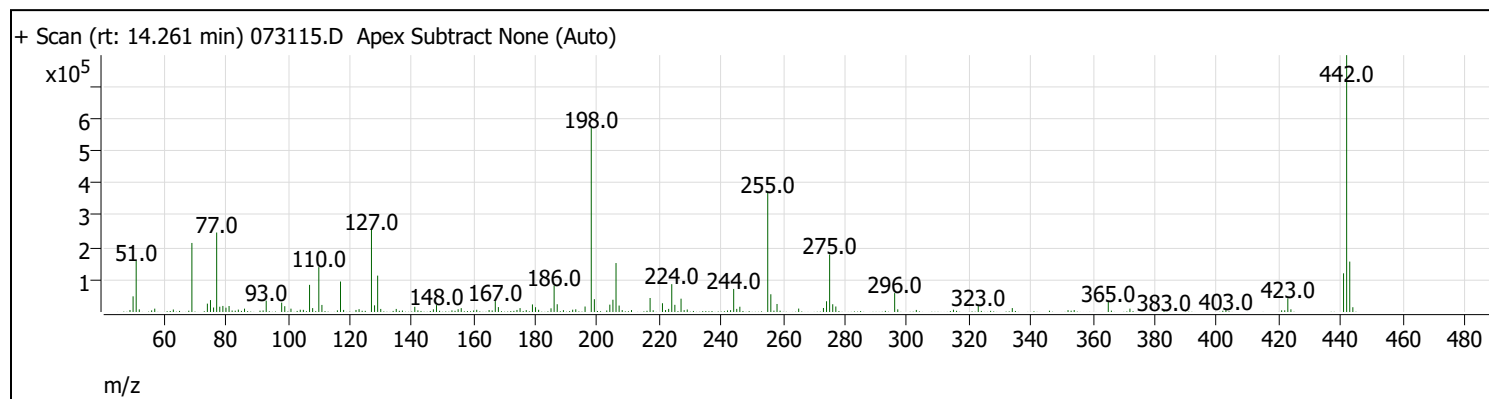
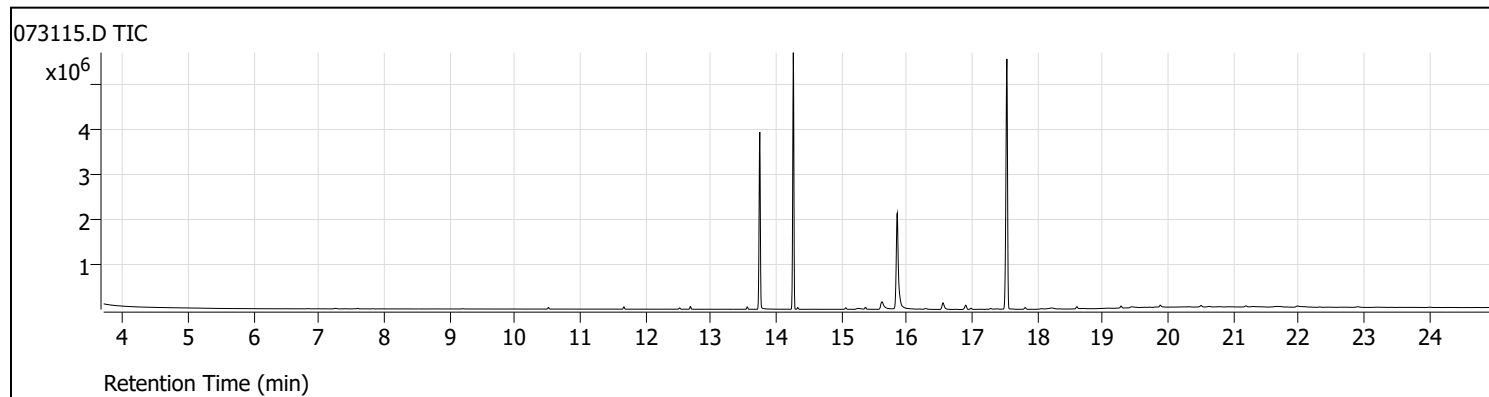
Signature and Date:  8/29/23



Tunes

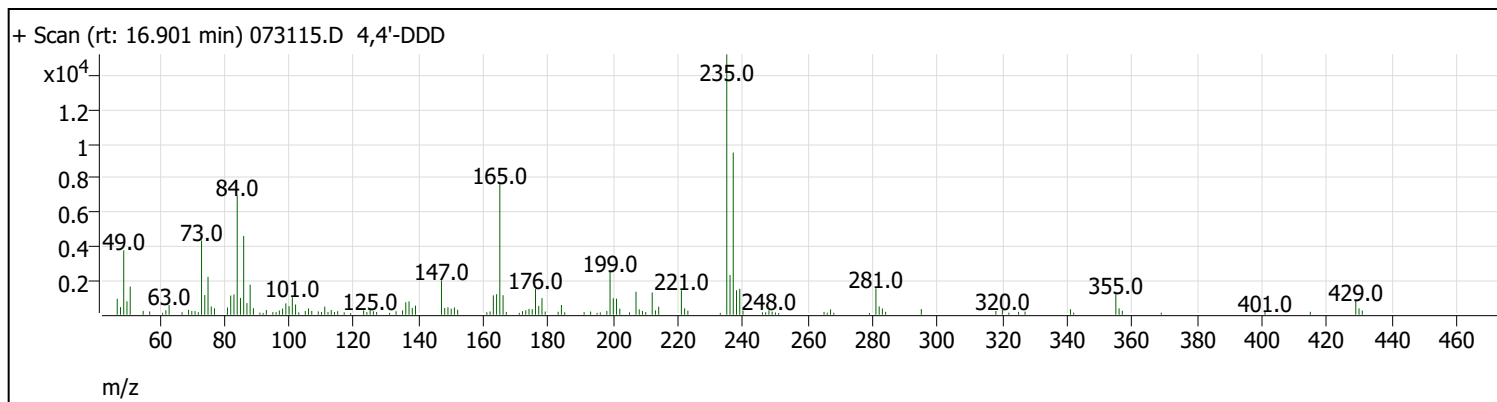
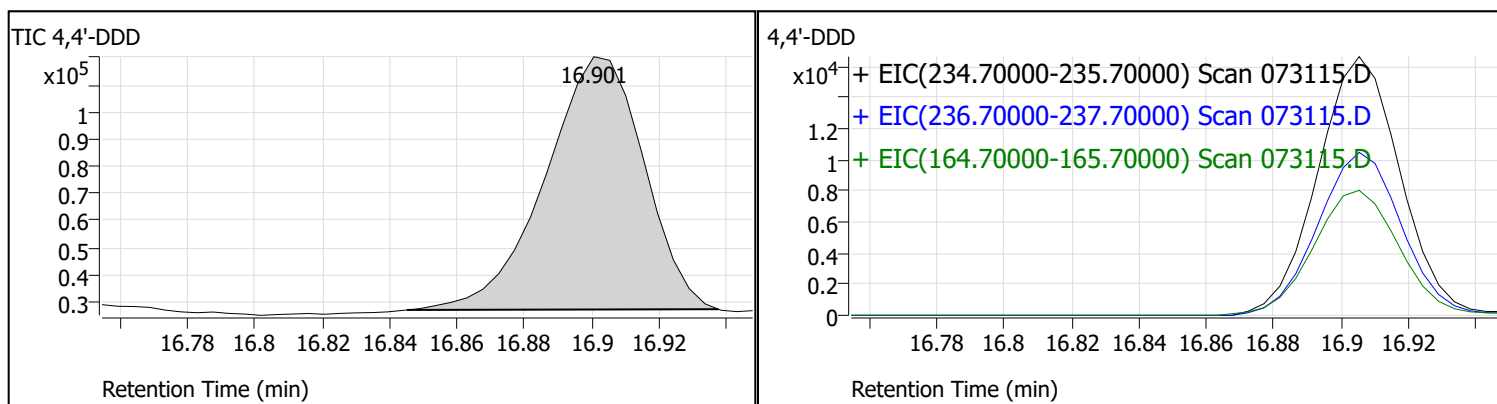
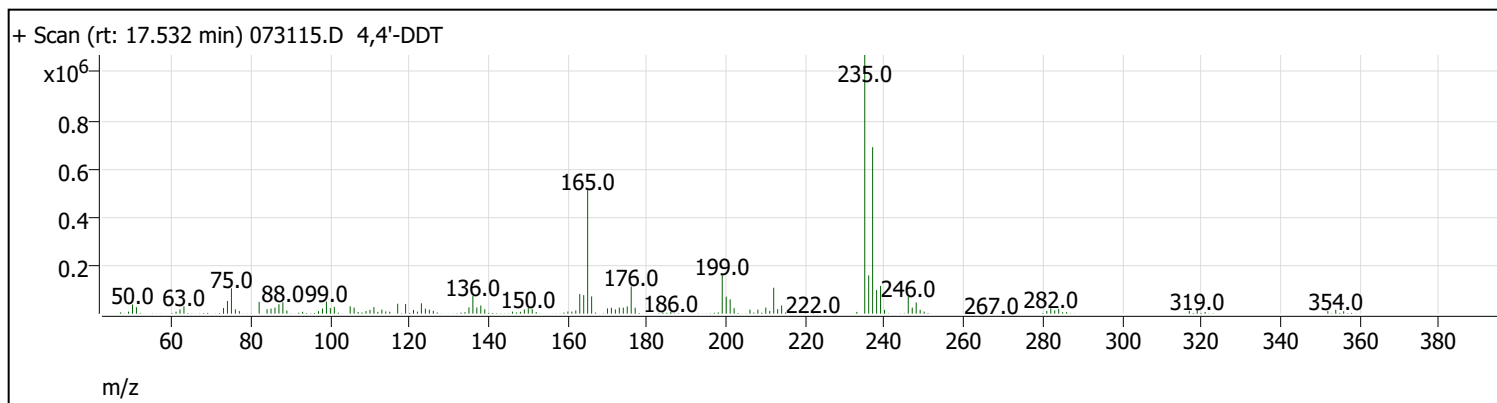
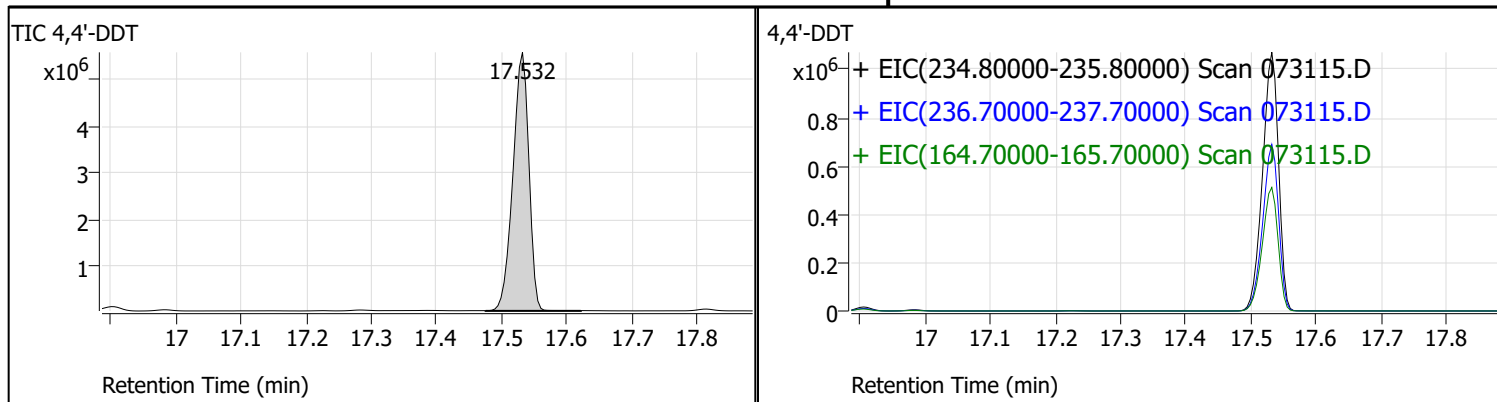
Tune Evaluation Report

Data Path: D:\GC-21\Data\2023\073123\073115.D
 Acq on: 7/31/2023 5:02:54 PM
 Operator: SRH/SNK
 Sample: TUNE
 Inst Name: GC21
 ALS Vial: 1
 Method: D:\MassHunter\Methods\Quant\DFTPPwBreak&TailingGC218270E.m



Target Mass	Rel. To Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Pass/Fail
68	69	0	2	1.9	4054	Pass
70	69	0	2	0.6	1295	Pass
197	198	0	2	0.0	0	Pass
198	198	100	100	100.0	570562	Pass
199	198	5	9	7.0	39728	Pass
365	442	1	100	4.0	31648	Pass
441	443	1E-10	150	76.7	119941	Pass
442	442	100	100	100.0	796313	Pass
443	442	15	24	19.6	156346	Pass
69	69	100	100	100.0	214106	Pass

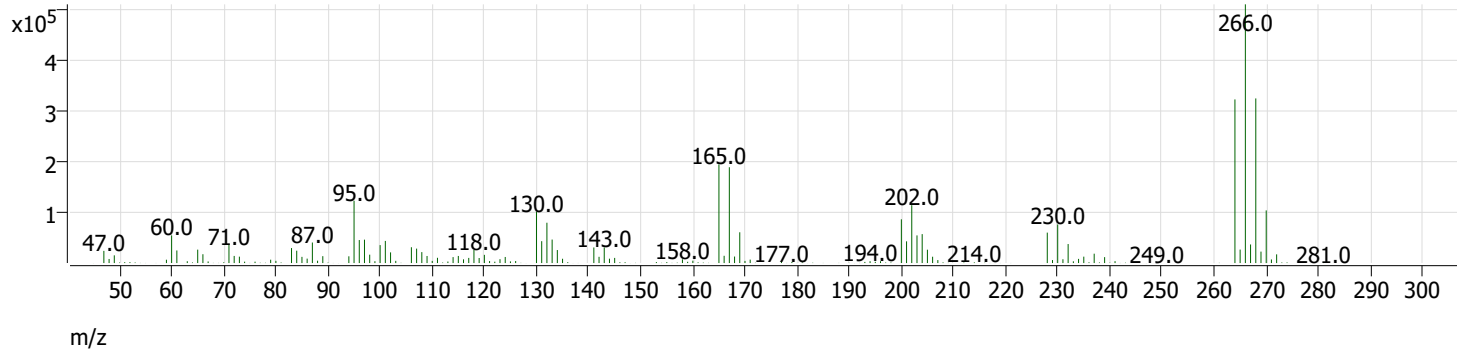
Tune Evaluation Report



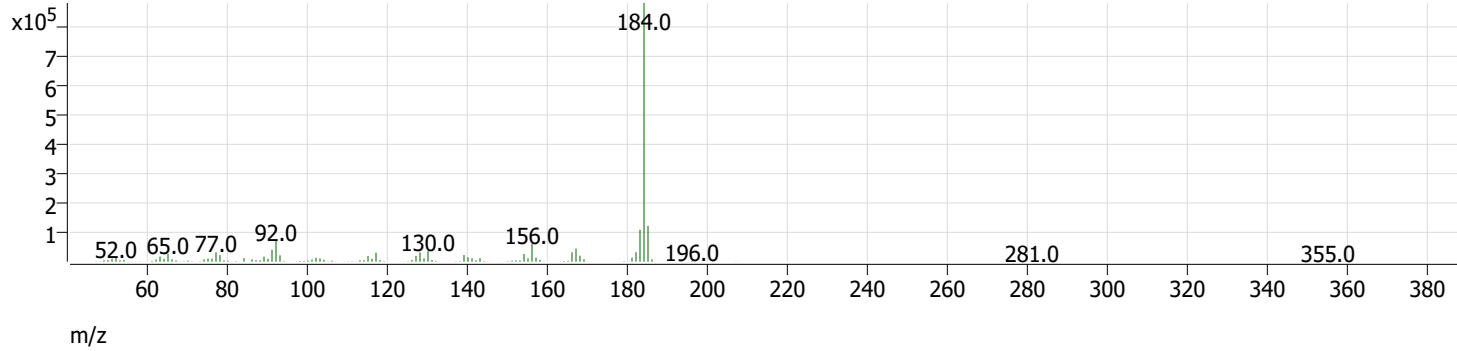
Compound Name	Expected RT	Observed RT	TIC Area	Breakdown %	Pass/Fail
4,4'-DDT	17.386	17.532	9469484	2.0	Pass
4,4'-DDD	16.850	16.901	189666		

Tune Evaluation Report

+ Scan (rt: 13.747 min) 073115.D Pentachlorophenol



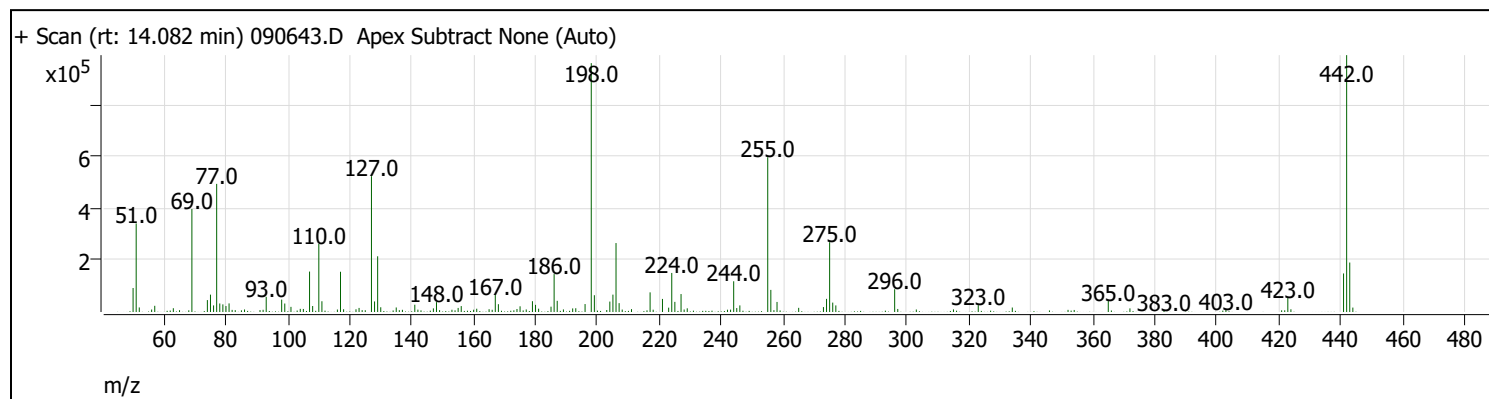
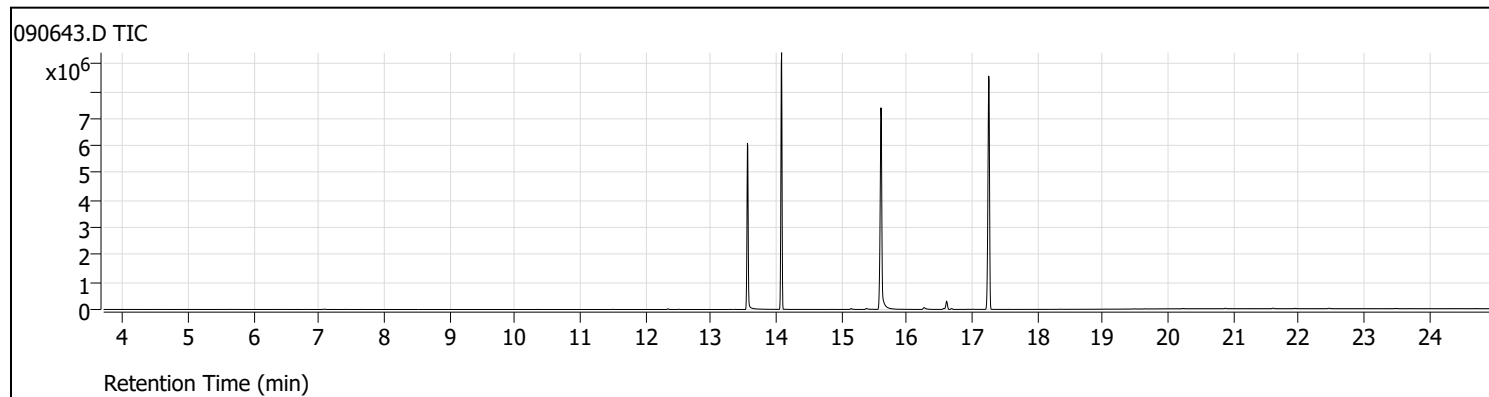
+ Scan (rt: 15.854 min) 073115.D Benzidine



Compound Name	Expected RT	Observed RT	Tailing Factor	PGF	Pass/Fail
Pentachlorophenol	13.800	13.747	0.9	2.9	Pass
Benzidine	16.100	15.854	1.5	1.9	Pass

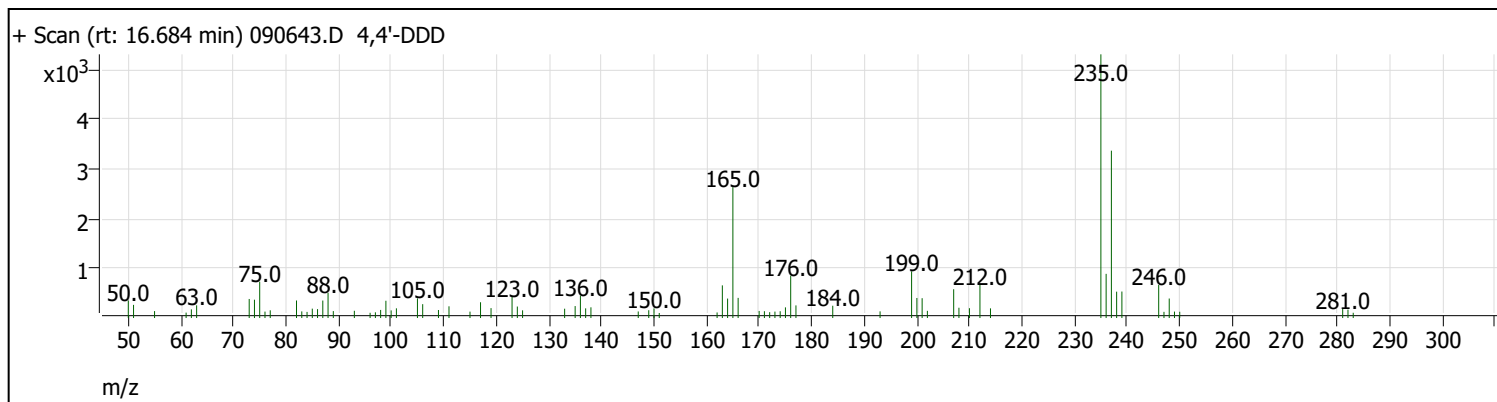
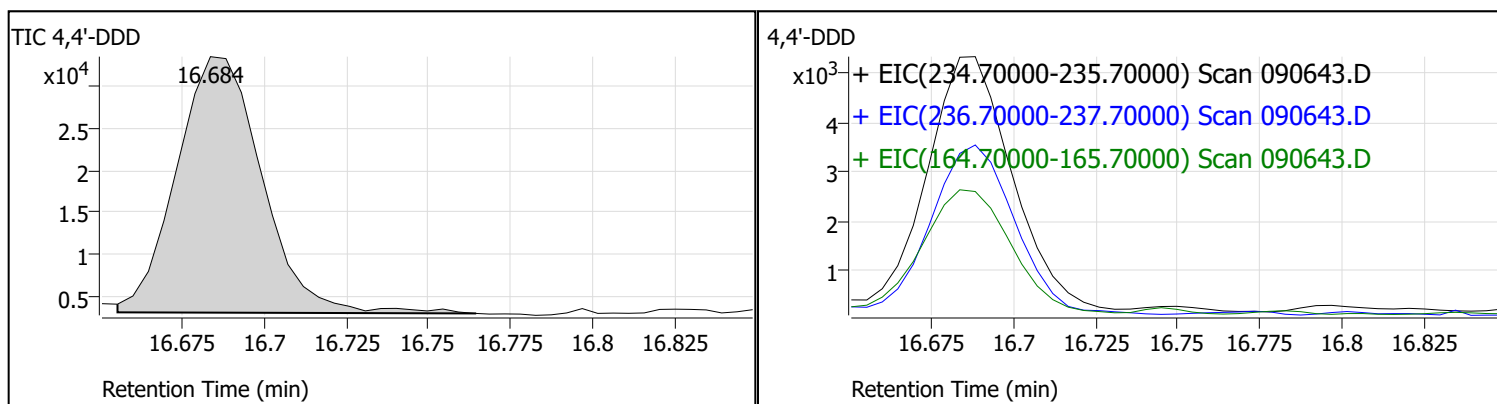
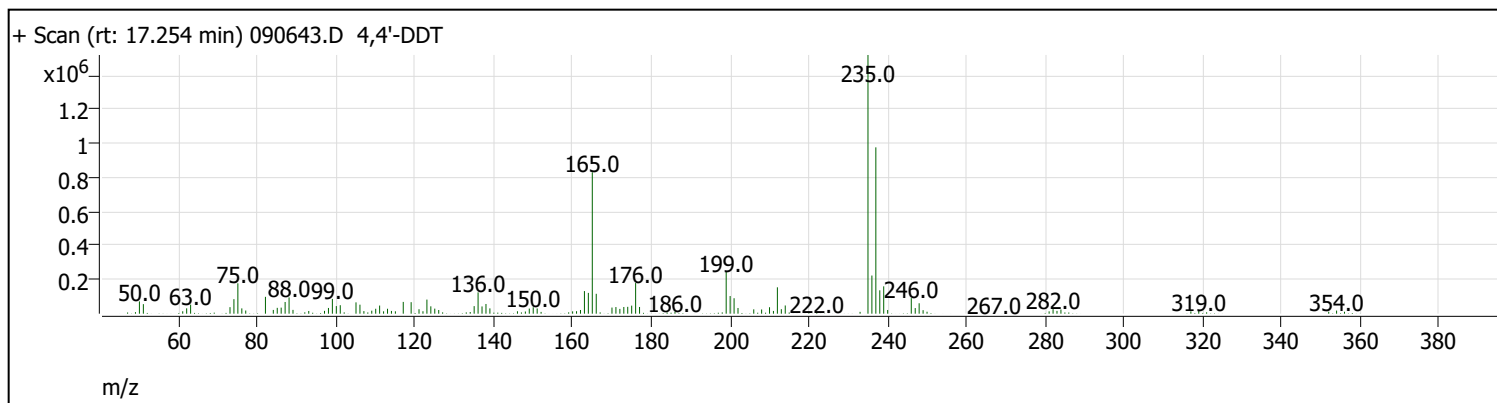
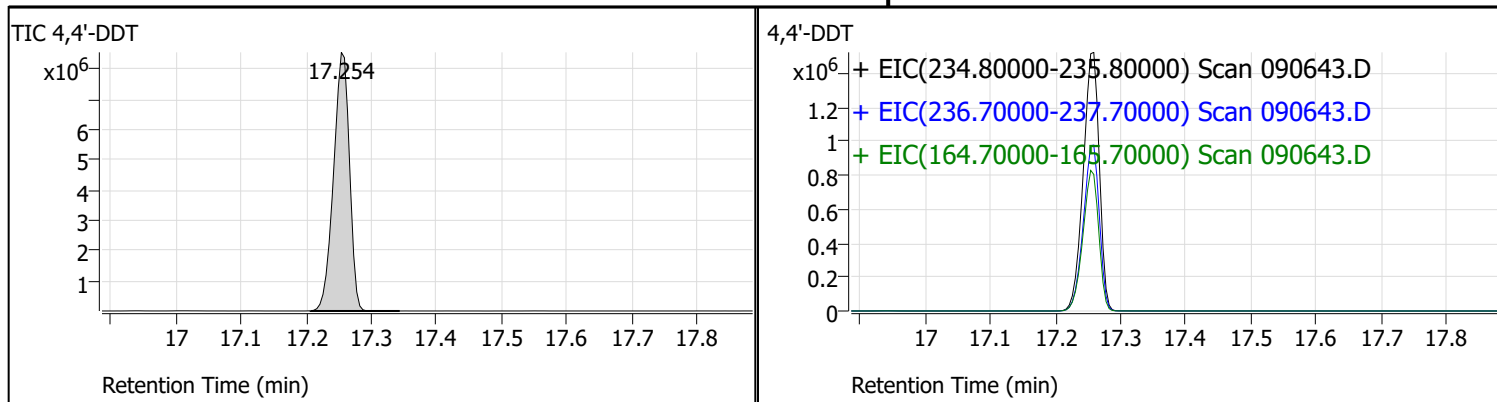
Tune Evaluation Report

Data Path: D:\GC-21\Data\2023\090623\090643.D
 Acq on: 9/8/2023 1:39:10 AM
 Operator: SRH/SNK
 Sample: tune
 Inst Name: GC21
 ALS Vial: 1
 Method: D:\MassHunter\Methods\Quant\DFTPPwBreak&TailingGC218270E.m



Target Mass	Rel. To Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Pass/Fail
68	69	0	2	1.6	6532	Pass
70	69	0	2	0.5	1999	Pass
197	198	0	2	0.0	0	Pass
198	198	100	100	100.0	958485	Pass
199	198	5	9	6.7	64623	Pass
365	442	1	100	4.4	43595	Pass
441	443	1E-10	150	78.0	148503	Pass
442	442	100	100	100.0	989281	Pass
443	442	15	24	19.3	190469	Pass
69	69	100	100	100.0	396625	Pass

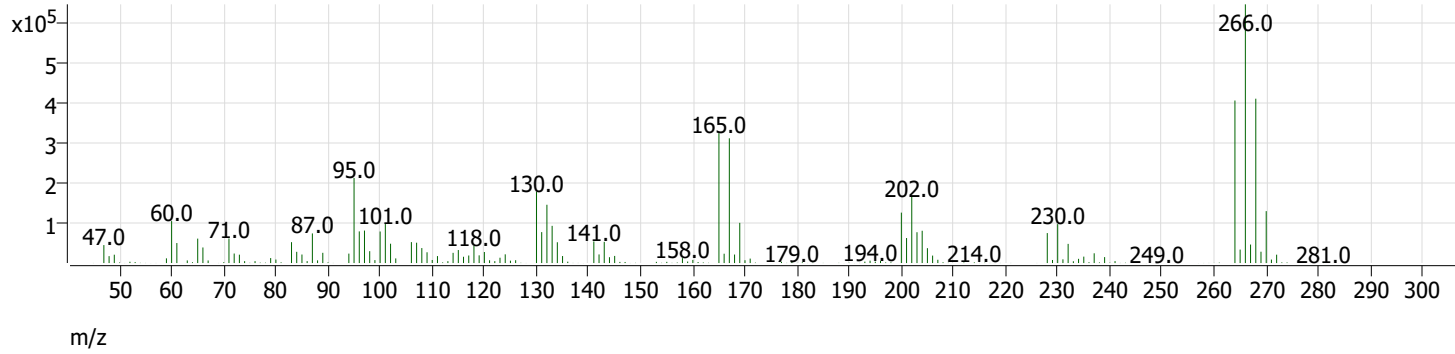
Tune Evaluation Report



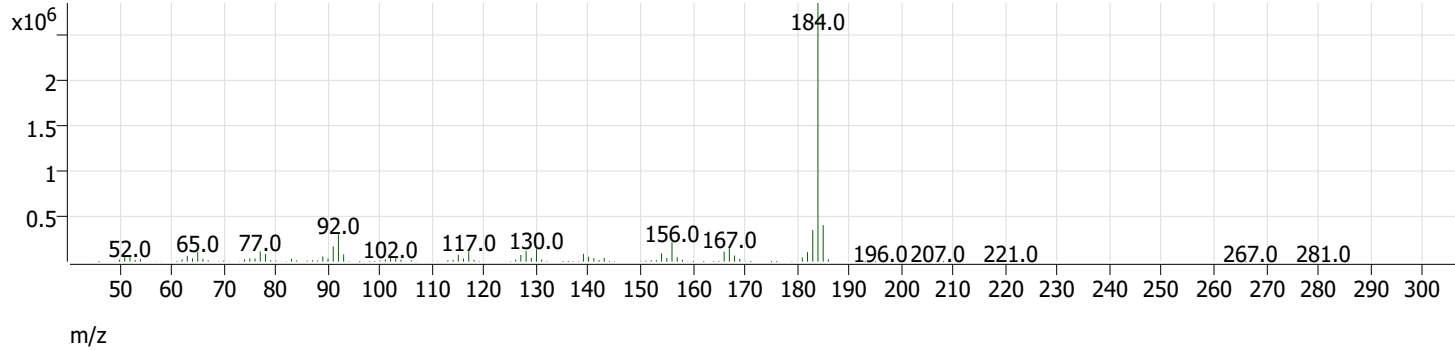
Compound Name	Expected RT	Observed RT	TIC Area	Breakdown %	Pass/Fail
4,4'-DDT	17.386	17.254	14516754	0.4	Pass
4,4'-DDD	16.750	16.684	55259		

Tune Evaluation Report

+ Scan (rt: 13.558 min) 090643.D Pentachlorophenol



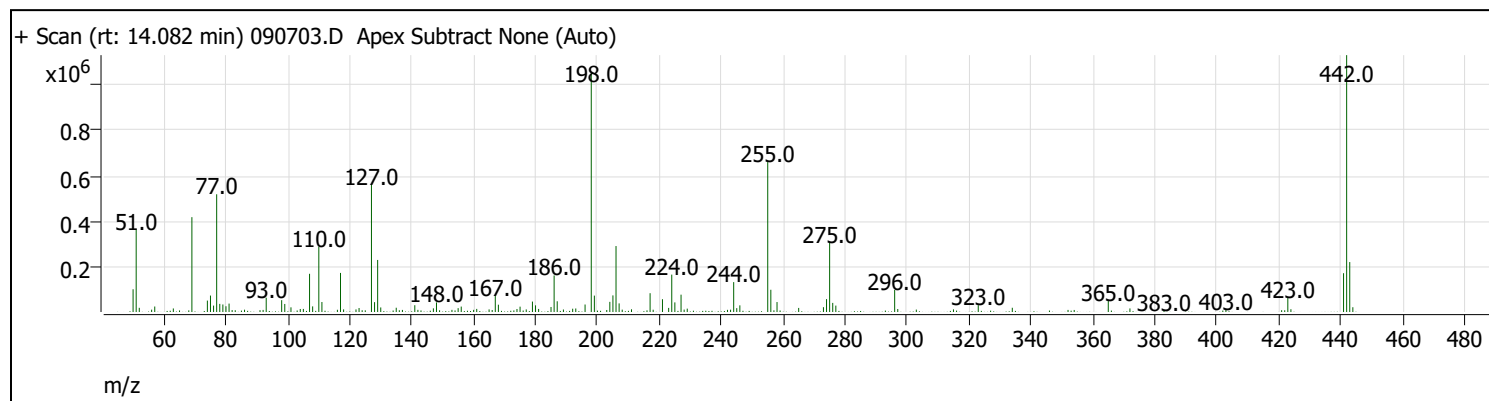
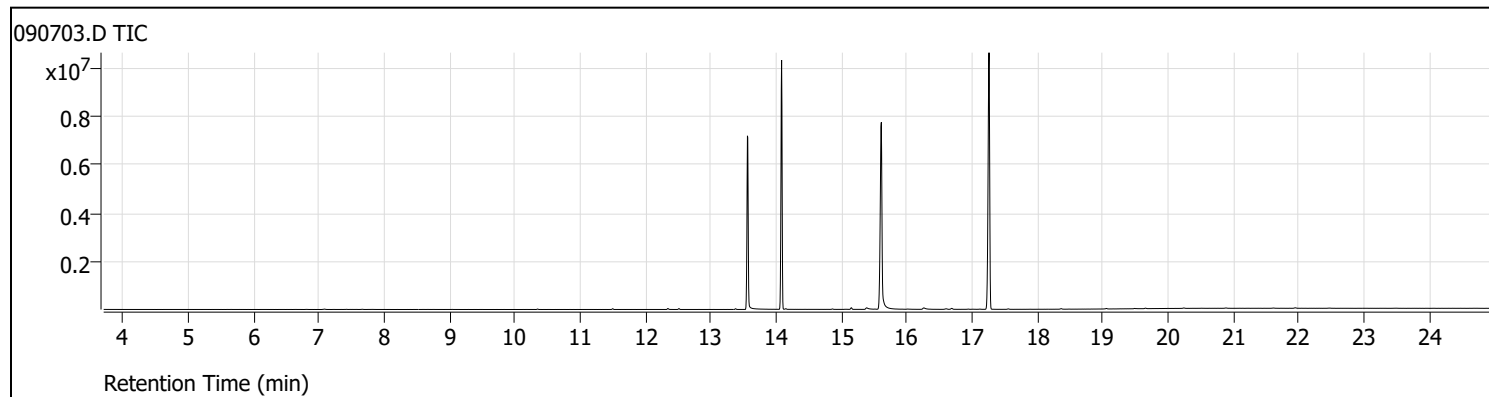
+ Scan (rt: 15.604 min) 090643.D Benzidine



Compound Name	Expected RT	Observed RT	Tailing Factor	PGF	Pass/Fail
Pentachlorophenol	13.800	13.558	1.2	2.6	Pass
Benzidine	15.800	15.604	0.9	2.0	Pass

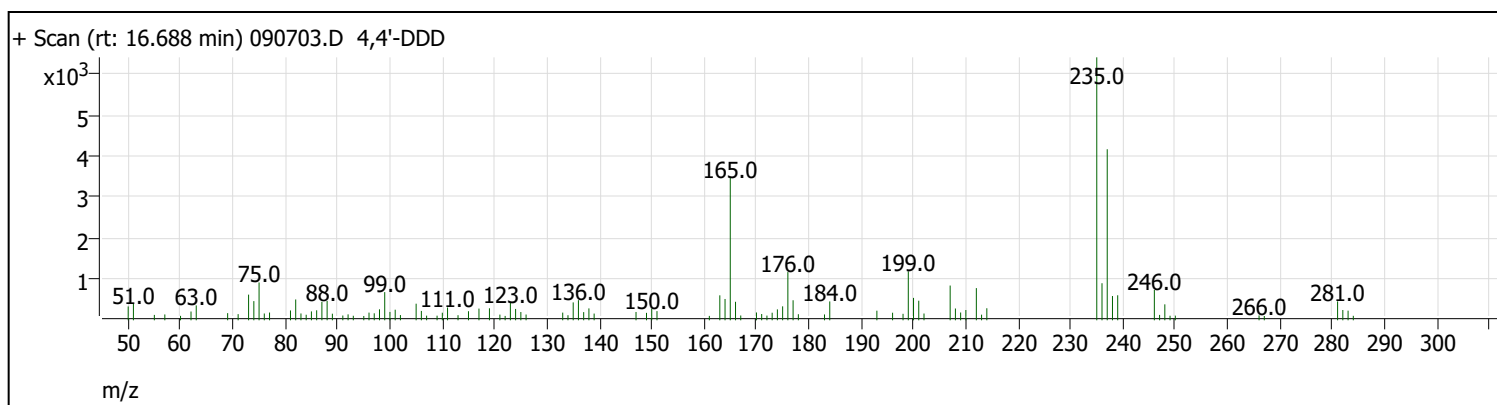
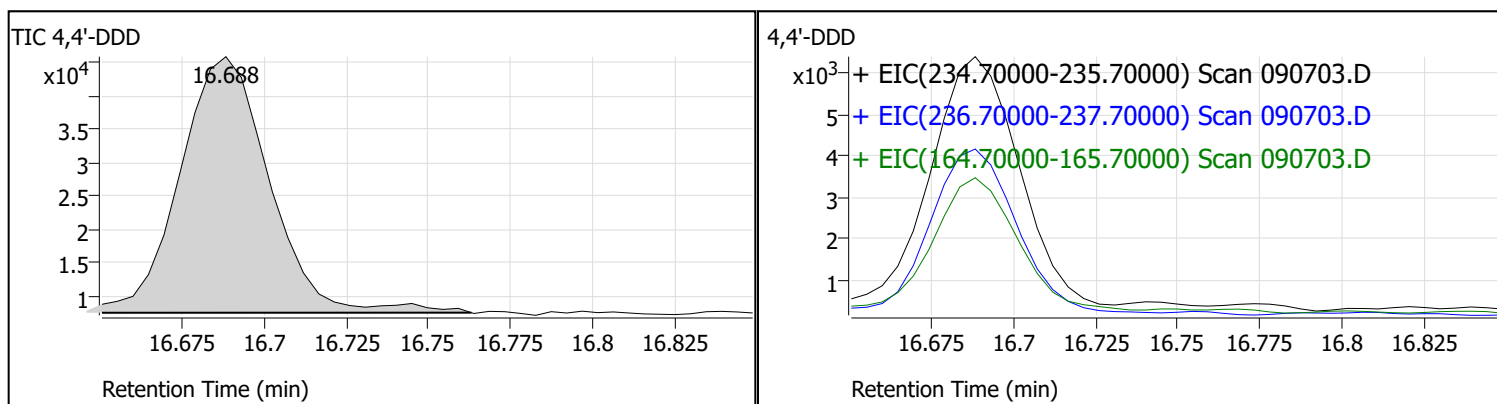
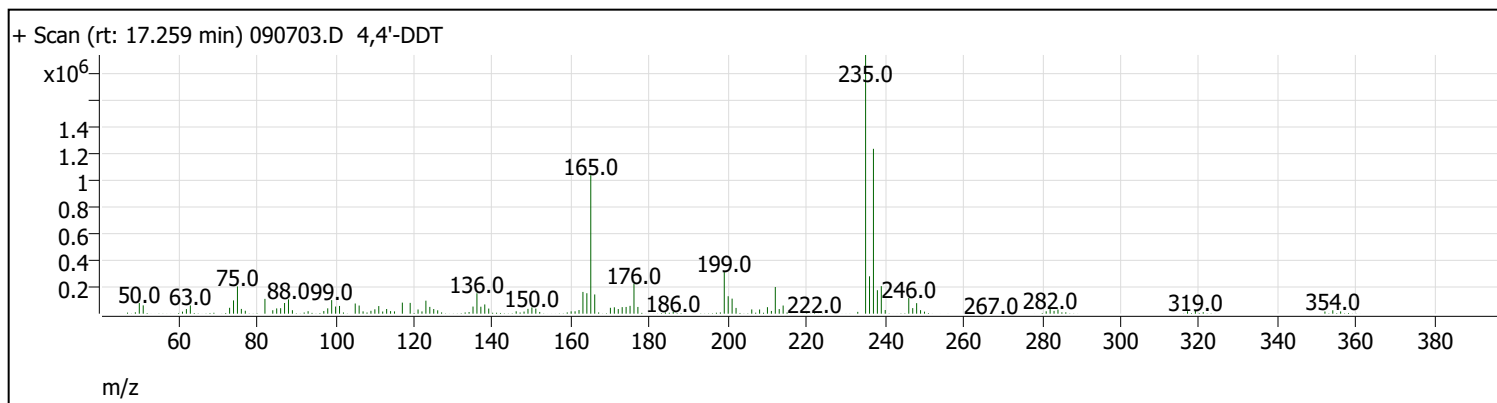
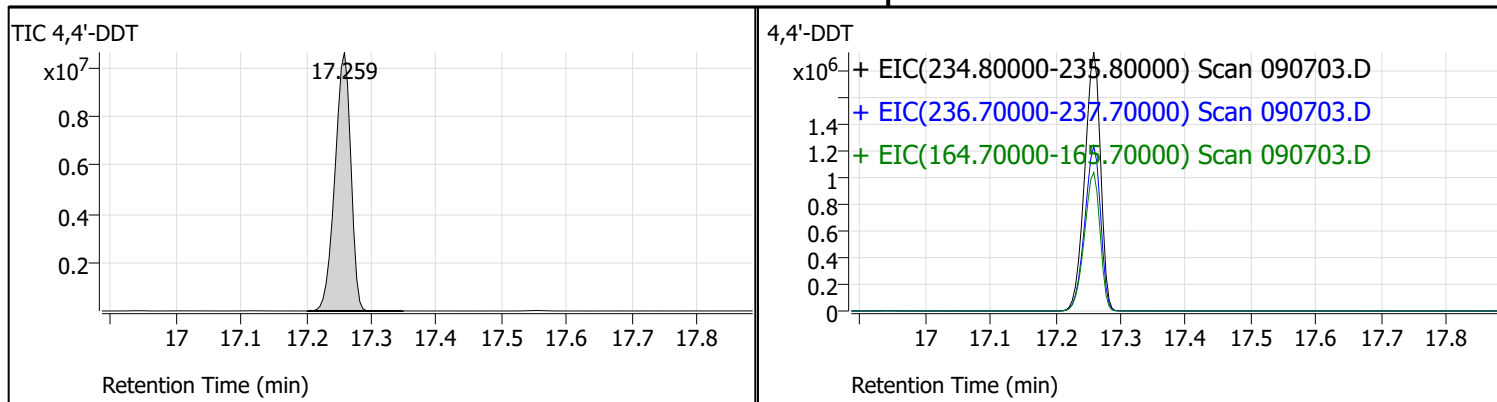
Tune Evaluation Report

Data Path: D:\GC-21\Data\2023\090723\090703.D
 Acq on: 9/8/2023 9:39:16 AM
 Operator: SRH/SNK
 Sample: tune
 Inst Name: GC21
 ALS Vial: 1
 Method: D:\MassHunter\Methods\Quant\DFTPPwBreak&TailingGC218270E.m



Target Mass	Rel. To Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Pass/Fail
68	69	0	2	1.7	7226	Pass
70	69	0	2	0.6	2304	Pass
197	198	0	2	0.0	0	Pass
198	198	100	100	100.0	1055265	Pass
199	198	5	9	6.8	72266	Pass
365	442	1	100	4.3	48728	Pass
441	443	1E-10	150	77.7	171028	Pass
442	442	100	100	100.0	1132435	Pass
443	442	15	24	19.4	220149	Pass
69	69	100	100	100.0	418184	Pass

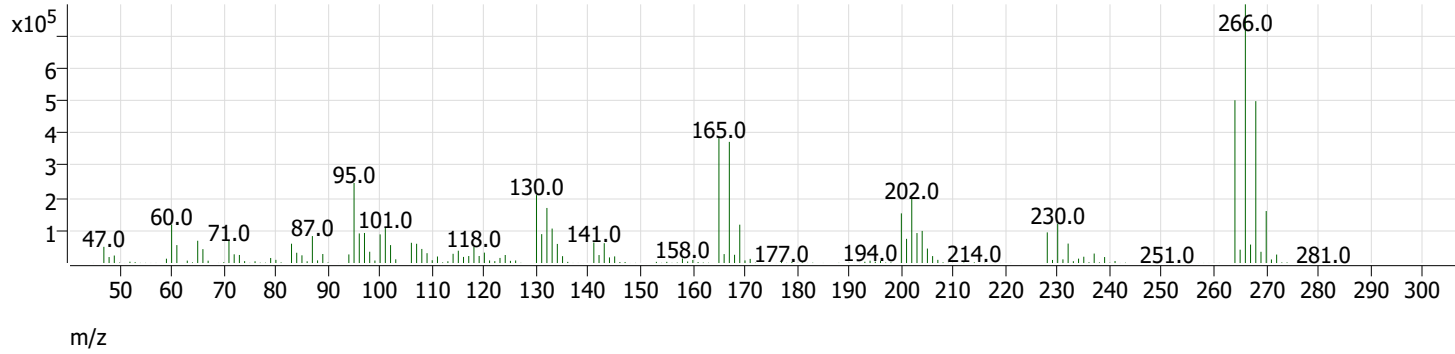
Tune Evaluation Report



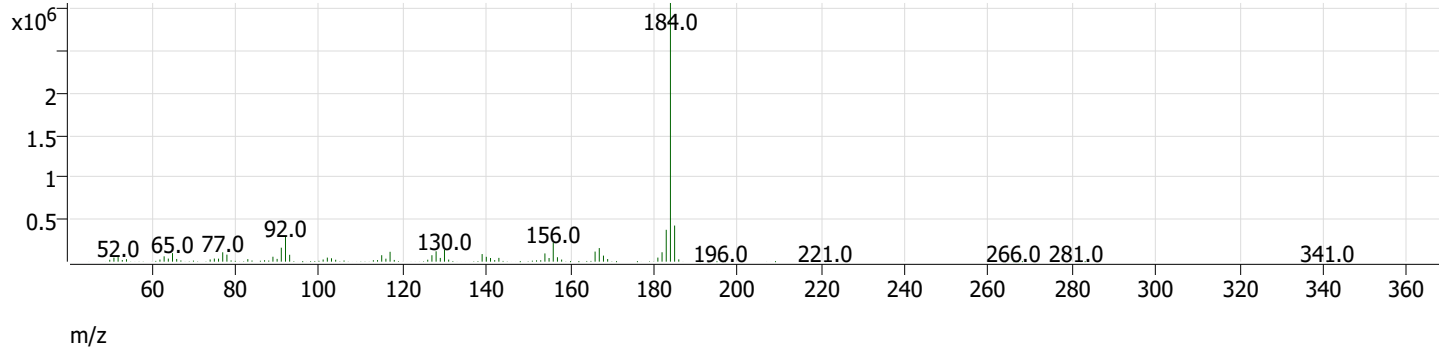
Compound Name	Expected RT	Observed RT	TIC Area	Breakdown %	Pass/Fail
4,4'-DDT	17.386	17.259	18024419	0.4	Pass
4,4'-DDD	16.750	16.688	72739		

Tune Evaluation Report

+ Scan (rt: 13.558 min) 090703.D Pentachlorophenol



+ Scan (rt: 15.609 min) 090703.D Benzidine



Compound Name	Expected RT	Observed RT	Tailing Factor	PGF	Pass/Fail
Pentachlorophenol	13.800	13.558	1.2	9.3	Pass
Benzidine	15.800	15.609	0.7	6.8	Pass



Internal Standards

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-21 230908A CCV Name: PAH-S-SIM MDPT
 Run No: 86399 CCV SeqNo: 1803166
 Lab File ID (Standard): 073123.D Date Analyzed: 7/31/2023
 Instrument ID: GC-21 Time Analyzed: 21:05
 GC Column: ID (mm): Length (M):

	IS1 (14DCBZ)		IS2 Acenaphthene-d10		IS3 Chrysene-d12		IS4 Naphthalene-d8	
	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	0	0.000	274268	12.120	367845	18.432	546589	9.911
UPPER LIMIT	0	0.500	548536	12.620	735690	18.932	1093178	10.411
LOWER LIMIT	0	-0.500	137134	11.620	183923	17.932	273295	9.411
SAMPLE NO.								
01 CCV-41418A	0	0	600043 *	11.936	670171	18.177	1.25999e+006 *	9.74

IS1 (14DCBZ) = 1,4-Dichlorobenzene-d4

IS3 Chrysene-d12 = Chrysene-d12

IS2 Acenaphthene-d10 = Acenaphthene-d10

IS4 Naphthalene-d8 = Naphthalene-d8

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-21 230908A CCV Name: PAH-S-SIM MDPT
 Run No: 86399 CCV SeqNo: 1803166
 Lab File ID (Standard): 073123.D Date Analyzed: 7/31/2023
 Instrument ID: GC-21 Time Analyzed: 21:05
 GC Column: ID (mm): Length (M):

	S5 Perylene-d12		S6 Phenanthrene-d10					
	AREA #	RT #	AREA #	RT #				
12 HOUR STD	439174	20.804	525269	13.985				
UPPER LIMIT	878348	21.304	1050538	14.485				
LOWER LIMIT	219587	20.304	262635	13.485				
SAMPLE NO.								
01 CCV-41418A	785240	20.515	1.07737e+006 *	13.797				

IS5 Perylene-d12 = Perylene-d12

IS6 Phenanthrene-d10 = Phenanthrene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-21 230908A

CCV Name: CCV-41418A

Run No: 86399

CCV SeqNo: 1803158

Lab File ID (Standard): 090704.D

Date Analyzed: 9/8/2023

Instrument ID: GC-21

Time Analyzed: 10:09

GC Column:

ID (mm):

Length (M):

	IS1 (14DCBZ)		IS2 Acenaphthene-d10		IS3 Chrysene-d12		IS4 Naphthalene-d8	
	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	0	0.000	600043	11.936	670171	18.177	1259991	9.740
UPPER LIMIT	0	0.500	1200086	12.436	1340342	18.677	2519982	10.240
LOWER LIMIT	0	-0.500	300022	11.436	335086	17.677	629996	9.240
SAMPLE NO.								
01 MB-41418	0	0	607595	11.936	686872	18.177	1.24178e+006	9.739
02 LCS-41418	0	0	573363	11.936	657787	18.177	1.17414e+006	9.739
03 2308436-001A	0	0	578223	11.936	652323	18.179	1.19165e+006	9.739
04 2308436-002A	0	0	540425	11.936	592949	18.176	1.12156e+006	9.739
05 2309041-001A	0	0	570055	11.936	637107	18.177	1.18095e+006	9.739
06 2309041-001AMS	0	0	568690	11.936	644874	18.177	1.17936e+006	9.739
07 2309041-001AMSD	0	0	580512	11.936	648373	18.184	1.2094e+006	9.739

IS1 (14DCBZ) = 1,4-Dichlorobenzene-d4

IS3 Chrysene-d12 = Chrysene-d12

IS2 Acenaphthene-d10 = Acenaphthene-d10

IS4 Naphthalene-d8 = Naphthalene-d8

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-21 230908A

CCV Name: CCV-41418A

Run No: 86399

CCV SeqNo: 1803158

Lab File ID (Standard): 090704.D

Date Analyzed: 9/8/2023

Instrument ID: GC-21

Time Analyzed: 10:09

GC Column: ID (mm):

Length (M):

	S5 Perylene-d12		S6 Phenanthrene-d10					
	AREA #	RT #	AREA #	RT #				
12 HOUR STD	785240	20.515	1077371	13.797				
UPPER LIMIT	1570480	21.015	2154742	14.297				
LOWER LIMIT	392620	20.015	538686	13.297				
SAMPLE NO.								
01 MB-41418	780868	20.515	1.10717e+006	13.797				
02 2308436-001A	737057	20.507	1.0256e+006	13.796				
03 2308436-002A	672260	20.514	942898	13.796				
04 2309041-001A	725307	20.515	1.03451e+006	13.797				
05 LCS-41418	767687	20.507	1.05927e+006	13.797				
06 2309041-001AMS	744648	20.515	1.04327e+006	13.797				
07 2309041-001AMSD	746507	20.513	1.02389e+006	13.796				

IS5 Perylene-d12 = Perylene-d12

IS6 Phenanthrene-d10 = Phenanthrene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

DATA SET for Review - Deliverable Requirements

Volatile Organic Compounds by EPA Method 8260D

Fremont Analytical Work Order No. 2308436

GeoEngineers

Project Name: S Jackson Street

Project Number: 24504-001-01

This data set contains the following:

- Analytical Sequence Summary
- Calibration Information
- Tune Information
- Internal Standards Report

Data Directory: D:\GC-27\DATA\082423\

SampleName	MiscInfo	Vial	Multiplier	Injection Time		
1) 082440.D No data found	8260B-0206-1.M		0.000	N/A		
2) 082337.D GX ICV	8260B-0206-1.M O-VOC-W	20	1.000	24 Aug 2023	08:30	am
3) 082338.D VOC W CCV	8260B-0206-1.M O-VOC-W	21	1.000	24 Aug 2023	09:00	am
4) 082339.D VOC S CCV	8260B-0206-1.M O-VOC-W	22	1.000	24 Aug 2023	09:31	am
5) 082340.D R	8260B-0206-1.M O-VOC-W		1.000	24 Aug 2023	09:59	am
6) 082346.D MB-41304	8260B-0206-1.M O-VOC-W	26	1.000	24 Aug 2023	02:00	pm
7) 082347.D 2308310-001A	8260B-0206-1.M O-VOC-W	27	1.000	24 Aug 2023	02:31	pm
8) 082348.D 2308310-002A	8260B-0206-1.M O-VOC-W	28	1.000	24 Aug 2023	03:01	pm
9) 082401.D R	8260B-0206-1.M O-VOC-W		1.000	24 Aug 2023	04:31	pm
10) 082402.D R	8260B-0206-1.M O-VOC-W		1.000	24 Aug 2023	05:00	pm
11) 082403.D 2308255-002A	8260B-0206-1.M O-VOC-W	29	1.000	24 Aug 2023	05:30	pm
12) 082404.D 2308255-012A	8260B-0206-1.M O-VOC-W	30	1.000	24 Aug 2023	06:01	pm
13) 082405.D 2308255-014A	8260B-0206-1.M O-VOC-W	31	1.000	24 Aug 2023	06:31	pm
14) 082406.D 2308313-001A	8260B-0206-1.M O-VOC-W	32	1.000	24 Aug 2023	07:01	pm
15) 082407.D 2308313-001ADUP	8260B-0206-1.M O-VOC-W	33	1.000	24 Aug 2023	07:31	pm
16) 082408.D 2308317-001A	8260B-0206-1.M O-VOC-W	34	1.000	24 Aug 2023	08:01	pm
17) 082409.D R	8260B-0206-1.M O-VOC-W		1.000	24 Aug 2023	08:30	pm
18) 082410.D VOC-W B	8260B-0206-1.M O-VOC-W	35	1.000	24 Aug 2023	09:00	pm
19) 082411.D GX-B	8260B-0206-1.M O-VOC-W	36	1.000	24 Aug 2023	09:30	pm
20) 082412.D R	8260B-0206-1.M O-VOC-W		1.000	24 Aug 2023	09:59	pm
21) 082413.D 2308313-002A	8260B-0206-1.M O-VOC-W	37	1.000	24 Aug 2023	10:29	pm

22)	082414.D		8260B-0206-1.M						
2308320-002A		O-VOC-W		38	1.000	24 Aug 2023	10:59	pm	
23)	082415.D		8260B-0206-1.M						
2308320-001A		O-VOC-W		39	1.000	24 Aug 2023	11:29	pm	
24)	082416.D		8260B-0206-1.M						
2308313-002AMS GX		O-VOC-W		40	1.000	24 Aug 2023	11:59	pm	
25)	082417.D		8260B-0206-1.M						
2308317-001AMS VOC		O-VOC-W		41	1.000	25 Aug 2023	12:30	am	
26)	082418.D		8260B-0206-1.M						
R		O-VOC-W			1.000	25 Aug 2023	12:58	am	
27)	082419.D		8260B-0206-1.M						
VOC-W C		O-VOC-W		42	1.000	25 Aug 2023	01:28	am	
28)	082420.D		8260B-0206-1.M						
GX-C		O-VOC-W		43	1.000	25 Aug 2023	01:59	am	
29)	082421.D		8260B-0206-1.M						
R		O-VOC-W			1.000	25 Aug 2023	02:27	am	
30)	082422.D		8260B-0206-1.M						
R		O-VOC-W			1.000	25 Aug 2023	02:56	am	
31)	082423.D		8260B-0206-1.M						
R		O-VOC-W			1.000	25 Aug 2023	03:25	am	
32)	082424.D		8260B-0206-1.M						
R		O-VOC-W			1.000	25 Aug 2023	03:54	am	
33)	082425.D		8260B-0206-1.M						
VOC-S ICAL1		O-VOC-S		44	1.000	25 Aug 2023	04:24	am	
34)	082426.D		8260B-0206-1.M						
VOC-S ICAL2		O-VOC-S		45	1.000	25 Aug 2023	04:54	am	
35)	082427.D		8260B-0206-1.M						
VOC-S ICAL3		O-VOC-S		46	1.000	25 Aug 2023	05:24	am	
36)	082428.D		8260B-0206-1.M						
VOC-S ICAL4		O-VOC-S		47	1.000	25 Aug 2023	05:54	am	
37)	082429.D		8260B-0206-1.M						
VOC-S ICAL5		O-VOC-S		48	1.000	25 Aug 2023	06:25	am	
38)	082430.D		8260B-0206-1.M						
VOC-S ICAL6		O-VOC-S		49	1.000	25 Aug 2023	06:55	am	
39)	082431.D		8260B-0206-1.M						
VOC-S ICAL7		O-VOC-S		50	1.000	25 Aug 2023	07:25	am	
40)	082432.D		8260B-0206-1.M						
VOC-S ICAL8		O-VOC-S		51	1.000	25 Aug 2023	07:55	am	
41)	082433.D		8260B-0206-1.M						
R		O-VOC-W			1.000	25 Aug 2023	08:24	am	
42)	082434.D		8260B-0206-1.M						
R		O-VOC-W			1.000	25 Aug 2023	08:53	am	
43)	082435.D		8260B-0206-1.M						
ICB		O-VOC-S		52	1.000	25 Aug 2023	09:23	am	
44)	082436.D		8260B-0206-1.M						
ICV		O-VOC-S		53	1.000	25 Aug 2023	09:53	am	
45)	082437.D		8260B-0206-1.M						

GX	CCV A	O-VOC-GX-S	54	1.000	25 Aug 2023	10:23	am

46)	082438.D	8260B-0206-1.M					
R		O-VOC-S		1.000	25 Aug 2023	10:52	am

47)	082439.D	8260B-0206-1.M					
MB		O-VOC-S	55	1.000	25 Aug 2023	11:22	am

Data Directory: D:\GC-27\DATA\082923\

SampleName	MiscInfo	Vial	Multiplier	Injection Time	
1) 090103.D No data found	8260B-0206-1.M		0.000	N/A	
2) 082901.D R	8260B-0206-1.M O-VOC-W		1.000	29 Aug 2023	12:53 pm
3) 082902.D VOC W CCV A	8260B-0206-1.M O-VOC-W	36	1.000	29 Aug 2023	01:23 pm
4) 082903.D GX CCV A	8260B-0206-1.M O-VOC-GX-W	37	1.000	29 Aug 2023	01:53 pm
5) 082904.D R	8260B-0206-1.M O-VOC-GX-S		1.000	29 Aug 2023	02:22 pm
6) 082905.D instrument blank	8260B-0206-1.M O-VOC-W	38	1.000	29 Aug 2023	02:52 pm
7) 082906.D 2308302-002A 10x	8260B-0206-1.M O-VOC-W	39	1.000	29 Aug 2023	03:30 pm
8) 082907.D 2308302-004A 10x	8260B-0206-1.M O-VOC-W	40	1.000	29 Aug 2023	04:00 pm
9) 082908.D 2308302-006A 10x	8260B-0206-1.M O-VOC-W	41	1.000	29 Aug 2023	04:30 pm
10) 082909.D 2308302-007A 10x	8260B-0206-1.M O-VOC-W	42	1.000	29 Aug 2023	05:00 pm
11) 082910.D 2308302-008A 100x	8260B-0206-1.M O-VOC-W	43	1.000	29 Aug 2023	05:31 pm
12) 082911.D 2308302-008A 50x	8260B-0206-1.M O-VOC-W	44	1.000	29 Aug 2023	06:01 pm
13) 082912.D R	8260B-0206-1.M O-VOC-W		1.000	29 Aug 2023	06:29 pm
14) 082913.D 2308302-008A 1000x	8260B-0206-1.M O-VOC-W	45	1.000	29 Aug 2023	07:00 pm
15) 082914.D 2308302-011A 50x	8260B-0206-1.M O-VOC-W	46	1.000	29 Aug 2023	07:30 pm
16) 082915.D 2308302-012A 50x	8260B-0206-1.M O-VOC-W	47	1.000	29 Aug 2023	08:00 pm
17) 082916.D 2308302-011A 20x	8260B-0206-1.M O-VOC-W	48	1.000	29 Aug 2023	08:30 pm
18) 082917.D 2308302-012A 20x	8260B-0206-1.M O-VOC-W	49	1.000	29 Aug 2023	09:00 pm
19) 082918.D R	8260B-0206-1.M O-VOC-W		1.000	29 Aug 2023	09:29 pm
20) 082919.D CCV-41347A VOC	8260B-0206-1.M O-VOC-W	50	1.000	29 Aug 2023	09:59 pm
21) 082920.D GX CCV B	8260B-0206-1.M O-VOC-S	51	1.000	29 Aug 2023	10:29 pm

22)	082921.D		8260B-0206-1.M							
R		O-VOC-S		1.000	29 Aug 2023	10:58	pm			
23)	082922.D		8260B-0206-1.M							
MB-41347		O-VOC-S	52	1.000	29 Aug 2023	11:28	pm			
24)	082923.D		8260B-0206-1.M							
2308377-002B		O-VOC-S	53	1.000	29 Aug 2023	11:58	pm			
25)	082924.D		8260B-0206-1.M							
2308377-002BDUP		O-VOC-S	54	1.000	30 Aug 2023	12:29	am			
26)	082925.D		8260B-0206-1.M							
2308377-003B		O-VOC-S	55	1.000	30 Aug 2023	12:59	am			
27)	082926.D		8260B-0206-1.M							
2308377-006B		O-VOC-S	56	1.000	30 Aug 2023	01:29	am			
28)	082927.D		8260B-0206-1.M							
2308377-006BDUP		O-VOC-S	57	1.000	30 Aug 2023	01:59	am			
29)	082928.D		8260B-0206-1.M							
2308377-007B		O-VOC-S	58	1.000	30 Aug 2023	02:29	am			
30)	082929.D		8260B-0206-1.M							
2308377-008B		O-VOC-S	59	1.000	30 Aug 2023	02:59	am			
31)	082930.D		8260B-0206-1.M							
2308377-009B		O-VOC-S	60	1.000	30 Aug 2023	03:30	am			
32)	082931.D		8260B-0206-1.M							
2308377-013B		O-VOC-S	61	1.000	30 Aug 2023	04:00	am			
33)	082932.D		8260B-0206-1.M							
2308377-014B		O-VOC-S	62	1.000	30 Aug 2023	04:30	am			
34)	082933.D		8260B-0206-1.M							
2308377-016B		O-VOC-S	63	1.000	30 Aug 2023	05:00	am			
35)	082934.D		8260B-0206-1.M							
2308377-017B		O-VOC-S	64	1.000	30 Aug 2023	05:30	am			
36)	082935.D		8260B-0206-1.M							
2308377-018B		O-VOC-S	65	1.000	30 Aug 2023	06:00	am			
37)	082936.D		8260B-0206-1.M							
2308377-003BMS VOC		O-VOC-S	66	1.000	30 Aug 2023	06:31	am			
38)	082937.D		8260B-0206-1.M							
2308377-007BMS GX		O-VOC-S	67	1.000	30 Aug 2023	07:01	am			
39)	082938.D		8260B-0206-1.M							
R		O-VOC-W		1.000	30 Aug 2023	07:30	am			
40)	082939.D		8260B-0206-1.M							
R		O-VOC-W		1.000	30 Aug 2023	07:58	am			
41)	082940.D		8260B-0206-1.M							
CCV-41347B VOC		O-VOC-W	68	1.000	30 Aug 2023	08:29	am			
42)	082941.D		8260B-0206-1.M							
CCV-41347B GX		O-VOC-S	69	1.000	30 Aug 2023	08:59	am			
43)	082942.D		8260B-0206-1.M							
R		O-VOC-GX-S		1.000	30 Aug 2023	09:27	am			
44)	082943.D		8260B-0206-1.M							
2308302-012A 100X		O-VOC-W	74	1.000	30 Aug 2023	09:58	am			
45)	082944.D		8260B-0206-1.M							

2308302-012A	500X	O-VOC-W	75	1.000	30 Aug 2023	10:28	am
46)	082945.D	8260B-0206-1.M					
2308302-011A	500X	O-VOC-W	76	1.000	30 Aug 2023	10:58	am
47)	082946.D	8260B-0206-1.M					
2308377-003B	RR	O-VOC-S	77	1.000	30 Aug 2023	11:28	am
48)	082947.D	8260B-0206-1.M					
2308377-002B	10x	O-VOC-S	78	1.000	30 Aug 2023	11:59	am
49)	082948.D	8260B-0206-1.M					
2308383-001B	20X	O-VOC-S	70	1.000	30 Aug 2023	12:29	pm
50)	082949.D	8260B-0206-1.M					
2308384-001B	20X	O-VOC-S	71	1.000	30 Aug 2023	01:00	pm
51)	082950.D	8260B-0206-1.M					
2308356-001B	10000..	O-VOC-S	72	1.000	30 Aug 2023	01:30	pm
52)	082951.D	8260B-0206-1.M					
R		O-VOC-GX-S		1.000	30 Aug 2023	01:59	pm
53)	082952.D	8260B-0206-1.M					
R		O-VOC-GX-S		1.000	30 Aug 2023	02:27	pm
54)	082953.D	8260B-0206-1.M					
R		O-VOC-GX-S		1.000	30 Aug 2023	02:56	pm
55)	082954.D	8260B-0206-1.M					
2308384-001B	100x	O-VOC-S	79	1.000	30 Aug 2023	03:26	pm
56)	082955.D	8260B-0206-1.M					
R		O-VOC-GX-S		1.000	30 Aug 2023	03:55	pm
57)	082956.D	8260B-0206-1.M					
CCV-41347C	GX	O-VOC-GX-S	73	1.000	30 Aug 2023	04:25	pm
58)	082957.D	8260B-0206-1.M					
r		O-VOC-GX-S		1.000	30 Aug 2023	04:54	pm
59)	082958.D	8260B-0206-1.M					
2308356-001B	100000X	O-VOC-S	80	1.000	30 Aug 2023	05:24	pm
60)	082959.D	8260B-0206-1.M					
2308356-001B	10000X	O-VOC-S	81	1.000	30 Aug 2023	05:55	pm
61)	082960.D	8260B-0206-1.M					
r		O-VOC-S		1.000	30 Aug 2023	06:23	pm
62)	082961.D	8260B-0206-1.M					
r		O-VOC-S		1.000	30 Aug 2023	06:52	pm
63)	082962.D	8260B-0206-1.M					
r		O-VOC-S		1.000	30 Aug 2023	07:21	pm
64)	082963.D	8260B-0206-1.M					
r		O-VOC-S		1.000	30 Aug 2023	07:50	pm
65)	082964.D	8260B-0206-1.M					
2308383-001B	100X	O-VOC-S	82	1.000	30 Aug 2023	08:20	pm
66)	082965.D	8260B-0206-1.M					
r		O-VOC-S		1.000	30 Aug 2023	08:49	pm
67)	082966.D	8260B-0206-1.M					
r		O-VOC-S		1.000	30 Aug 2023	09:17	pm
68)	082967.D	8260B-0206-1.M					
r		O-VOC-S		1.000	30 Aug 2023	09:46	pm

69)	082968.D		8260B-0206-1.M						
r		O-VOC-S		1.000	30 Aug 2023	10:15	pm		
70)	082969.D		8260B-0206-1.M						
r		O-VOC-S		1.000	30 Aug 2023	10:44	pm		
71)	082970.D		8260B-0206-1.M						
GX CCV D		O-VOC-S	83	1.000	30 Aug 2023	11:14	pm		
72)	082971.D		8260B-0206-1.M						
r		O-VOC-S		1.000	30 Aug 2023	11:43	pm		
73)	082972.D		8260B-0206-1.M						
r		O-VOC-S		1.000	31 Aug 2023	12:11	am		
74)	082973.D		8260B-0206-1.M						
r		O-VOC-S		1.000	31 Aug 2023	12:40	am		
75)	082974.D		8260B-0206-1.M						
r		O-VOC-S		1.000	31 Aug 2023	09:10	am		
76)	082975.D		8260B-0206-1.M						
2308383-001B 100X		O-VOC-S	1	1.000	31 Aug 2023	09:40	am		
77)	082976.D		8260B-0206-1.M						
r		O-VOC-S		1.000	31 Aug 2023	10:09	am		
78)	082977.D		8260B-0206-1.M						
GX CCV E		O-VOC-S	2	1.000	31 Aug 2023	10:39	am		
79)	082978.D		8260B-0206-1.M						
r		O-VOC-S		1.000	31 Aug 2023	11:08	am		
80)	082979.D		8260B-0206-1.M						
MB-S		O-VOC-GX-S	3	1.000	31 Aug 2023	12:00	pm		
81)	082980.D		8260B-0206-1.M						
2308427-001B		O-VOC-GX-S	4	1.000	31 Aug 2023	12:30	pm		
82)	082981.D		8260B-0206-1.M						
2308427-002B		O-VOC-GX-S	5	1.000	31 Aug 2023	01:00	pm		
83)	082983.D		8260B-0206-1.M						
2308427-002B		O-VOC-GX-S	6	1.000	31 Aug 2023	02:50	pm		
84)	082984.D		8260B-0206-1.M						
2308427-002BDUP		O-VOC-GX-S	7	1.000	31 Aug 2023	03:20	pm		
85)	082985.D		8260B-0206-1.M						
2308427-003B		O-VOC-GX-S	8	1.000	31 Aug 2023	03:50	pm		
86)	082986.D		8260B-0206-1.M						
2308427-003BDUP		O-VOC-GX-S	9	1.000	31 Aug 2023	04:20	pm		
87)	082987.D		8260B-0206-1.M						
2308427-004B		O-VOC-GX-S	10	1.000	31 Aug 2023	04:50	pm		
88)	082988.D		8260B-0206-1.M						
2308427-005B		O-VOC-GX-S	11	1.000	31 Aug 2023	05:21	pm		
89)	082989.D		8260B-0206-1.M						
2308427-006B		O-VOC-GX-S	12	1.000	31 Aug 2023	05:51	pm		
90)	082990.D		8260B-0206-1.M						
2308427-007B		O-VOC-GX-S	13	1.000	31 Aug 2023	06:21	pm		
91)	082991.D		8260B-0206-1.M						
2308427-008B		O-VOC-GX-S	14	1.000	31 Aug 2023	06:51	pm		

92) 082992.D 2308427-009B	8260B-0206-1.M O-VOC-GX-S	15	1.000	31 Aug 2023	07:21 pm
93) 082993.D 2308427-010B	8260B-0206-1.M O-VOC-GX-S	16	1.000	31 Aug 2023	07:51 pm
94) 082994.D 2308427-001BMS GX	8260B-0206-1.M O-VOC-GX-S	21	1.000	31 Aug 2023	08:21 pm
95) 082995.D R	8260B-0206-1.M O-VOC-GX-S		1.000	31 Aug 2023	08:50 pm
96) 082996.D GX CCV F	8260B-0206-1.M O-VOC-GX-S	22	1.000	31 Aug 2023	09:20 pm
97) 082997.D R	8260B-0206-1.M O-VOC-GX-S		1.000	31 Aug 2023	09:49 pm
98) 082998.D 2308427-011B	8260B-0206-1.M O-VOC-GX-S	17	1.000	31 Aug 2023	10:19 pm
99) 082999.D 2308427-012B	8260B-0206-1.M O-VOC-GX-S	18	1.000	31 Aug 2023	10:49 pm
100) 083000.D 2308427-013B	8260B-0206-1.M O-VOC-GX-S	19	1.000	31 Aug 2023	11:19 pm
101) 083001.D 2308427-014B	8260B-0206-1.M O-VOC-GX-S	20	1.000	31 Aug 2023	11:50 pm
102) 083002.D 2308427-015B	8260B-0206-1.M O-VOC-GX-S	23	1.000	01 Sep 2023	12:20 am
103) 083003.D 2308427-016B	8260B-0206-1.M O-VOC-GX-S	24	1.000	01 Sep 2023	12:50 am
104) 083004.D 2308427-017B	8260B-0206-1.M O-VOC-GX-S	25	1.000	01 Sep 2023	01:20 am
105) 083005.D 2308427-018B	8260B-0206-1.M O-VOC-GX-S	26	1.000	01 Sep 2023	01:50 am
106) 083006.D 2308427-019B	8260B-0206-1.M O-VOC-GX-S	27	1.000	01 Sep 2023	02:20 am
107) 083007.D 2308427-020B	8260B-0206-1.M O-VOC-GX-S	28	1.000	01 Sep 2023	02:50 am
108) 083008.D R	8260B-0206-1.M O-VOC-GX-S		1.000	01 Sep 2023	03:19 am
109) 083011.D VOC S CCV D	8260B-0206-1.M O-VOC-S	29	1.000	01 Sep 2023	03:48 am
110) 083012.D GX CCV G	8260B-0206-1.M O-VOC-GX-S	30	1.000	01 Sep 2023	04:17 am
111) 083013.D R	8260B-0206-1.M O-VOC-GX-S		1.000	01 Sep 2023	04:47 am
112) 083014.D MB-41373	8260B-0206-1.M O-VOC-S	31	1.000	01 Sep 2023	05:17 am
113) 083015.D 2308436-007B	8260B-0206-1.M O-VOC-S	32	1.000	01 Sep 2023	05:46 am
114) 083016.D 2308286-006B	8260B-0206-1.M O-VOC-S	33	1.000	01 Sep 2023	06:16 am
115) 083017.D	8260B-0206-1.M				

2308436-001B	O-VOC-S	8260B-0206-1.M	34	1.000	01 Sep 2023	06:46 am

116) 083018.D		8260B-0206-1.M				
2308436-002B	O-VOC-S		35	1.000	01 Sep 2023	07:16 am

117) 083019.D		8260B-0206-1.M				
2308436-002BDUP	O-VOC-S		36	1.000	01 Sep 2023	07:46 am

118) 083020.D		8260B-0206-1.M				
2308436-003B	O-VOC-S		37	1.000	01 Sep 2023	08:16 am

119) 083021.D		8260B-0206-1.M				
2308436-002BDUP REAL	O-VOC-S		36	1.000	01 Sep 2023	08:47 am

120) 083022.D		8260B-0206-1.M				
2308436-003B REAL	O-VOC-S		37	1.000	01 Sep 2023	09:17 am

121) 083023.D		8260B-0206-1.M				
2308436-005B 10X	O-VOC-S		38	1.000	01 Sep 2023	09:47 am

122) 083024.D		8260B-0206-1.M				
R	O-VOC-S			1.000	01 Sep 2023	10:16 am

123) 083025.D		8260B-0206-1.M				
2308436-004B	O-VOC-S		39	1.000	01 Sep 2023	10:46 am

124) 083026.D		8260B-0206-1.M				
2308436-004BDUP	O-VOC-S		40	1.000	01 Sep 2023	11:16 am

125) 083027.D		8260B-0206-1.M				
R	O-VOC-S			1.000	01 Sep 2023	11:45 am

126) 083028.D		8260B-0206-1.M				
2308436-006B	O-VOC-S		41	1.000	01 Sep 2023	12:15 pm

127) 083032.D		8260B-0206-1.M				
R	O-VOC-S			1.000	01 Sep 2023	12:44 pm

128) 083033.D		8260B-0206-1.M				
2308436-001BMS VOC	O-VOC-S		43	1.000	01 Sep 2023	01:14 pm

129) 083034.D		8260B-0206-1.M				
2308436-003BMS GX	O-VOC-S		44	1.000	01 Sep 2023	01:44 pm

130) 083035.D		8260B-0206-1.M				
R	O-VOC-S			1.000	01 Sep 2023	02:13 pm

131) 090101.D		8260B-0206-1.M				
VOC S CCV E	O-VOC-S		1	1.000	01 Sep 2023	02:43 pm

132) 090102.D		8260B-0206-1.M				
GX CCV H	O-VOC-S		2	1.000	01 Sep 2023	03:13 pm

Data Directory: D:\GC-27\DATA\090523\

SampleName	MiscInfo	Vial	Multiplier	Injection Time
R 1) 090501.D	8260B-0206-1.M O-VOC-S		1.000	05 Sep 2023 08:49 am
VOC S CCV A 2) 090502.D	8260B-0206-1.M O-VOC-S	1	1.000	05 Sep 2023 09:19 am
CGX CCV A 3) 090503.D	8260B-0206-1.M O-VOC-S	2	1.000	05 Sep 2023 09:49 am
1122 TETRA breakdo.. 4) 090504.D	8260B-0206-1.M O-VOC-S	3	1.000	05 Sep 2023 10:19 am
VOC S CCV AA 5) 090505.D	8260B-0206-1.M O-VOC-S	15	1.000	05 Sep 2023 10:49 am
R 6) 090506.D	8260B-0206-1.M O-VOC-S		1.000	05 Sep 2023 11:18 am
VOC S CCV new std 7) 090507.D	8260B-0206-1.M O-VOC-S	16	1.000	05 Sep 2023 11:48 am
R 8) 090508.D	8260B-0206-1.M O-VOC-S		1.000	05 Sep 2023 12:17 pm
MB S 9) 090509.D	8260B-0206-1.M O-VOC-S	4	1.000	05 Sep 2023 12:47 pm
2308436-004B 5x 10) 090515.D	8260B-0206-1.M O-VOC-S	5	1.000	05 Sep 2023 01:17 pm
2308436-005B 5x 11) 090516.D	8260B-0206-1.M O-VOC-S	6	1.000	05 Sep 2023 01:47 pm
2308436-003B 50x 12) 090517.D	8260B-0206-1.M O-VOC-S	7	1.000	05 Sep 2023 02:17 pm
R 13) 090518.D	8260B-0206-1.M O-VOC-S		1.000	05 Sep 2023 02:46 pm
R 14) 090523.D	8260B-0206-1.M O-VOC-S		1.000	05 Sep 2023 03:15 pm
R 15) 090524.D	8260B-0206-1.M O-VOC-S		1.000	05 Sep 2023 03:44 pm
gx ccv b 16) 090525.D	8260B-0206-1.M O-VOC-S	8	1.000	05 Sep 2023 04:13 pm
R 17) 090526.D	8260B-0206-1.M O-VOC-S		1.000	05 Sep 2023 04:45 pm
R 18) 090527.D	8260B-0206-1.M O-VOC-S		1.000	05 Sep 2023 05:13 pm
R 19) 090528.D	8260B-0206-1.M O-VOC-S		1.000	05 Sep 2023 05:42 pm
R 20) 090529.D	8260B-0206-1.M O-VOC-S		1.000	05 Sep 2023 06:11 pm
R 21) 090530.D	8260B-0206-1.M O-VOC-S		1.000	05 Sep 2023 06:40 pm

22)	090531.D	8260B-0206-1.M					
VOC S	CAL 1	O-VOC-S	9	1.000	05 Sep 2023	07:10	pm

23)	090532.D	8260B-0206-1.M					
VOC S	CAL 2	O-VOC-S	10	1.000	05 Sep 2023	07:40	pm

24)	090533.D	8260B-0206-1.M					
VOC S	CAL 3	O-VOC-S	11	1.000	05 Sep 2023	08:10	pm

25)	090534.D	8260B-0206-1.M					
VOC S	CAL 4	O-VOC-S	12	1.000	05 Sep 2023	08:40	pm

26)	090535.D	8260B-0206-1.M					
VOC S	CAL 5	O-VOC-S	13	1.000	05 Sep 2023	09:10	pm

27)	090536.D	8260B-0206-1.M					
VOC S	CAL 6	O-VOC-S	14	1.000	05 Sep 2023	09:41	pm

28)	090537.D	8260B-0206-1.M					
VOC S	CAL 7	O-VOC-S	15	1.000	05 Sep 2023	10:11	pm

29)	090538.D	8260B-0206-1.M					
VOC S	CAL 8	O-VOC-S	16	1.000	05 Sep 2023	10:41	pm

30)	090539.D	8260B-0206-1.M					
R		O-VOC-S		1.000	05 Sep 2023	11:10	pm

31)	090540.D	8260B-0206-1.M					
R		O-VOC-S		1.000	05 Sep 2023	11:38	pm

32)	090541.D	8260B-0206-1.M					
VOC S	CAL 11	O-VOC-S	17	1.000	06 Sep 2023	12:09	am

33)	090542.D	8260B-0206-1.M					
VOC S	CAL 12	O-VOC-S	18	1.000	06 Sep 2023	12:39	am

34)	090543.D	8260B-0206-1.M					
R		O-VOC-S		1.000	06 Sep 2023	01:08	am

35)	090544.D	8260B-0206-1.M					
R		O-VOC-S		1.000	06 Sep 2023	01:36	am

36)	090545.D	8260B-0206-1.M					
R		O-VOC-S		1.000	06 Sep 2023	02:05	am

37)	090546.D	8260B-0206-1.M					
R		O-VOC-S		1.000	06 Sep 2023	02:34	am



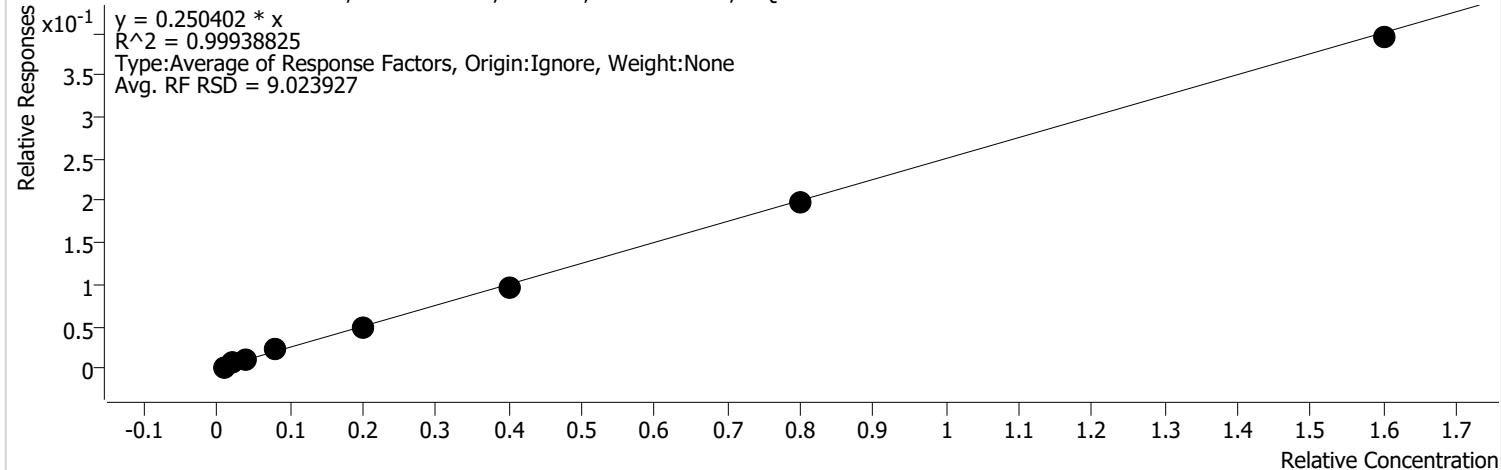
Calibration

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin		
Analysis Time	8/25/2023 11:50 AM	Analyst Name	FA\GC27
Report Time	8/25/2023 11:58:28 AM	Reporter Name	FA\GC27
Last Calib Update	8/25/2023 8:36 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Dichlorodifluoromethane %RSE = 9.0

Dichlorodifluoromethane - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



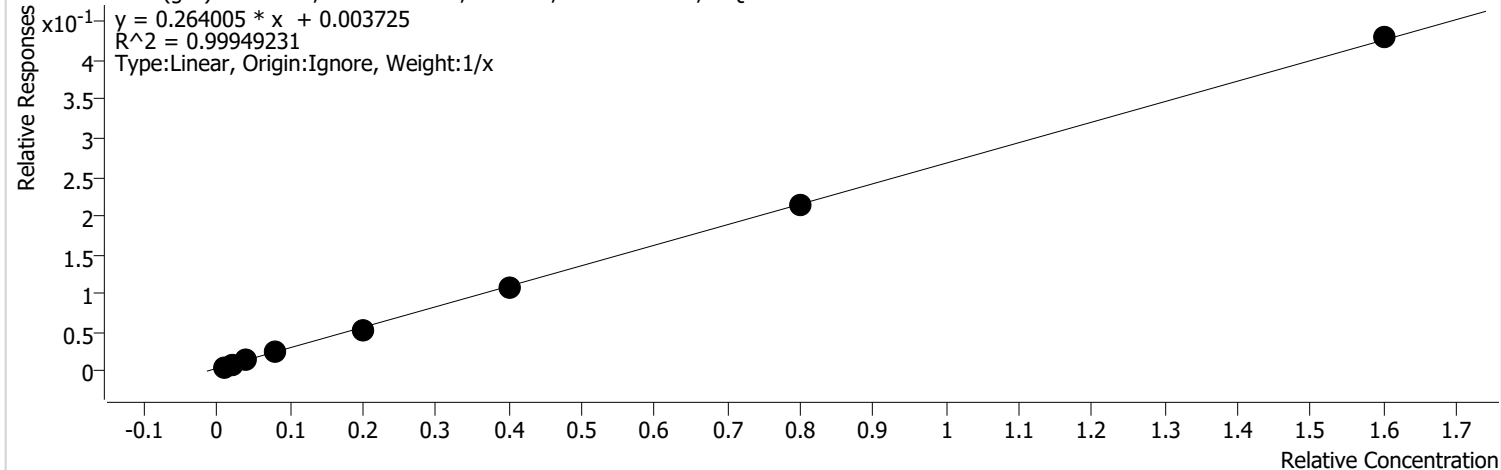
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	3554	0.2000	0.2137	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	11614	0.5000	0.2826	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	21586	1.0000	0.2574	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	47941	2.0000	0.2794	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	104727	5.0000	0.2379	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	213551	10.0000	0.2398	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	449195	20.0000	0.2458	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	920715	40.0000	0.2466	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin		
Analysis Time	8/25/2023 11:50 AM	Analyst Name	FA\GC27
Report Time	8/25/2023 11:58:29 AM	Reporter Name	FA\GC27
Last Calib Update	8/25/2023 8:36 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Chloromethane (gas) %RSE = 6.1

Chloromethane (gas) - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

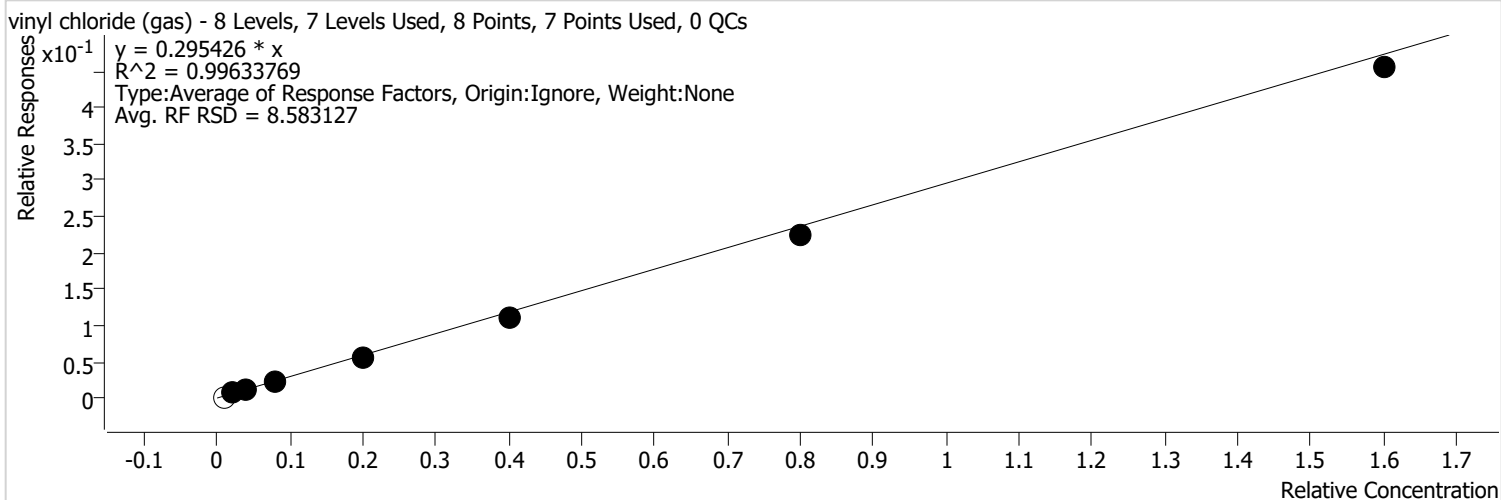


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	11707	0.2000	0.7038	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	19033	0.5000	0.4631	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	30831	1.0000	0.3676	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	56727	2.0000	0.3306	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	118527	5.0000	0.2693	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	237925	10.0000	0.2672	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	490965	20.0000	0.2687	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	1001431	40.0000	0.2682	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin		
Analysis Time	8/25/2023 11:50 AM	Analyst Name	FA\GC27
Report Time	8/25/2023 11:58:29 AM	Reporter Name	FA\GC27
Last Calib Update	8/25/2023 8:36 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

vinyl chloride (gas) %RSE = 8.6



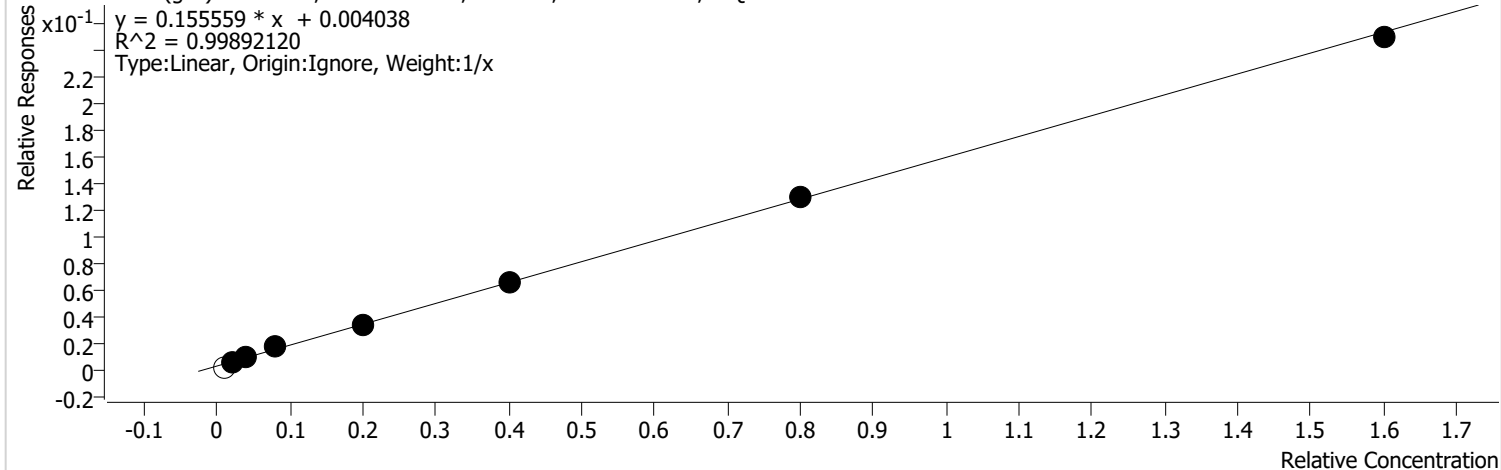
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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D:\GC-27\DATA\082423\082426.D	Calibration	2	x	13848	0.5000	0.3369	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	26909	1.0000	0.3209	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	51747	2.0000	0.3016	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	118604	5.0000	0.2695	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	245195	10.0000	0.2754	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	511366	20.0000	0.2799	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	1060089	40.0000	0.2839	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin		
Analysis Time	8/25/2023 11:50 AM	Analyst Name	FA\GC27
Report Time	8/25/2023 11:58:29 AM	Reporter Name	FA\GC27
Last Calib Update	8/25/2023 8:36 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Bromomethane (gas) %RSE = 9.4

Bromomethane (gas) - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 0 QCs

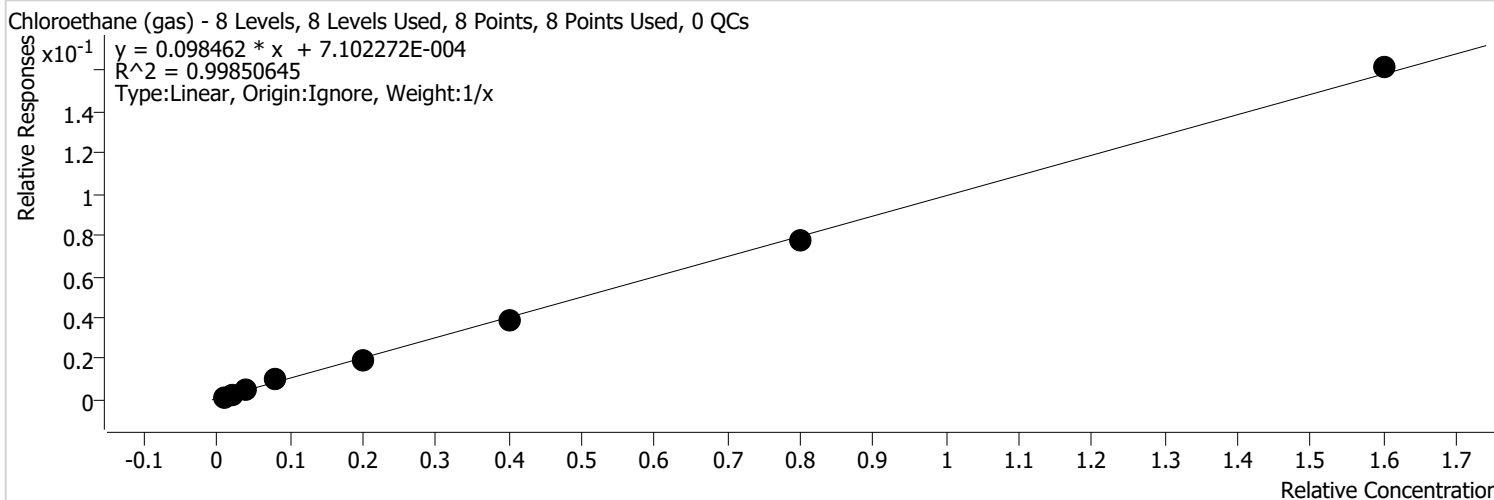


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1		7143	0.2000	0.4295	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	13742	0.5000	0.3343	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	21393	1.0000	0.2551	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	39205	2.0000	0.2285	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	77248	5.0000	0.1755	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	149817	10.0000	0.1683	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	297746	20.0000	0.1629	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	580560	40.0000	0.1555	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin		
Analysis Time	8/25/2023 11:50 AM	Analyst Name	FA\GC27
Report Time	8/25/2023 11:58:29 AM	Reporter Name	FA\GC27
Last Calib Update	8/25/2023 8:36 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Chloroethane (gas) %RSE = 7.8



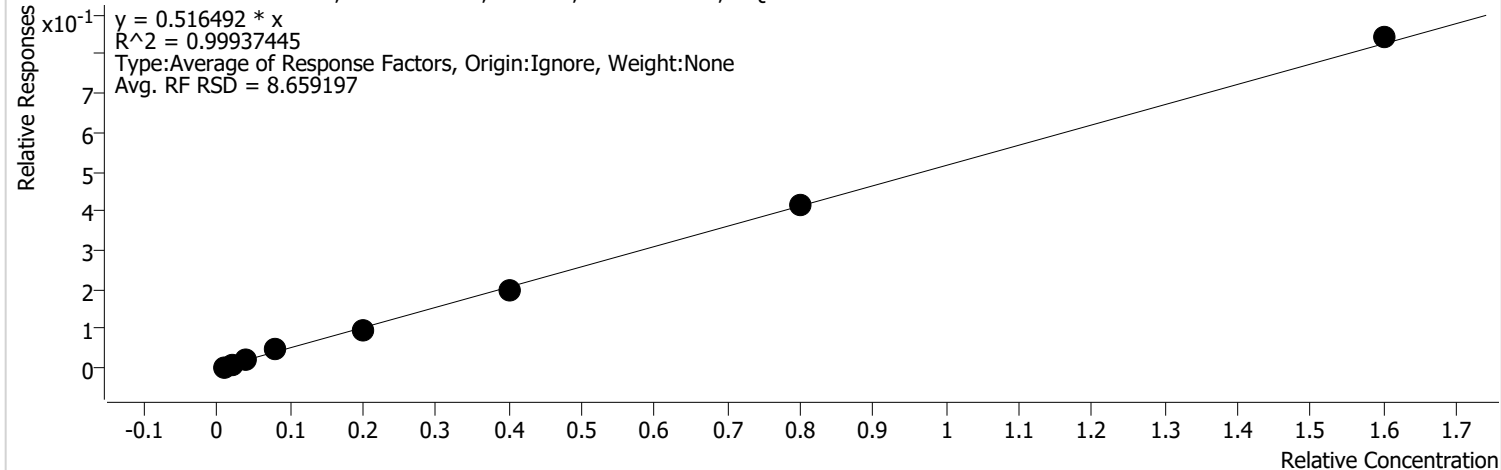
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	3120	0.2000	0.1876	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	5366	0.5000	0.1306	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	9231	1.0000	0.1101	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	21244	2.0000	0.1238	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	43463	5.0000	0.0988	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	86409	10.0000	0.0970	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	176592	20.0000	0.0966	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	376488	40.0000	0.1008	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin		
Analysis Time	8/25/2023 11:50 AM	Analyst Name	FA\GC27
Report Time	8/25/2023 11:58:29 AM	Reporter Name	FA\GC27
Last Calib Update	8/25/2023 8:36 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Trichlorofluoromethane %RSE = 8.7

Trichlorofluoromethane - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



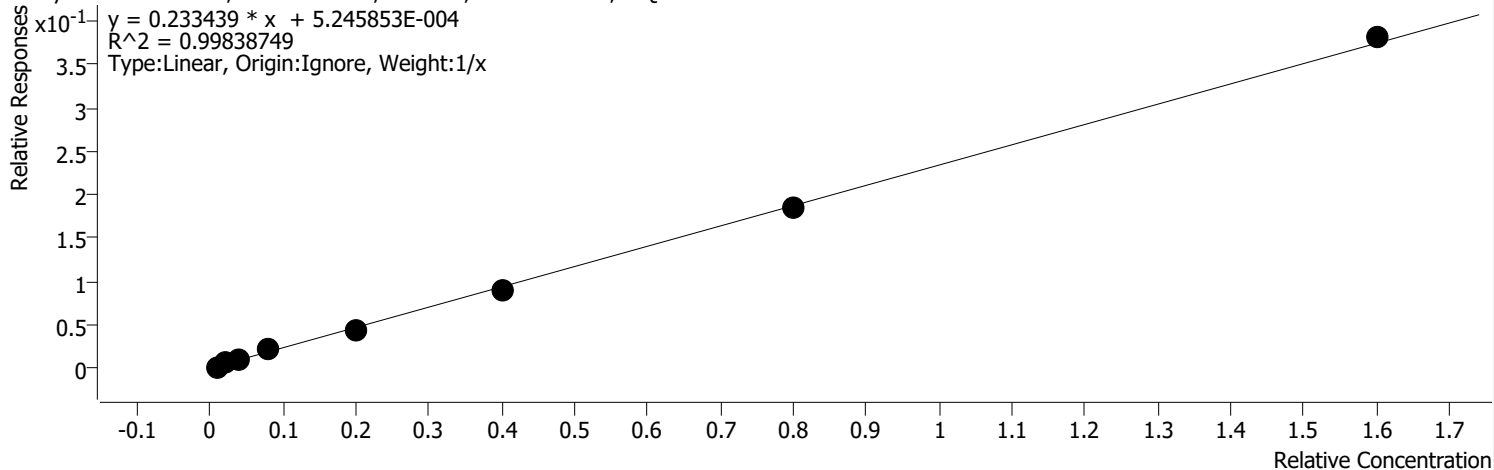
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	7164	0.2000	0.4307	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	22049	0.5000	0.5365	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	47068	1.0000	0.5613	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	98283	2.0000	0.5727	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	218444	5.0000	0.4963	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	438636	10.0000	0.4926	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	942235	20.0000	0.5157	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	1964629	40.0000	0.5262	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin	Analyst Name	FA\GC27
Analysis Time	8/25/2023 11:50 AM	Reporter Name	FA\GC27
Report Time	8/25/2023 11:58:29 AM	Batch State	Processed
Last Calib Update	8/25/2023 8:36 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Diethyl ether %RSE = 13.5

Diethyl ether - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

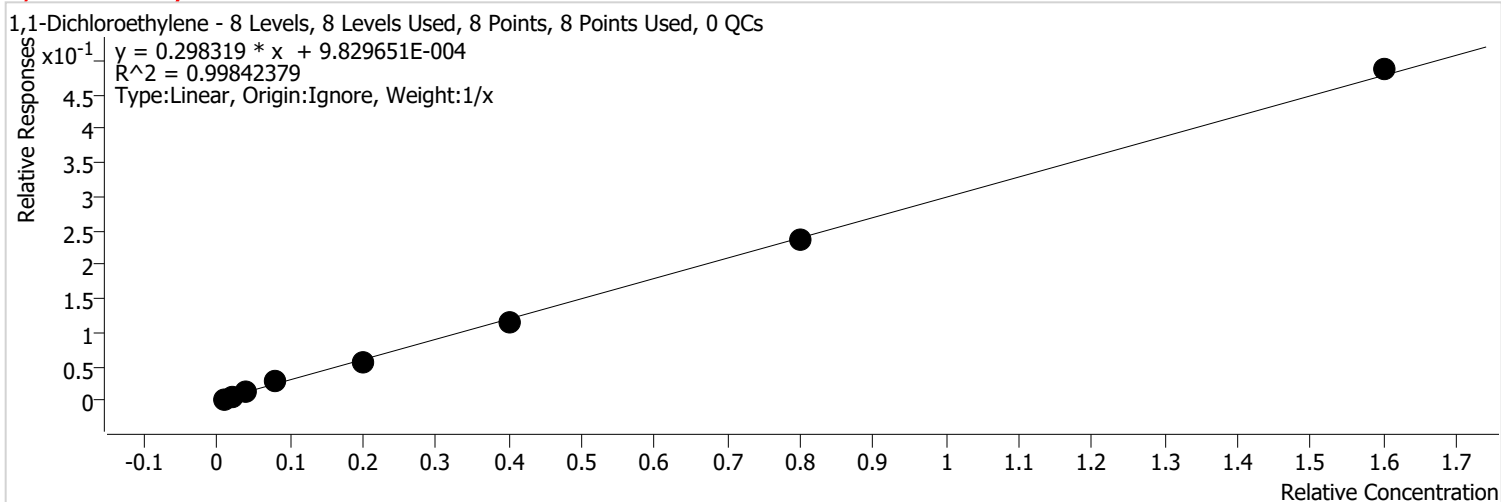


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	4060	0.2000	0.2441	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	12367	0.5000	0.3009	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	22227	1.0000	0.2650	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	44939	2.0000	0.2619	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	95952	5.0000	0.2180	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	199145	10.0000	0.2236	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	425028	20.0000	0.2326	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	887654	40.0000	0.2377	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin		
Analysis Time	8/25/2023 11:50 AM	Analyst Name	FA\GC27
Report Time	8/25/2023 11:58:29 AM	Reporter Name	FA\GC27
Last Calib Update	8/25/2023 8:36 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,1-Dichloroethylene %RSE = 10.7



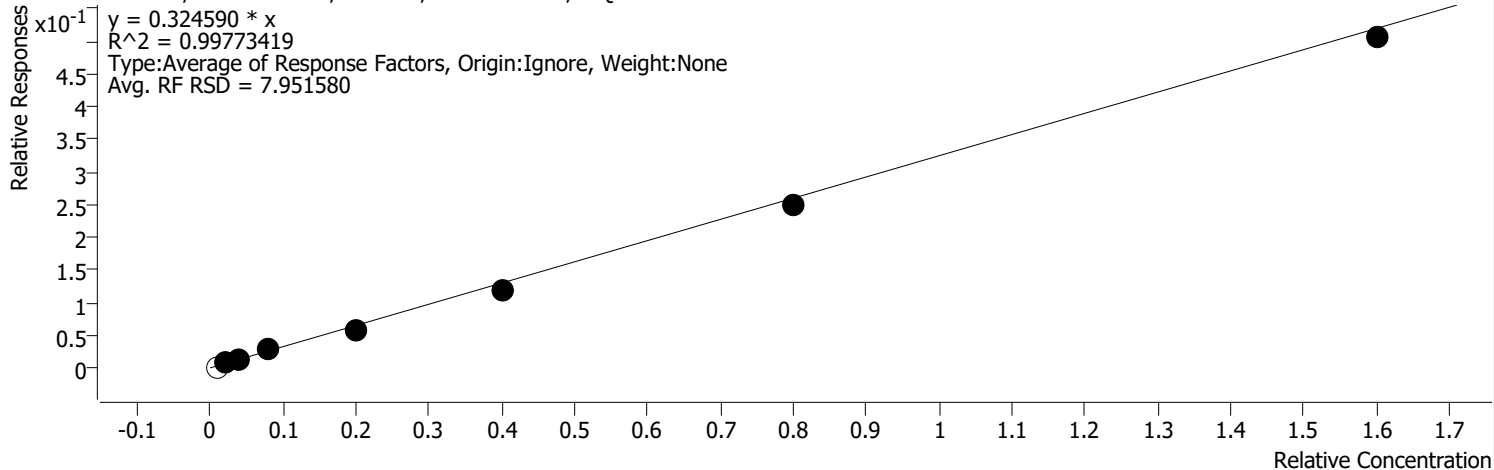
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	6186	0.2000	0.3719	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	14260	0.5000	0.3469	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	30518	1.0000	0.3639	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	60004	2.0000	0.3497	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	125549	5.0000	0.2853	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	257054	10.0000	0.2887	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	537224	20.0000	0.2940	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	1135946	40.0000	0.3042	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin		
Analysis Time	8/25/2023 11:50 AM	Analyst Name	FA\GC27
Report Time	8/25/2023 11:58:29 AM	Reporter Name	FA\GC27
Last Calib Update	8/25/2023 8:36 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

CFC 113 %RSE = 8.0

CFC 113 - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 0 QCs



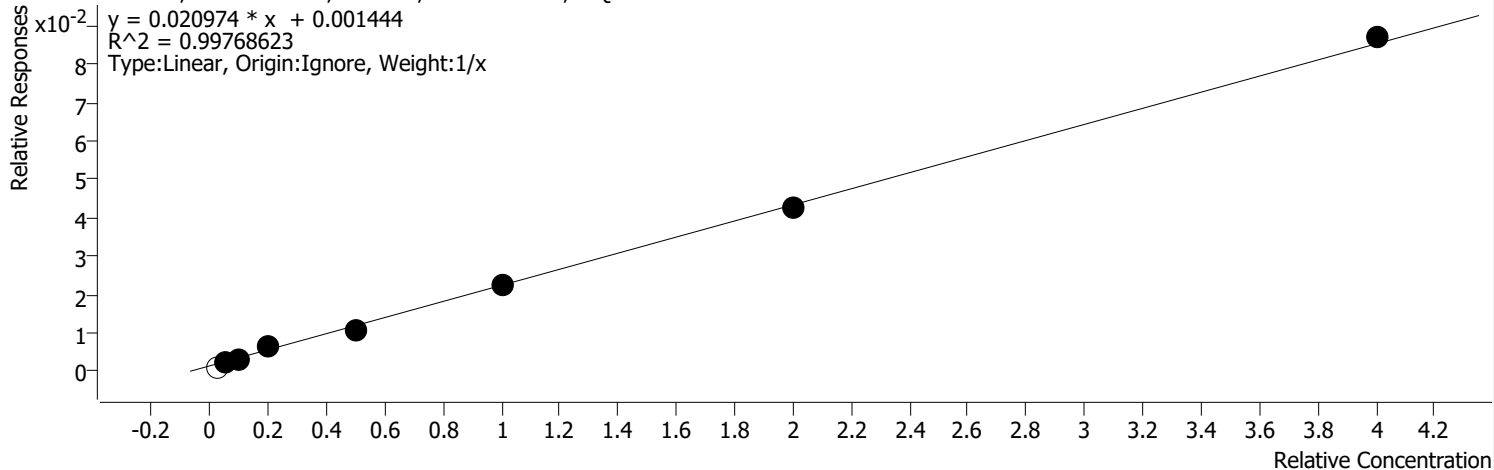
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1		3493	0.2000	0.2100	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	14105	0.5000	0.3432	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	28808	1.0000	0.3435	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	62324	2.0000	0.3632	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	130764	5.0000	0.2971	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	262923	10.0000	0.2953	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	574055	20.0000	0.3142	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	1178683	40.0000	0.3157	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin	Analyst Name	FA\GC27
Analysis Time	8/25/2023 11:50 AM	Reporter Name	FA\GC27
Report Time	8/25/2023 11:58:29 AM	Batch State	Processed
Last Calib Update	8/25/2023 8:36 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Acetone %RSE = 11.9

Acetone - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 0 QCs



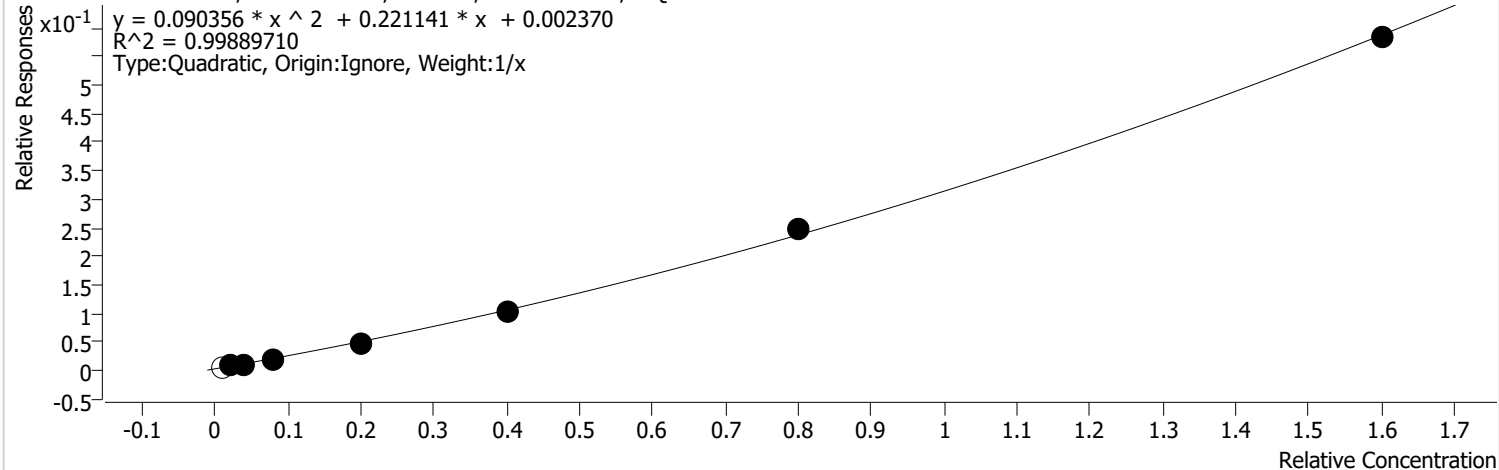
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1		2441	0.5000	0.0587	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	5325	1.2500	0.0518	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	6720	2.5000	0.0321	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	13585	5.0000	0.0317	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	24154	12.5000	0.0220	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	49818	25.0000	0.0224	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	96746	50.0000	0.0212	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	202815	100.0000	0.0217	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin	Analyst Name	FA\GC27
Analysis Time	8/25/2023 11:50 AM	Reporter Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Batch State	Processed
Last Calib Update	8/25/2023 8:36 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Iodomethane %RSE = 11.7

Iodomethane - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 0 QCs



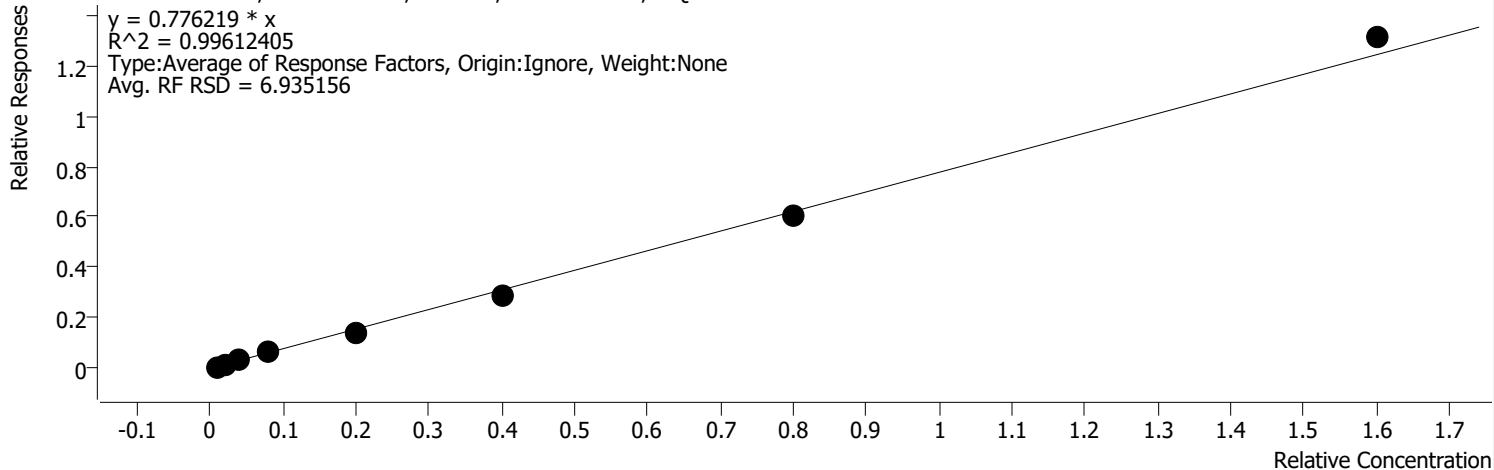
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1		12321	0.2000	0.7408	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	15776	0.5000	0.3838	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	21890	1.0000	0.2610	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	43474	2.0000	0.2533	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	101368	5.0000	0.2303	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	229807	10.0000	0.2581	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	567074	20.0000	0.3103	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	1360402	40.0000	0.3644	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin		
Analysis Time	8/25/2023 11:50 AM	Analyst Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Reporter Name	FA\GC27
Last Calib Update	8/25/2023 8:36 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Carbon disulfide %RSE = 6.9

Carbon disulfide - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



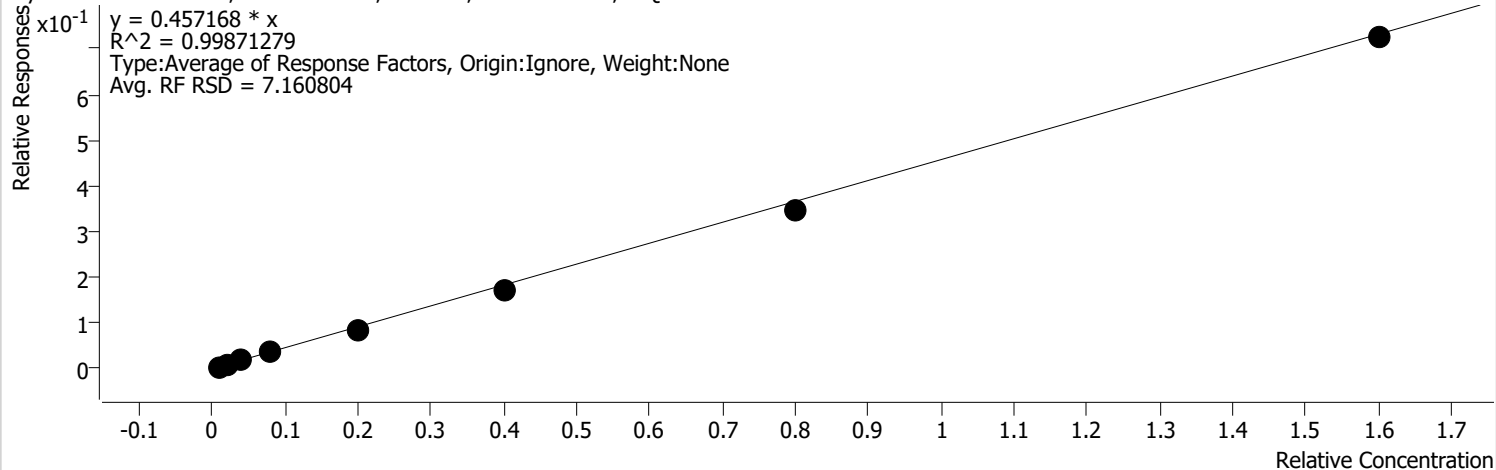
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	12586	0.2000	0.7567	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	34552	0.5000	0.8406	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	67913	1.0000	0.8098	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	140278	2.0000	0.8175	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	302376	5.0000	0.6870	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	643878	10.0000	0.7231	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	1382850	20.0000	0.7568	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	3055000	40.0000	0.8182	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin	Analyst Name	FA\GC27
Analysis Time	8/25/2023 11:50 AM	Reporter Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Batch State	Processed
Last Calib Update	8/25/2023 8:36 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Allyl Chloride %RSE = 7.2

Allyl Chloride - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

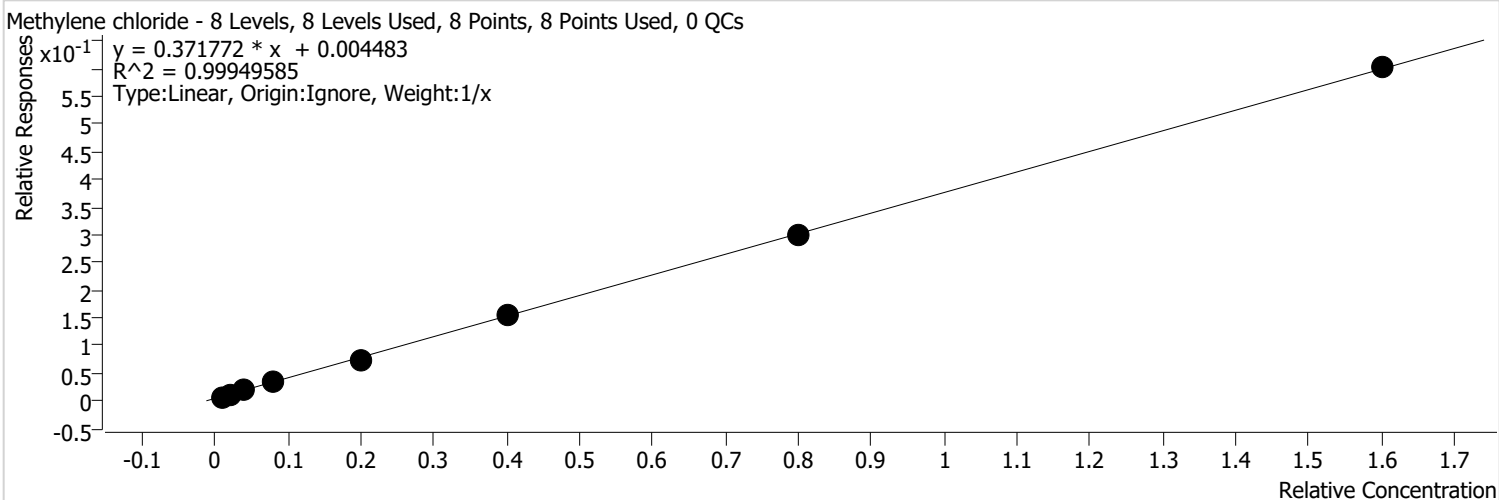


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	8243	0.2000	0.4956	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	20725	0.5000	0.5042	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	38065	1.0000	0.4539	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	81700	2.0000	0.4761	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	180962	5.0000	0.4112	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	380888	10.0000	0.4278	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	797213	20.0000	0.4363	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	1688710	40.0000	0.4523	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin		
Analysis Time	8/25/2023 11:50 AM	Analyst Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Reporter Name	FA\GC27
Last Calib Update	8/25/2023 8:36 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Methylene chloride %RSE = 4.5



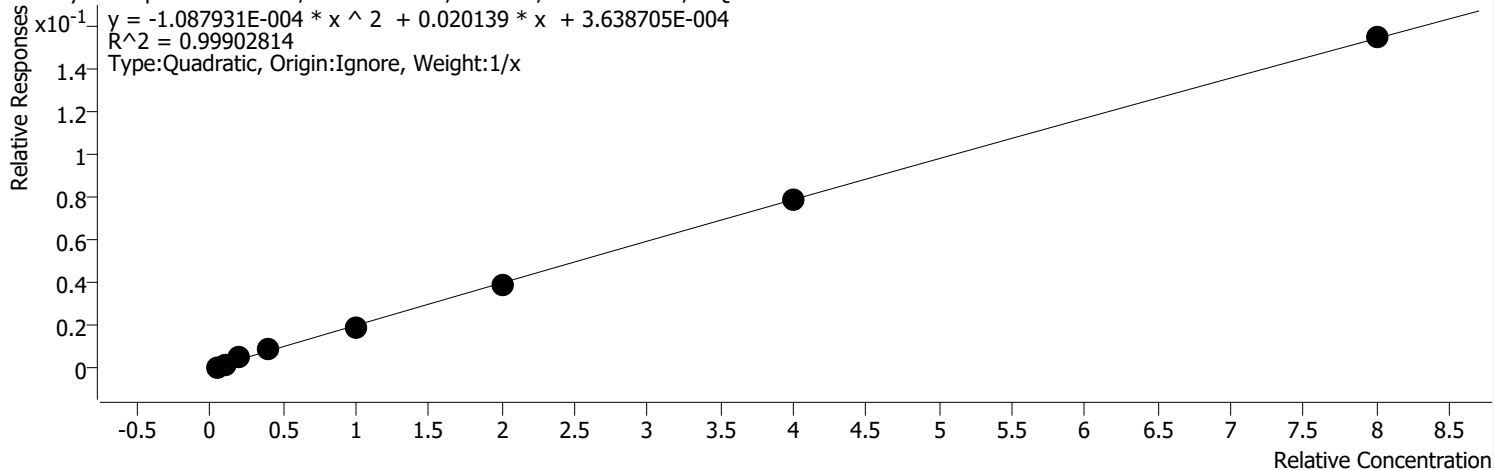
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	15212	0.2000	0.9146	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	24756	0.5000	0.6023	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	42241	1.0000	0.5037	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	75729	2.0000	0.4413	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	161296	5.0000	0.3665	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	345123	10.0000	0.3876	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	688449	20.0000	0.3768	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	1403927	40.0000	0.3760	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin	Analyst Name	FA\GC27
Analysis Time	8/25/2023 11:50 AM	Reporter Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Batch State	Processed
Last Calib Update	8/25/2023 8:36 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

2-Methyl-2-Propanol %RSE = 12.0

2-Methyl-2-Propanol - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



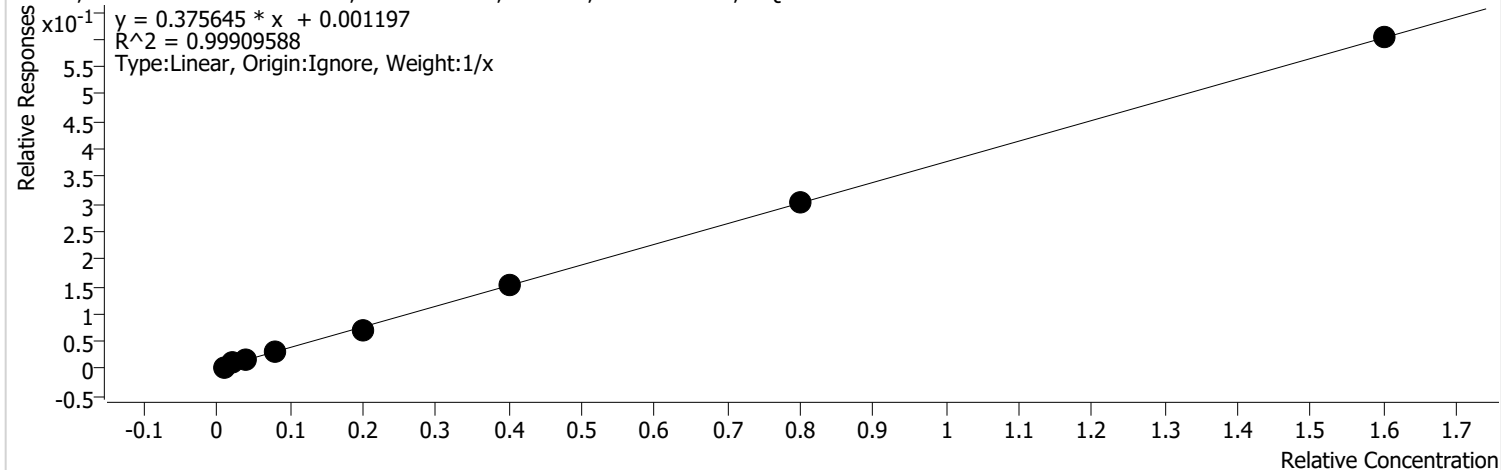
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	2143	1.0000	0.0258	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	4678	2.5000	0.0228	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	10585	5.0000	0.0252	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	19871	10.0000	0.0232	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	43567	25.0000	0.0198	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	87840	50.0000	0.0197	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	180193	100.0000	0.0197	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	361373	200.0000	0.0194	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin	Analyst Name	FA\GC27
Analysis Time	8/25/2023 11:50 AM	Reporter Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Batch State	Processed
Last Calib Update	8/25/2023 8:36 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

trans-1,2-Dichloroethene %RSE = 9.6

trans-1,2-Dichloroethene - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



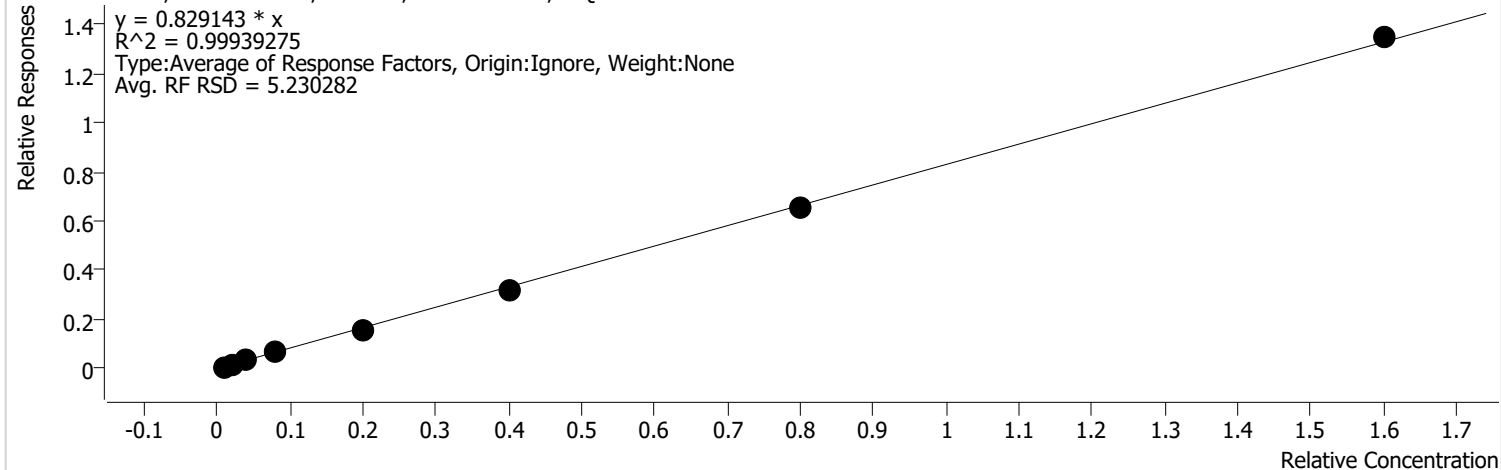
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	7695	0.2000	0.4626	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	19330	0.5000	0.4703	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	36467	1.0000	0.4349	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	71520	2.0000	0.4168	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	153582	5.0000	0.3490	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	339766	10.0000	0.3816	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	692843	20.0000	0.3792	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	1405961	40.0000	0.3766	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin		
Analysis Time	8/25/2023 11:50 AM	Analyst Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Reporter Name	FA\GC27
Last Calib Update	8/25/2023 8:36 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

MTBE %RSE = 5.2

MTBE - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



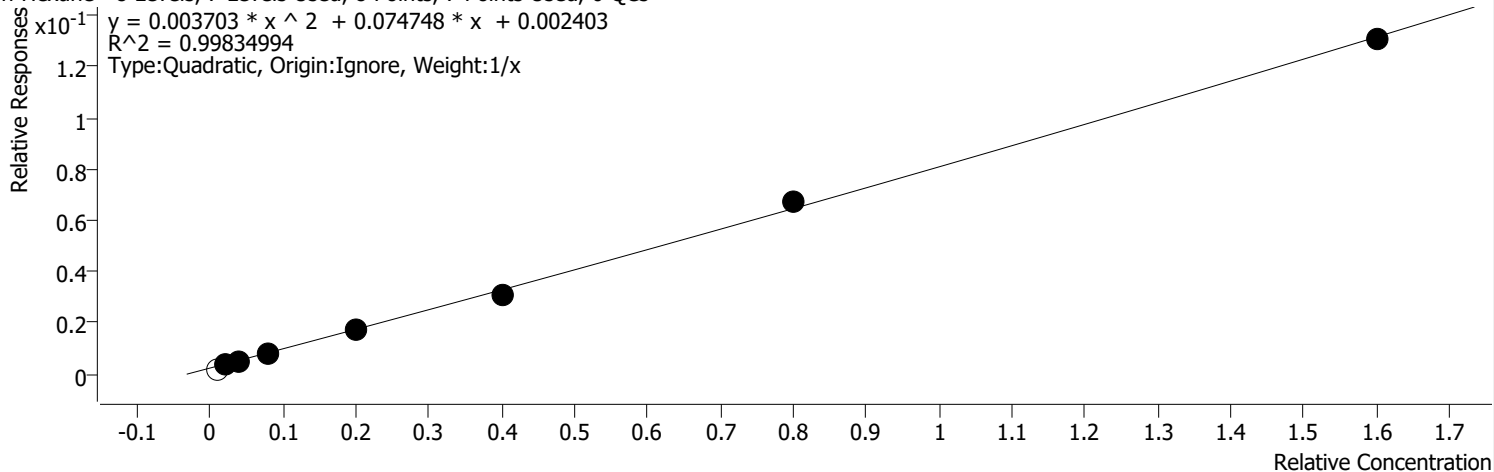
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	13698	0.2000	0.8235	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	37152	0.5000	0.9039	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	71067	1.0000	0.8474	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	146540	2.0000	0.8540	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	334152	5.0000	0.7592	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	706668	10.0000	0.7936	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	1482401	20.0000	0.8113	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	3137079	40.0000	0.8402	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin	Analyst Name	FA\GC27
Analysis Time	8/25/2023 11:50 AM	Reporter Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Batch State	Processed
Last Calib Update	8/25/2023 8:36 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

n-Hexane %RSE = 8.2

n-Hexane - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 0 QCs

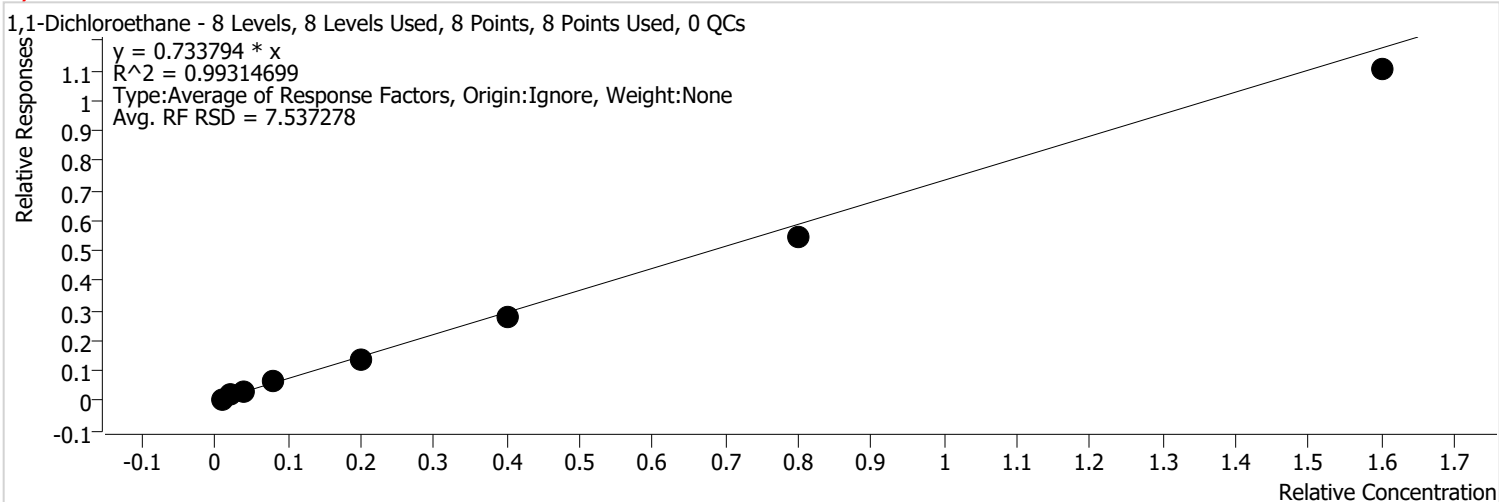


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1		4387	0.2000	0.2638	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	8369	0.5000	0.2036	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	10931	1.0000	0.1304	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	17391	2.0000	0.1013	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	39222	5.0000	0.0891	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	68646	10.0000	0.0771	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	154582	20.0000	0.0846	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	304327	40.0000	0.0815	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin		
Analysis Time	8/25/2023 11:50 AM	Analyst Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Reporter Name	FA\GC27
Last Calib Update	8/25/2023 8:36 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,1-Dichloroethane %RSE = 7.5



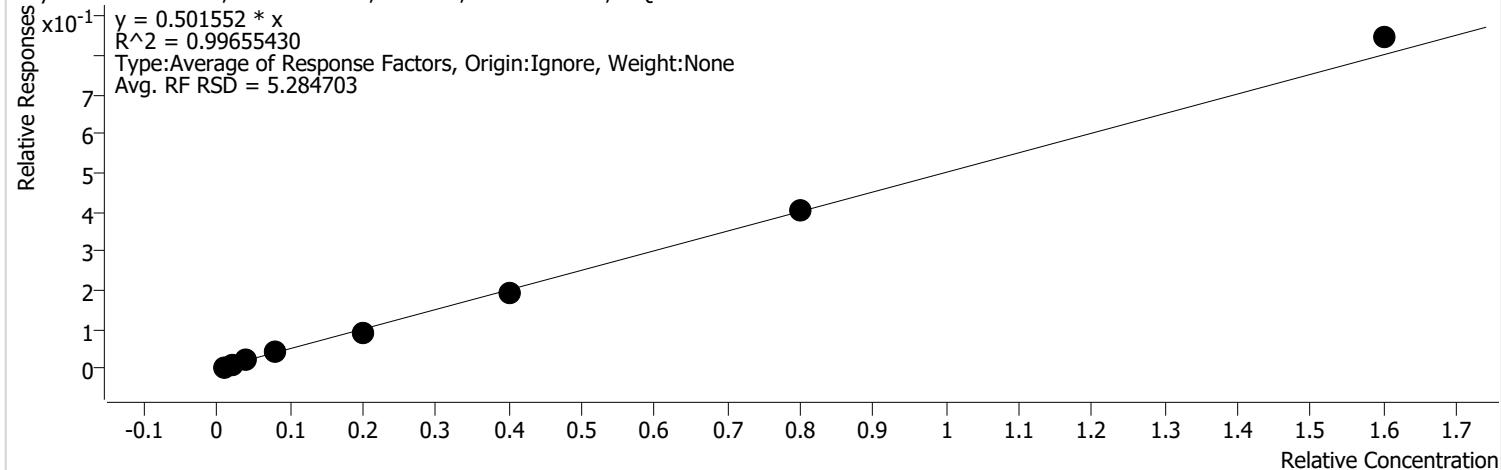
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	12133	0.2000	0.7295	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	33973	0.5000	0.8266	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	65375	1.0000	0.7796	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	133902	2.0000	0.7803	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	297880	5.0000	0.6768	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	626185	10.0000	0.7032	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	1253123	20.0000	0.6858	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	2570974	40.0000	0.6886	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin		
Analysis Time	8/25/2023 11:50 AM	Analyst Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Reporter Name	FA\GC27
Last Calib Update	8/25/2023 8:36 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Acrylonitrile %RSE = 5.3

Acrylonitrile - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

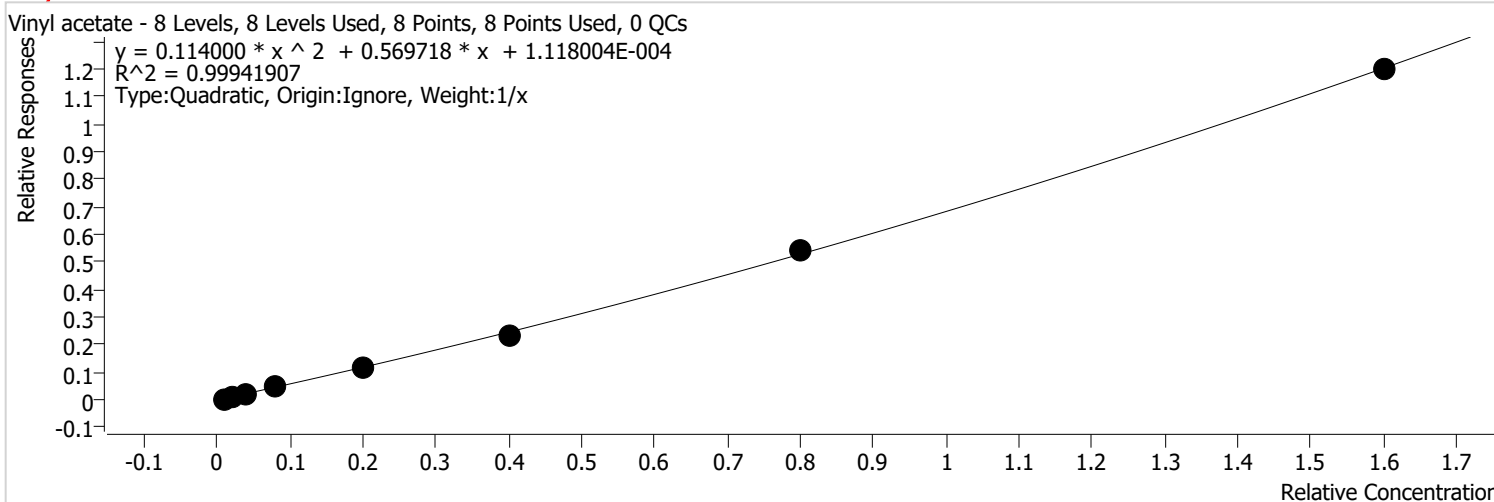


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	7874	0.2000	0.4734	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	21557	0.5000	0.5245	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	44185	1.0000	0.5269	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	87441	2.0000	0.5096	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	203180	5.0000	0.4616	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	426560	10.0000	0.4790	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	929415	20.0000	0.5086	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	1974351	40.0000	0.5288	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin	Analyst Name	FA\GC27
Analysis Time	8/25/2023 11:50 AM	Reporter Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Batch State	Processed
Last Calib Update	8/25/2023 8:36 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Vinyl acetate %RSE = 6.0

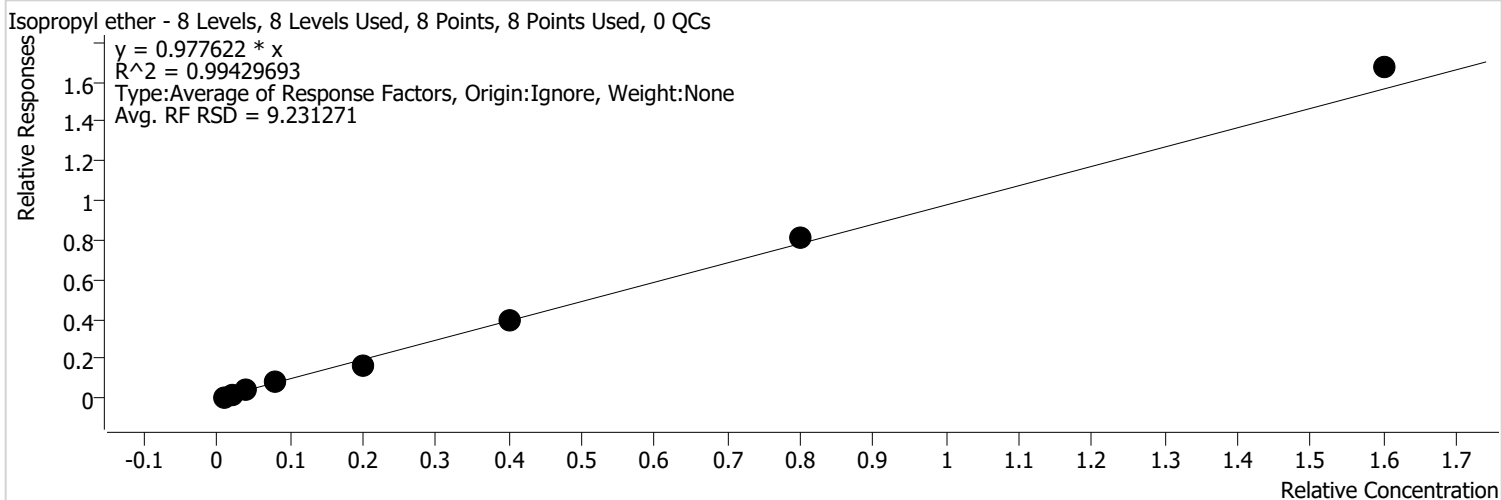


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	8894	0.2000	0.5347	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	25025	0.5000	0.6089	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	50264	1.0000	0.5994	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	104204	2.0000	0.6072	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	250491	5.0000	0.5691	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	526736	10.0000	0.5915	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	1245667	20.0000	0.6817	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	2795787	40.0000	0.7488	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin		
Analysis Time	8/25/2023 11:50 AM	Analyst Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Reporter Name	FA\GC27
Last Calib Update	8/25/2023 8:36 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Isopropyl ether %RSE = 9.2



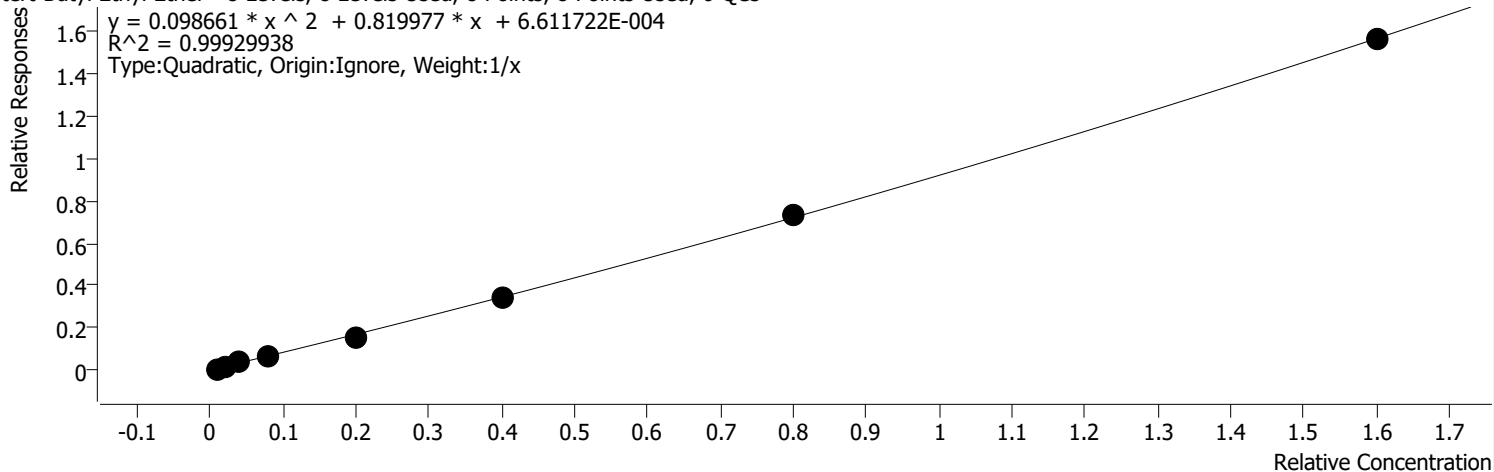
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	14047	0.2000	0.8445	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	45622	0.5000	1.1100	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	82906	1.0000	0.9886	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	167747	2.0000	0.9775	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	376160	5.0000	0.8547	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	871241	10.0000	0.9784	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	1867544	20.0000	1.0220	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	3902210	40.0000	1.0452	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin		
Analysis Time	8/25/2023 11:50 AM	Analyst Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Reporter Name	FA\GC27
Last Calib Update	8/25/2023 8:36 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

tert-Butyl Ethyl Ether %RSE = 12.4

tert-Butyl Ethyl Ether - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



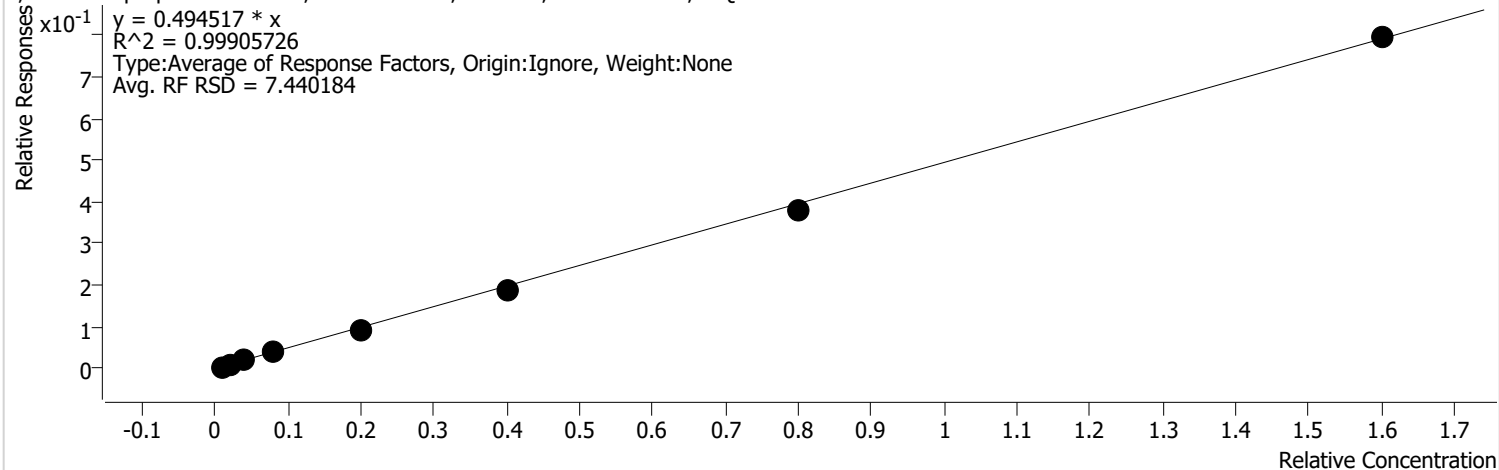
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	12351	0.2000	0.7425	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	40759	0.5000	0.9917	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	75845	1.0000	0.9044	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	145160	2.0000	0.8459	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	345484	5.0000	0.7850	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	760529	10.0000	0.8541	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	1678754	20.0000	0.9187	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	3639371	40.0000	0.9748	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin		
Analysis Time	8/25/2023 11:50 AM	Analyst Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Reporter Name	FA\GC27
Last Calib Update	8/25/2023 8:36 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

2,2-Dichloropropane %RSE = 7.4

2,2-Dichloropropane - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



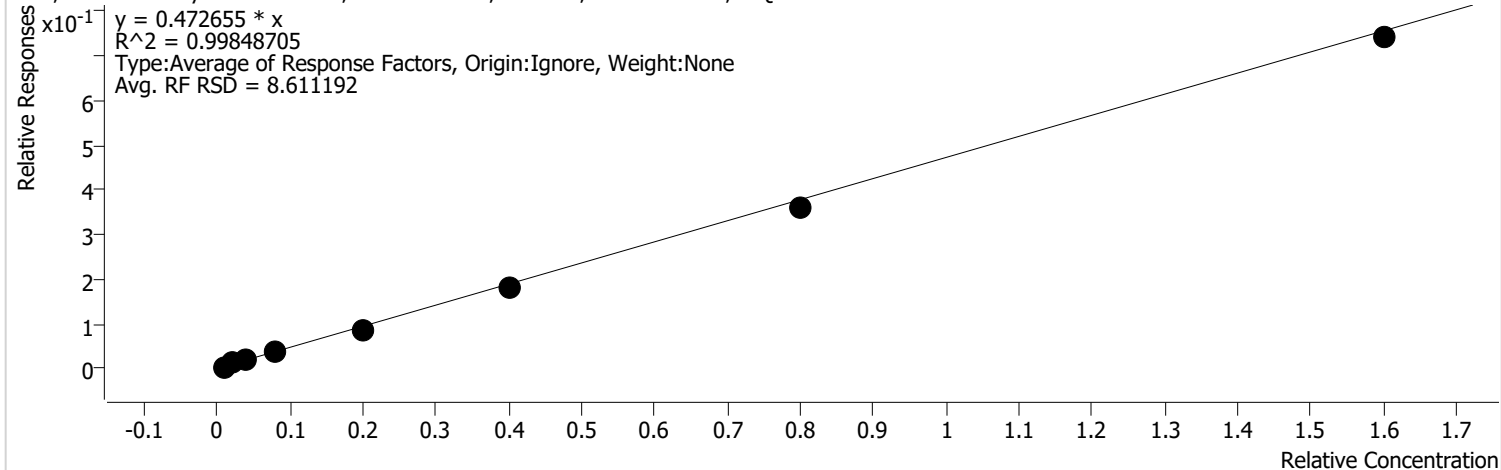
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	7881	0.2000	0.4738	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	23068	0.5000	0.5612	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	43837	1.0000	0.5227	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	88319	2.0000	0.5147	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	198358	5.0000	0.4507	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	410726	10.0000	0.4613	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	868873	20.0000	0.4755	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	1852655	40.0000	0.4962	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin		
Analysis Time	8/25/2023 11:50 AM	Analyst Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Reporter Name	FA\GC27
Last Calib Update	8/25/2023 8:36 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

cis-1,2-Dichloroethylene %RSE = 8.6

cis-1,2-Dichloroethylene - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



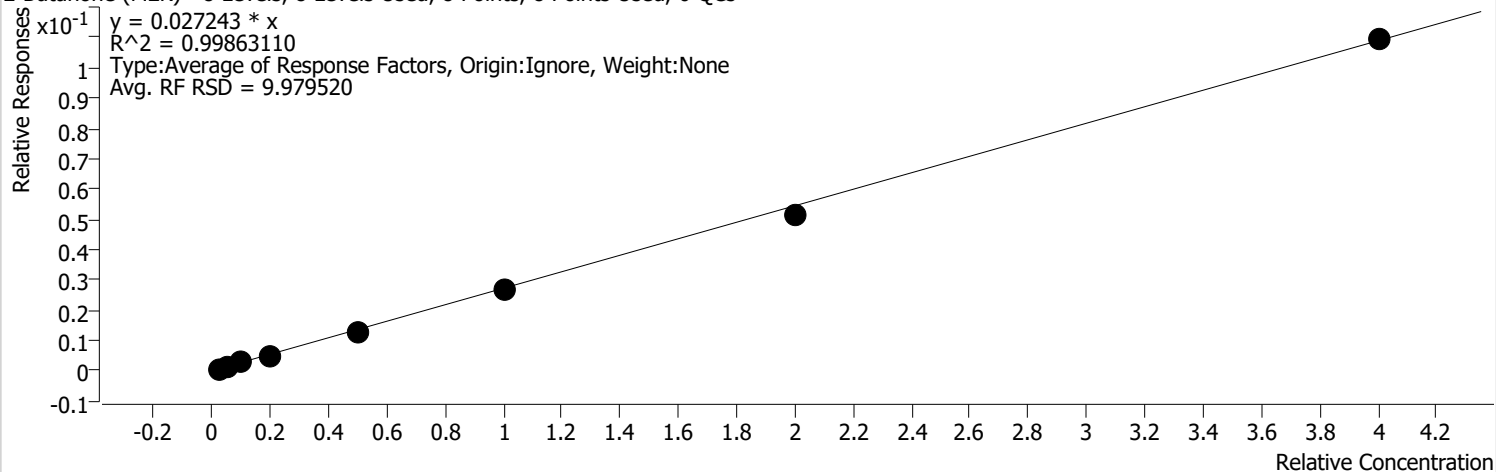
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	7602	0.2000	0.4571	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	22800	0.5000	0.5547	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	40692	1.0000	0.4852	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	85585	2.0000	0.4987	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	184883	5.0000	0.4201	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	400639	10.0000	0.4499	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	826804	20.0000	0.4525	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	1728719	40.0000	0.4630	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin		
Analysis Time	8/25/2023 11:50 AM	Analyst Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Reporter Name	FA\GC27
Last Calib Update	8/25/2023 8:36 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

2-Butanone (MEK) %RSE = 10.0

2-Butanone (MEK) - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



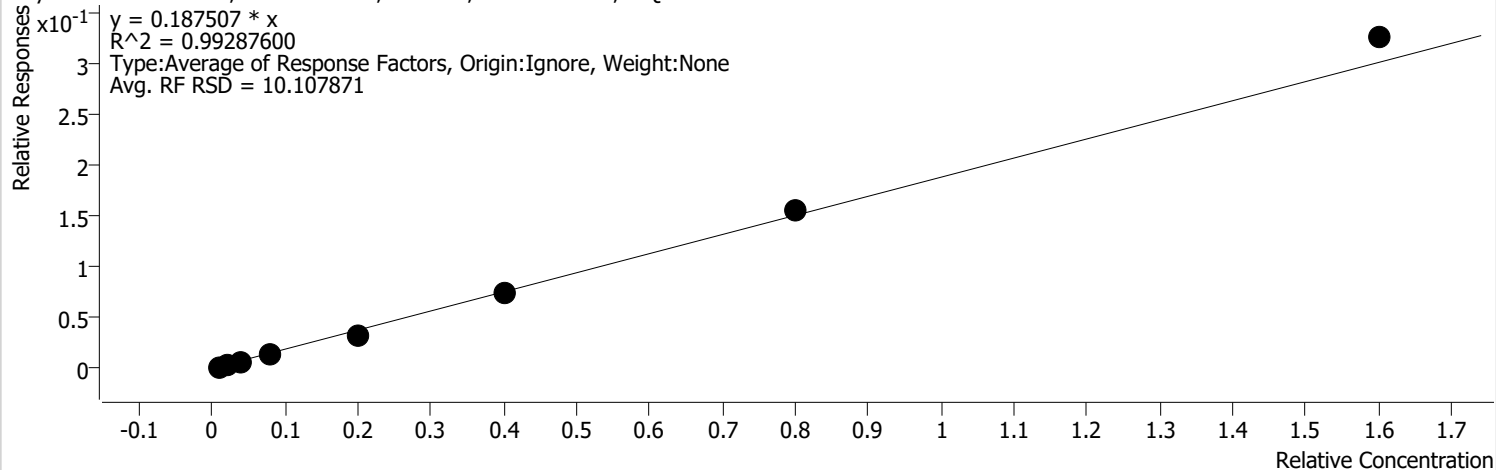
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	1297	0.5000	0.0312	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	3246	1.2500	0.0316	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	5527	2.5000	0.0264	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	10348	5.0000	0.0241	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	28023	12.5000	0.0255	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	58689	25.0000	0.0264	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	116682	50.0000	0.0255	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	254942	100.0000	0.0273	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin		
Analysis Time	8/25/2023 11:50 AM	Analyst Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Reporter Name	FA\GC27
Last Calib Update	8/25/2023 8:36 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Ethyl acetate %RSE = 10.1

Ethyl acetate - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



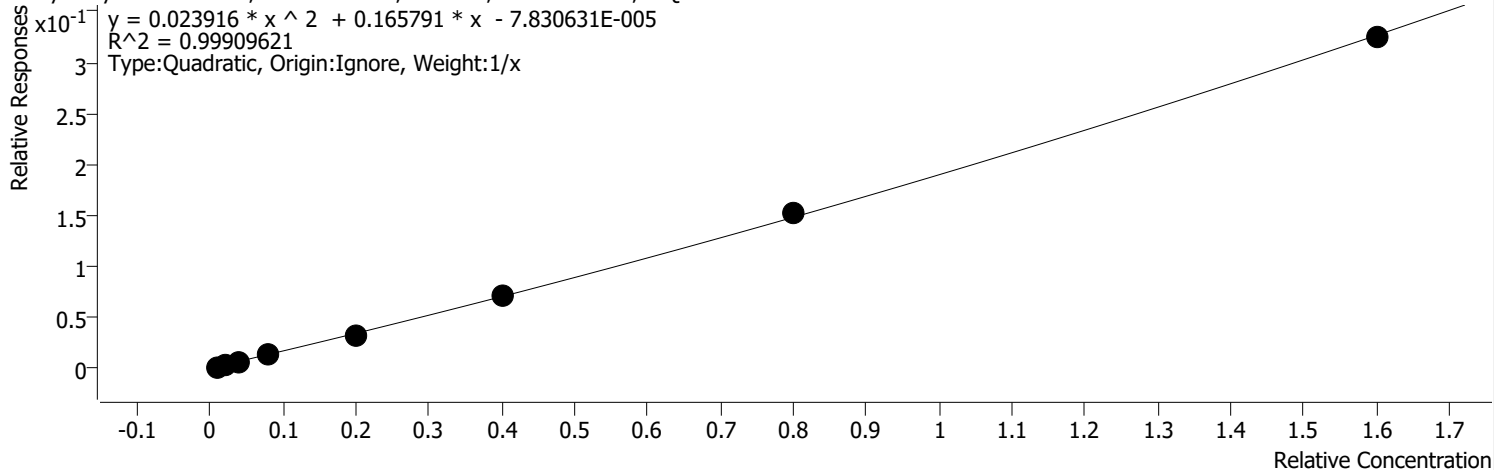
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	3091	0.2000	0.1858	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	9160	0.5000	0.2229	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	13952	1.0000	0.1664	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	30719	2.0000	0.1790	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	73035	5.0000	0.1659	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	163779	10.0000	0.1839	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	353417	20.0000	0.1934	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	756714	40.0000	0.2027	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin	Analyst Name	FA\GC27
Analysis Time	8/25/2023 11:50 AM	Reporter Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Batch State	Processed
Last Calib Update	8/25/2023 8:36 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Methyl acrylate %RSE = 8.7

Methyl acrylate - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



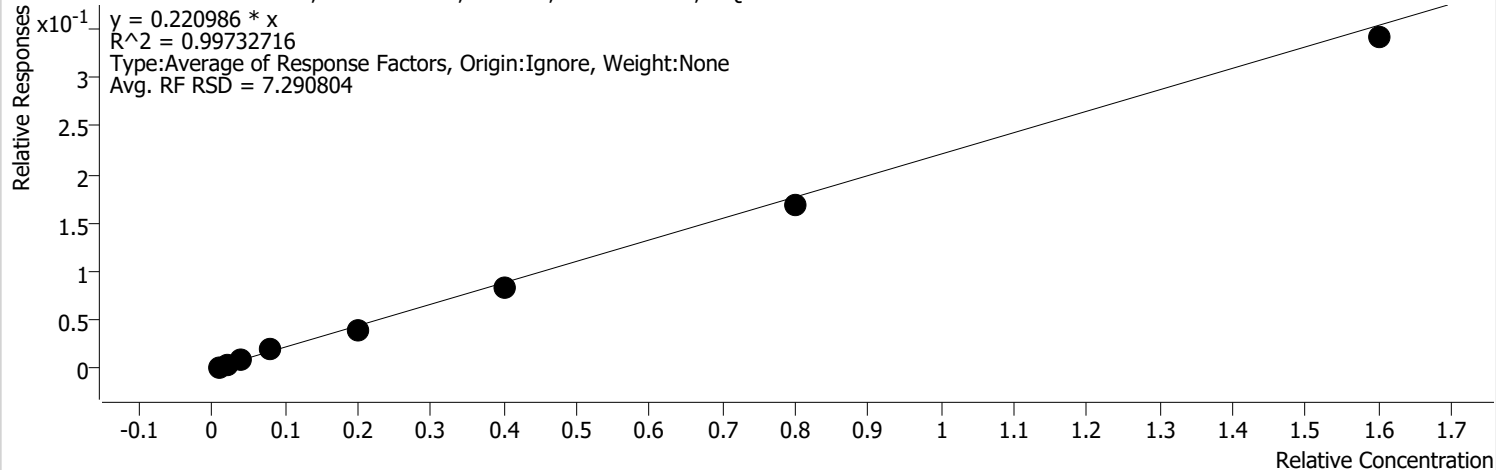
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	2484	0.2000	0.1493	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	7775	0.5000	0.1892	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	13730	1.0000	0.1637	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	26646	2.0000	0.1553	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	69486	5.0000	0.1579	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	155476	10.0000	0.1746	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	350314	20.0000	0.1917	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	756190	40.0000	0.2025	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin		
Analysis Time	8/25/2023 11:50 AM	Analyst Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Reporter Name	FA\GC27
Last Calib Update	8/25/2023 8:36 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Bromochloromethane %RSE = 7.3

Bromochloromethane - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

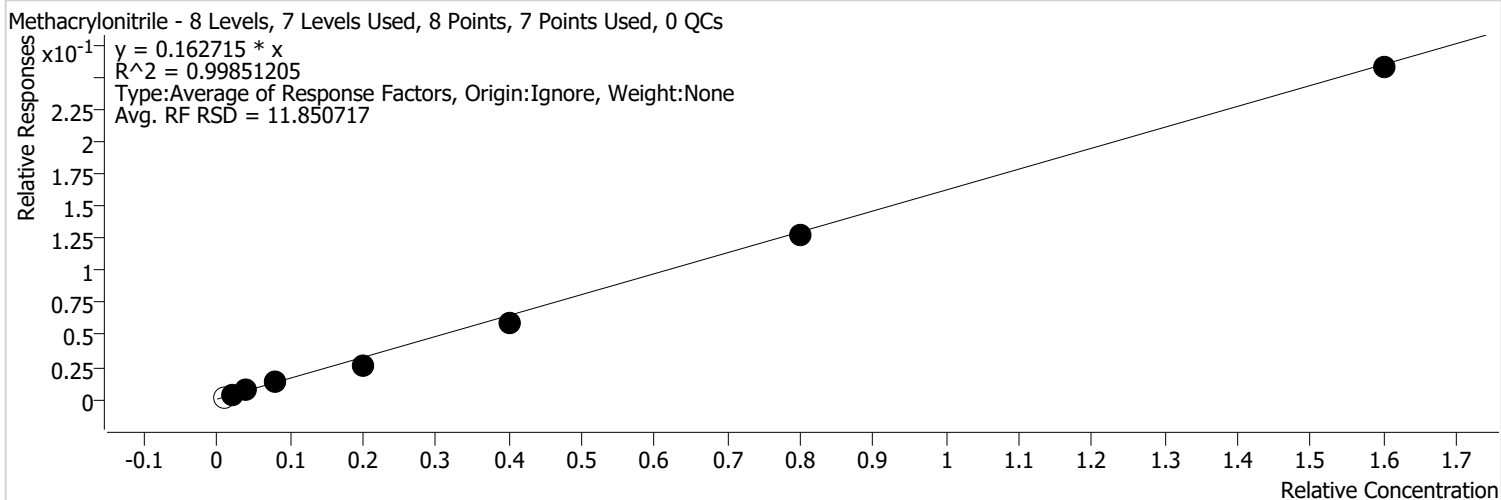


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	3852	0.2000	0.2316	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	10263	0.5000	0.2497	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	18133	1.0000	0.2162	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	40360	2.0000	0.2352	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	89175	5.0000	0.2026	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	185327	10.0000	0.2081	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	386363	20.0000	0.2114	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	795362	40.0000	0.2130	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin		
Analysis Time	8/25/2023 11:50 AM	Analyst Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Reporter Name	FA\GC27
Last Calib Update	8/25/2023 8:36 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Methacrylonitrile %RSE = 11.9

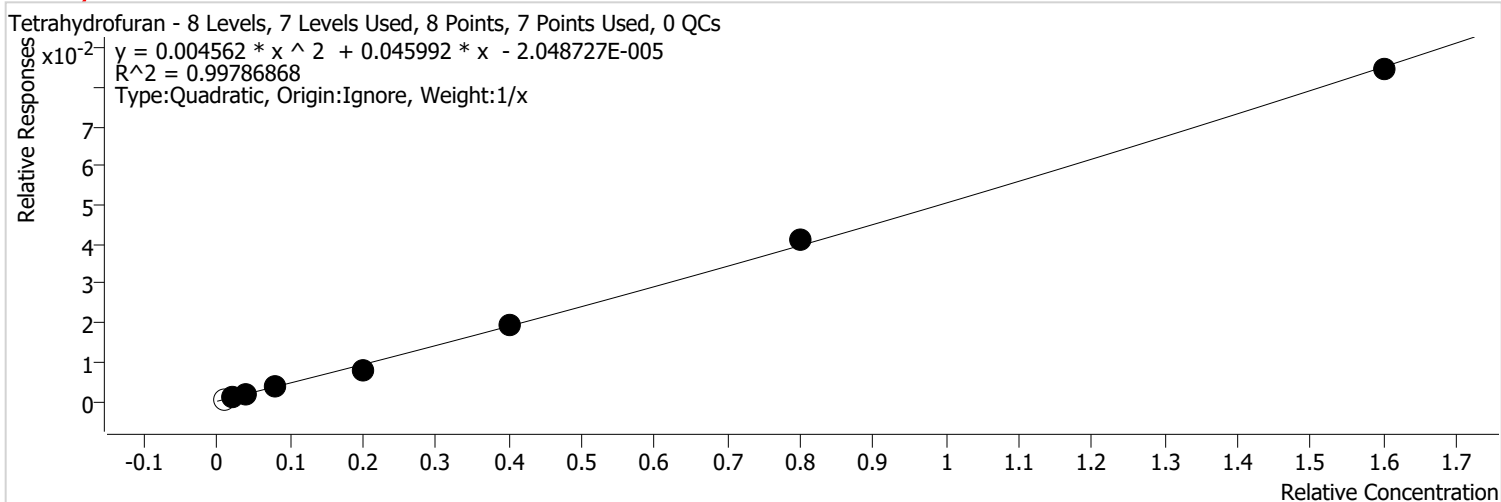


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1		3858	0.2000	0.2319	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	7596	0.5000	0.1848	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	15934	1.0000	0.1900	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	27508	2.0000	0.1603	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	59148	5.0000	0.1344	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	133236	10.0000	0.1496	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	290033	20.0000	0.1587	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	601645	40.0000	0.1611	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin	Analyst Name	FA\GC27
Analysis Time	8/25/2023 11:50 AM	Reporter Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Batch State	Processed
Last Calib Update	8/25/2023 8:36 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Tetrahydrofuran %RSE = 8.9



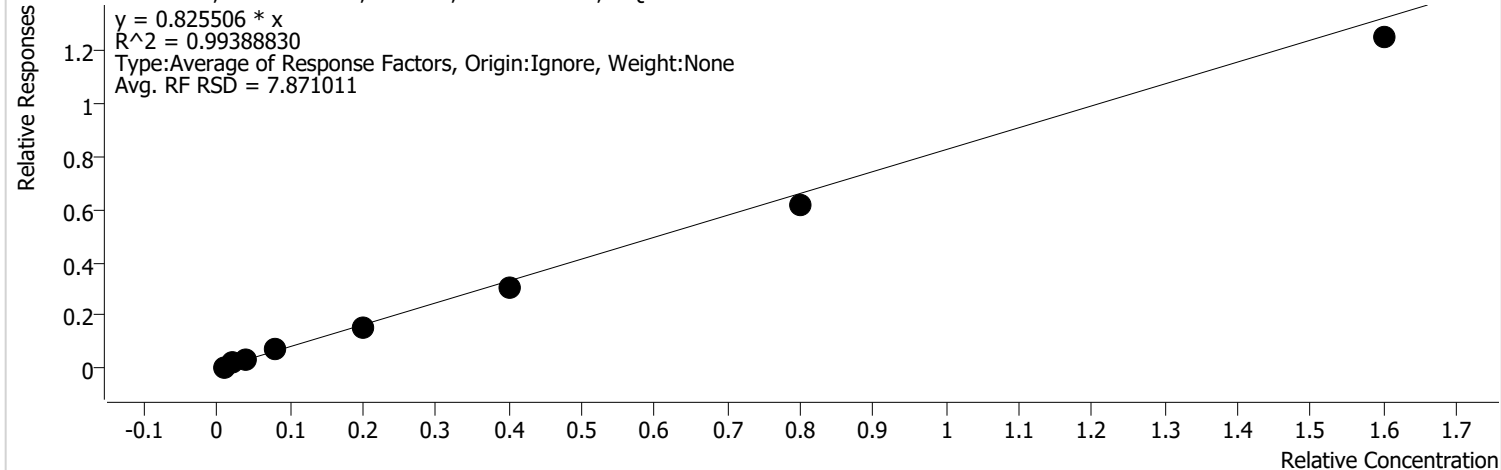
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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D:\GC-27\DATA\082423\082426.D	Calibration	2	x	1917	0.5000	0.0466	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	4113	1.0000	0.0490	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	7837	2.0000	0.0457	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	17395	5.0000	0.0395	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	43681	10.0000	0.0491	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	94115	20.0000	0.0515	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	197273	40.0000	0.0528	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin		
Analysis Time	8/25/2023 11:50 AM	Analyst Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Reporter Name	FA\GC27
Last Calib Update	8/25/2023 8:36 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

chloroform %RSE = 7.9

chloroform - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

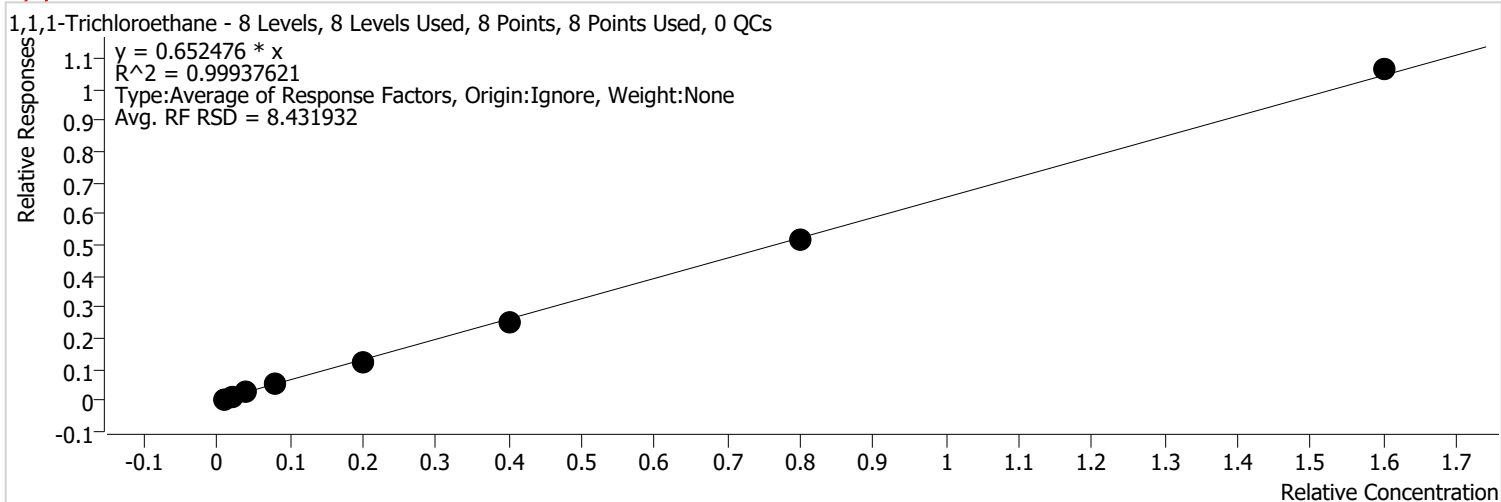


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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D:\GC-27\DATA\082423\082426.D	Calibration	2	x	38136	0.5000	0.9278	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	74468	1.0000	0.8880	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	149323	2.0000	0.8702	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	331644	5.0000	0.7535	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	689267	10.0000	0.7741	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	1408006	20.0000	0.7706	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	2910538	40.0000	0.7796	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin		
Analysis Time	8/25/2023 11:50 AM	Analyst Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Reporter Name	FA\GC27
Last Calib Update	8/25/2023 8:36 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,1,1-Trichloroethane %RSE = 8.4

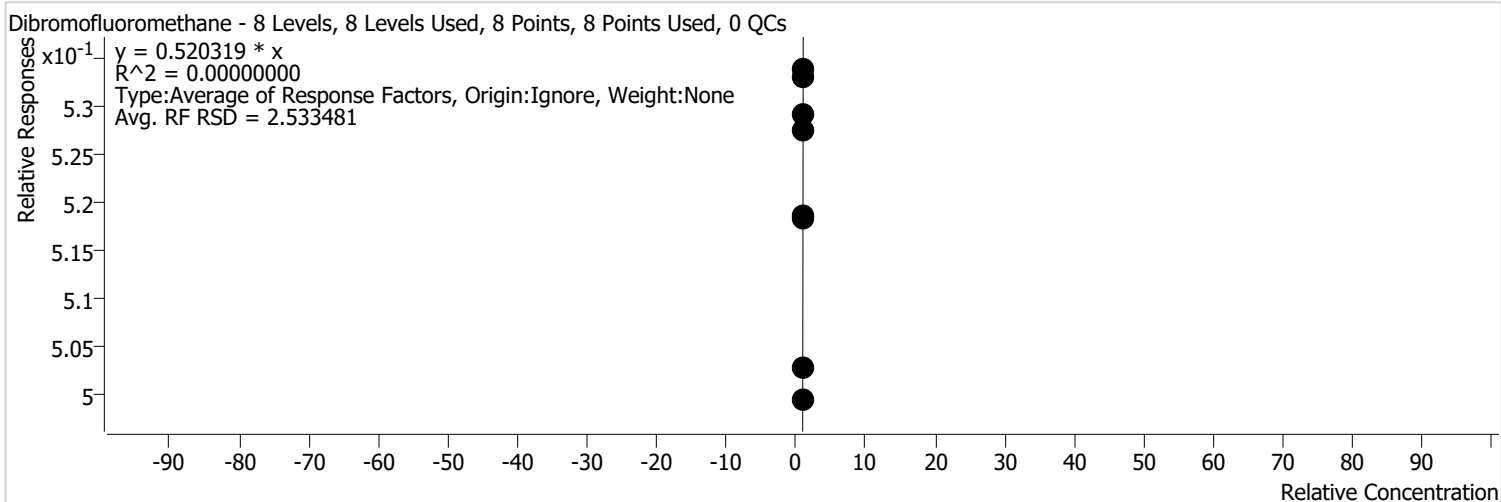


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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D:\GC-27\DATA\082423\082426.D	Calibration	2	x	29754	0.5000	0.7239	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	57239	1.0000	0.6826	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	122131	2.0000	0.7117	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	265327	5.0000	0.6028	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	556064	10.0000	0.6245	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	1185751	20.0000	0.6489	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	2478790	40.0000	0.6639	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin	Analyst Name	FA\GC27
Analysis Time	8/25/2023 11:50 AM	Reporter Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Batch State	Processed
Last Calib Update	8/25/2023 8:36 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Dibromofluoromethane %RSE =



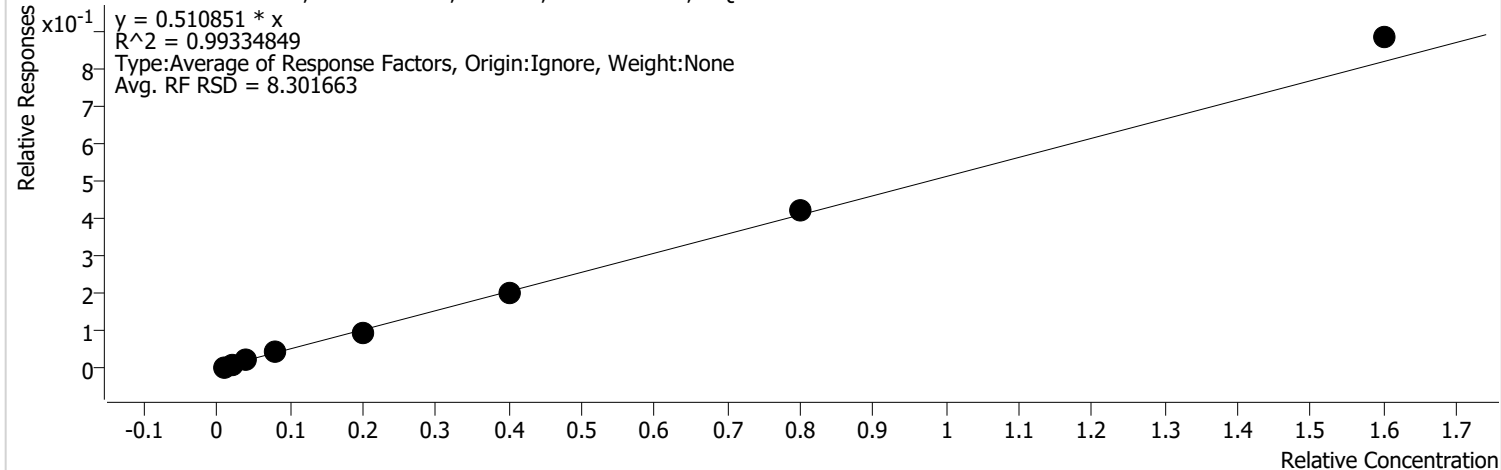
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	1173118	25.0000	0.5027	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	1141018	25.0000	0.4996	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	1154654	25.0000	0.5187	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	1140514	25.0000	0.5183	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	1134757	25.0000	0.5290	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	1106017	25.0000	0.5276	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	1095351	25.0000	0.5330	
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	1109743	25.0000	0.5337	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin		
Analysis Time	8/25/2023 11:50 AM	Analyst Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Reporter Name	FA\GC27
Last Calib Update	8/25/2023 8:36 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

carbon tetrachloride %RSE = 8.3

carbon tetrachloride - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

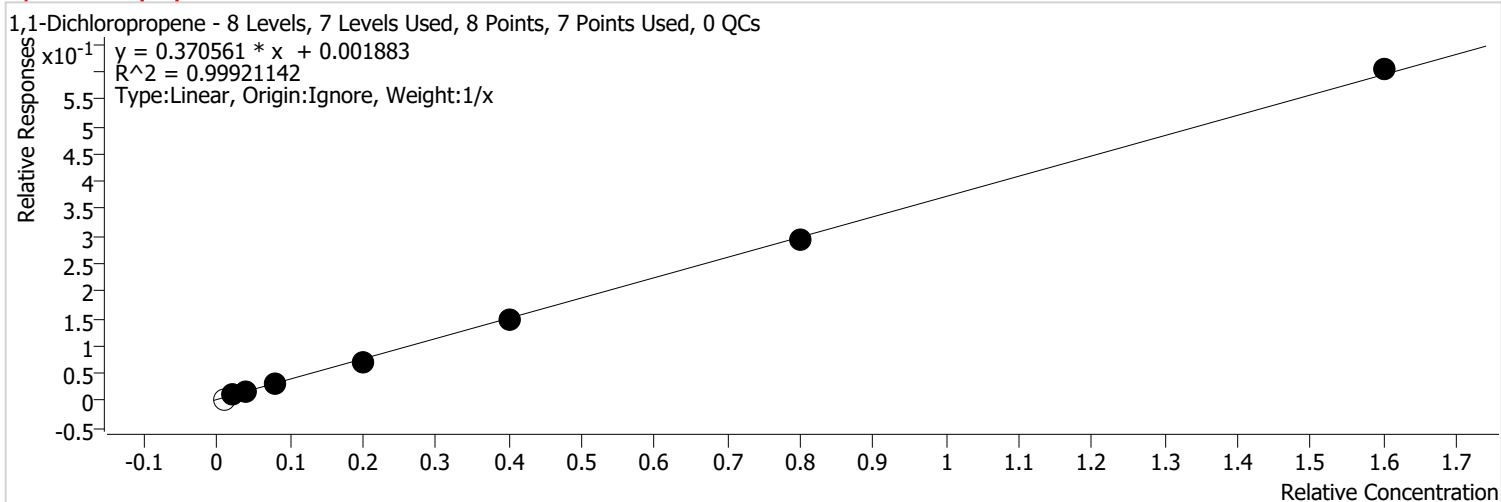


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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D:\GC-27\DATA\082423\082427.D	Calibration	3	x	46883	1.0000	0.5591	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	92725	2.0000	0.5404	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	209607	5.0000	0.4762	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	441970	10.0000	0.4963	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	966708	20.0000	0.5290	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	2055848	40.0000	0.5506	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin		
Analysis Time	8/25/2023 11:50 AM	Analyst Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Reporter Name	FA\GC27
Last Calib Update	8/25/2023 8:36 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,1-Dichloropropene %RSE = 7.0



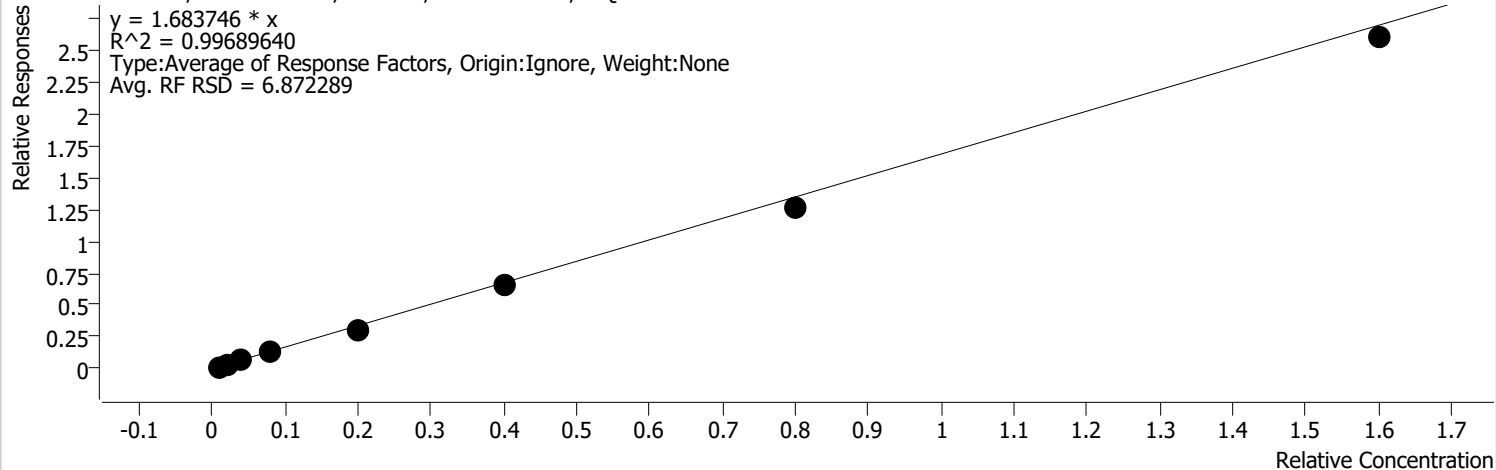
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1		6392	0.2000	0.3843	
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D:\GC-27\DATA\082423\082427.D	Calibration	3	x	32597	1.0000	0.3887	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	70764	2.0000	0.4124	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	156488	5.0000	0.3556	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	328603	10.0000	0.3690	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	675209	20.0000	0.3695	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	1408939	40.0000	0.3774	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin		
Analysis Time	8/25/2023 11:50 AM	Analyst Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Reporter Name	FA\GC27
Last Calib Update	8/25/2023 8:36 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Benzene %RSE = 6.9

Benzene - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

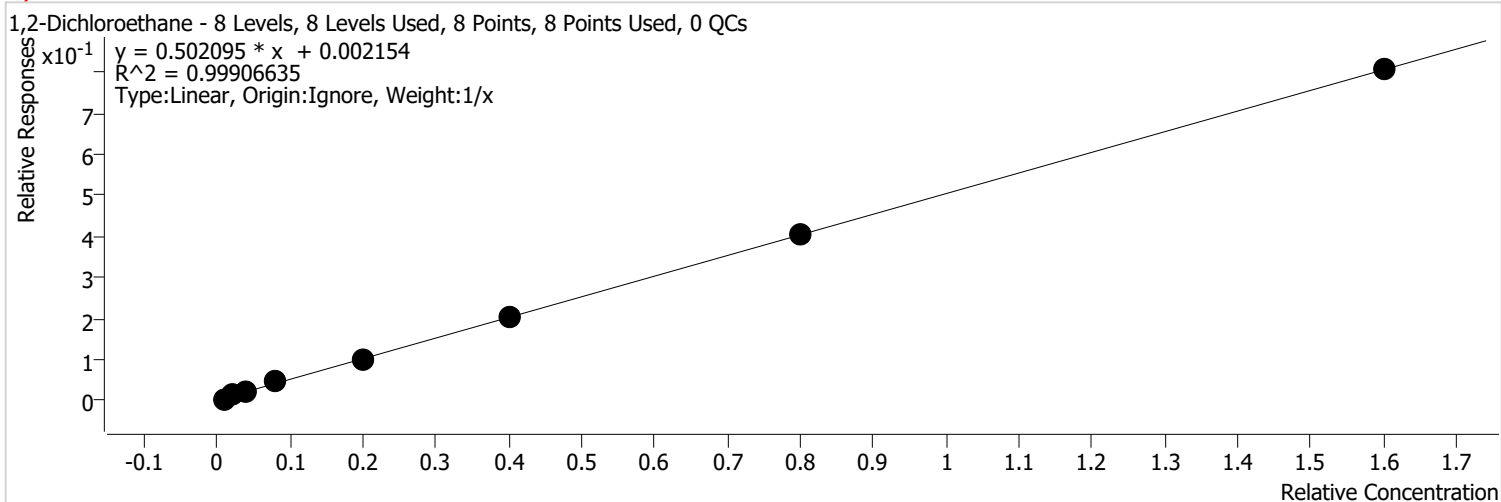


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	28664	0.2000	1.7233	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	76749	0.5000	1.8673	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	147995	1.0000	1.7648	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	302846	2.0000	1.7648	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	666611	5.0000	1.5146	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	1449842	10.0000	1.6282	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	2894722	20.0000	1.5842	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	6058664	40.0000	1.6227	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin		
Analysis Time	8/25/2023 11:50 AM	Analyst Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Reporter Name	FA\GC27
Last Calib Update	8/25/2023 8:36 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,2-Dichloroethane %RSE = 15.0



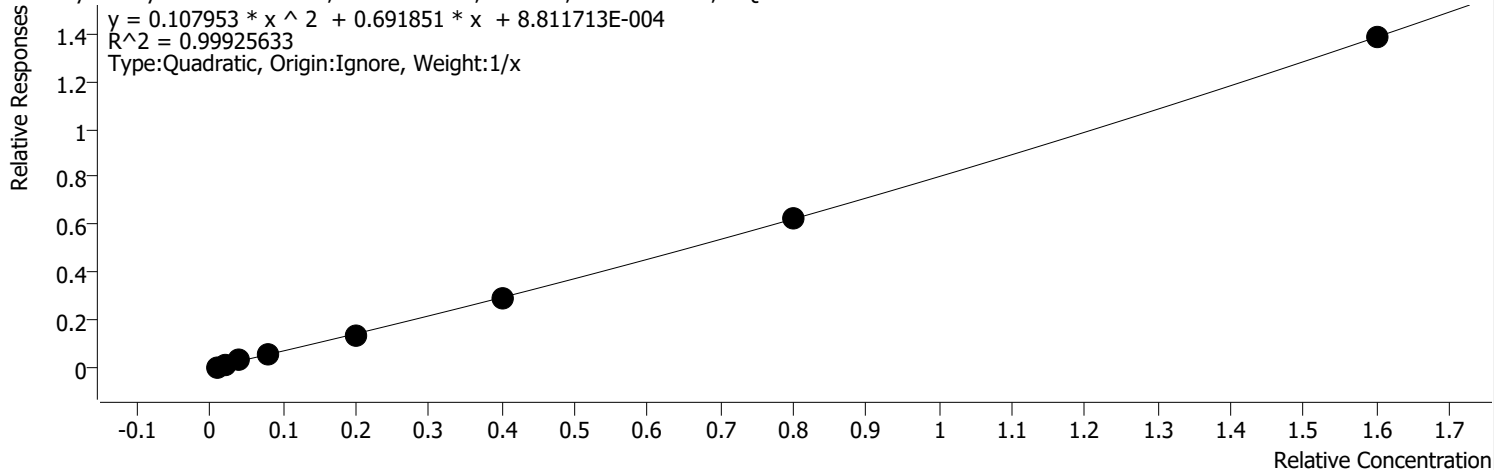
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	10451	0.2000	0.6283	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	29269	0.5000	0.7121	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	48815	1.0000	0.5821	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	97866	2.0000	0.5703	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	214245	5.0000	0.4868	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	450791	10.0000	0.5063	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	923228	20.0000	0.5053	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	1879834	40.0000	0.5035	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin		
Analysis Time	8/25/2023 11:50 AM	Analyst Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Reporter Name	FA\GC27
Last Calib Update	8/25/2023 8:36 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

tert-Amyl Methyl Ether %RSE = 14.2

tert-Amyl Methyl Ether - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



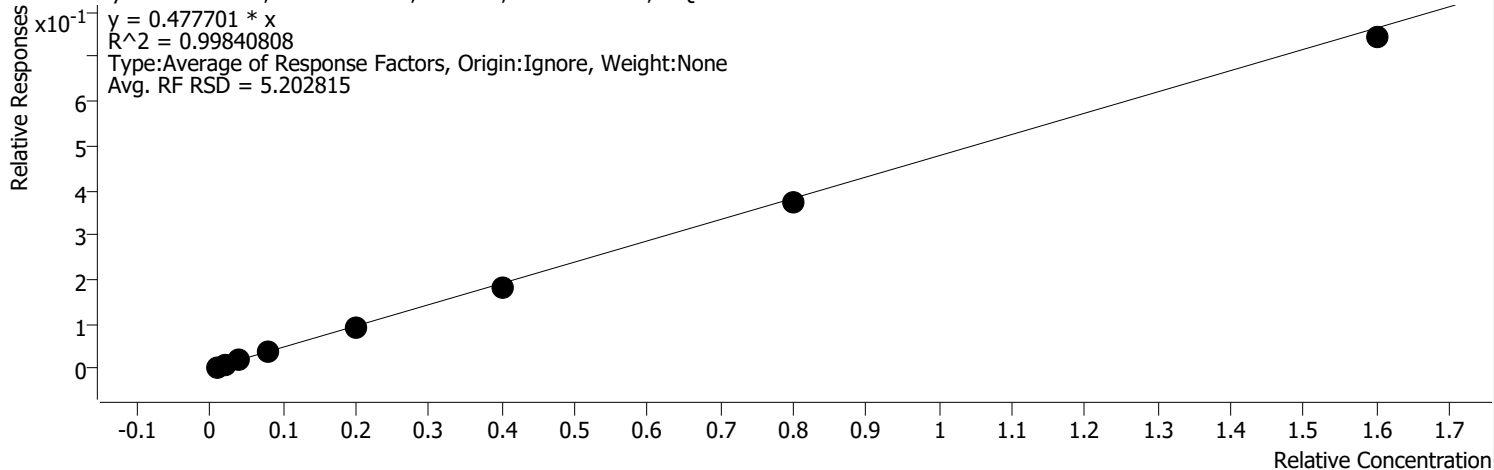
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	10773	0.2000	0.6477	
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D:\GC-27\DATA\082423\082427.D	Calibration	3	x	61876	1.0000	0.7378	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	128793	2.0000	0.7505	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	291257	5.0000	0.6618	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	660232	10.0000	0.7415	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	1438845	20.0000	0.7874	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	3224269	40.0000	0.8636	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin		
Analysis Time	8/25/2023 11:50 AM	Analyst Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Reporter Name	FA\GC27
Last Calib Update	8/25/2023 8:36 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

trichloroethylene %RSE = 5.2

trichloroethylene - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

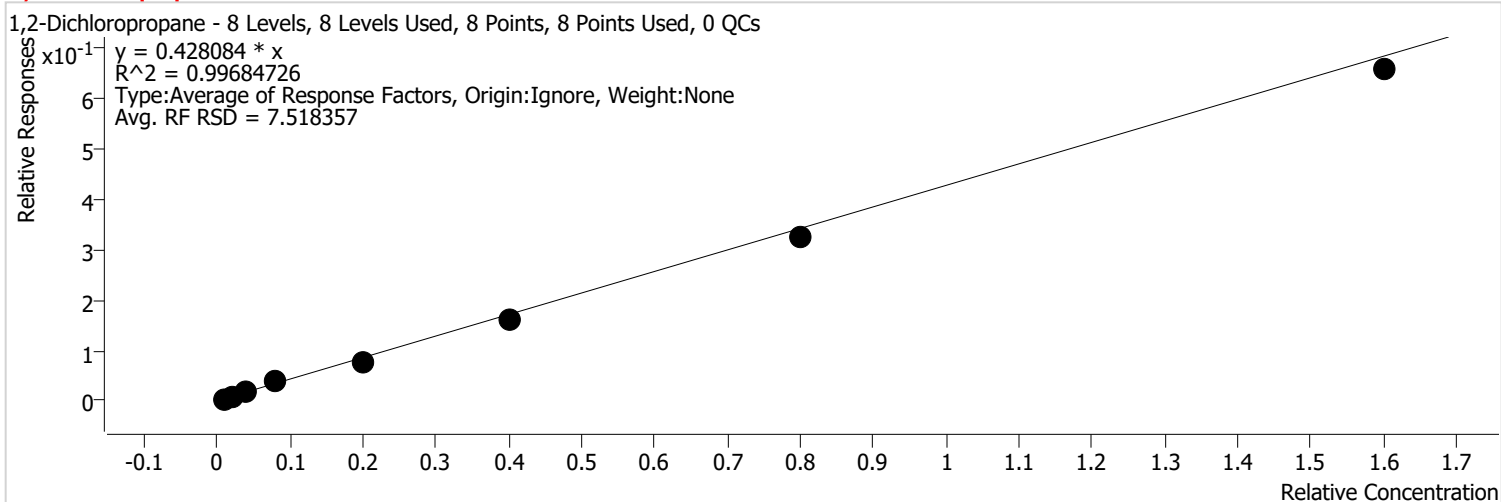


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	7941	0.2000	0.4774	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	21343	0.5000	0.5193	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	41633	1.0000	0.4965	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	85578	2.0000	0.4987	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	197749	5.0000	0.4493	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	403539	10.0000	0.4532	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	846395	20.0000	0.4632	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	1732702	40.0000	0.4641	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin		
Analysis Time	8/25/2023 11:50 AM	Analyst Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Reporter Name	FA\GC27
Last Calib Update	8/25/2023 8:36 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,2-Dichloropropane %RSE = 7.5



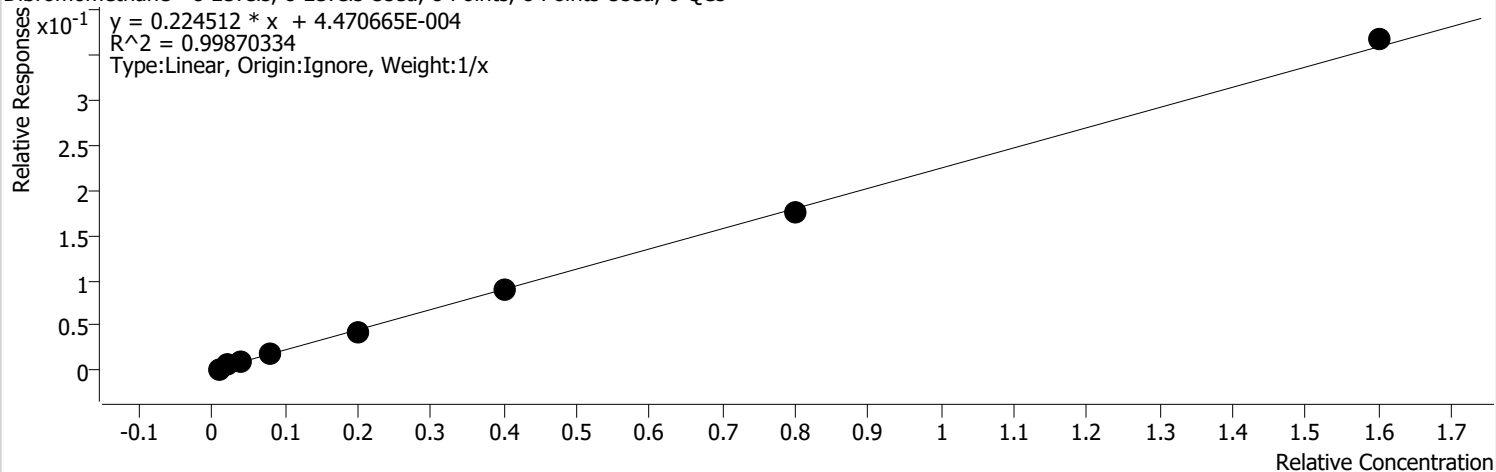
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	7499	0.2000	0.4508	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	19785	0.5000	0.4814	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	36126	1.0000	0.4308	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	77983	2.0000	0.4544	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	169281	5.0000	0.3846	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	358733	10.0000	0.4029	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	746386	20.0000	0.4085	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	1535541	40.0000	0.4113	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin	Analyst Name	FA\GC27
Analysis Time	8/25/2023 11:50 AM	Reporter Name	FA\GC27
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Last Calib Update	8/25/2023 8:36 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Dibromomethane %RSE = 10.2

Dibromomethane - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



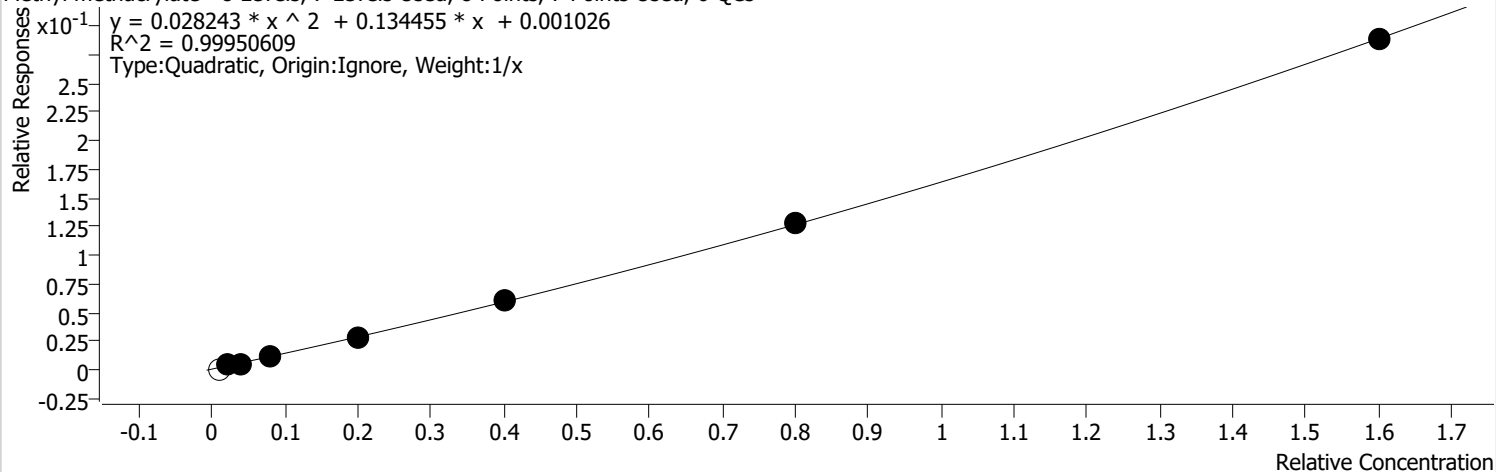
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	4110	0.2000	0.2471	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	11644	0.5000	0.2833	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	21107	1.0000	0.2517	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	40215	2.0000	0.2344	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	91185	5.0000	0.2072	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	197396	10.0000	0.2217	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	402505	20.0000	0.2203	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	857678	40.0000	0.2297	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin		
Analysis Time	8/25/2023 11:50 AM	Analyst Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Reporter Name	FA\GC27
Last Calib Update	8/25/2023 8:36 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Methyl methacrylate %RSE = 10.3

Methyl methacrylate - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 0 QCs



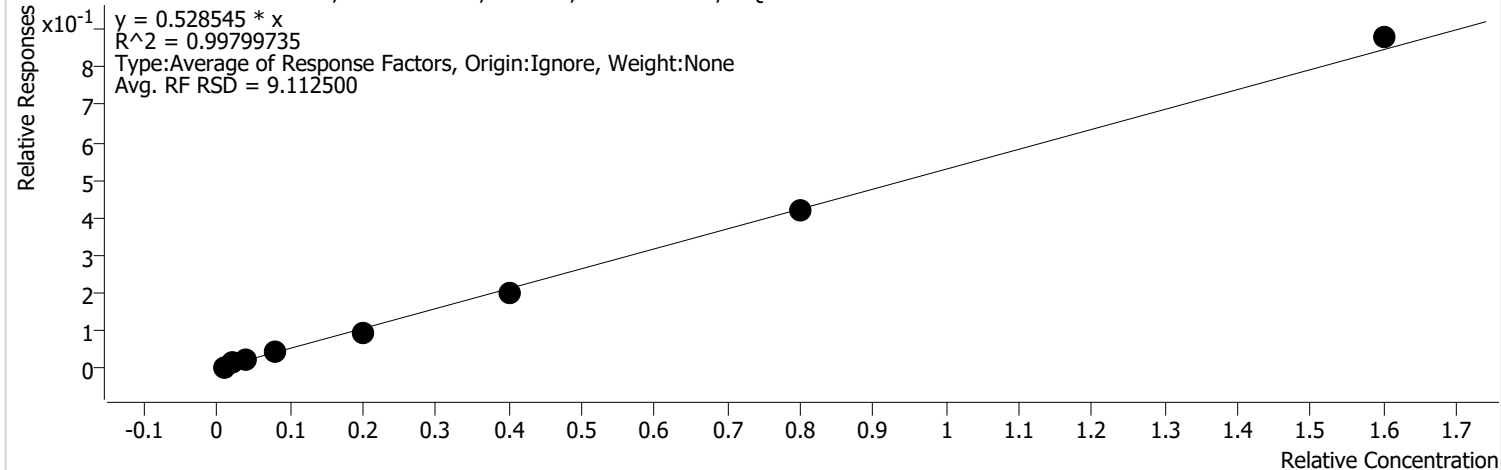
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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D:\GC-27\DATA\082423\082426.D	Calibration	2	x	8586	0.5000	0.2089	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	12372	1.0000	0.1475	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	24421	2.0000	0.1423	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	61173	5.0000	0.1390	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	135048	10.0000	0.1517	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	292639	20.0000	0.1602	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	671087	40.0000	0.1797	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin		
Analysis Time	8/25/2023 11:50 AM	Analyst Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Reporter Name	FA\GC27
Last Calib Update	8/25/2023 8:36 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

bromodichloromethane %RSE = 9.1

bromodichloromethane - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



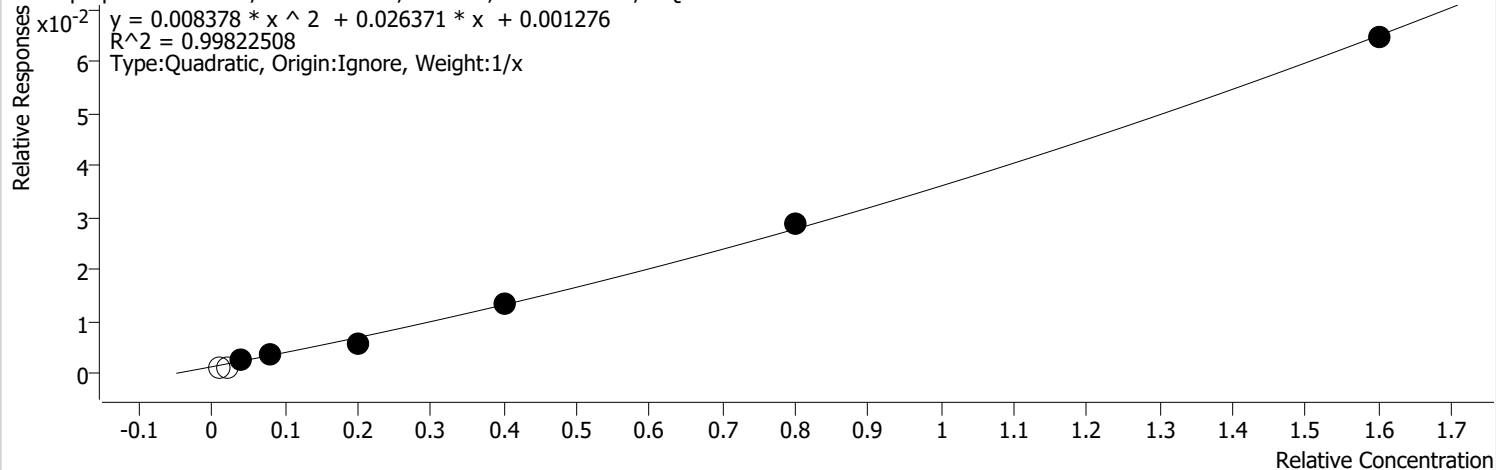
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	8411	0.2000	0.5057	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	25928	0.5000	0.6308	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	43295	1.0000	0.5163	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	91911	2.0000	0.5356	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	205255	5.0000	0.4664	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	445831	10.0000	0.5007	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	958547	20.0000	0.5246	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	2047335	40.0000	0.5484	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin	Analyst Name	FA\GC27
Analysis Time	8/25/2023 11:50 AM	Reporter Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Batch State	Processed
Last Calib Update	8/25/2023 8:36 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

2-Nitropropane %RSE = 10.4

2-Nitropropane - 8 Levels, 6 Levels Used, 8 Points, 6 Points Used, 0 QCs



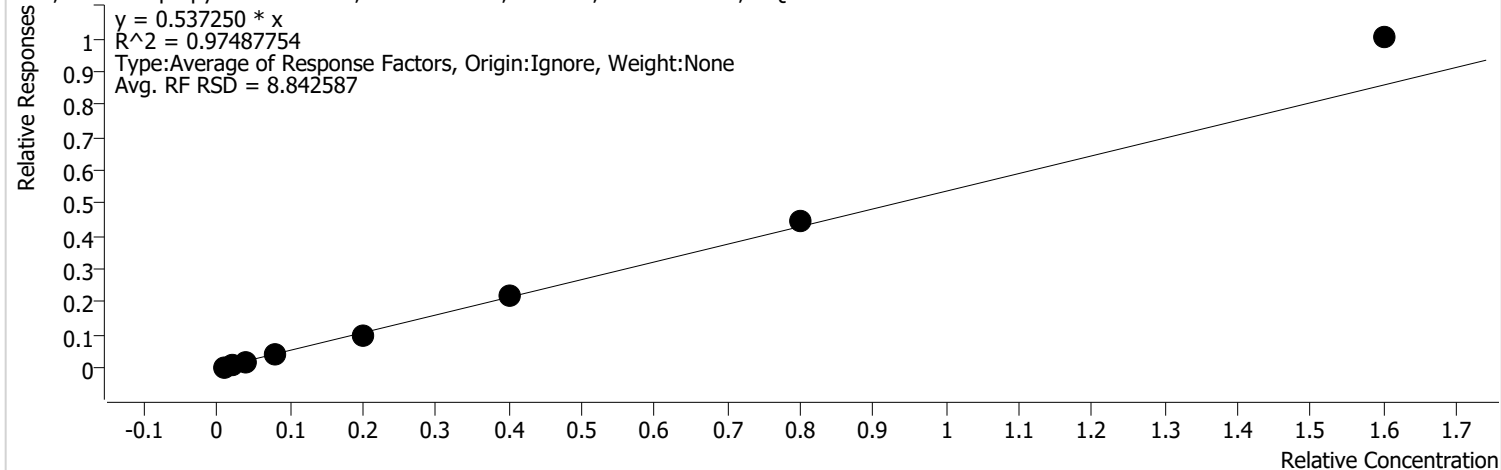
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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D:\GC-27\DATA\082423\082426.D	Calibration	2		2586	0.5000	0.0629	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	5060	1.0000	0.0603	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	7618	2.0000	0.0444	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	13104	5.0000	0.0298	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	29927	10.0000	0.0336	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	65321	20.0000	0.0357	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	150570	40.0000	0.0403	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin		
Analysis Time	8/25/2023 11:50 AM	Analyst Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Reporter Name	FA\GC27
Last Calib Update	8/25/2023 8:36 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

cis-1,3-Dichloropropylene %RSE = 8.8

cis-1,3-Dichloropropylene - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

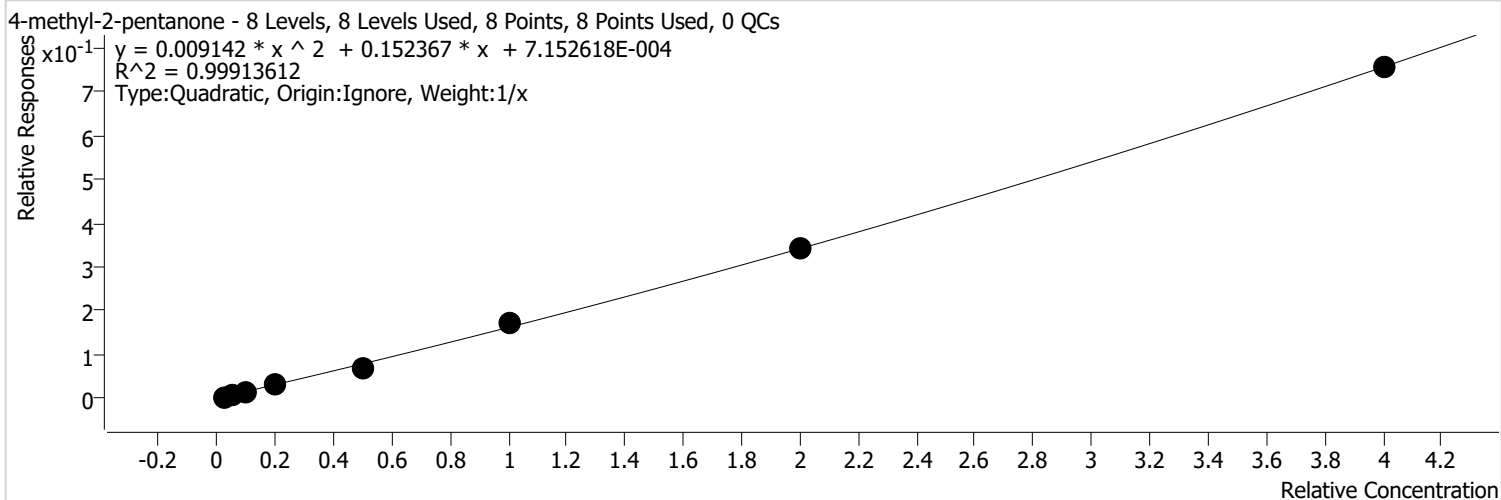


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	7987	0.2000	0.4802	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	23041	0.5000	0.5606	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	42571	1.0000	0.5076	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	90392	2.0000	0.5268	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	215395	5.0000	0.4894	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	485043	10.0000	0.5447	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	1026154	20.0000	0.5616	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	2341394	40.0000	0.6271	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin	Analyst Name	FA\GC27
Analysis Time	8/25/2023 11:50 AM	Reporter Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Batch State	Processed
Last Calib Update	8/25/2023 8:36 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

4-methyl-2-pentanone %RSE = 5.6

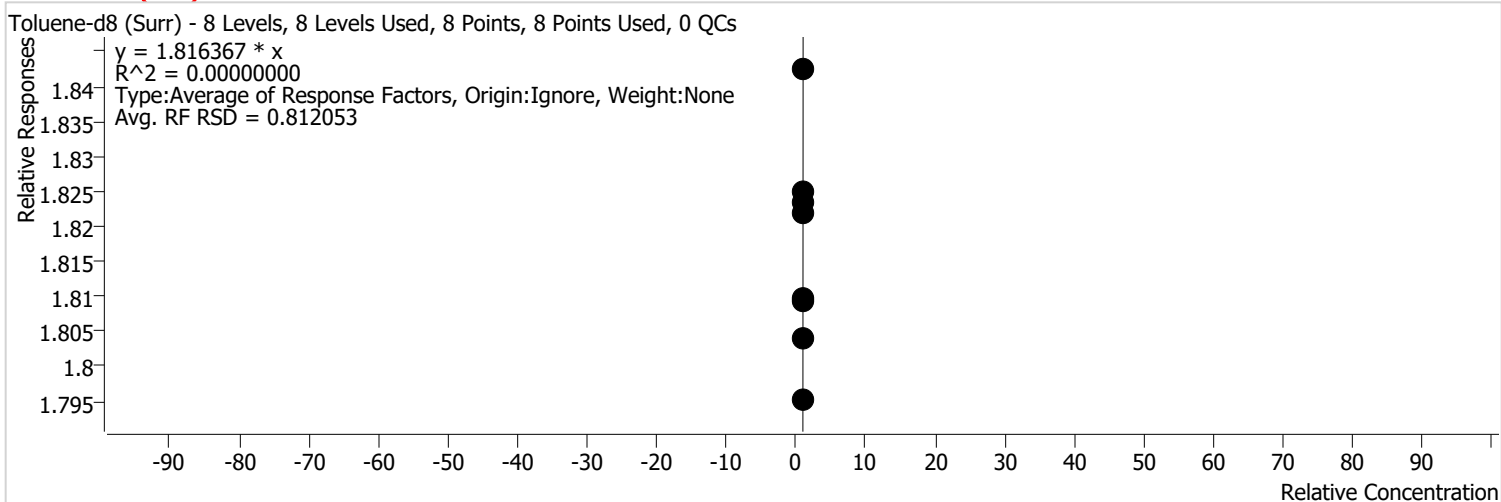


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	7856	0.5000	0.1889	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	18103	1.2500	0.1762	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	33223	2.5000	0.1585	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	67746	5.0000	0.1579	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	156547	12.5000	0.1423	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	378677	25.0000	0.1701	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	785007	50.0000	0.1718	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	1760995	100.0000	0.1887	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin	Analyst Name	FA\GC27
Analysis Time	8/25/2023 11:50 AM	Reporter Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Batch State	Processed
Last Calib Update	8/25/2023 8:36 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Toluene-d8 (Surr) %RSE =



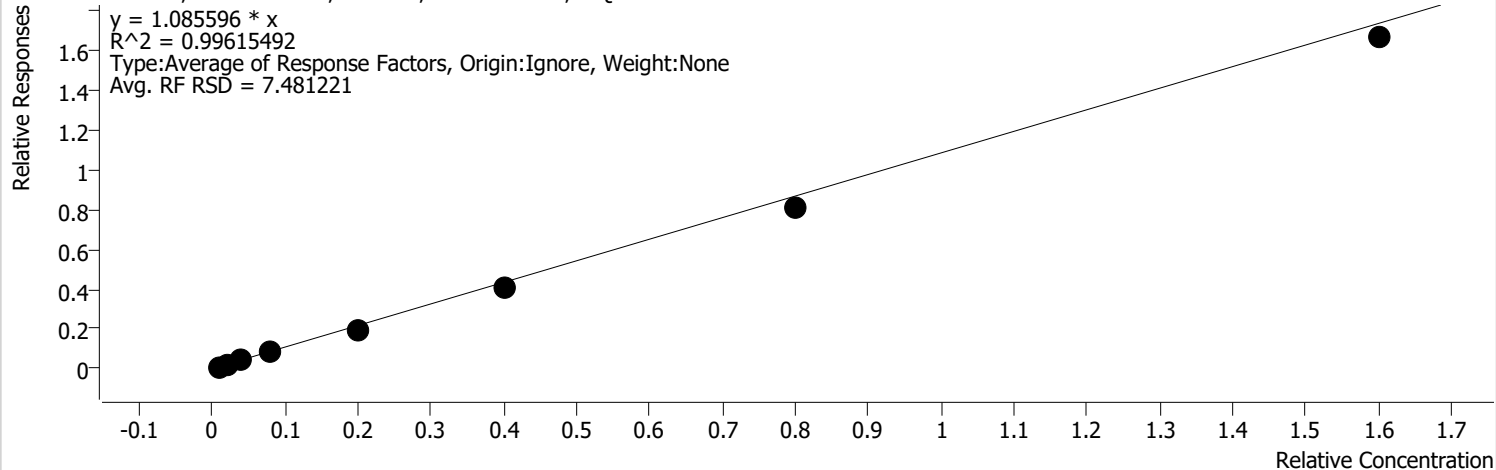
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	4258300	25.0000	1.8249	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	4100661	25.0000	1.7953	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	4101341	25.0000	1.8424	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	4013107	25.0000	1.8236	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	3881201	25.0000	1.8094	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	3819320	25.0000	1.8218	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	3707006	25.0000	1.8038	
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	3762816	25.0000	1.8098	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin		
Analysis Time	8/25/2023 11:50 AM	Analyst Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Reporter Name	FA\GC27
Last Calib Update	8/25/2023 8:36 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Toluene %RSE = 7.5

Toluene - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



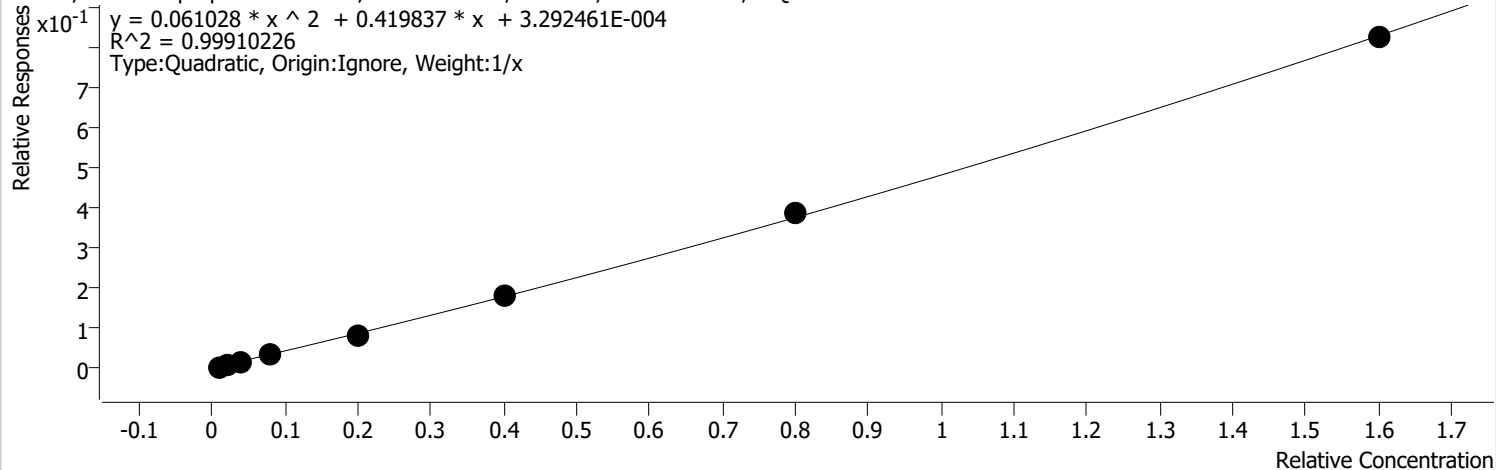
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	19450	0.2000	1.1694	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	50242	0.5000	1.2224	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	93831	1.0000	1.1189	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	188824	2.0000	1.1004	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	437568	5.0000	0.9942	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	906990	10.0000	1.0186	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	1864467	20.0000	1.0204	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	3885318	40.0000	1.0406	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin	Analyst Name	FA\GC27
Analysis Time	8/25/2023 11:50 AM	Reporter Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Batch State	Processed
Last Calib Update	8/25/2023 8:36 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

trans-1,3-Dichloropropene %RSE = 11.9

trans-1,3-Dichloropropene - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



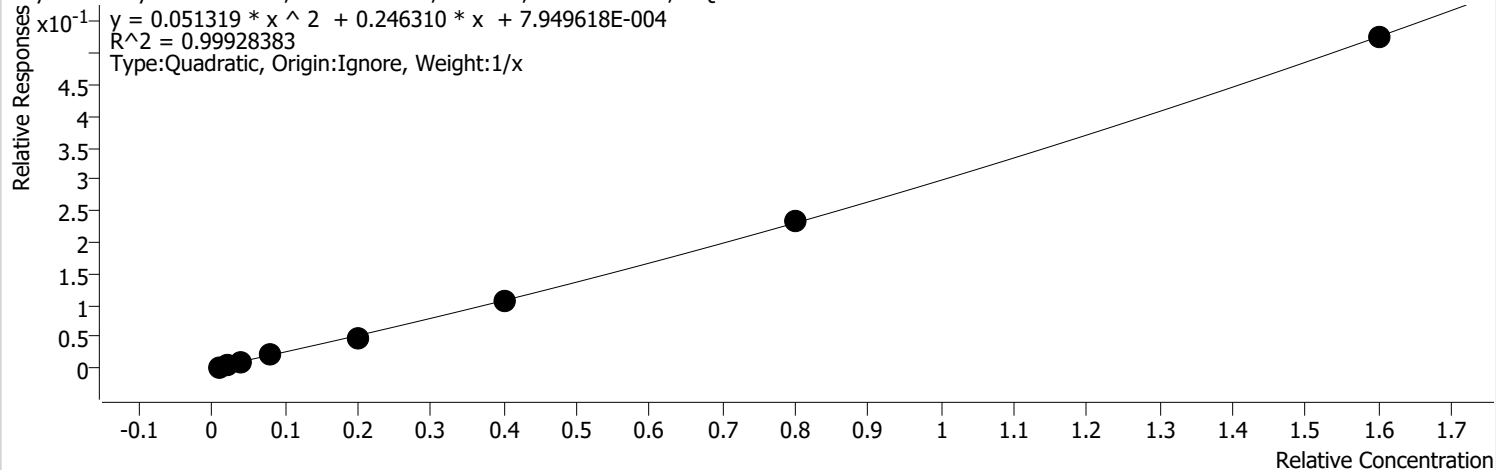
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	6848	0.2000	0.4117	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	21804	0.5000	0.5305	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	34756	1.0000	0.4145	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	73072	2.0000	0.4258	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	175596	5.0000	0.3990	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	395761	10.0000	0.4445	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	883045	20.0000	0.4833	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	1921785	40.0000	0.5147	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin		
Analysis Time	8/25/2023 11:50 AM	Analyst Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Reporter Name	FA\GC27
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Quant Batch Version	10.0	Quant Report Version	10.0

Ethyl methacrylate %RSE = 14.4

Ethyl methacrylate - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

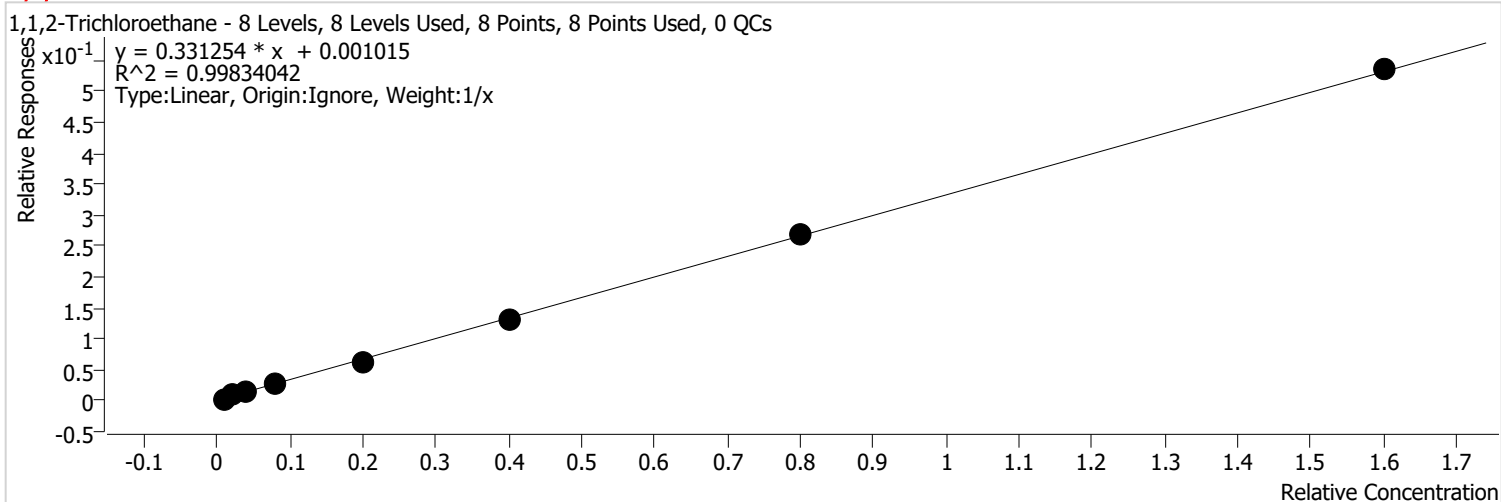


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	5008	0.2000	0.3011	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	14361	0.5000	0.3494	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	21720	1.0000	0.2590	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	45635	2.0000	0.2659	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	106344	5.0000	0.2416	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	240664	10.0000	0.2703	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	535771	20.0000	0.2932	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	1224222	40.0000	0.3279	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin		
Analysis Time	8/25/2023 11:50 AM	Analyst Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Reporter Name	FA\GC27
Last Calib Update	8/25/2023 8:36 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,1,2-Trichloroethane %RSE = 15.3

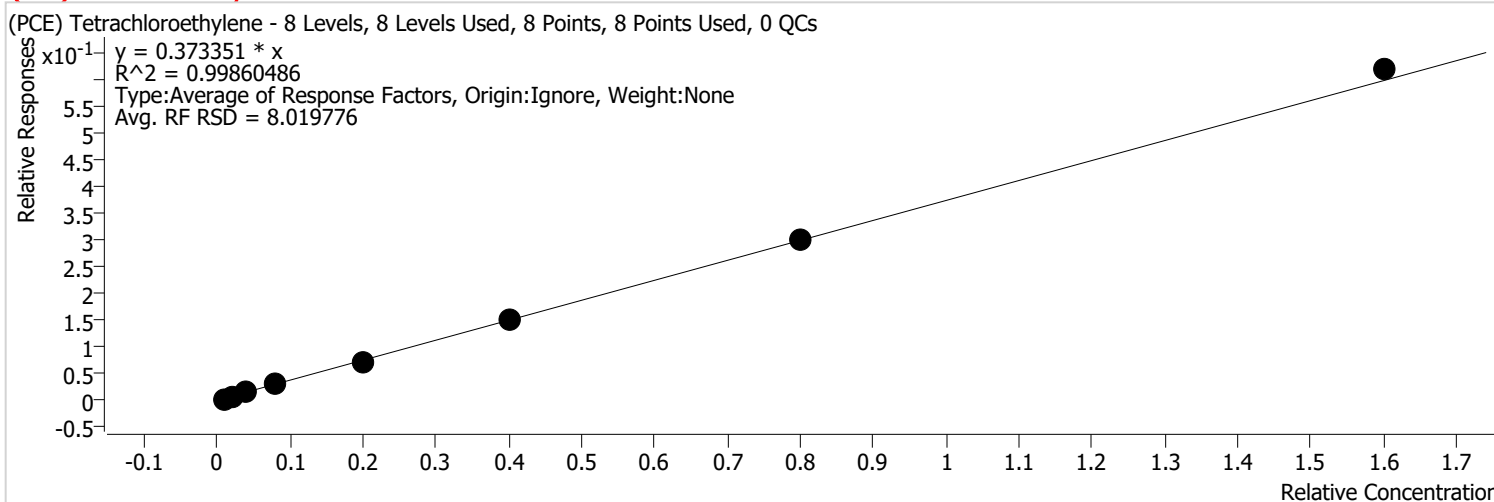


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	6359	0.2000	0.3823	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	19384	0.5000	0.4716	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	30498	1.0000	0.3637	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	61399	2.0000	0.3578	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	131567	5.0000	0.2989	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	294948	10.0000	0.3312	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	613523	20.0000	0.3358	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	1246930	40.0000	0.3340	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin		
Analysis Time	8/25/2023 11:50 AM	Analyst Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Reporter Name	FA\GC27
Last Calib Update	8/25/2023 8:36 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

(PCE) Tetrachloroethylene %RSE = 8.0



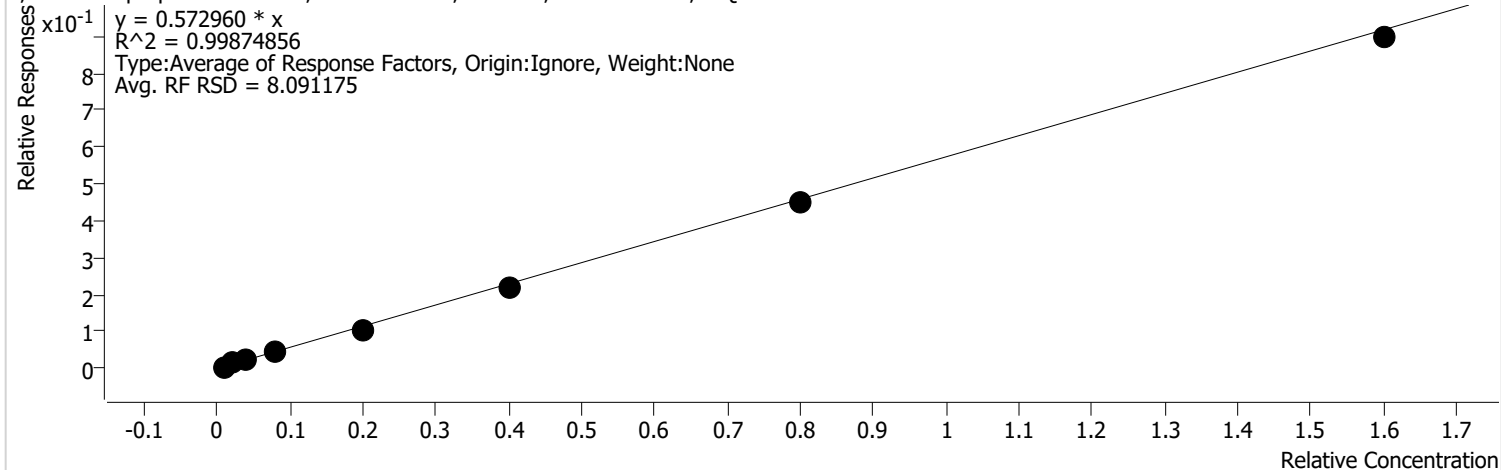
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	5171	0.2000	0.3109	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	15693	0.5000	0.3818	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	32670	1.0000	0.3896	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	70871	2.0000	0.4130	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	156921	5.0000	0.3565	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	330813	10.0000	0.3715	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	689618	20.0000	0.3774	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	1441535	40.0000	0.3861	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin		
Analysis Time	8/25/2023 11:50 AM	Analyst Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Reporter Name	FA\GC27
Last Calib Update	8/25/2023 8:36 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,3-Dichloropropane %RSE = 8.1

1,3-Dichloropropane - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



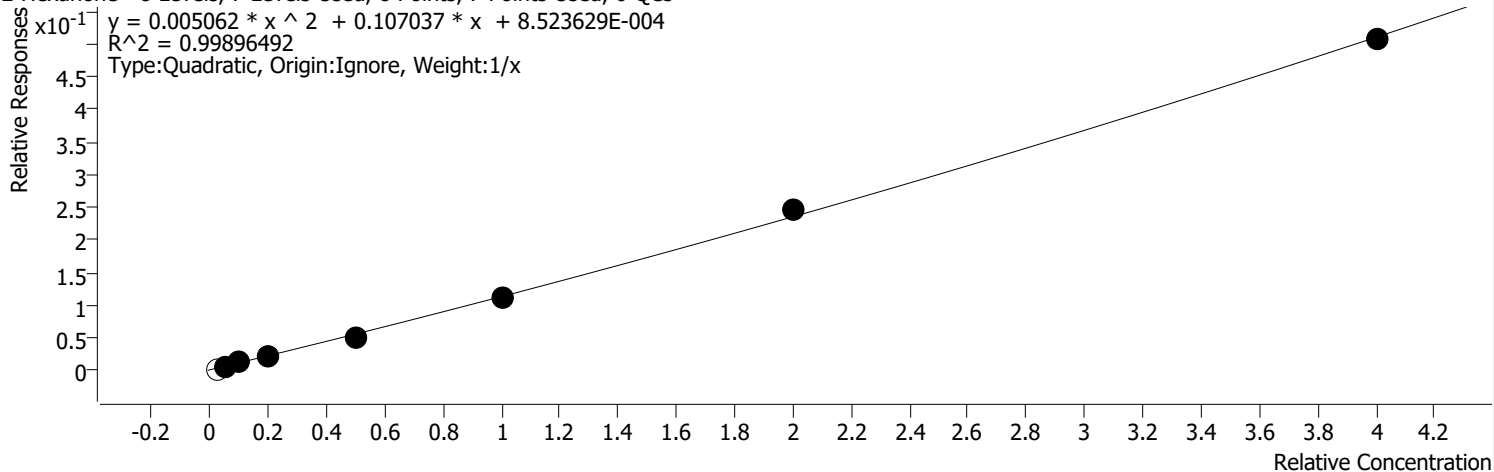
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	9459	0.2000	0.5687	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	27669	0.5000	0.6732	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	48014	1.0000	0.5725	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	101417	2.0000	0.5910	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	225739	5.0000	0.5129	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	487229	10.0000	0.5472	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	1020789	20.0000	0.5586	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	2089060	40.0000	0.5595	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin	Analyst Name	FA\GC27
Analysis Time	8/25/2023 11:50 AM	Reporter Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Batch State	Processed
Last Calib Update	8/25/2023 8:36 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

2-Hexanone %RSE = 5.6

2-Hexanone - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 0 QCs



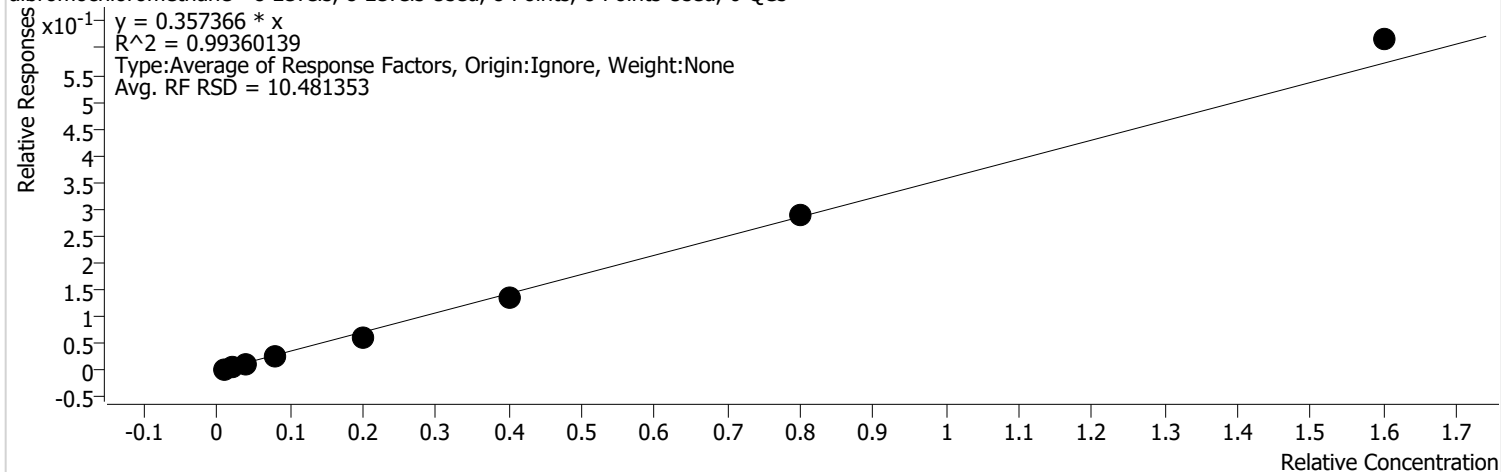
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1		4845	0.5000	0.1165	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	13378	1.2500	0.1302	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	24870	2.5000	0.1186	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	47526	5.0000	0.1108	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	112148	12.5000	0.1019	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	248068	25.0000	0.1114	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	559892	50.0000	0.1226	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	1180708	100.0000	0.1265	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin		
Analysis Time	8/25/2023 11:50 AM	Analyst Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Reporter Name	FA\GC27
Last Calib Update	8/25/2023 8:36 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

dibromochloromethane %RSE = 10.5

dibromochloromethane - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



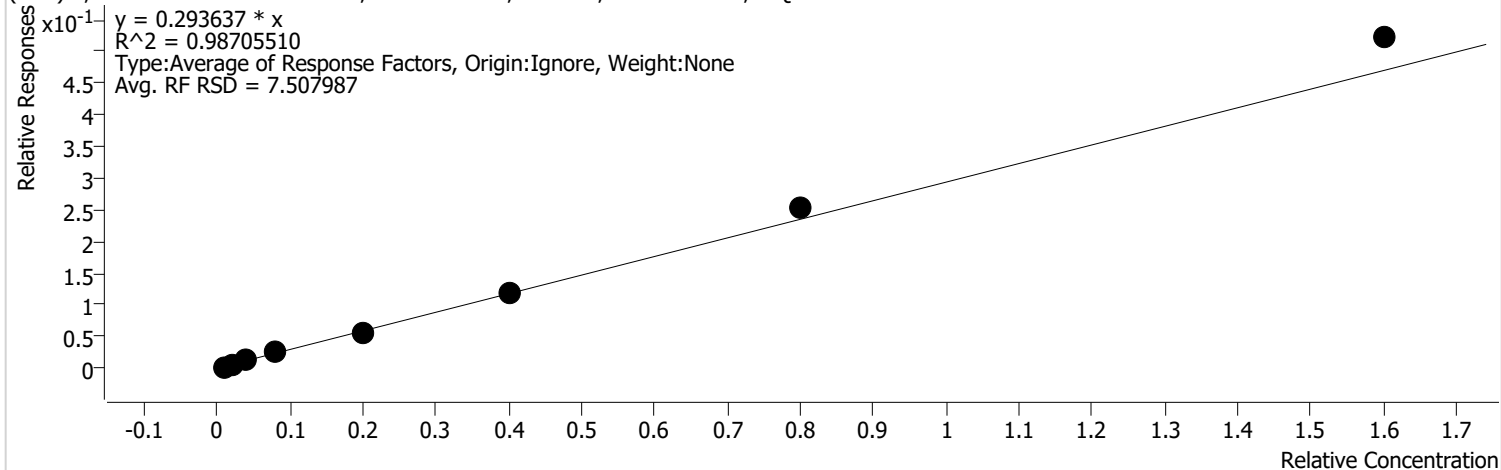
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	6429	0.2000	0.3865	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	17275	0.5000	0.4203	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	26466	1.0000	0.3156	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	57253	2.0000	0.3336	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	139222	5.0000	0.3163	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	303826	10.0000	0.3412	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	658991	20.0000	0.3606	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	1436454	40.0000	0.3847	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin	Analyst Name	FA\GC27
Analysis Time	8/25/2023 11:50 AM	Reporter Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Batch State	Processed
Last Calib Update	8/25/2023 8:36 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

(EDB) 1,2-Dibromoethane %RSE = 7.5

(EDB) 1,2-Dibromoethane - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



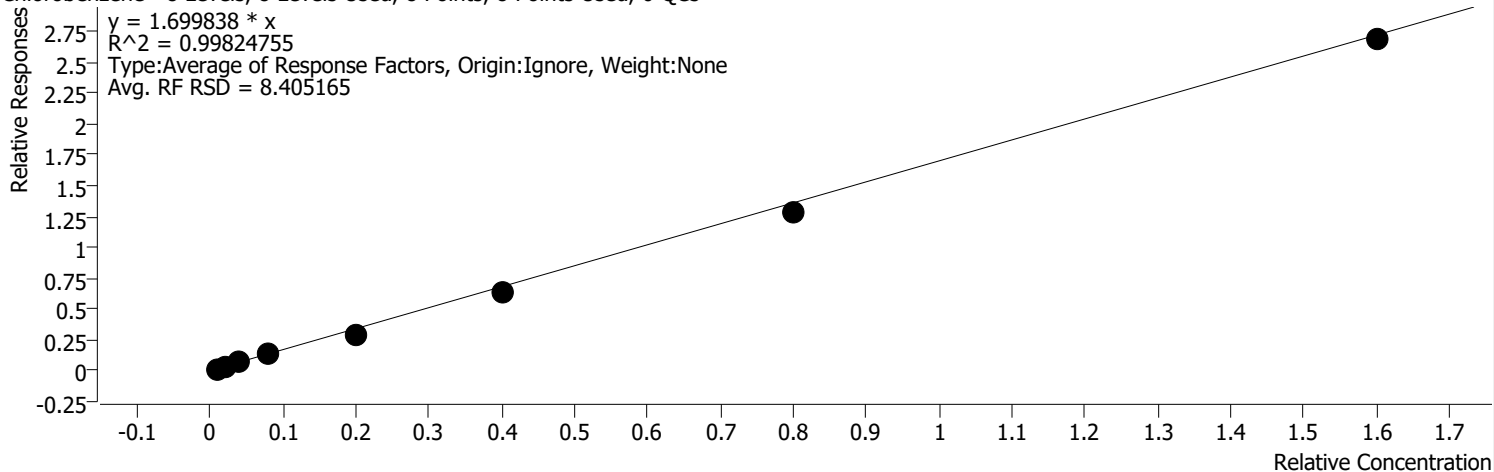
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	4213	0.2000	0.2533	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	12083	0.5000	0.2940	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	23597	1.0000	0.2814	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	51061	2.0000	0.2976	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	125139	5.0000	0.2843	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	264853	10.0000	0.2974	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	575735	20.0000	0.3151	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	1217236	40.0000	0.3260	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin		
Analysis Time	8/25/2023 11:50 AM	Analyst Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Reporter Name	FA\GC27
Last Calib Update	8/25/2023 8:36 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Chlorobenzene %RSE = 8.4

Chlorobenzene - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

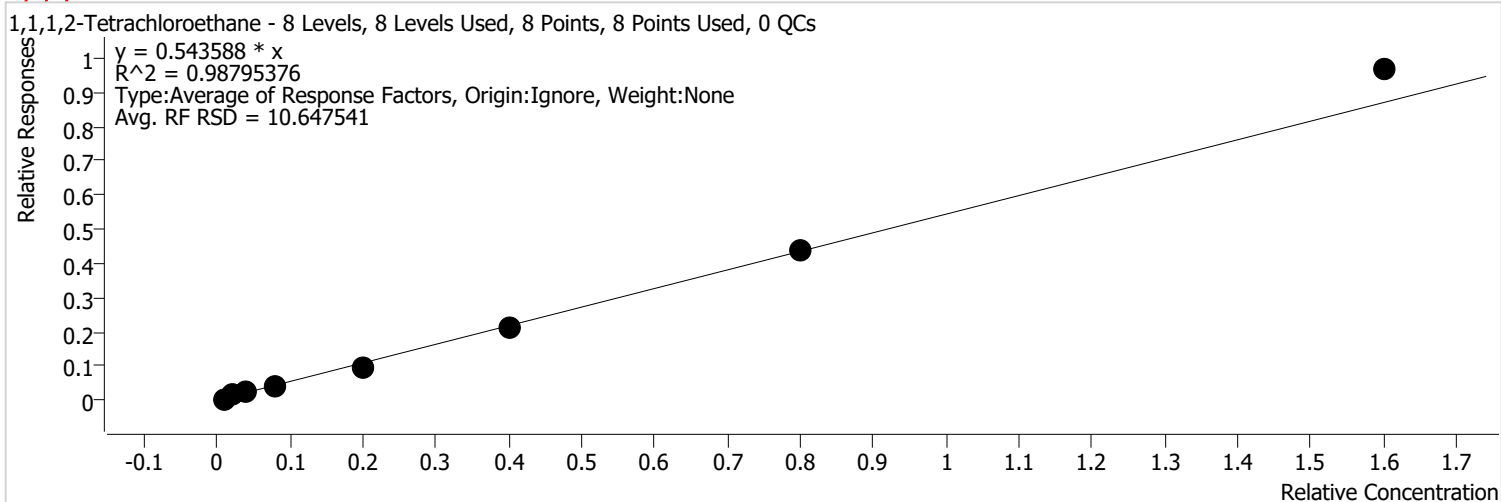


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	21219	0.2000	1.7979	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	57738	0.5000	1.9450	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	107721	1.0000	1.7253	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	223897	2.0000	1.7663	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	471834	5.0000	1.4767	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	1058164	10.0000	1.6055	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	2146029	20.0000	1.6059	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	4465938	40.0000	1.6760	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin	Analyst Name	FA\GC27
Analysis Time	8/25/2023 11:50 AM	Reporter Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Batch State	Processed
Last Calib Update	8/25/2023 8:36 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

1,1,1,2-Tetrachloroethane %RSE = 10.6



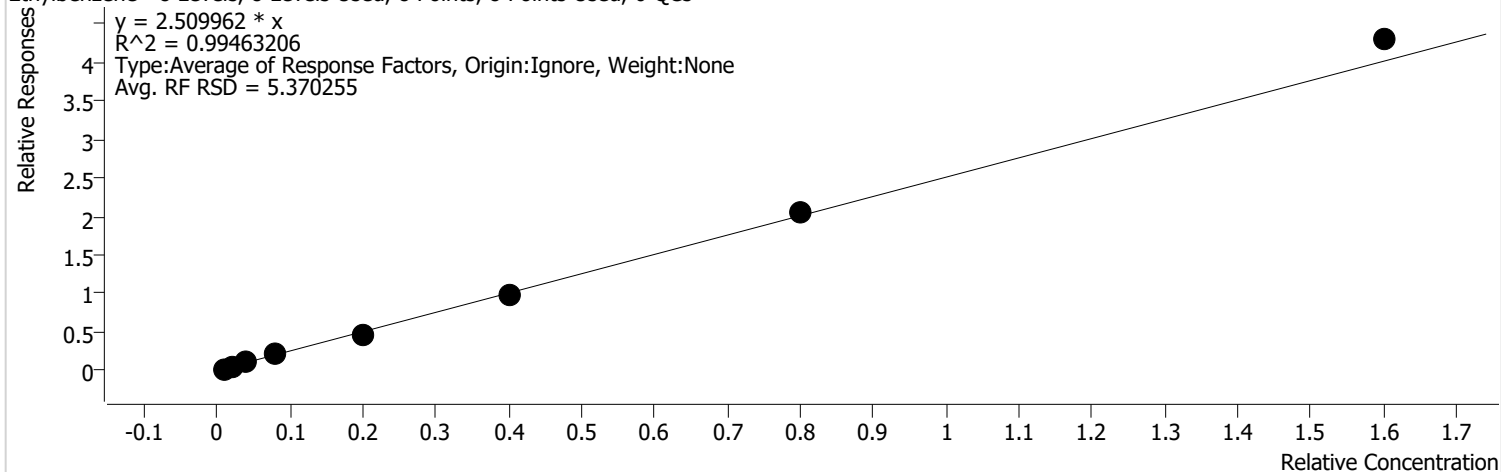
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	5534	0.2000	0.4689	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	19111	0.5000	0.6438	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	32252	1.0000	0.5166	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	68435	2.0000	0.5399	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	155050	5.0000	0.4853	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	355158	10.0000	0.5389	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	737403	20.0000	0.5518	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	1608313	40.0000	0.6036	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin		
Analysis Time	8/25/2023 11:50 AM	Analyst Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Reporter Name	FA\GC27
Last Calib Update	8/25/2023 8:36 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Ethylbenzene %RSE = 5.4

Ethylbenzene - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

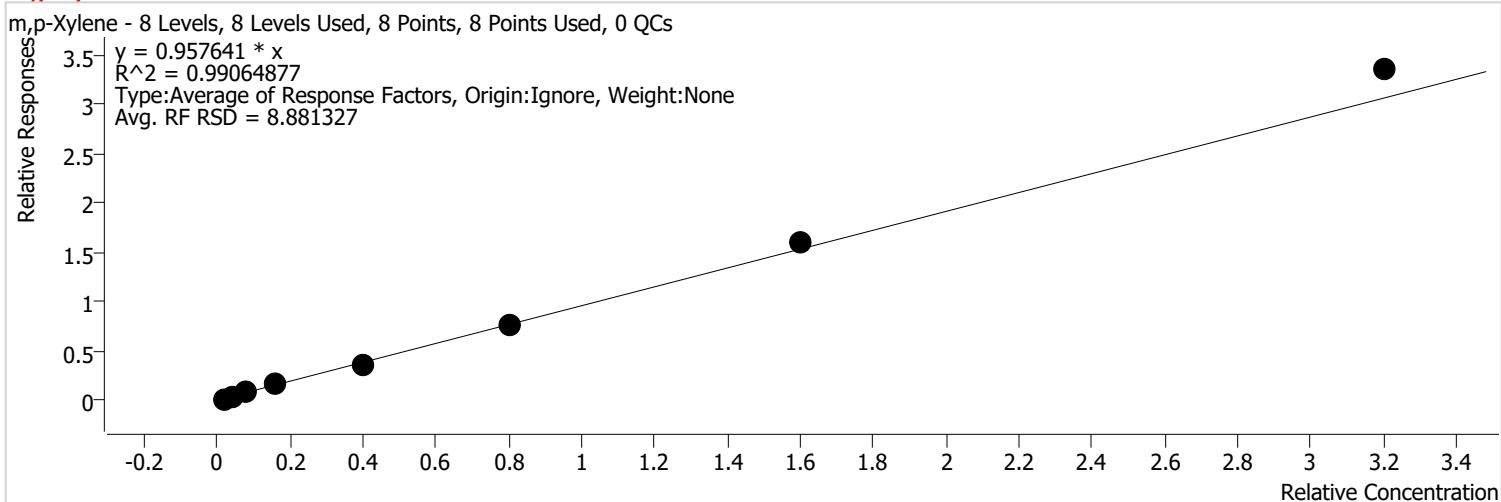


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	28749	0.2000	2.4359	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	78128	0.5000	2.6319	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	150681	1.0000	2.4134	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	330012	2.0000	2.6034	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	730279	5.0000	2.2855	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	1614626	10.0000	2.4499	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	3440898	20.0000	2.5748	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	7153868	40.0000	2.6848	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin		
Analysis Time	8/25/2023 11:50 AM	Analyst Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Reporter Name	FA\GC27
Last Calib Update	8/25/2023 8:36 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

m,p-Xylene %RSE = 8.9

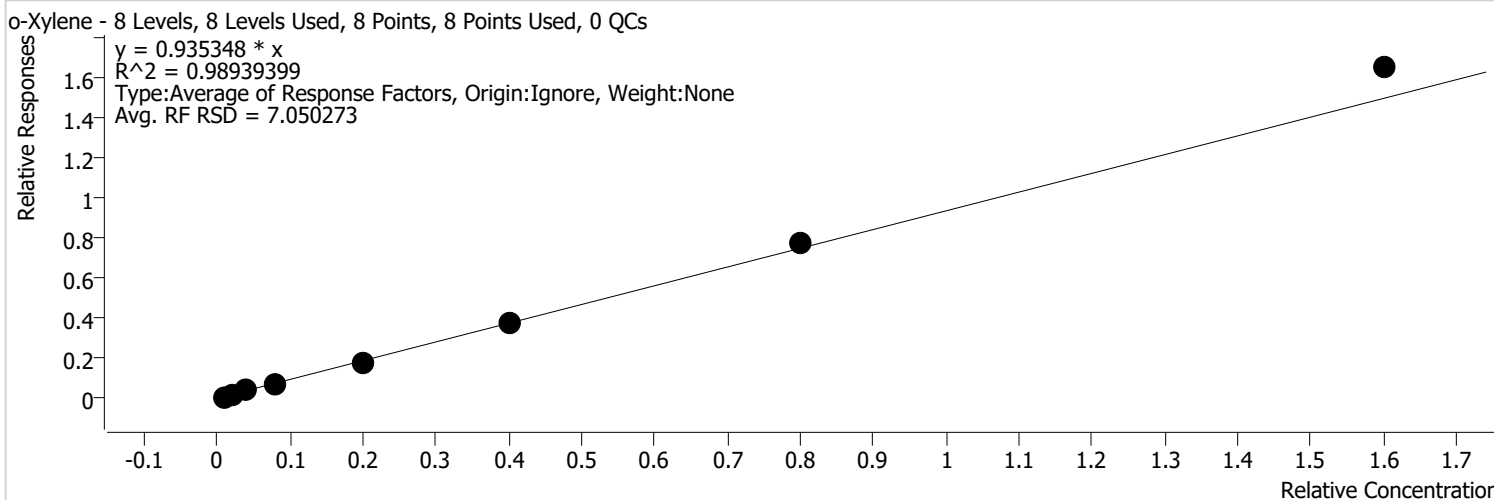


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	18965	0.4000	0.8035	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	62503	1.0000	1.0528	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	115098	2.0000	0.9217	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	252273	4.0000	0.9951	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	565868	10.0000	0.8855	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	1258812	20.0000	0.9550	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	2672127	40.0000	0.9998	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	5584033	80.0000	1.0478	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin	Analyst Name	FA\GC27
Analysis Time	8/25/2023 11:50 AM	Reporter Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Batch State	Processed
Last Calib Update	8/25/2023 8:36 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

o-Xylene %RSE = 7.1

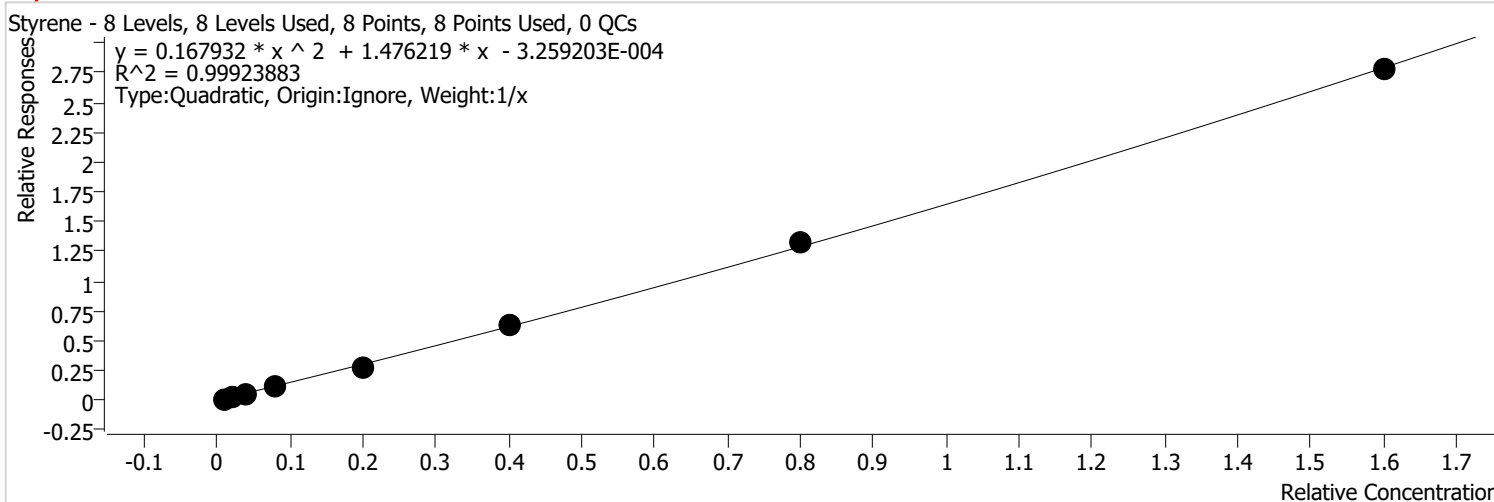


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	10083	0.2000	0.8543	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	30153	0.5000	1.0158	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	55777	1.0000	0.8934	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	117989	2.0000	0.9308	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	275146	5.0000	0.8611	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	613315	10.0000	0.9306	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	1290600	20.0000	0.9658	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	2747389	40.0000	1.0311	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin	Analyst Name	FA\GC27
Analysis Time	8/25/2023 11:50 AM	Reporter Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Batch State	Processed
Last Calib Update	8/25/2023 8:36 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Styrene %RSE = 7.6



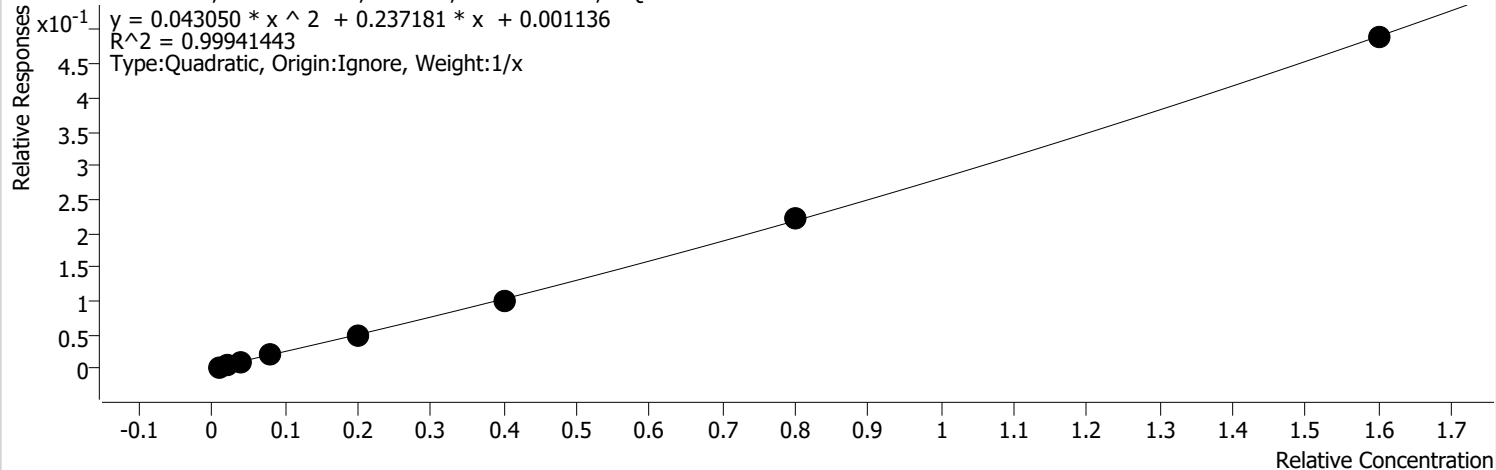
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	16826	0.2000	1.4257	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	49111	0.5000	1.6544	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	85633	1.0000	1.3715	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	188118	2.0000	1.4840	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	442825	5.0000	1.3859	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	1023908	10.0000	1.5536	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	2213742	20.0000	1.6566	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	4621356	40.0000	1.7344	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin	Analyst Name	FA\GC27
Analysis Time	8/25/2023 11:50 AM	Reporter Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Batch State	Processed
Last Calib Update	8/25/2023 8:36 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Bromoform %RSE = 11.6

Bromoform - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

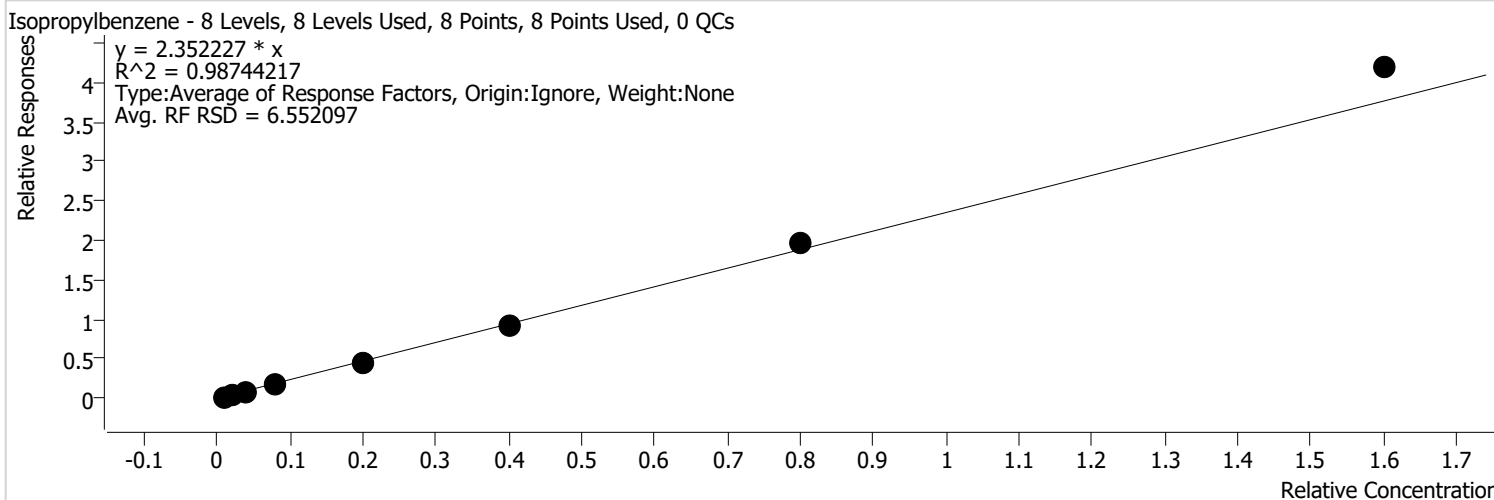


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	4014	0.2000	0.3401	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	10061	0.5000	0.3389	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	17347	1.0000	0.2778	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	31870	2.0000	0.2514	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	75887	5.0000	0.2375	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	167436	10.0000	0.2541	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	373888	20.0000	0.2798	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	814030	40.0000	0.3055	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin		
Analysis Time	8/25/2023 11:50 AM	Analyst Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Reporter Name	FA\GC27
Last Calib Update	8/25/2023 8:36 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Isopropylbenzene %RSE = 6.6

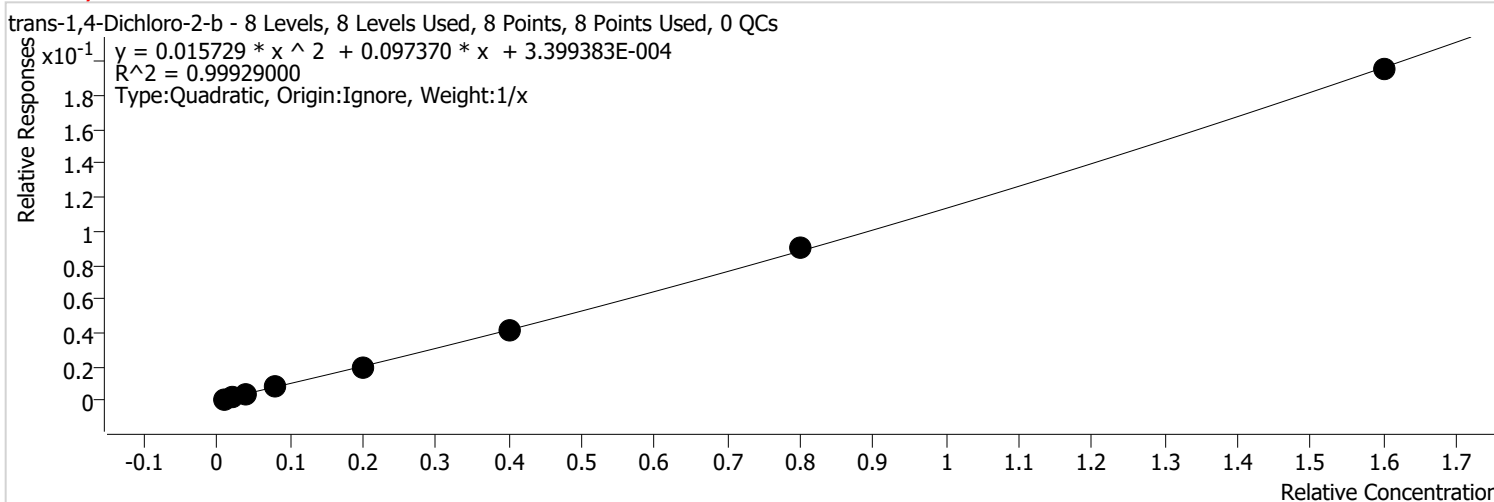


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	25759	0.2000	2.1826	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	73969	0.5000	2.4918	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	139640	1.0000	2.2365	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	293216	2.0000	2.3131	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	701477	5.0000	2.1954	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	1540499	10.0000	2.3374	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	3266804	20.0000	2.4446	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	6971526	40.0000	2.6164	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin		
Analysis Time	8/25/2023 11:50 AM	Analyst Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Reporter Name	FA\GC27
Last Calib Update	8/25/2023 8:36 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

trans-1,4-Dichloro-2-b %RSE = 9.3

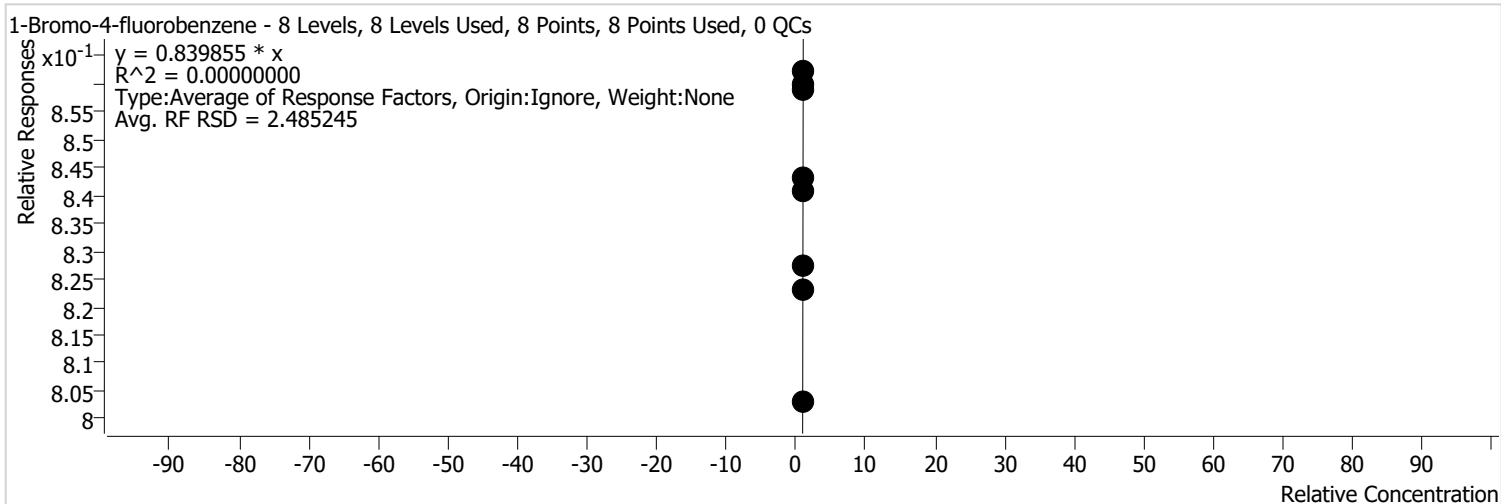


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	1855	0.2000	0.1572	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	3281	0.5000	0.1105	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	6351	1.0000	0.1017	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	12406	2.0000	0.0979	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	30340	5.0000	0.0950	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	69817	10.0000	0.1059	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	152037	20.0000	0.1138	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	324919	40.0000	0.1219	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin		
Analysis Time	8/25/2023 11:50 AM	Analyst Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Reporter Name	FA\GC27
Last Calib Update	8/25/2023 8:36 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1-Bromo-4-fluorobenzene %RSE =



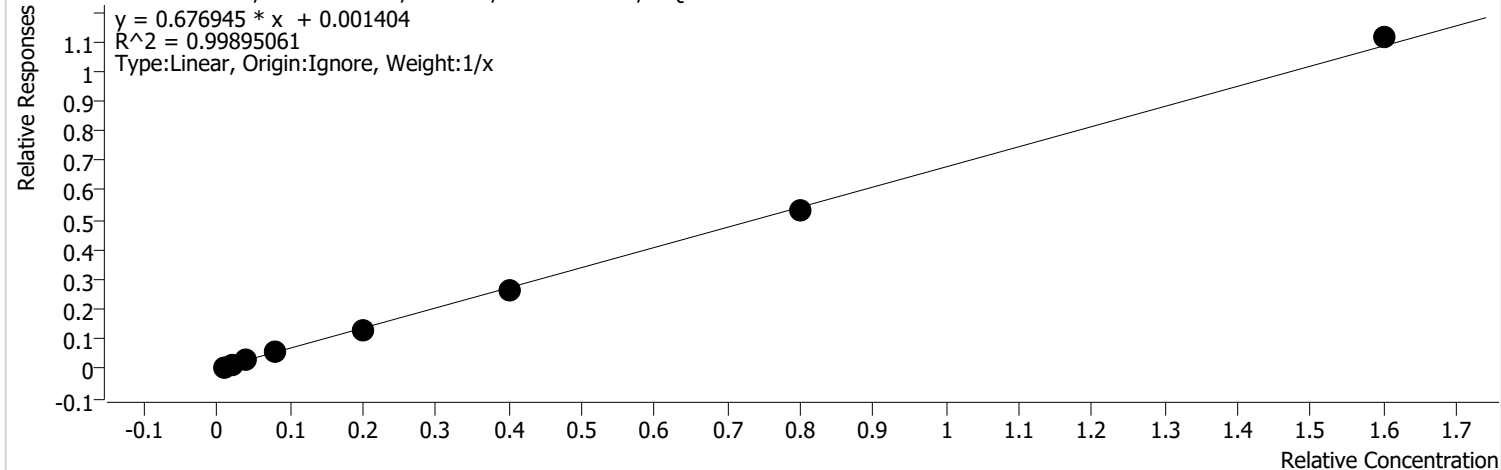
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	1400636	25.0000	0.8410	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	1440225	25.0000	0.8622	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	1389661	25.0000	0.8434	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	1373605	25.0000	0.8598	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	1304028	25.0000	0.8230	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	1291581	25.0000	0.8275	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	1192148	25.0000	0.8032	
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	1266907	25.0000	0.8588	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin	Analyst Name	FA\GC27
Analysis Time	8/25/2023 11:50 AM	Reporter Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Batch State	Processed
Last Calib Update	8/25/2023 8:36 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Bromobenzene %RSE = 5.8

Bromobenzene - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

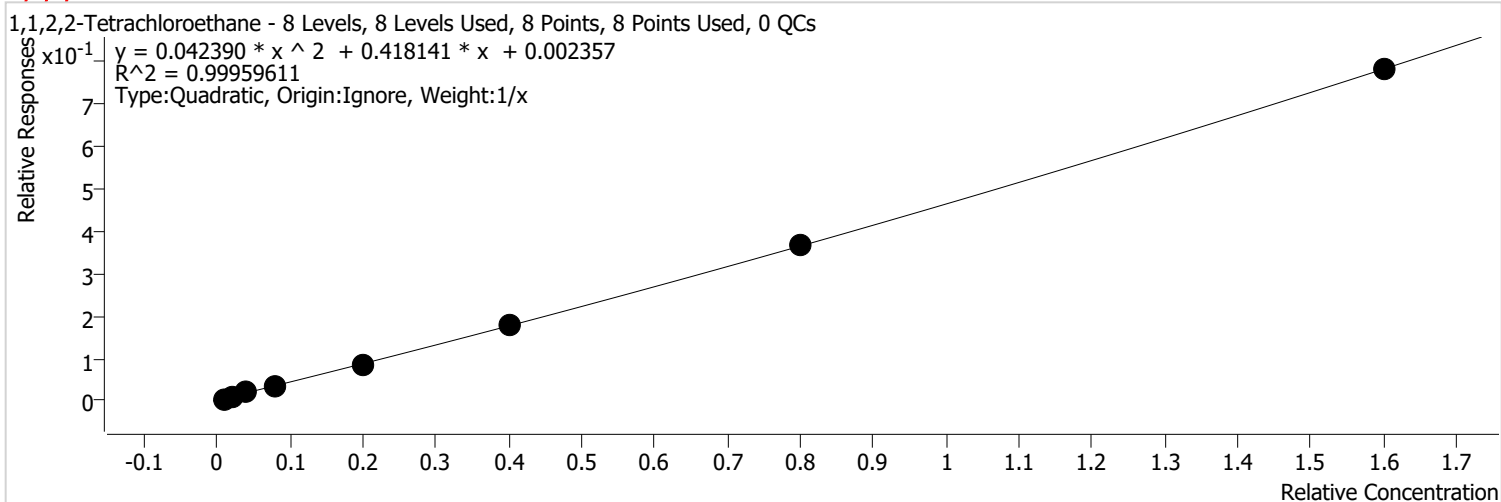


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	9818	0.2000	0.8319	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	24352	0.5000	0.8203	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	45469	1.0000	0.7283	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	87521	2.0000	0.6904	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	203935	5.0000	0.6382	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	433563	10.0000	0.6578	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	888459	20.0000	0.6648	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	1852159	40.0000	0.6951	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin	Analyst Name	FA\GC27
Analysis Time	8/25/2023 11:50 AM	Reporter Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Batch State	Processed
Last Calib Update	8/25/2023 8:36 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

1,1,2,2-Tetrachloroethane %RSE = 10.5

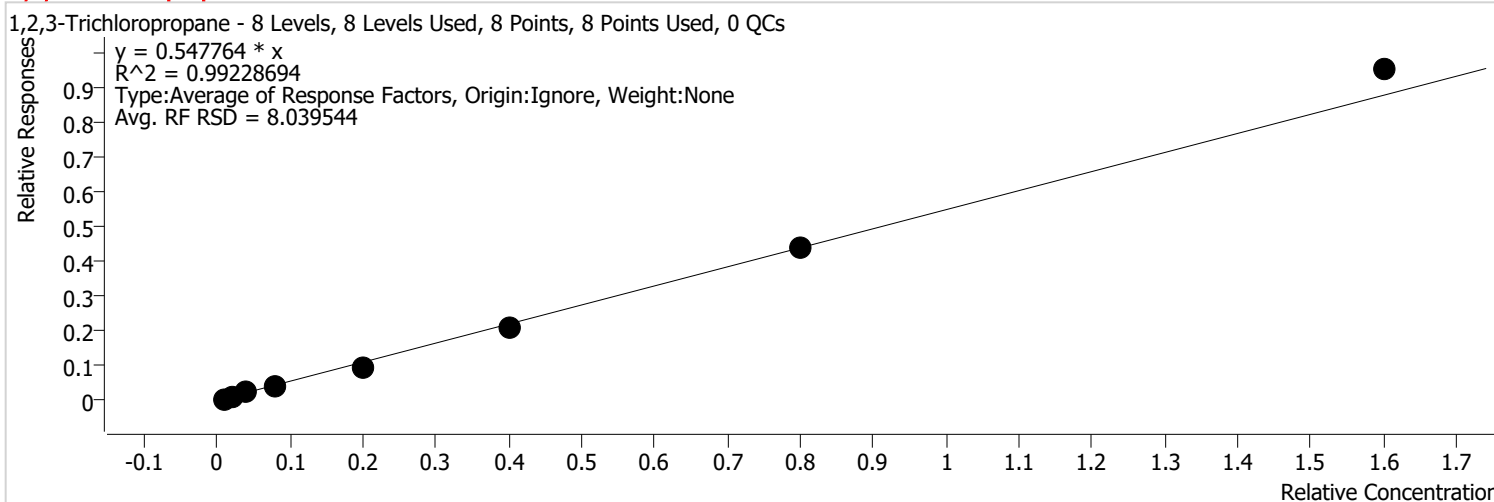


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	7634	0.2000	0.6468	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	17957	0.5000	0.6049	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	30383	1.0000	0.4866	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	58138	2.0000	0.4586	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	133030	5.0000	0.4163	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	291146	10.0000	0.4418	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	614465	20.0000	0.4598	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	1296311	40.0000	0.4865	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin		
Analysis Time	8/25/2023 11:50 AM	Analyst Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Reporter Name	FA\GC27
Last Calib Update	8/25/2023 8:36 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,2,3-Trichloropropane %RSE = 8.0



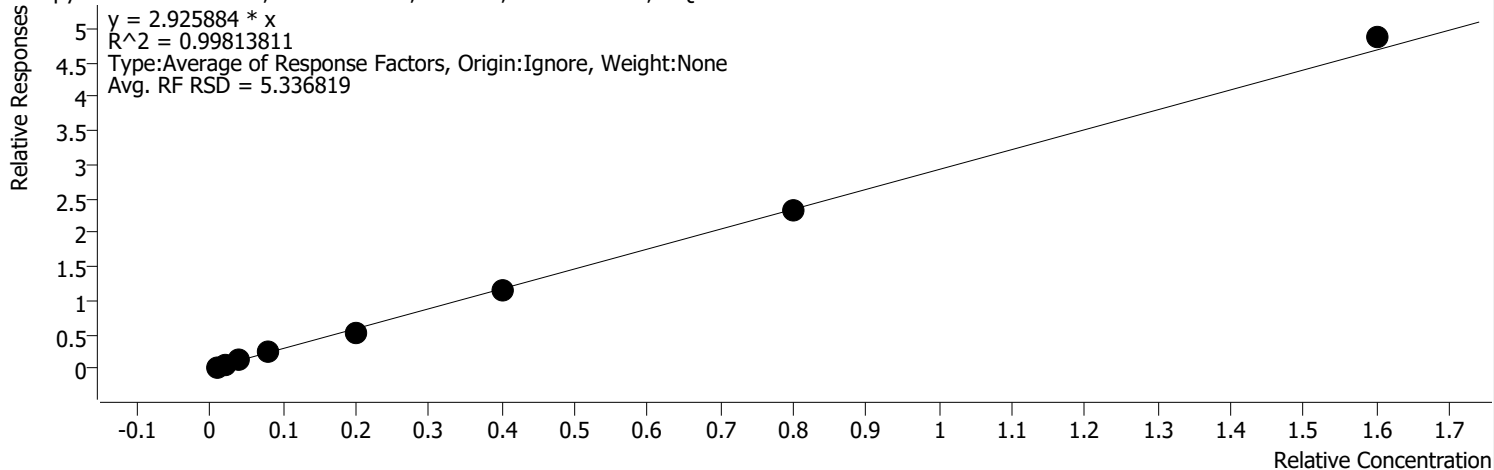
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	6364	0.2000	0.5392	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	17545	0.5000	0.5910	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	36997	1.0000	0.5926	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	67827	2.0000	0.5351	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	149959	5.0000	0.4693	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	338162	10.0000	0.5131	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	732530	20.0000	0.5482	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	1581823	40.0000	0.5936	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin		
Analysis Time	8/25/2023 11:50 AM	Analyst Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Reporter Name	FA\GC27
Last Calib Update	8/25/2023 8:36 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

n-Propylbenzene %RSE = 5.3

n-Propylbenzene - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



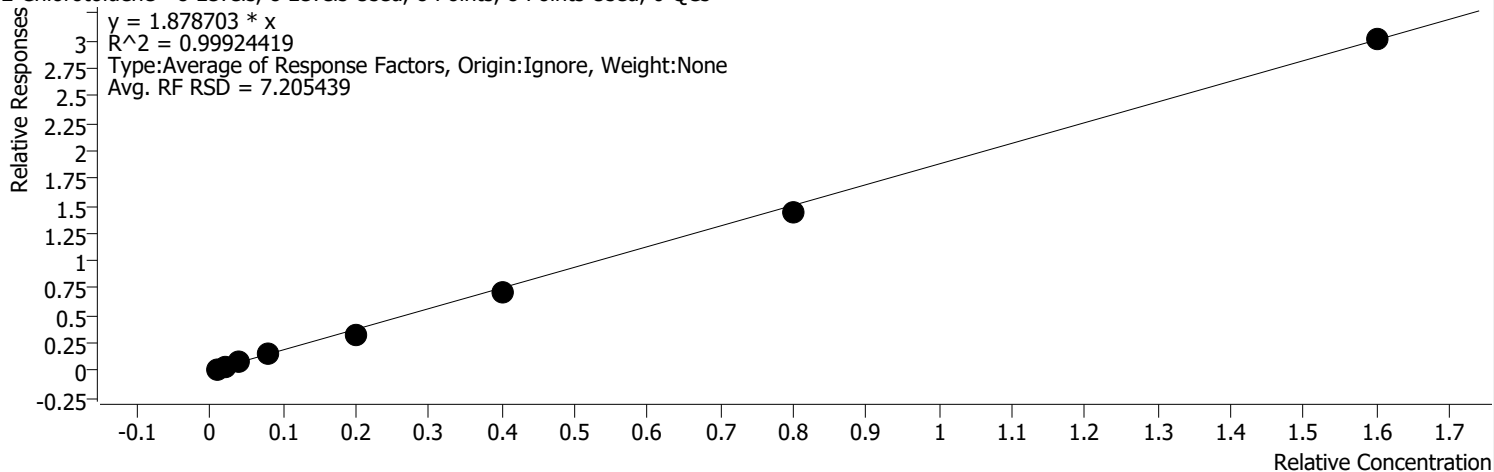
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	36305	0.2000	3.0762	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	93484	0.5000	3.1492	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	178751	1.0000	2.8630	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	362819	2.0000	2.8622	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	851390	5.0000	2.6645	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	1865601	10.0000	2.8307	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	3904919	20.0000	2.9221	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	8098250	40.0000	3.0392	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin		
Analysis Time	8/25/2023 11:50 AM	Analyst Name	FA\GC27
Report Time	8/25/2023 11:58:30 AM	Reporter Name	FA\GC27
Last Calib Update	8/25/2023 8:36 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

2-Chlorotoluene %RSE = 7.2

2-Chlorotoluene - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

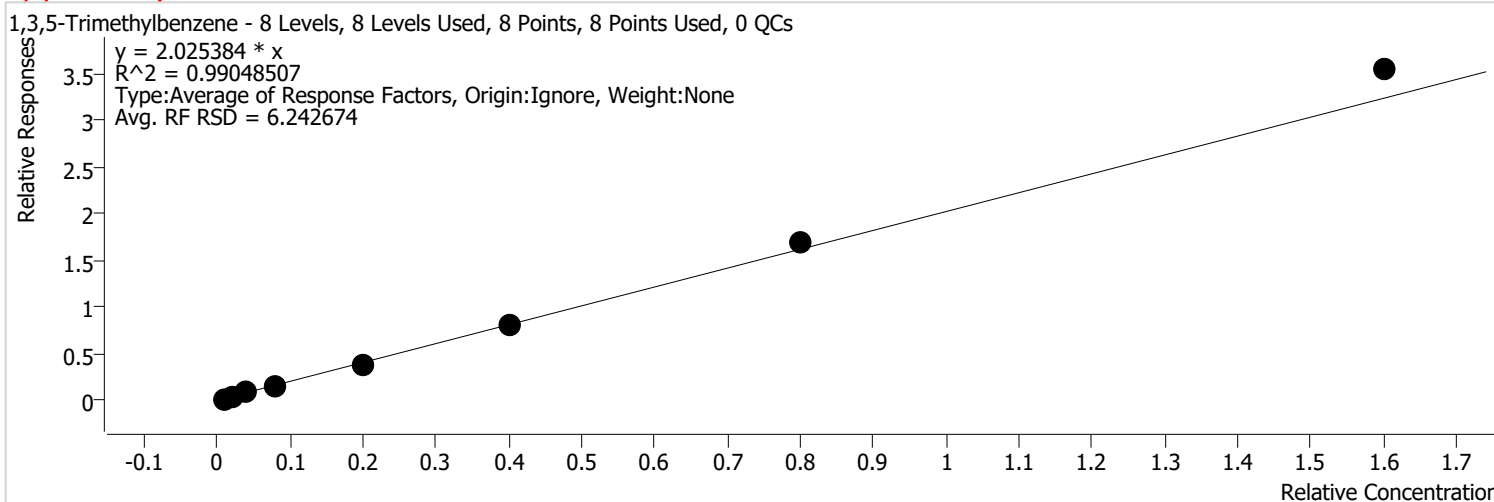


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	24469	0.2000	2.0733	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	61343	0.5000	2.0665	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	116234	1.0000	1.8617	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	237439	2.0000	1.8731	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	534319	5.0000	1.6722	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	1179657	10.0000	1.7899	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	2422754	20.0000	1.8130	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	5009460	40.0000	1.8800	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin		
Analysis Time	8/25/2023 11:50 AM	Analyst Name	FA\GC27
Report Time	8/25/2023 11:58:31 AM	Reporter Name	FA\GC27
Last Calib Update	8/25/2023 8:36 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,3,5-Trimethylbenzene %RSE = 6.2



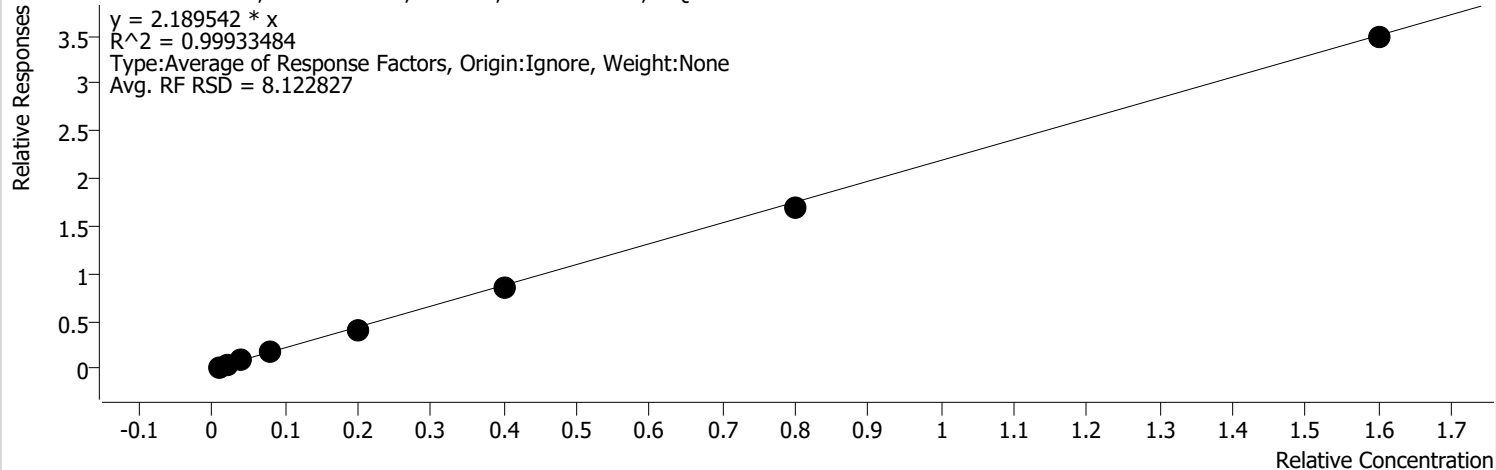
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	22597	0.2000	1.9147	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	63933	0.5000	2.1537	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	121039	1.0000	1.9386	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	245077	2.0000	1.9334	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	601467	5.0000	1.8824	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	1343695	10.0000	2.0388	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	2838817	20.0000	2.1243	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	5907807	40.0000	2.2172	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin		
Analysis Time	8/25/2023 11:50 AM	Analyst Name	FA\GC27
Report Time	8/25/2023 11:58:31 AM	Reporter Name	FA\GC27
Last Calib Update	8/25/2023 8:36 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

4-Chlorotoluene %RSE = 8.1

4-Chlorotoluene - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



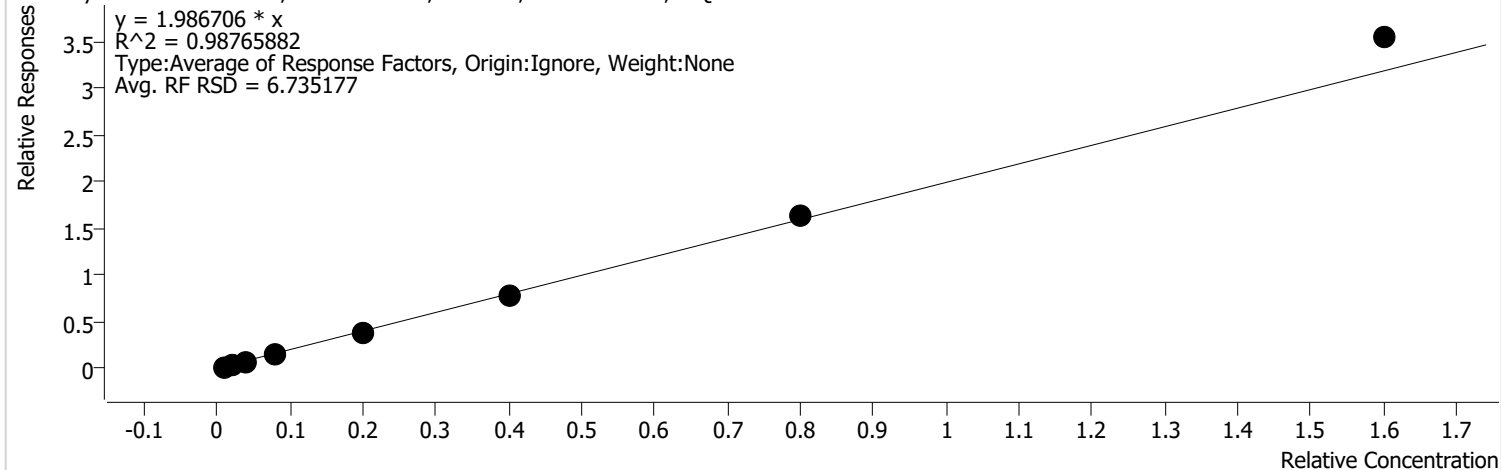
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	28731	0.2000	2.4344	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	73434	0.5000	2.4738	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	129988	1.0000	2.0820	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	275551	2.0000	2.1738	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	623530	5.0000	1.9514	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	1384854	10.0000	2.1012	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	2840344	20.0000	2.1254	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	5793511	40.0000	2.1743	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin	Analyst Name	FA\GC27
Analysis Time	8/25/2023 11:50 AM	Reporter Name	FA\GC27
Report Time	8/25/2023 11:58:31 AM	Batch State	Processed
Last Calib Update	8/25/2023 8:36 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

tert-Butylbenzene %RSE = 6.7

tert-Butylbenzene - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

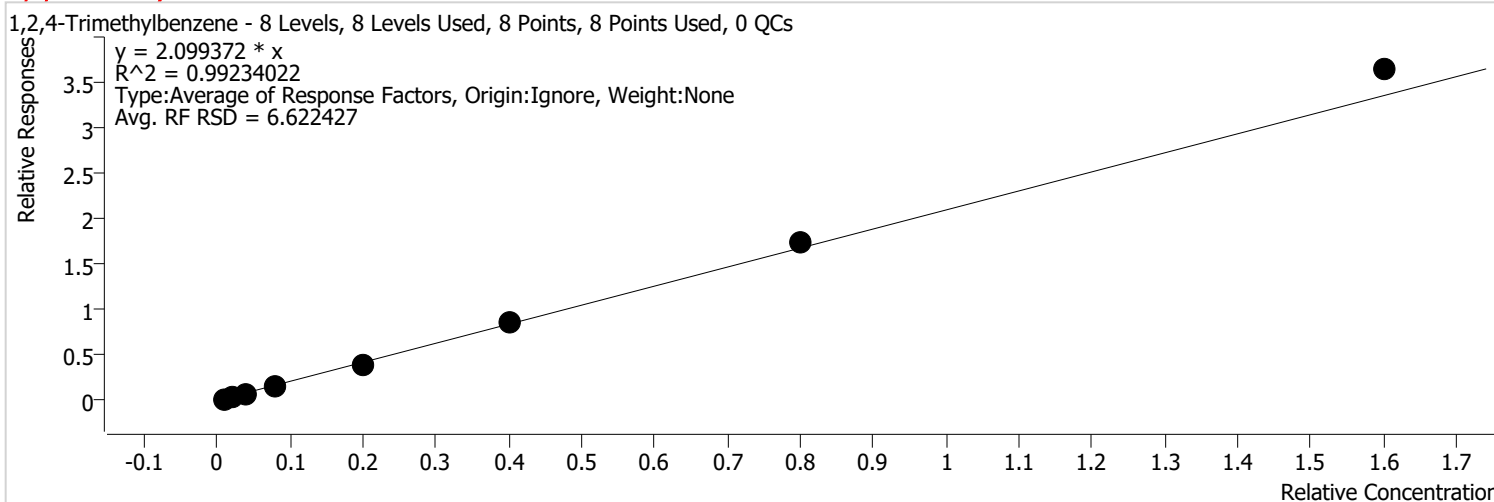


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	21632	0.2000	1.8329	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	63010	0.5000	2.1226	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	117095	1.0000	1.8755	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	251767	2.0000	1.9862	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	592098	5.0000	1.8531	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	1298544	10.0000	1.9703	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	2731860	20.0000	2.0443	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	5885878	40.0000	2.2089	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin		
Analysis Time	8/25/2023 11:50 AM	Analyst Name	FA\GC27
Report Time	8/25/2023 11:58:31 AM	Reporter Name	FA\GC27
Last Calib Update	8/25/2023 8:36 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,2,4-Trimethylbenzene %RSE = 6.6



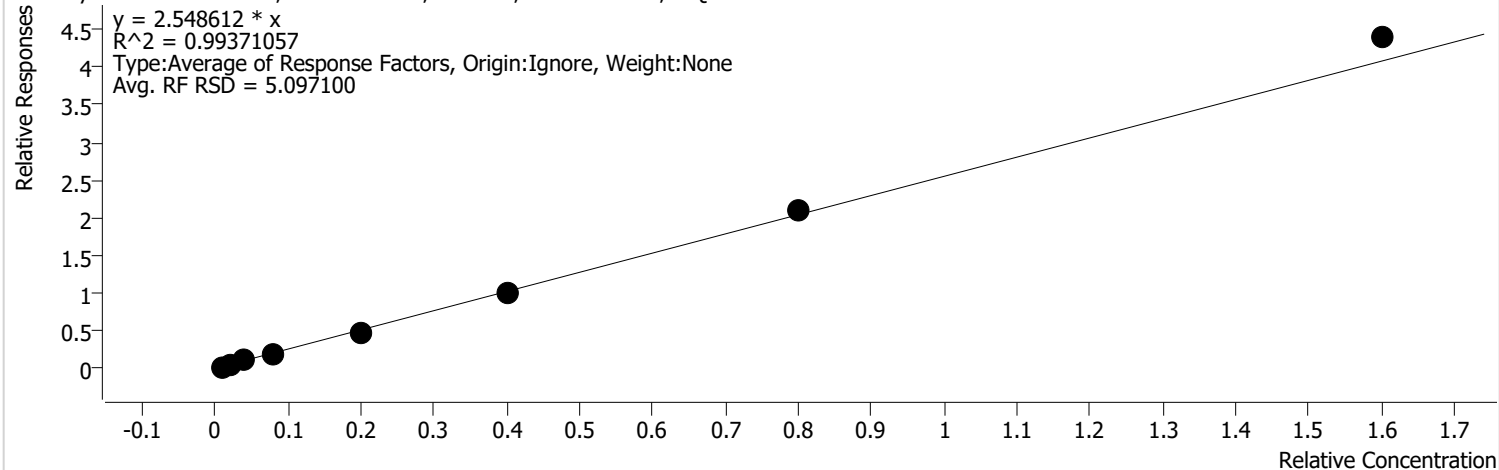
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	26144	0.2000	2.2152	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	64865	0.5000	2.1851	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	119109	1.0000	1.9077	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	253739	2.0000	2.0017	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	614007	5.0000	1.9216	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	1397808	10.0000	2.1209	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	2892639	20.0000	2.1646	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	6070165	40.0000	2.2781	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin		
Analysis Time	8/25/2023 11:50 AM	Analyst Name	FA\GC27
Report Time	8/25/2023 11:58:31 AM	Reporter Name	FA\GC27
Last Calib Update	8/25/2023 8:36 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

sec-Butylbenzene %RSE = 5.1

sec-Butylbenzene - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

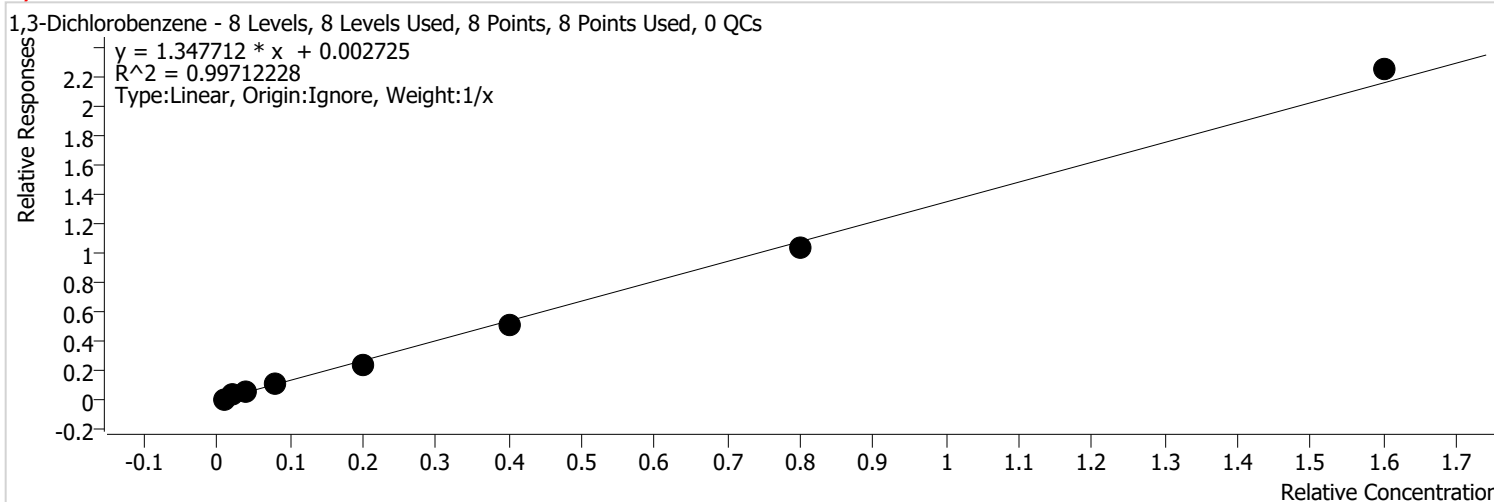


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	28946	0.2000	2.4527	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	79936	0.5000	2.6928	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	151631	1.0000	2.4286	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	321088	2.0000	2.5330	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	760679	5.0000	2.3807	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	1664701	10.0000	2.5258	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	3517830	20.0000	2.6324	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	7308573	40.0000	2.7429	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin	Analyst Name	FA\GC27
Analysis Time	8/25/2023 11:50 AM	Reporter Name	FA\GC27
Report Time	8/25/2023 11:58:31 AM	Batch State	Processed
Last Calib Update	8/25/2023 8:36 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

1,3-Dichlorobenzene %RSE = 11.6

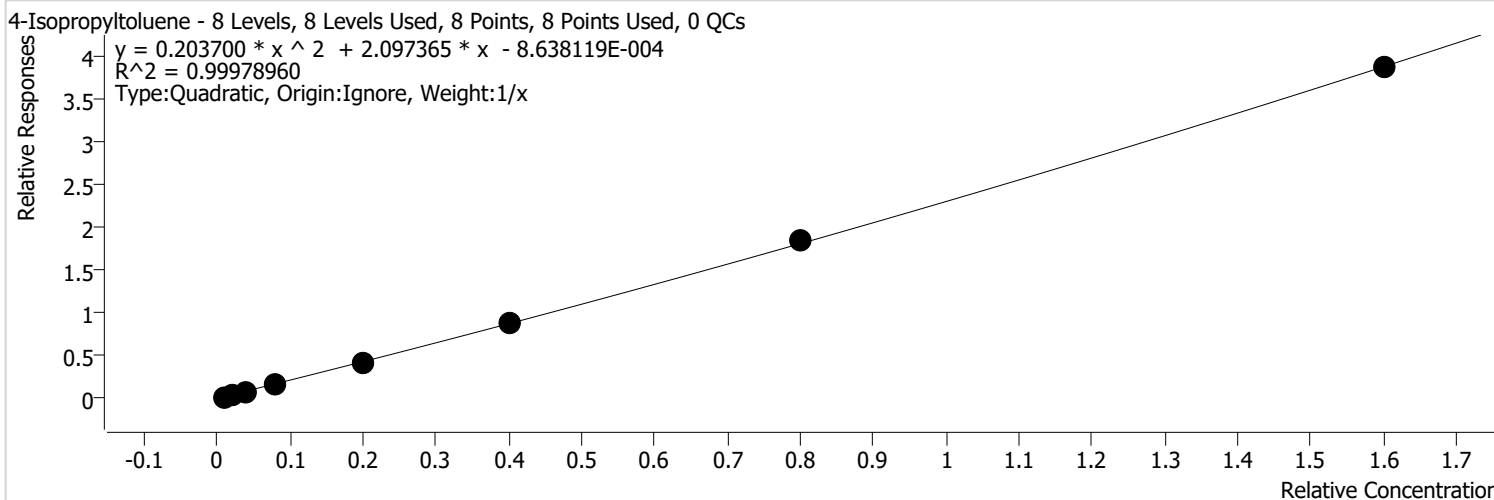


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	19107	0.2000	1.5927	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	51102	0.5000	1.8092	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	86916	1.0000	1.4129	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	170383	2.0000	1.3556	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	394145	5.0000	1.2143	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	846496	10.0000	1.2950	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	1744210	20.0000	1.3013	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	3599572	40.0000	1.4054	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin		
Analysis Time	8/25/2023 11:50 AM	Analyst Name	FA\GC27
Report Time	8/25/2023 11:58:31 AM	Reporter Name	FA\GC27
Last Calib Update	8/25/2023 8:36 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

4-Isopropyltoluene %RSE = 3.9

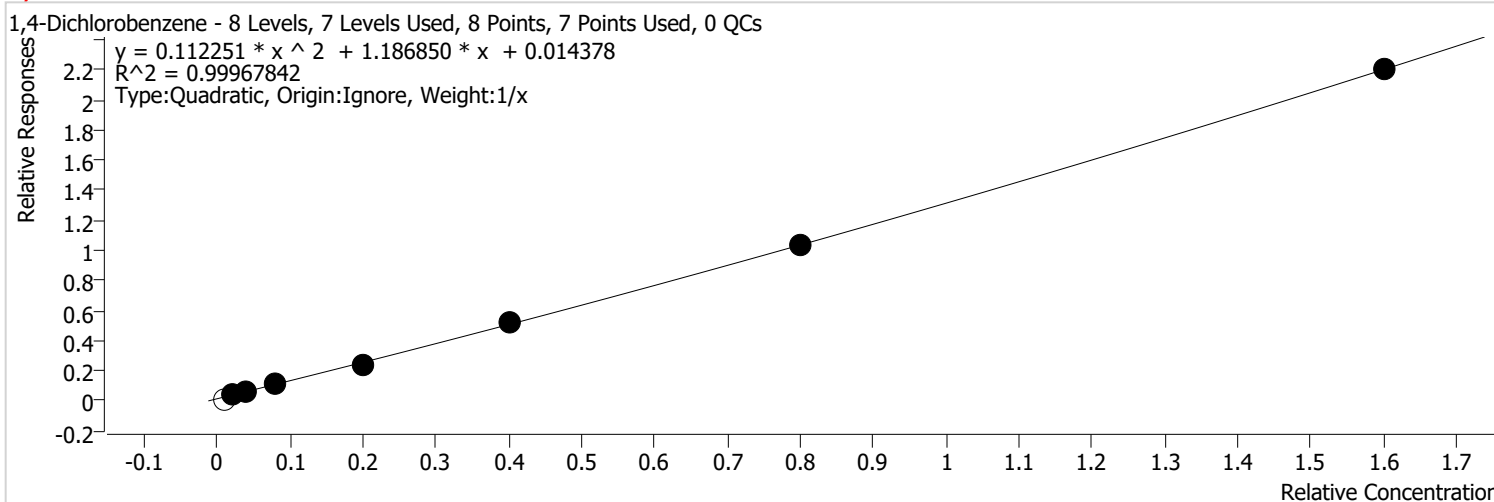


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	23605	0.2000	2.0001	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	64927	0.5000	2.1872	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	124251	1.0000	1.9901	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	267904	2.0000	2.1135	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	652659	5.0000	2.0426	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	1442725	10.0000	2.1890	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	3060865	20.0000	2.2905	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	6436561	40.0000	2.4156	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin	Analyst Name	FA\GC27
Analysis Time	8/25/2023 11:50 AM	Reporter Name	FA\GC27
Report Time	8/25/2023 11:58:31 AM	Batch State	Processed
Last Calib Update	8/25/2023 8:36 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

1,4-Dichlorobenzene %RSE = 3.7



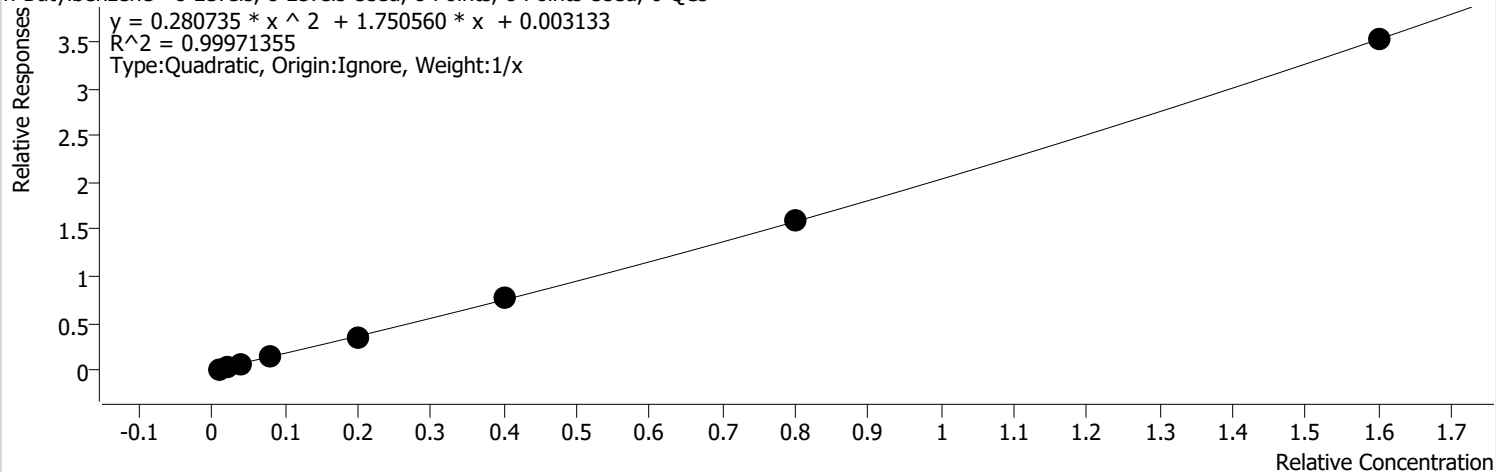
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1		21231	0.2000	1.7698	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	53474	0.5000	1.8932	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	95629	1.0000	1.5546	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	179438	2.0000	1.4277	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	393772	5.0000	1.2131	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	847561	10.0000	1.2966	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	1733355	20.0000	1.2932	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	3521518	40.0000	1.3749	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin	Analyst Name	FA\GC27
Analysis Time	8/25/2023 11:50 AM	Reporter Name	FA\GC27
Report Time	8/25/2023 11:58:31 AM	Batch State	Processed
Last Calib Update	8/25/2023 8:36 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

n-Butylbenzene %RSE = 7.0

n-Butylbenzene - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

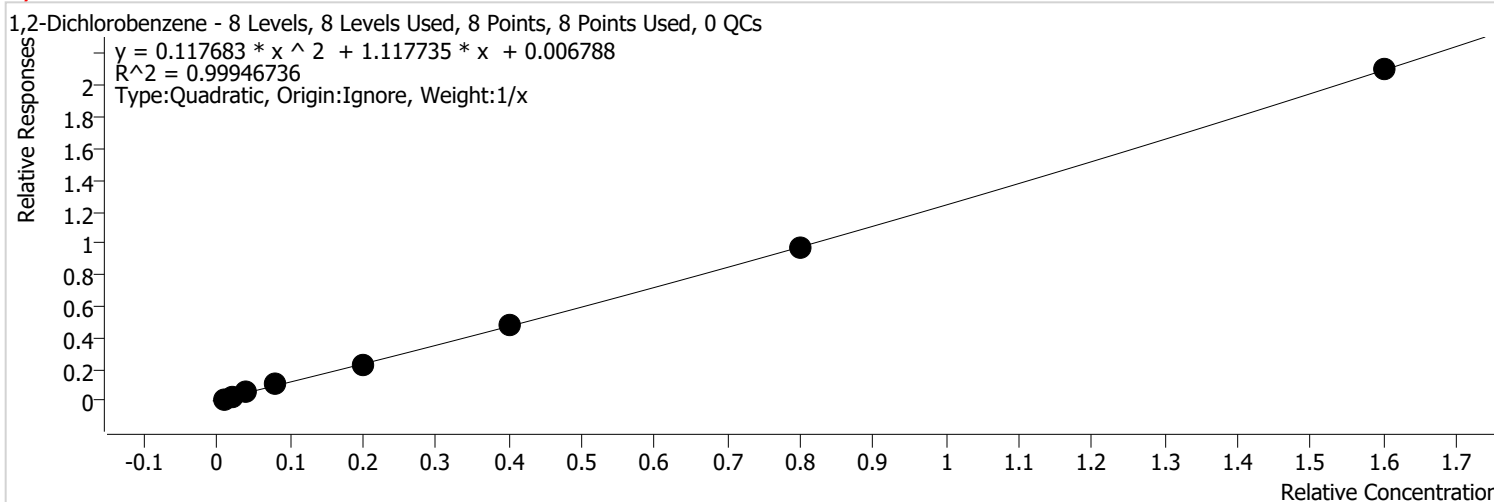


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	23867	0.2000	1.9895	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	59574	0.5000	2.1092	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	110920	1.0000	1.8032	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	235307	2.0000	1.8722	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	560010	5.0000	1.7253	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	1240668	10.0000	1.8980	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	2662889	20.0000	1.9867	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	5633332	40.0000	2.1995	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin		
Analysis Time	8/25/2023 11:50 AM	Analyst Name	FA\GC27
Report Time	8/25/2023 11:58:31 AM	Reporter Name	FA\GC27
Last Calib Update	8/25/2023 8:36 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,2-Dichlorobenzene %RSE = 11.7



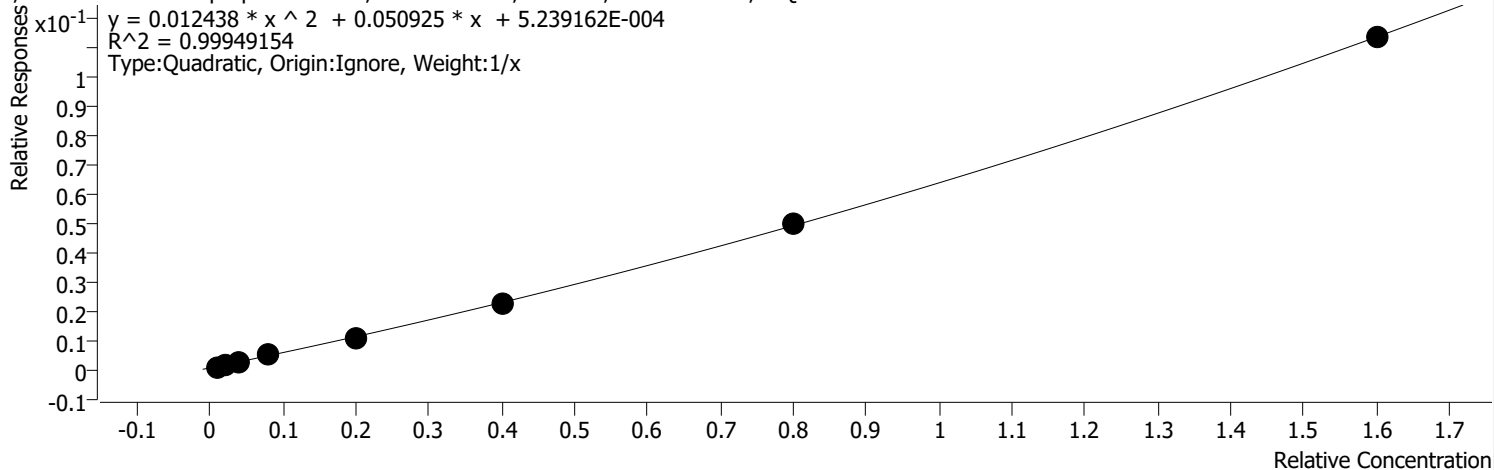
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	20983	0.2000	1.7491	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	46064	0.5000	1.6308	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	80383	1.0000	1.3067	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	162032	2.0000	1.2892	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	362864	5.0000	1.1179	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	786489	10.0000	1.2032	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	1620770	20.0000	1.2092	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	3361377	40.0000	1.3124	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin	Analyst Name	FA\GC27
Analysis Time	8/25/2023 11:50 AM	Reporter Name	FA\GC27
Report Time	8/25/2023 11:58:31 AM	Batch State	Processed
Last Calib Update	8/25/2023 8:36 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

1,2-Dibromo-3-chloropropa %RSE = 10.2

1,2-Dibromo-3-chloropropa - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

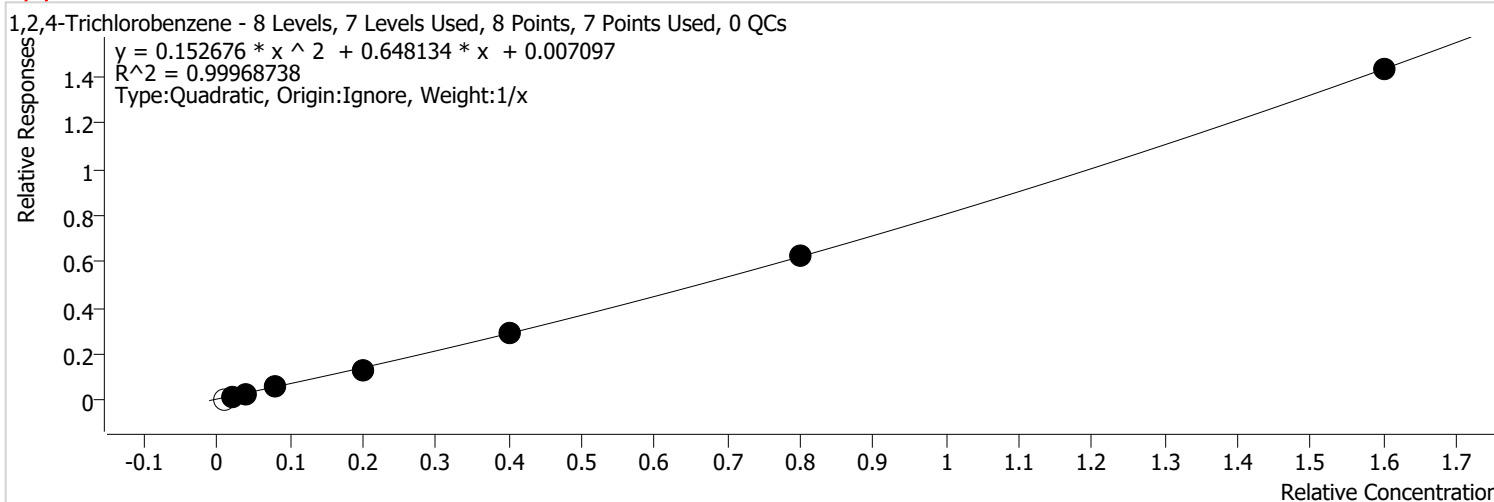


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	1303	0.2000	0.1086	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	2374	0.5000	0.0840	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	4007	1.0000	0.0651	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	7849	2.0000	0.0625	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	16944	5.0000	0.0522	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	37247	10.0000	0.0570	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	83625	20.0000	0.0624	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	181850	40.0000	0.0710	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin		
Analysis Time	8/25/2023 11:50 AM	Analyst Name	FA\GC27
Report Time	8/25/2023 11:58:31 AM	Reporter Name	FA\GC27
Last Calib Update	8/25/2023 8:36 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,2,4-Trichlorobenzene %RSE = 5.5



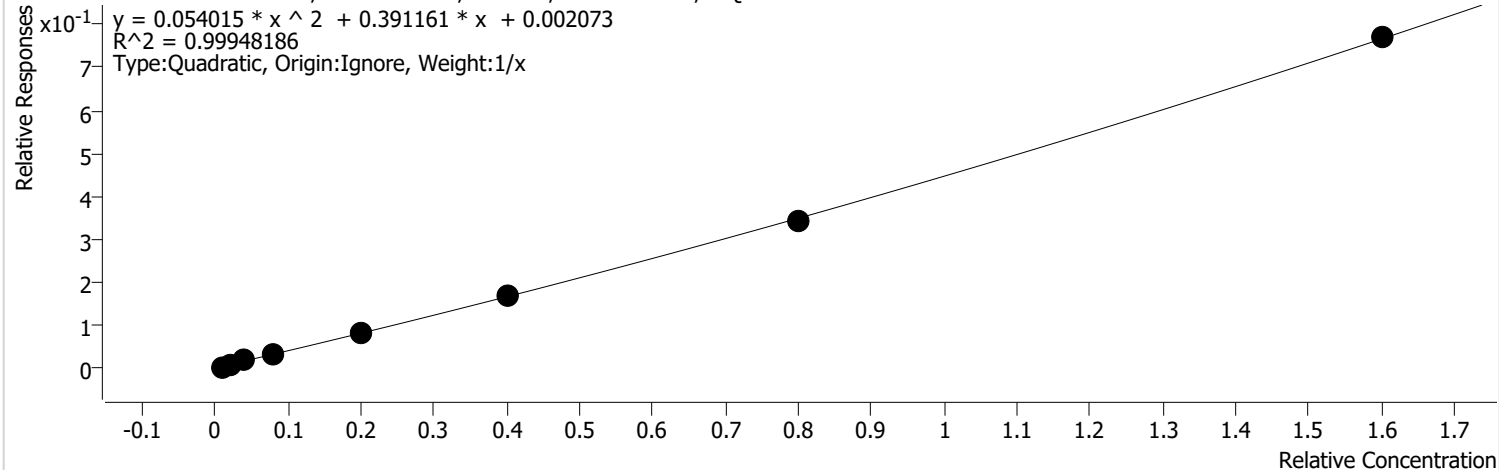
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1		12049	0.2000	1.0044	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	29319	0.5000	1.0380	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	48720	1.0000	0.7920	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	98375	2.0000	0.7827	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	218656	5.0000	0.6736	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	481698	10.0000	0.7369	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	1052598	20.0000	0.7853	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	2292977	40.0000	0.8953	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin	Analyst Name	FA\GC27
Analysis Time	8/25/2023 11:50 AM	Reporter Name	FA\GC27
Report Time	8/25/2023 11:58:31 AM	Batch State	Processed
Last Calib Update	8/25/2023 8:36 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Hexachlorobutadiene %RSE = 13.2

Hexachlorobutadiene - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



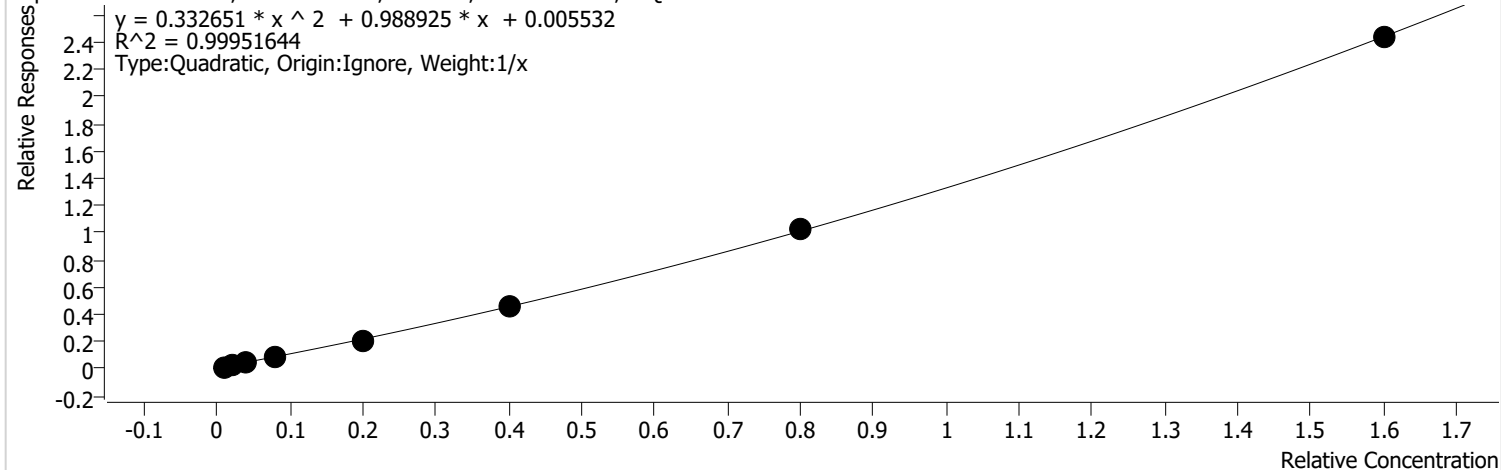
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	6651	0.2000	0.5544	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	15172	0.5000	0.5371	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	29657	1.0000	0.4821	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	56729	2.0000	0.4514	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	131004	5.0000	0.4036	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	275059	10.0000	0.4208	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	575349	20.0000	0.4292	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	1231110	40.0000	0.4807	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin	Analyst Name	FA\GC27
Analysis Time	8/25/2023 11:50 AM	Reporter Name	FA\GC27
Report Time	8/25/2023 11:58:31 AM	Batch State	Processed
Last Calib Update	8/25/2023 8:36 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Naphthalene %RSE = 9.5

Naphthalene - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

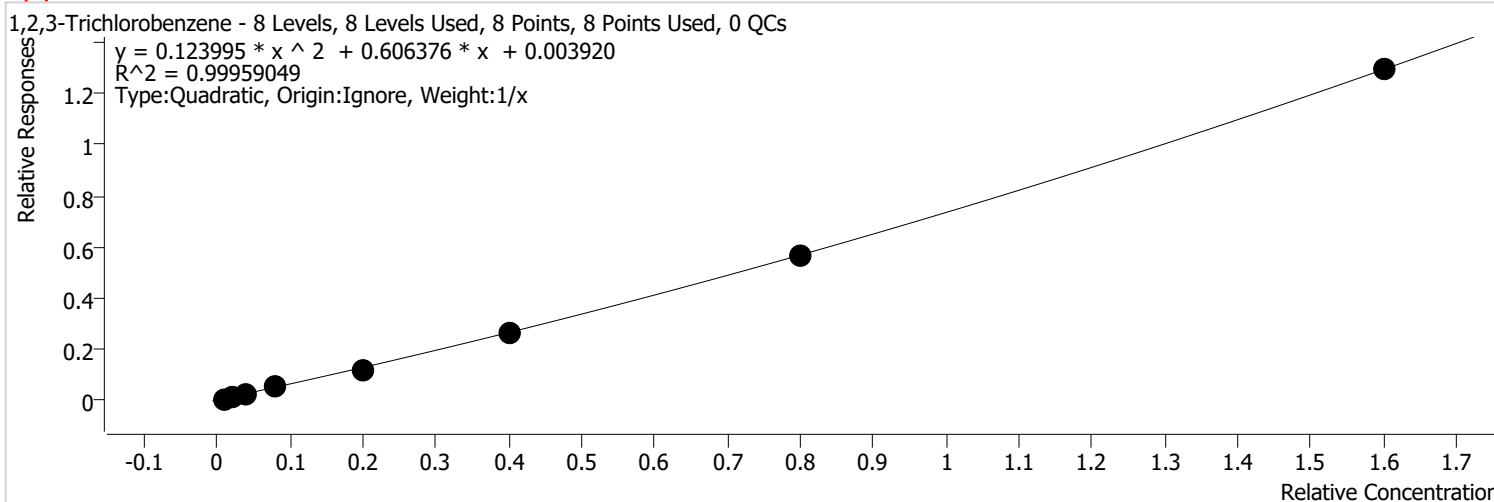


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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D:\GC-27\DATA\082423\082426.D	Calibration	2	x	40478	0.5000	1.4331	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	69083	1.0000	1.1230	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	139783	2.0000	1.1122	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	323460	5.0000	0.9965	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	748005	10.0000	1.1443	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	1721343	20.0000	1.2842	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	3892583	40.0000	1.5198	

Calibration Report

Batch Path	D:\GC-27\DATA\082423\QuantResults\VOC-S ICAL.batch.bin	Analyst Name	FA\GC27
Analysis Time	8/25/2023 11:50 AM	Reporter Name	FA\GC27
Report Time	8/25/2023 11:58:31 AM	Batch State	Processed
Last Calib Update	8/25/2023 8:36 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

1,2,3-Trichlorobenzene %RSE = 11.0



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-27\DATA\082423\082425.D	Calibration	1	x	11940	0.2000	0.9953	
D:\GC-27\DATA\082423\082426.D	Calibration	2	x	25500	0.5000	0.9028	
D:\GC-27\DATA\082423\082427.D	Calibration	3	x	43229	1.0000	0.7027	
D:\GC-27\DATA\082423\082428.D	Calibration	4	x	88644	2.0000	0.7053	
D:\GC-27\DATA\082423\082429.D	Calibration	5	x	199871	5.0000	0.6158	
D:\GC-27\DATA\082423\082430.D	Calibration	6	x	437210	10.0000	0.6688	
D:\GC-27\DATA\082423\082431.D	Calibration	7	x	956663	20.0000	0.7137	
D:\GC-27\DATA\082423\082432.D	Calibration	8	x	2066028	40.0000	0.8066	

VOC Soil Calibration



Date: 8/24/23
 Analyst: CC
 Instrument: GC-29

Cal	ICV
8260 Standard: <u>28810</u>	8260 Standard: <u>28801</u>

IS/Surrogate 28797

Cal Level	Spike Conc. (ppb)	Cal 8260 Spike (uL)	ICV 8260 Spike (uL)	Amount MeOH (mL)	Final Vol. (mL)	Comments
1	0.2	0.50	--	1.00	50	
2	0.5	1.25	--	1.00	50	
3	1	2.50	--	1.00	50	
4	2	5.00	--	1.00	50	
5	5	12.50	--	1.00	50	
6	10	25.00	--	1.00	50	
7	20	50.00	--	1.00	50	
8	40	100.00	--	1.00	50	
	ICV (20 ppb)	--	50.00	1.00	50	<u>CC 8/24/23</u>

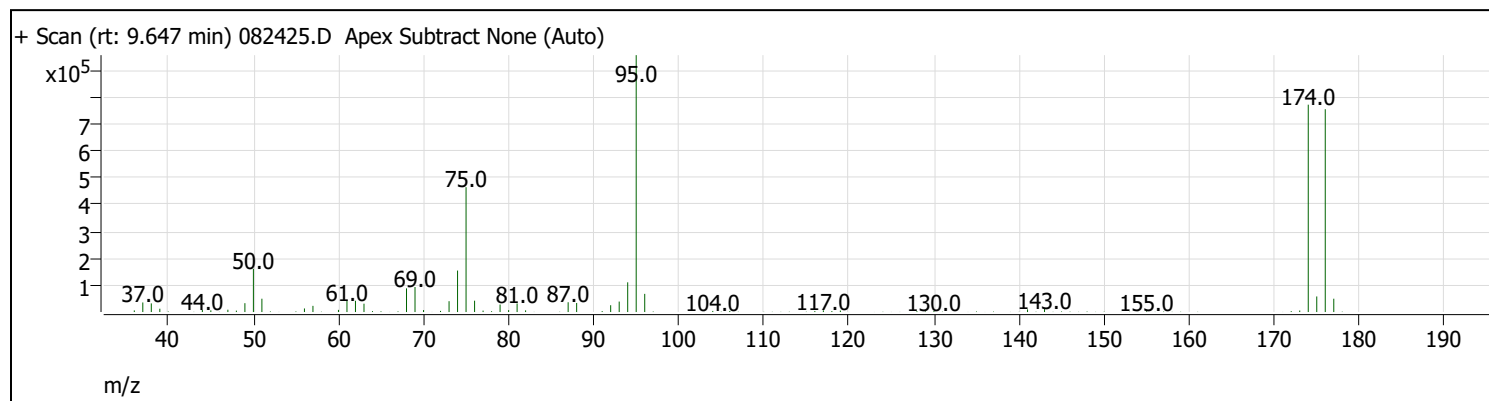
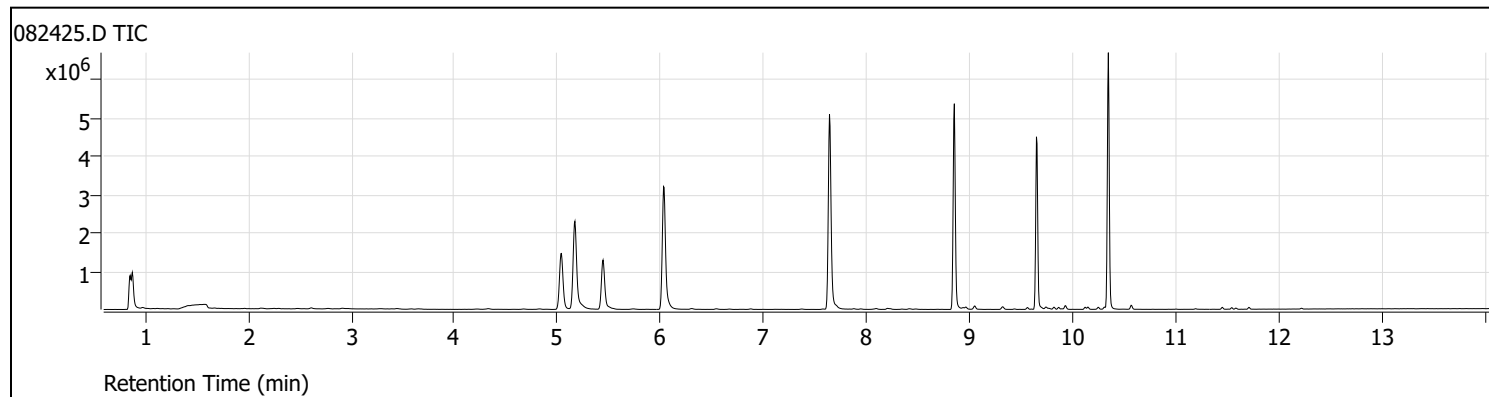
Signature and Date: 8/24/23



Tunes

Tune Evaluation Report

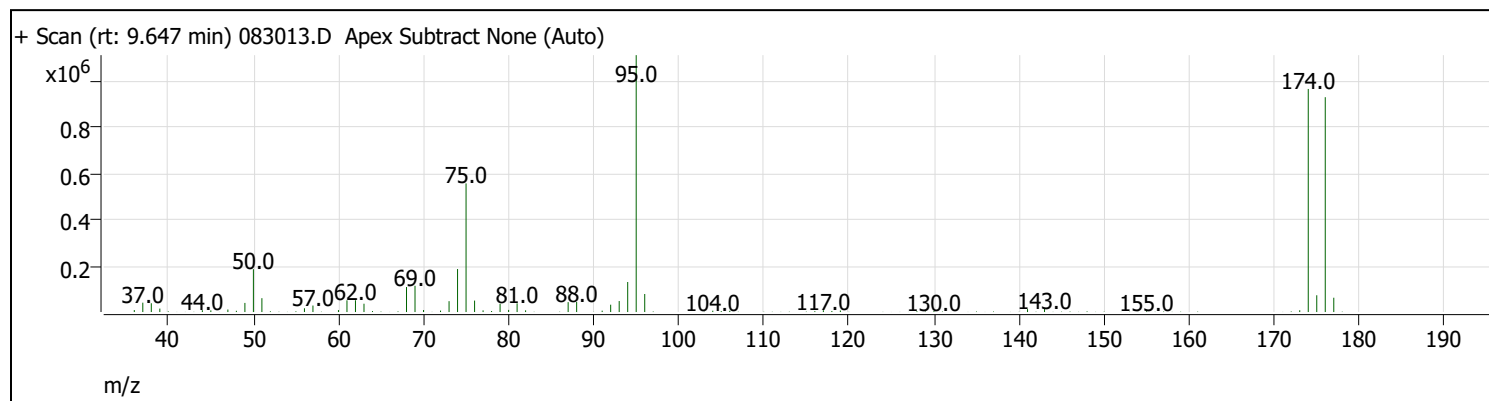
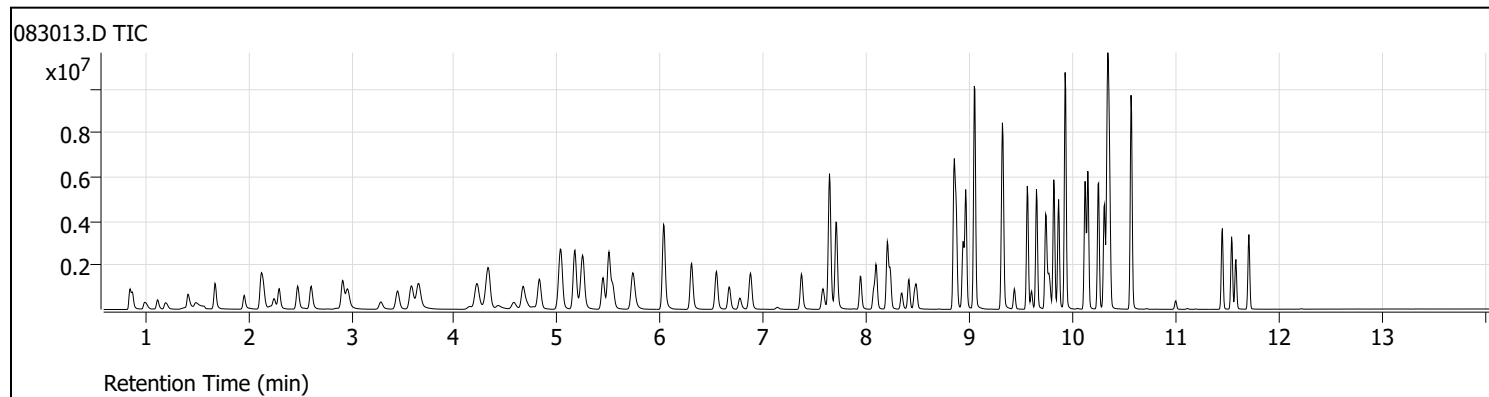
Data Path: D:\GC-27\DATA\082423\082425.D
 Acq on: 8/25/2023 4:24:23 AM
 Operator: CMC/MDS/KJ
 Sample: VOC-S ICAL1
 Inst Name: GC-27
 ALS Vial: 44
 Method: D:\MassHunter\Methods\Quant\BFB2021.m



Target Mass	Rel. To Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Pass/Fail
95	174	50	200	123.9	955452	Pass
96	95	5	9	7.1	67636	Pass
173	174	0	2	0.7	5674	Pass
174	95	50	200	80.7	771231	Pass
175	174	5	9	7.5	57908	Pass
176	174	95	105	97.8	754322	Pass
177	176	5	10	6.6	49584	Pass

Tune Evaluation Report

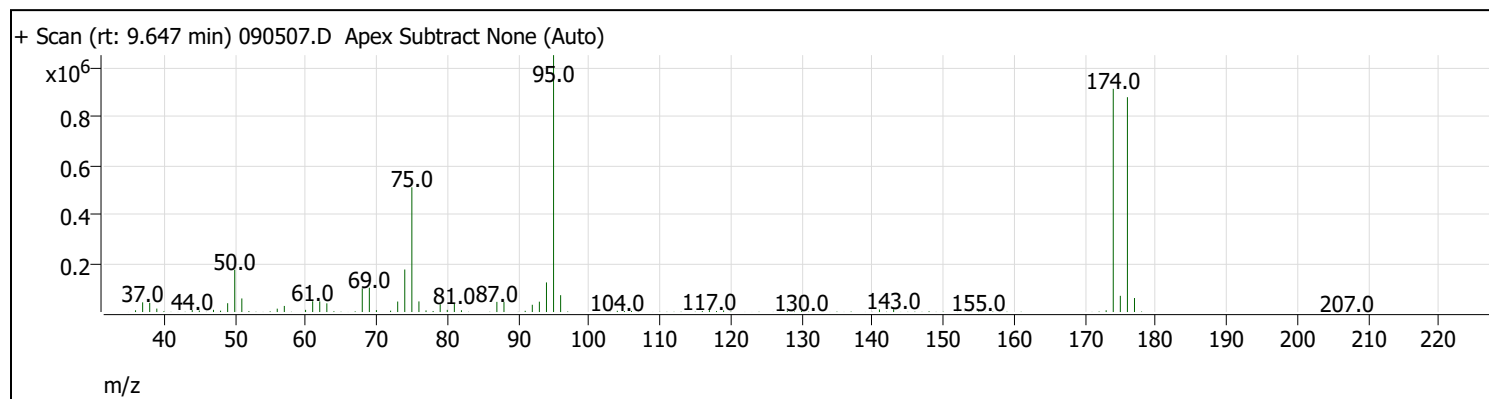
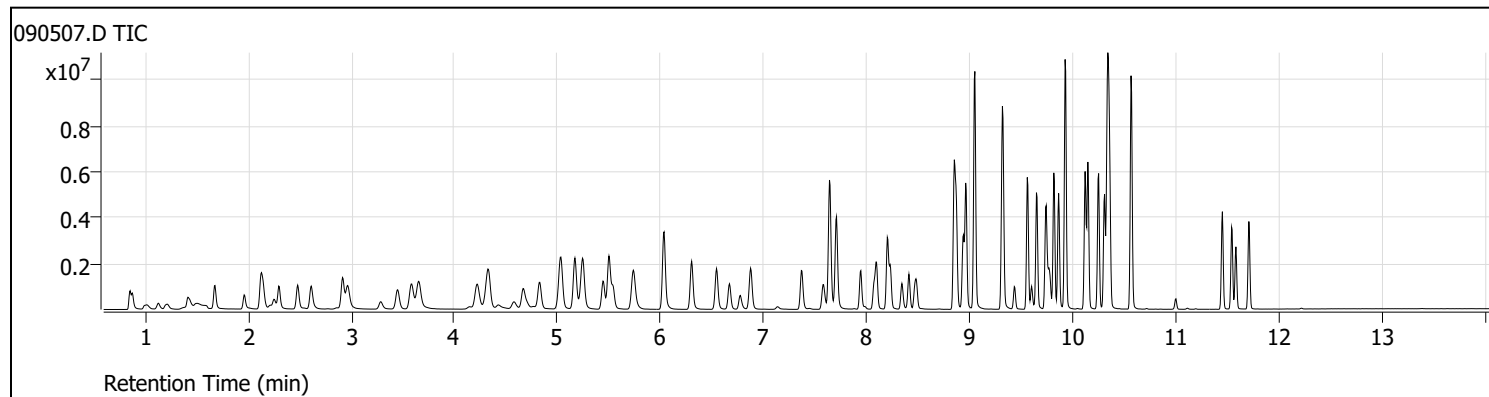
Data Path: D:\GC-27\DATA\082923\083013.D
 Acq on: 9/1/2023 4:47:19 AM
 Operator: CMC/MDS/KJ
 Sample: R
 Inst Name: GC-27
 ALS Vial: 0
 Method: D:\MassHunter\Methods\Quant\BFB2021.m



Target Mass	Rel. To Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Pass/Fail
95	174	50	200	115.2	1111995	Pass
96	95	5	9	7.0	78105	Pass
173	174	0	2	0.8	7645	Pass
174	95	50	200	86.8	965680	Pass
175	174	5	9	7.5	72566	Pass
176	174	95	105	96.3	929944	Pass
177	176	5	10	6.7	61875	Pass

Tune Evaluation Report

Data Path: D:\GC-27\DATA\090523\090507.D
 Acq on: 9/5/2023 11:48:29 AM
 Operator: CMC/MDS/KJ
 Sample: VOC S CCV new std
 Inst Name: GC-27
 ALS Vial: 16
 Method: D:\MassHunter\Methods\Quant\BFB2021.m



Target Mass	Rel. To Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Pass/Fail
95	174	50	200	115.1	1051133	Pass
96	95	5	9	6.6	68890	Pass
173	174	0	2	0.8	7119	Pass
174	95	50	200	86.9	913449	Pass
175	174	5	9	7.3	66244	Pass
176	174	95	105	96.2	879086	Pass
177	176	5	10	6.5	57273	Pass



Internal Standards

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-27 230905A CCV Name: VOC-S 86143
 Run No: 86315 CCV SeqNo: 1801489
 Lab File ID (Standard): 082431.D Date Analyzed: 8/25/2023
 Instrument ID: GC-27 Time Analyzed: 7:25
 GC Column: ID (mm): Length (M):

	IS1 FBZ AREA #	RT #	IS2 (CBZ) AREA #	RT #	IS3 (14DCBZ) AREA #	RT #		
12 HOUR STD	2284072	5.170	1670438	8.850	1675470	10.345		
UPPER LIMIT	4568144	5.670	3340876	9.350	3350940	10.845		
LOWER LIMIT	1142036	4.670	835219	8.350	837735	9.845		
SAMPLE NO.								
01 CCV-41372A	2.34897e+006	5.17	1.69488e+006	8.85	1.76732e+006	10.345		
02 CCV-41372B	1.95223e+006	5.17	1.60926e+006	8.85	1.69014e+006	10.345		

IS1 FBZ = Fluorobenzene

IS3 (14DCBZ) = 1,4-Dichlorobenzene-d4

IS2 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-27 230905A

CCV Name: CCV-41372A

Run No: 86315

CCV SeqNo: 1801457

Lab File ID (Standard): 083013.D

Date Analyzed: 9/1/2023

Instrument ID: GC-27

Time Analyzed: 4:47

GC Column:

ID (mm):

Length (M):

	IS1 FBZ AREA #	RT #	IS2 (CBZ) AREA #	RT #	IS3 (14DCBZ) AREA #	RT #		
12 HOUR STD	2348968	5.170	1694881	8.850	1767322	10.345		
UPPER LIMIT	4697936	5.670	3389762	9.350	3534644	10.845		
LOWER LIMIT	1174484	4.670	847441	8.350	883661	9.845		
SAMPLE NO.								
01	LCS-41372	2.34897e+006	5.17	1.69488e+006	8.85	1.76732e+006	10.345	
02	MB-41372	2.23539e+006	5.17	1.67324e+006	8.85	1.61374e+006	10.344	
03	2308436-007A	1.91651e+006	5.17	1.61044e+006	8.85	1.48439e+006	10.345	
04	2308286-006B	1.92484e+006	5.17	1.74007e+006	8.85	1.68632e+006	10.345	
05	2308436-001B	1.84606e+006	5.169	1.34778e+006	8.85	1.31069e+006	10.344	
06	2308436-002B	2.09653e+006	5.17	1.42647e+006	8.85	1.55943e+006	10.345	
07	2308436-002BDUP	2.21103e+006	5.17	1.67697e+006	8.85	1.60609e+006	10.345	
08	2308436-003B	2.60675e+006	5.17	1.81544e+006	8.85	1.79737e+006	10.345	
09	2308436-005B	2.59267e+006	5.169	1.92711e+006	8.845	1.92625e+006	10.344	
10	2308436-004B	2.53022e+006	5.17	1.80661e+006	8.85	1.8395e+006	10.345	
11	2308436-004BDUP	2.20876e+006	5.17	1.77939e+006	8.85	1.77294e+006	10.345	
12	2308436-006B	2.00786e+006	5.17	1.38728e+006	8.85	1.37067e+006	10.345	
13	2308436-001BMS	1.97838e+006	5.17	1.44004e+006	8.85	1.55317e+006	10.344	

IS1 FBZ = Fluorobenzene

IS3 (14DCBZ) = 1,4-Dichlorobenzene-d4

IS2 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-27 230905A CCV Name: CCV-41372B
 Run No: 86315 CCV SeqNo: 1801966
 Lab File ID (Standard): 090507.D Date Analyzed: 9/5/2023
 Instrument ID: GC-27 Time Analyzed: 11:48
 GC Column: ID (mm): Length (M):

	IS1 FBZ AREA #	RT #	IS2 (CBZ) AREA #	RT #	IS3 (14DCBZ) AREA #	RT #		
12 HOUR STD	1952232	5.170	1609261	8.850	1690138	10.345		
UPPER LIMIT	3904464	5.670	3218522	9.350	3380276	10.845		
LOWER LIMIT	976116	4.670	804631	8.350	845069	9.845		
SAMPLE NO.								
01	2308436-004B	1.84769e+006	5.17	1.32294e+006	8.85	1.40016e+006	10.345	
02	2308436-005B	2.19628e+006	5.17	1.60802e+006	8.85	1.66924e+006	10.345	
03	2308436-003B	2.19132e+006	5.17	1.67475e+006	8.85	1.72096e+006	10.345	

IS1 FBZ = Fluorobenzene

IS3 (14DCBZ) = 1,4-Dichlorobenzene-d4

IS2 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.



3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

GeoEngineers

Robert Trahan
2101 4th Ave, Suite 950
Seattle, WA 98121

**RE: South Jackson Street
Work Order Number: 2309081**

September 21, 2023

Attention Robert Trahan:

Fremont Analytical, Inc. received 14 sample(s) on 9/8/2023 for the analyses presented in the following report.

- Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.***
- Gasoline by NWTPH-Gx***
- Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)***
- Sample Moisture (Percent Moisture)***
- Volatile Organic Compounds by EPA Method 8260D***

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager

*DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.3 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910*

Revision v2

www.fremontanalytical.com

CLIENT: GeoEngineers
Project: South Jackson Street
Work Order: 2309081

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2309081-001	R3-ESW-C-87	09/08/2023 10:40 AM	09/08/2023 2:35 PM
2309081-002	R3-ESW-S-87	09/08/2023 10:45 AM	09/08/2023 2:35 PM
2309081-003	R3-B1-79	09/08/2023 10:15 AM	09/08/2023 2:35 PM
2309081-004	R3-B1-80	09/08/2023 10:05 AM	09/08/2023 2:35 PM
2309081-005	R3-B4-79	09/08/2023 10:30 AM	09/08/2023 2:35 PM
2309081-006	R3-B4-80	09/08/2023 10:25 AM	09/08/2023 2:35 PM
2309081-007	R3-B8-79	09/08/2023 9:30 AM	09/08/2023 2:35 PM
2309081-008	R3-B9-79	09/08/2023 11:50 AM	09/08/2023 2:35 PM
2309081-009	R3-B9-80	09/08/2023 11:45 AM	09/08/2023 2:35 PM
2309081-010	R3-B10-80	09/08/2023 9:55 AM	09/08/2023 2:35 PM
2309081-011	R3-B11-83	09/08/2023 11:00 AM	09/08/2023 2:35 PM
2309081-012	R3-B12-81	09/08/2023 11:15 AM	09/08/2023 2:35 PM
2309081-013	R3-B12-83	09/08/2023 11:05 AM	09/08/2023 2:35 PM
2309081-014	Trip Blank	09/08/2023 12:00 AM	09/08/2023 2:35 PM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: GeoEngineers
Project: South Jackson Street

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

9/15/2023: Revision 1 reflects additional analysis per client request.

9/18/2023: Revision 2 reflects additional analysis per client request.

9/21/2023: Revision 3 reflects additional analysis per client request.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Analytical Report

Work Order: 2309081
Date Reported: 9/21/2023

Client: GeoEngineers

Collection Date: 9/8/2023 10:40:00 AM

Project: South Jackson Street

Lab ID: 2309081-001

Matrix: Soil

Client Sample ID: R3-ESW-C-87

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Batch ID: 41455 Analyst: AP

Diesel Range Organics	ND	49.6		mg/Kg-dry	1	9/12/2023 9:35:32 PM
Heavy Oil	ND	99.3		mg/Kg-dry	1	9/12/2023 9:35:32 PM
Total Petroleum Hydrocarbons	ND	149		mg/Kg-dry	1	9/12/2023 9:35:32 PM
Surr: 2-Fluorobiphenyl	137	50 - 150		%Rec	1	9/12/2023 9:35:32 PM
Surr: o-Terphenyl	137	50 - 150		%Rec	1	9/12/2023 9:35:32 PM

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Batch ID: 41453 Analyst: SH

Naphthalene	ND	0.0209		mg/Kg-dry	1	9/15/2023 7:11:27 AM
2-Methylnaphthalene	ND	0.0209		mg/Kg-dry	1	9/15/2023 7:11:27 AM
1-Methylnaphthalene	ND	0.0209		mg/Kg-dry	1	9/15/2023 7:11:27 AM
Surr: 2-Fluorobiphenyl	96.5	22.2 - 146		%Rec	1	9/15/2023 7:11:27 AM
Surr: Terphenyl-d14 (surr)	104	20.2 - 159		%Rec	1	9/15/2023 7:11:27 AM

Gasoline by NWTPH-Gx

Batch ID: 41436 Analyst: CC

Gasoline Range Organics	ND	5.62		mg/Kg-dry	1	9/8/2023 7:38:08 PM
Surr: Toluene-d8	97.5	65 - 135		%Rec	1	9/8/2023 7:38:08 PM
Surr: 4-Bromofluorobenzene	102	65 - 135		%Rec	1	9/8/2023 7:38:08 PM

Volatile Organic Compounds by EPA Method 8260D

Batch ID: 41436 Analyst: CC

Benzene	ND	0.0197		mg/Kg-dry	1	9/8/2023 7:38:08 PM
Toluene	ND	0.0337		mg/Kg-dry	1	9/8/2023 7:38:08 PM
Ethylbenzene	ND	0.0281		mg/Kg-dry	1	9/8/2023 7:38:08 PM
m,p-Xylene	ND	0.0562		mg/Kg-dry	1	9/8/2023 7:38:08 PM
o-Xylene	ND	0.0281		mg/Kg-dry	1	9/8/2023 7:38:08 PM
Surr: Dibromofluoromethane	101	74.2 - 129		%Rec	1	9/8/2023 7:38:08 PM
Surr: Toluene-d8	102	72 - 135		%Rec	1	9/8/2023 7:38:08 PM
Surr: 1-Bromo-4-fluorobenzene	112	51 - 150		%Rec	1	9/8/2023 7:38:08 PM

Sample Moisture (Percent Moisture)

Batch ID: R86410 Analyst: MP

Percent Moisture	6.99	0.500		wt%	1	9/11/2023 8:46:16 AM
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Analytical Report

Work Order: 2309081
Date Reported: 9/21/2023

Client: GeoEngineers

Collection Date: 9/8/2023 10:45:00 AM

Project: South Jackson Street

Lab ID: 2309081-002

Matrix: Soil

Client Sample ID: R3-ESW-S-87

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Batch ID: 41455 Analyst: AP

Diesel Range Organics	ND	47.1		mg/Kg-dry	1	9/12/2023 10:08:14 PM
Heavy Oil	ND	94.1		mg/Kg-dry	1	9/12/2023 10:08:14 PM
Total Petroleum Hydrocarbons	ND	141		mg/Kg-dry	1	9/12/2023 10:08:14 PM
Surr: 2-Fluorobiphenyl	109	50 - 150		%Rec	1	9/12/2023 10:08:14 PM
Surr: o-Terphenyl	107	50 - 150		%Rec	1	9/12/2023 10:08:14 PM

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Batch ID: 41453 Analyst: SH

Naphthalene	ND	0.0182		mg/Kg-dry	1	9/15/2023 7:41:48 AM
2-Methylnaphthalene	ND	0.0182		mg/Kg-dry	1	9/15/2023 7:41:48 AM
1-Methylnaphthalene	ND	0.0182		mg/Kg-dry	1	9/15/2023 7:41:48 AM
Surr: 2-Fluorobiphenyl	57.9	22.2 - 146		%Rec	1	9/15/2023 7:41:48 AM
Surr: Terphenyl-d14 (surr)	61.6	20.2 - 159		%Rec	1	9/15/2023 7:41:48 AM

Gasoline by NWTPH-Gx

Batch ID: 41436 Analyst: CC

Gasoline Range Organics	ND	5.54		mg/Kg-dry	1	9/8/2023 8:08:20 PM
Surr: Toluene-d8	95.9	65 - 135		%Rec	1	9/8/2023 8:08:20 PM
Surr: 4-Bromofluorobenzene	101	65 - 135		%Rec	1	9/8/2023 8:08:20 PM

Volatile Organic Compounds by EPA Method 8260D

Batch ID: 41436 Analyst: CC

Benzene	ND	0.0194		mg/Kg-dry	1	9/8/2023 8:08:20 PM
Toluene	ND	0.0332		mg/Kg-dry	1	9/8/2023 8:08:20 PM
Ethylbenzene	ND	0.0277		mg/Kg-dry	1	9/8/2023 8:08:20 PM
m,p-Xylene	ND	0.0554		mg/Kg-dry	1	9/8/2023 8:08:20 PM
o-Xylene	ND	0.0277		mg/Kg-dry	1	9/8/2023 8:08:20 PM
Surr: Dibromofluoromethane	102	74.2 - 129		%Rec	1	9/8/2023 8:08:20 PM
Surr: Toluene-d8	103	72 - 135		%Rec	1	9/8/2023 8:08:20 PM
Surr: 1-Bromo-4-fluorobenzene	112	51 - 150		%Rec	1	9/8/2023 8:08:20 PM

Sample Moisture (Percent Moisture)

Batch ID: R86410 Analyst: MP

Percent Moisture	4.13	0.500		wt%	1	9/11/2023 8:46:16 AM
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Analytical Report

Work Order: 2309081
Date Reported: 9/21/2023

Client: GeoEngineers
Project: South Jackson Street
Lab ID: 2309081-004
Client Sample ID: R3-B1-80

Collection Date: 9/8/2023 10:05:00 AM
Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.</u>					Batch ID: 41455	Analyst: AP
Diesel Range Organics	ND	60.9		mg/Kg-dry	1	9/12/2023 10:30:06 PM
Heavy Oil	ND	122		mg/Kg-dry	1	9/12/2023 10:30:06 PM
Total Petroleum Hydrocarbons	ND	183		mg/Kg-dry	1	9/12/2023 10:30:06 PM
Surr: 2-Fluorobiphenyl	79.9	50 - 150		%Rec	1	9/12/2023 10:30:06 PM
Surr: o-Terphenyl	84.1	50 - 150		%Rec	1	9/12/2023 10:30:06 PM
<u>Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)</u>					Batch ID: 41453	Analyst: SH
Naphthalene	ND	0.0224		mg/Kg-dry	1	9/15/2023 8:12:02 AM
2-Methylnaphthalene	ND	0.0224		mg/Kg-dry	1	9/15/2023 8:12:02 AM
1-Methylnaphthalene	ND	0.0224		mg/Kg-dry	1	9/15/2023 8:12:02 AM
Surr: 2-Fluorobiphenyl	95.9	22.2 - 146		%Rec	1	9/15/2023 8:12:02 AM
Surr: Terphenyl-d14 (surr)	104	20.2 - 159		%Rec	1	9/15/2023 8:12:02 AM
<u>Gasoline by NWTPH-Gx</u>					Batch ID: 41436	Analyst: CC
Gasoline Range Organics	ND	6.77		mg/Kg-dry	1	9/8/2023 9:08:43 PM
Surr: Toluene-d8	98.4	65 - 135		%Rec	1	9/8/2023 9:08:43 PM
Surr: 4-Bromofluorobenzene	99.4	65 - 135		%Rec	1	9/8/2023 9:08:43 PM
<u>Volatile Organic Compounds by EPA Method 8260D</u>					Batch ID: 41436	Analyst: CC
Benzene	ND	0.0237		mg/Kg-dry	1	9/8/2023 9:08:43 PM
Toluene	ND	0.0406		mg/Kg-dry	1	9/8/2023 9:08:43 PM
Ethylbenzene	ND	0.0339		mg/Kg-dry	1	9/8/2023 9:08:43 PM
m,p-Xylene	ND	0.0677		mg/Kg-dry	1	9/8/2023 9:08:43 PM
o-Xylene	ND	0.0339		mg/Kg-dry	1	9/8/2023 9:08:43 PM
Surr: Dibromofluoromethane	98.5	74.2 - 129		%Rec	1	9/8/2023 9:08:43 PM
Surr: Toluene-d8	102	72 - 135		%Rec	1	9/8/2023 9:08:43 PM
Surr: 1-Bromo-4-fluorobenzene	110	51 - 150		%Rec	1	9/8/2023 9:08:43 PM
<u>Sample Moisture (Percent Moisture)</u>					Batch ID: R86410	Analyst: MP
Percent Moisture	22.2	0.500		wt%	1	9/11/2023 8:46:16 AM



Analytical Report

Work Order: 2309081
Date Reported: 9/21/2023

Client: GeoEngineers
Project: South Jackson Street
Lab ID: 2309081-006
Client Sample ID: R3-B4-80

Collection Date: 9/8/2023 10:25:00 AM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Batch ID: 41455 Analyst: AP

Diesel Range Organics	ND	60.7		mg/Kg-dry	1	9/12/2023 10:40:56 PM
Heavy Oil	ND	121		mg/Kg-dry	1	9/12/2023 10:40:56 PM
Total Petroleum Hydrocarbons	ND	182		mg/Kg-dry	1	9/12/2023 10:40:56 PM
Surr: 2-Fluorobiphenyl	115	50 - 150		%Rec	1	9/12/2023 10:40:56 PM
Surr: o-Terphenyl	114	50 - 150		%Rec	1	9/12/2023 10:40:56 PM

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Batch ID: 41453 Analyst: SH

Naphthalene	ND	0.0245		mg/Kg-dry	1	9/15/2023 8:42:24 AM
2-Methylnaphthalene	ND	0.0245		mg/Kg-dry	1	9/15/2023 8:42:24 AM
1-Methylnaphthalene	ND	0.0245		mg/Kg-dry	1	9/15/2023 8:42:24 AM
Surr: 2-Fluorobiphenyl	89.4	22.2 - 146		%Rec	1	9/15/2023 8:42:24 AM
Surr: Terphenyl-d14 (surr)	97.4	20.2 - 159		%Rec	1	9/15/2023 8:42:24 AM

Gasoline by NWTPH-Gx

Batch ID: 41436 Analyst: CC

Gasoline Range Organics	ND	6.61		mg/Kg-dry	1	9/8/2023 9:38:55 PM
Surr: Toluene-d8	97.7	65 - 135		%Rec	1	9/8/2023 9:38:55 PM
Surr: 4-Bromofluorobenzene	100	65 - 135		%Rec	1	9/8/2023 9:38:55 PM

Volatile Organic Compounds by EPA Method 8260D

Batch ID: 41436 Analyst: CC

Benzene	ND	0.0231		mg/Kg-dry	1	9/8/2023 9:38:55 PM
Toluene	ND	0.0397		mg/Kg-dry	1	9/8/2023 9:38:55 PM
Ethylbenzene	ND	0.0331		mg/Kg-dry	1	9/8/2023 9:38:55 PM
m,p-Xylene	ND	0.0661		mg/Kg-dry	1	9/8/2023 9:38:55 PM
o-Xylene	ND	0.0331		mg/Kg-dry	1	9/8/2023 9:38:55 PM
Surr: Dibromofluoromethane	99.9	74.2 - 129		%Rec	1	9/8/2023 9:38:55 PM
Surr: Toluene-d8	101	72 - 135		%Rec	1	9/8/2023 9:38:55 PM
Surr: 1-Bromo-4-fluorobenzene	111	51 - 150		%Rec	1	9/8/2023 9:38:55 PM

Sample Moisture (Percent Moisture)

Batch ID: R86410 Analyst: MP

Percent Moisture	21.4	0.500		wt%	1	9/11/2023 8:46:16 AM
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Analytical Report

Work Order: 2309081
Date Reported: 9/21/2023

Client: GeoEngineers
Project: South Jackson Street
Lab ID: 2309081-007
Client Sample ID: R3-B8-79

Collection Date: 9/8/2023 9:30:00 AM
Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Batch ID: 41455 Analyst: AP

Diesel Range Organics	ND	51.4		mg/Kg-dry	1	9/12/2023 10:51:47 PM
Heavy Oil	ND	103		mg/Kg-dry	1	9/12/2023 10:51:47 PM
Total Petroleum Hydrocarbons	ND	154		mg/Kg-dry	1	9/12/2023 10:51:47 PM
Surr: 2-Fluorobiphenyl	99.9	50 - 150		%Rec	1	9/12/2023 10:51:47 PM
Surr: o-Terphenyl	98.2	50 - 150		%Rec	1	9/12/2023 10:51:47 PM

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Batch ID: 41453 Analyst: SH

Naphthalene	ND	0.0212		mg/Kg-dry	1	9/15/2023 9:12:56 AM
2-Methylnaphthalene	ND	0.0212		mg/Kg-dry	1	9/15/2023 9:12:56 AM
1-Methylnaphthalene	ND	0.0212		mg/Kg-dry	1	9/15/2023 9:12:56 AM
Surr: 2-Fluorobiphenyl	97.8	22.2 - 146		%Rec	1	9/15/2023 9:12:56 AM
Surr: Terphenyl-d14 (surr)	107	20.2 - 159		%Rec	1	9/15/2023 9:12:56 AM

Gasoline by NWTPH-Gx

Batch ID: 41436 Analyst: CC

Gasoline Range Organics	ND	7.56		mg/Kg-dry	1	9/8/2023 10:09:10 PM
Surr: Toluene-d8	97.3	65 - 135		%Rec	1	9/8/2023 10:09:10 PM
Surr: 4-Bromofluorobenzene	102	65 - 135		%Rec	1	9/8/2023 10:09:10 PM

Volatile Organic Compounds by EPA Method 8260D

Batch ID: 41436 Analyst: CC

Benzene	0.0292	0.0265		mg/Kg-dry	1	9/8/2023 10:09:10 PM
Toluene	0.0590	0.0454		mg/Kg-dry	1	9/8/2023 10:09:10 PM
Ethylbenzene	0.0517	0.0378		mg/Kg-dry	1	9/8/2023 10:09:10 PM
m,p-Xylene	0.156	0.0756		mg/Kg-dry	1	9/8/2023 10:09:10 PM
o-Xylene	0.0694	0.0378		mg/Kg-dry	1	9/8/2023 10:09:10 PM
Surr: Dibromofluoromethane	101	74.2 - 129		%Rec	1	9/8/2023 10:09:10 PM
Surr: Toluene-d8	102	72 - 135		%Rec	1	9/8/2023 10:09:10 PM
Surr: 1-Bromo-4-fluorobenzene	112	51 - 150		%Rec	1	9/8/2023 10:09:10 PM

Sample Moisture (Percent Moisture)

Batch ID: R86410 Analyst: MP

Percent Moisture	17.0	0.500		wt%	1	9/11/2023 8:46:16 AM
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Client: GeoEngineers

Collection Date: 9/8/2023 11:50:00 AM

Project: South Jackson Street

Lab ID: 2309081-008

Matrix: Soil

Client Sample ID: R3-B9-79

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Gasoline by NWTPH-Gx

Batch ID: 41458 Analyst: CC

Gasoline Range Organics	80.5	5.64		mg/Kg-dry	1	9/13/2023 8:51:00 AM
Surr: Toluene-d8	97.3	65 - 135		%Rec	1	9/13/2023 8:51:00 AM
Surr: 4-Bromofluorobenzene	98.1	65 - 135		%Rec	1	9/13/2023 8:51:00 AM

NOTES:

Detection is biased high due to non-petroleum compounds

Volatile Organic Compounds by EPA Method 8260D

Batch ID: 41458 Analyst: CC

Benzene	0.477	0.0197		mg/Kg-dry	1	9/13/2023 8:51:00 AM
Toluene	0.946	0.0338		mg/Kg-dry	1	9/13/2023 8:51:00 AM
Ethylbenzene	1.73	0.0282		mg/Kg-dry	1	9/13/2023 8:51:00 AM
m,p-Xylene	4.28	0.0564		mg/Kg-dry	1	9/13/2023 8:51:00 AM
o-Xylene	2.55	0.282	D	mg/Kg-dry	10	9/13/2023 12:23:52 AM
Surr: Dibromofluoromethane	97.3	74.2 - 129		%Rec	1	9/13/2023 8:51:00 AM
Surr: Toluene-d8	107	72 - 135		%Rec	1	9/13/2023 8:51:00 AM
Surr: 1-Bromo-4-fluorobenzene	108	51 - 150		%Rec	1	9/13/2023 8:51:00 AM

Sample Moisture (Percent Moisture)

Batch ID: R86453 Analyst: ALB

Percent Moisture	24.2	0.500		wt%	1	9/12/2023 12:08:23 PM
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Analytical Report

Work Order: 2309081
Date Reported: 9/21/2023

Client: GeoEngineers

Collection Date: 9/8/2023 11:45:00 AM

Project: South Jackson Street

Lab ID: 2309081-009

Matrix: Soil

Client Sample ID: R3-B9-80

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Gasoline by NWTPH-Gx

Batch ID: 41436 Analyst: CC

Gasoline Range Organics	86.0	5.19		mg/Kg-dry	1	9/8/2023 10:39:21 PM
Surr: Toluene-d8	102	65 - 135		%Rec	1	9/8/2023 10:39:21 PM
Surr: 4-Bromofluorobenzene	95.9	65 - 135		%Rec	1	9/8/2023 10:39:21 PM

Volatile Organic Compounds by EPA Method 8260D

Batch ID: 41436 Analyst: CC

Benzene	0.603	0.0182		mg/Kg-dry	1	9/8/2023 10:39:21 PM
Toluene	1.42	0.0312		mg/Kg-dry	1	9/8/2023 10:39:21 PM
Ethylbenzene	2.04	0.0260		mg/Kg-dry	1	9/8/2023 10:39:21 PM
m,p-Xylene	7.55	0.519	D	mg/Kg-dry	10	9/11/2023 1:40:43 PM
o-Xylene	3.92	0.260	D	mg/Kg-dry	10	9/11/2023 1:40:43 PM
Surr: Dibromofluoromethane	96.2	74.2 - 129		%Rec	1	9/8/2023 10:39:21 PM
Surr: Toluene-d8	101	72 - 135		%Rec	1	9/8/2023 10:39:21 PM
Surr: 1-Bromo-4-fluorobenzene	106	51 - 150		%Rec	1	9/8/2023 10:39:21 PM

Sample Moisture (Percent Moisture)

Batch ID: R86410 Analyst: MP

Percent Moisture	22.2	0.500		wt%	1	9/11/2023 8:46:16 AM
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Analytical Report

Work Order: 2309081
Date Reported: 9/21/2023

Client: GeoEngineers

Collection Date: 9/8/2023 9:55:00 AM

Project: South Jackson Street

Lab ID: 2309081-010

Matrix: Soil

Client Sample ID: R3-B10-80

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Batch ID: 41455 Analyst: AP

Diesel Range Organics	ND	52.4		mg/Kg-dry	1	9/12/2023 11:02:40 PM
Heavy Oil	ND	105		mg/Kg-dry	1	9/12/2023 11:02:40 PM
Total Petroleum Hydrocarbons	ND	157		mg/Kg-dry	1	9/12/2023 11:02:40 PM
Surr: 2-Fluorobiphenyl	108	50 - 150		%Rec	1	9/12/2023 11:02:40 PM
Surr: o-Terphenyl	103	50 - 150		%Rec	1	9/12/2023 11:02:40 PM

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Batch ID: 41453 Analyst: SH

Naphthalene	ND	0.0206		mg/Kg-dry	1	9/15/2023 9:43:24 AM
2-Methylnaphthalene	ND	0.0206		mg/Kg-dry	1	9/15/2023 9:43:24 AM
1-Methylnaphthalene	ND	0.0206		mg/Kg-dry	1	9/15/2023 9:43:24 AM
Surr: 2-Fluorobiphenyl	92.8	22.2 - 146		%Rec	1	9/15/2023 9:43:24 AM
Surr: Terphenyl-d14 (surr)	104	20.2 - 159		%Rec	1	9/15/2023 9:43:24 AM

Gasoline by NWTPH-Gx

Batch ID: 41436 Analyst: CC

Gasoline Range Organics	18.9	7.03		mg/Kg-dry	1	9/8/2023 11:09:34 PM
Surr: Toluene-d8	99.3	65 - 135		%Rec	1	9/8/2023 11:09:34 PM
Surr: 4-Bromofluorobenzene	103	65 - 135		%Rec	1	9/8/2023 11:09:34 PM

Volatile Organic Compounds by EPA Method 8260D

Batch ID: 41436 Analyst: CC

Benzene	ND	0.0246		mg/Kg-dry	1	9/11/2023 1:10:34 PM
Toluene	ND	0.0422		mg/Kg-dry	1	9/11/2023 1:10:34 PM
Ethylbenzene	0.0474	0.0352		mg/Kg-dry	1	9/11/2023 1:10:34 PM
m,p-Xylene	ND	0.0703		mg/Kg-dry	1	9/11/2023 1:10:34 PM
o-Xylene	ND	0.0352		mg/Kg-dry	1	9/11/2023 1:10:34 PM
Surr: Dibromofluoromethane	98.3	74.2 - 129		%Rec	1	9/11/2023 1:10:34 PM
Surr: Toluene-d8	102	72 - 135		%Rec	1	9/11/2023 1:10:34 PM
Surr: 1-Bromo-4-fluorobenzene	107	51 - 150		%Rec	1	9/11/2023 1:10:34 PM

Sample Moisture (Percent Moisture)

Batch ID: R86410 Analyst: MP

Percent Moisture	17.6	0.500		wt%	1	9/11/2023 8:46:16 AM
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Analytical Report

Work Order: 2309081
Date Reported: 9/21/2023

Client: GeoEngineers
Project: South Jackson Street
Lab ID: 2309081-011
Client Sample ID: R3-B11-83

Collection Date: 9/8/2023 11:00:00 AM
Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Batch ID: 41455 Analyst: AP

Diesel Range Organics	ND	54.4		mg/Kg-dry	1	9/12/2023 11:13:32 PM
Heavy Oil	ND	109		mg/Kg-dry	1	9/12/2023 11:13:32 PM
Total Petroleum Hydrocarbons	ND	163		mg/Kg-dry	1	9/12/2023 11:13:32 PM
Surr: 2-Fluorobiphenyl	82.6	50 - 150		%Rec	1	9/12/2023 11:13:32 PM
Surr: o-Terphenyl	86.9	50 - 150		%Rec	1	9/12/2023 11:13:32 PM

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Batch ID: 41453 Analyst: SH

Naphthalene	ND	0.0236		mg/Kg-dry	1	9/15/2023 10:13:46 AM
2-Methylnaphthalene	ND	0.0236		mg/Kg-dry	1	9/15/2023 10:13:46 AM
1-Methylnaphthalene	ND	0.0236		mg/Kg-dry	1	9/15/2023 10:13:46 AM
Surr: 2-Fluorobiphenyl	102	22.2 - 146		%Rec	1	9/15/2023 10:13:46 AM
Surr: Terphenyl-d14 (surr)	116	20.2 - 159		%Rec	1	9/15/2023 10:13:46 AM

Gasoline by NWTPH-Gx

Batch ID: 41436 Analyst: CC

Gasoline Range Organics	ND	5.26		mg/Kg-dry	1	9/8/2023 11:39:47 PM
Surr: Toluene-d8	96.1	65 - 135		%Rec	1	9/8/2023 11:39:47 PM
Surr: 4-Bromofluorobenzene	103	65 - 135		%Rec	1	9/8/2023 11:39:47 PM

Volatile Organic Compounds by EPA Method 8260D

Batch ID: 41436 Analyst: CC

Benzene	ND	0.0184		mg/Kg-dry	1	9/8/2023 11:39:47 PM
Toluene	ND	0.0316		mg/Kg-dry	1	9/8/2023 11:39:47 PM
Ethylbenzene	ND	0.0263		mg/Kg-dry	1	9/8/2023 11:39:47 PM
m,p-Xylene	ND	0.0526		mg/Kg-dry	1	9/8/2023 11:39:47 PM
o-Xylene	ND	0.0263		mg/Kg-dry	1	9/8/2023 11:39:47 PM
Surr: Dibromofluoromethane	99.8	74.2 - 129		%Rec	1	9/8/2023 11:39:47 PM
Surr: Toluene-d8	102	72 - 135		%Rec	1	9/8/2023 11:39:47 PM
Surr: 1-Bromo-4-fluorobenzene	114	51 - 150		%Rec	1	9/8/2023 11:39:47 PM

Sample Moisture (Percent Moisture)

Batch ID: R86410 Analyst: MP

Percent Moisture	19.9	0.500		wt%	1	9/11/2023 8:46:16 AM
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Analytical Report

Work Order: 2309081
Date Reported: 9/21/2023

Client: GeoEngineers
Project: South Jackson Street
Lab ID: 2309081-012
Client Sample ID: R3-B12-81

Collection Date: 9/8/2023 11:15:00 AM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.</u>					Batch ID: 41511	Analyst: AP
Diesel Range Organics	ND	61.7		mg/Kg-dry	1	9/19/2023 12:23:00 PM
Heavy Oil	ND	123		mg/Kg-dry	1	9/19/2023 12:23:00 PM
Total Petroleum Hydrocarbons	ND	185		mg/Kg-dry	1	9/19/2023 12:23:00 PM
Surr: 2-Fluorobiphenyl	84.5	50 - 150		%Rec	1	9/19/2023 12:23:00 PM
Surr: o-Terphenyl	80.7	50 - 150		%Rec	1	9/19/2023 12:23:00 PM
<u>Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)</u>					Batch ID: 41510	Analyst: RG
Naphthalene	ND	0.0256		mg/Kg-dry	1	9/19/2023 2:03:45 PM
2-Methylnaphthalene	ND	0.0256		mg/Kg-dry	1	9/19/2023 2:03:45 PM
1-Methylnaphthalene	ND	0.0256		mg/Kg-dry	1	9/19/2023 2:03:45 PM
Surr: 2-Fluorobiphenyl	92.1	22.2 - 146		%Rec	1	9/19/2023 2:03:45 PM
Surr: Terphenyl-d14 (surr)	89.7	20.2 - 159		%Rec	1	9/19/2023 2:03:45 PM
<u>Gasoline by NWTPH-Gx</u>					Batch ID: 41458	Analyst: CC
Gasoline Range Organics	ND	8.31		mg/Kg-dry	1	9/12/2023 9:54:07 PM
Surr: Toluene-d8	98.2	65 - 135		%Rec	1	9/12/2023 9:54:07 PM
Surr: 4-Bromofluorobenzene	101	65 - 135		%Rec	1	9/12/2023 9:54:07 PM
<u>Volatile Organic Compounds by EPA Method 8260D</u>					Batch ID: 41458	Analyst: CC
Benzene	ND	0.0291		mg/Kg-dry	1	9/12/2023 9:54:07 PM
Toluene	ND	0.0498		mg/Kg-dry	1	9/12/2023 9:54:07 PM
Ethylbenzene	ND	0.0415		mg/Kg-dry	1	9/12/2023 9:54:07 PM
m,p-Xylene	ND	0.0831		mg/Kg-dry	1	9/12/2023 9:54:07 PM
o-Xylene	ND	0.0415		mg/Kg-dry	1	9/12/2023 9:54:07 PM
Surr: Dibromofluoromethane	100	74.2 - 129		%Rec	1	9/12/2023 9:54:07 PM
Surr: Toluene-d8	106	72 - 135		%Rec	1	9/12/2023 9:54:07 PM
Surr: 1-Bromo-4-fluorobenzene	111	51 - 150		%Rec	1	9/12/2023 9:54:07 PM
<u>Sample Moisture (Percent Moisture)</u>					Batch ID: R86453	Analyst: ALB
Percent Moisture	23.3	0.500		wt%	1	9/12/2023 12:08:23 PM



Analytical Report

Work Order: 2309081
Date Reported: 9/21/2023

Client: GeoEngineers

Collection Date: 9/8/2023 11:05:00 AM

Project: South Jackson Street

Lab ID: 2309081-013

Matrix: Soil

Client Sample ID: R3-B12-83

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Gasoline by NWTPH-Gx

Batch ID: 41436 Analyst: CC

Gasoline Range Organics	24,400	5,340	D	mg/Kg-dry	1000	9/11/2023 2:10:53 PM
Surr: Toluene-d8	97.8	65 - 135	D	%Rec	1000	9/11/2023 2:10:53 PM
Surr: 4-Bromofluorobenzene	101	65 - 135	D	%Rec	1000	9/11/2023 2:10:53 PM

Volatile Organic Compounds by EPA Method 8260D

Batch ID: 41436 Analyst: CC

Benzene	ND	0.187	D	mg/Kg-dry	10	9/9/2023 12:10:00 AM
Toluene	0.345	0.320	D	mg/Kg-dry	10	9/9/2023 12:10:00 AM
Ethylbenzene	156	2.67	D	mg/Kg-dry	100	9/11/2023 2:41:03 PM
m,p-Xylene	127	5.34	D	mg/Kg-dry	100	9/11/2023 2:41:03 PM
o-Xylene	7.58	0.267	D	mg/Kg-dry	10	9/9/2023 12:10:00 AM
Surr: Dibromofluoromethane	93.1	74.2 - 129	D	%Rec	10	9/9/2023 12:10:00 AM
Surr: Toluene-d8	118	72 - 135	D	%Rec	10	9/9/2023 12:10:00 AM
Surr: 1-Bromo-4-fluorobenzene	108	51 - 150	D	%Rec	10	9/9/2023 12:10:00 AM

Sample Moisture (Percent Moisture)

Batch ID: R86410 Analyst: MP

Percent Moisture	15.6	0.500		wt%	1	9/11/2023 8:46:16 AM
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Analytical Report

Work Order: 2309081
Date Reported: 9/21/2023

Client: GeoEngineers

Collection Date: 9/8/2023

Project: South Jackson Street

Lab ID: 2309081-014

Matrix: Soil

Client Sample ID: Trip Blank

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Gasoline by NWTPH-Gx

Batch ID: 41436 Analyst: CC

Gasoline Range Organics	ND	5.00		mg/Kg	1	9/8/2023 7:07:57 PM
Surr: Toluene-d8	99.1	65 - 135		%Rec	1	9/8/2023 7:07:57 PM
Surr: 4-Bromofluorobenzene	100	65 - 135		%Rec	1	9/8/2023 7:07:57 PM

Volatile Organic Compounds by EPA Method 8260D

Batch ID: 41436 Analyst: CC

Benzene	ND	0.0175		mg/Kg	1	9/8/2023 7:07:57 PM
Toluene	ND	0.0300		mg/Kg	1	9/8/2023 7:07:57 PM
Ethylbenzene	ND	0.0250		mg/Kg	1	9/8/2023 7:07:57 PM
m,p-Xylene	ND	0.0500		mg/Kg	1	9/8/2023 7:07:57 PM
o-Xylene	ND	0.0250		mg/Kg	1	9/8/2023 7:07:57 PM
Surr: Dibromofluoromethane	99.5	74.2 - 129		%Rec	1	9/8/2023 7:07:57 PM
Surr: Toluene-d8	102	72 - 135		%Rec	1	9/8/2023 7:07:57 PM
Surr: 1-Bromo-4-fluorobenzene	110	51 - 150		%Rec	1	9/8/2023 7:07:57 PM

Work Order: 2309081
CLIENT: GeoEngineers
Project: South Jackson Street

QC SUMMARY REPORT

Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Sample ID: HO ICV	SampType: ICV	Units: mg/Kg			Prep Date: 7/27/2023	RunNo: 85547					
Client ID: ICV	Batch ID: 41455				Analysis Date: 7/27/2023	SeqNo: 1784893					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Heavy Oil	515	100	500.0	0	103	70	130				
Surr: 2-Fluorobiphenyl	10.5		10.00		105	50	150				
Surr: o-Terphenyl	10.8		10.00		108	50	150				

Sample ID: HO ICB	SampType: ICB	Units: mg/Kg			Prep Date: 7/27/2023	RunNo: 85547					
Client ID: ICB	Batch ID: 41455				Analysis Date: 7/27/2023	SeqNo: 1784901					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Heavy Oil	ND	100									
Surr: 2-Fluorobiphenyl	9.91		10.00		99.1	50	150				
Surr: o-Terphenyl	9.84		10.00		98.4	50	150				

Sample ID: DX ICB	SampType: ICB	Units: mg/Kg			Prep Date: 7/27/2023	RunNo: 85547					
Client ID: ICB	Batch ID: 41455				Analysis Date: 7/27/2023	SeqNo: 1784903					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel Range Organics	ND	50.0									
Surr: 2-Fluorobiphenyl	10.0		10.00		100	50	150				
Surr: o-Terphenyl	10.0		10.00		100	50	150				

Sample ID: DX ICV	SampType: ICV	Units: mg/Kg			Prep Date: 7/27/2023	RunNo: 85547					
Client ID: ICV	Batch ID: 41455				Analysis Date: 7/27/2023	SeqNo: 1784904					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel Range Organics	479	50.0	500.0	0	95.8	70	130				
Surr: 2-Fluorobiphenyl	10.5		10.00		105	50	150				
Surr: o-Terphenyl	11.0		10.00		110	50	150				

Work Order: 2309081
CLIENT: GeoEngineers
Project: South Jackson Street

QC SUMMARY REPORT

Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Sample ID: OIL-CCV-41455A		SampType: CCV		Units: mg/Kg		Prep Date: 9/12/2023		RunNo: 86471			
Client ID: CCV		Batch ID: 41455				Analysis Date: 9/12/2023		SeqNo: 1804603			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Heavy Oil	515	100	500.0	0	103	85	115				
Surr: 2-Fluorobiphenyl	10.5		10.00		105	50	150				
Surr: o-Terphenyl	10.9		10.00		109	50	150				

Sample ID: DX-CCV-41455A		SampType: CCV		Units: mg/Kg		Prep Date: 9/12/2023		RunNo: 86471			
Client ID: CCV		Batch ID: 41455				Analysis Date: 9/12/2023		SeqNo: 1804604			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics	490	50.0	500.0	0	97.9	85	115				
Surr: 2-Fluorobiphenyl	10.2		10.00		102	50	150				
Surr: o-Terphenyl	12.4		10.00		124	50	150				

Sample ID: MB-41455		SampType: MBLK		Units: mg/Kg		Prep Date: 9/12/2023		RunNo: 86471			
Client ID: MBLKS		Batch ID: 41455				Analysis Date: 9/12/2023		SeqNo: 1804605			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics	ND	50.0									
Heavy Oil	ND	100									
Total Petroleum Hydrocarbons	ND	150									
Surr: 2-Fluorobiphenyl	10.6		10.00		106	50	150				
Surr: o-Terphenyl	10.4		10.00		104	50	150				

Sample ID: LCS-41455		SampType: LCS		Units: mg/Kg		Prep Date: 9/12/2023		RunNo: 86471			
Client ID: LCSS		Batch ID: 41455				Analysis Date: 9/12/2023		SeqNo: 1804606			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Petroleum Hydrocarbons	565	150	500.0	0	113	78.5	123				
Surr: 2-Fluorobiphenyl	11.0		10.00		110	50	150				
Surr: o-Terphenyl	13.4		10.00		134	50	150				

Work Order: 2309081
CLIENT: GeoEngineers
Project: South Jackson Street

QC SUMMARY REPORT
Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Sample ID: 2309081-001AMS	SampType: MS	Units: mg/Kg-dry	Prep Date: 9/12/2023	RunNo: 86471							
Client ID: R3-ESW-C-87	Batch ID: 41455	Analysis Date: 9/12/2023	SeqNo: 1804608								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Petroleum Hydrocarbons	658	148	494.6	0	133	47.9	143				
Surr: 2-Fluorobiphenyl	12.6		9.891		128	50	150				
Surr: o-Terphenyl	14.4		9.891		146	50	150				

Sample ID: 2309081-001AMSD	SampType: MSD	Units: mg/Kg-dry	Prep Date: 9/12/2023	RunNo: 86471							
Client ID: R3-ESW-C-87	Batch ID: 41455	Analysis Date: 9/12/2023	SeqNo: 1804609								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Petroleum Hydrocarbons	565	149	495.0	0	114	47.9	143	657.6	15.1	30	
Surr: 2-Fluorobiphenyl	10.6		9.900		107	50	150		0		
Surr: o-Terphenyl	12.9		9.900		130	50	150		0		

Sample ID: 2309081-002ADUP	SampType: DUP	Units: mg/Kg-dry	Prep Date: 9/12/2023	RunNo: 86471							
Client ID: R3-ESW-S-87	Batch ID: 41455	Analysis Date: 9/12/2023	SeqNo: 1804611								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics	ND	46.8						0		30	
Heavy Oil	ND	93.6						0		30	
Total Petroleum Hydrocarbons	ND	140						0		30	
Surr: 2-Fluorobiphenyl	10.1		9.363		108	50	150		0		
Surr: o-Terphenyl	9.83		9.363		105	50	150		0		

Sample ID: OIL-CCV-41455B	SampType: CCV	Units: mg/Kg	Prep Date: 9/12/2023	RunNo: 86471							
Client ID: CCV	Batch ID: 41455	Analysis Date: 9/12/2023	SeqNo: 1804617								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Heavy Oil	505	100	500.0	0	101	85	115				
Surr: 2-Fluorobiphenyl	10.7		10.00		107	50	150				
Surr: o-Terphenyl	11.2		10.00		112	50	150				

Work Order: 2309081
CLIENT: GeoEngineers
Project: South Jackson Street

QC SUMMARY REPORT

Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Sample ID: DX-CCV-41455B		SampType: CCV		Units: mg/Kg		Prep Date: 9/12/2023		RunNo: 86471			
Client ID: CCV		Batch ID: 41455				Analysis Date: 9/12/2023		SeqNo: 1804618			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics	501	50.0	500.0	0	100	85	115				
Surr: 2-Fluorobiphenyl	10.4		10.00		104	50	150				
Surr: o-Terphenyl	12.5		10.00		125	50	150				

Sample ID: OIL-CCV-41455C		SampType: CCV		Units: mg/Kg		Prep Date: 9/13/2023		RunNo: 86471			
Client ID: CCV		Batch ID: 41455				Analysis Date: 9/13/2023		SeqNo: 1805036			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Heavy Oil	488	100	500.0	0	97.6	85	115				
Surr: 2-Fluorobiphenyl	9.56		10.00		95.6	50	150				
Surr: o-Terphenyl	9.97		10.00		99.7	50	150				

Sample ID: DX-CCV-41455C		SampType: CCV		Units: mg/Kg		Prep Date: 9/13/2023		RunNo: 86471			
Client ID: CCV		Batch ID: 41455				Analysis Date: 9/13/2023		SeqNo: 1805037			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics	496	50.0	500.0	0	99.2	85	115				
Surr: 2-Fluorobiphenyl	10.6		10.00		106	50	150				
Surr: o-Terphenyl	12.4		10.00		124	50	150				

Sample ID: OIL-CCV-41511A		SampType: CCV		Units: mg/Kg		Prep Date: 9/19/2023		RunNo: 86599			
Client ID: CCV		Batch ID: 41511				Analysis Date: 9/19/2023		SeqNo: 1806859			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Heavy Oil	511	100	500.0	0	102	85	115				
Surr: 2-Fluorobiphenyl	10.8		10.00		108	50	150				
Surr: o-Terphenyl	11.1		10.00		111	50	150				

Work Order: 2309081
CLIENT: GeoEngineers
Project: South Jackson Street

QC SUMMARY REPORT

Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Sample ID: DX-CCV-41511A		SampType: CCV		Units: mg/Kg		Prep Date: 9/19/2023		RunNo: 86599			
Client ID: CCV		Batch ID: 41511				Analysis Date: 9/19/2023		SeqNo: 1806860			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics	519	50.0	500.0	0	104	85	115				
Surr: 2-Fluorobiphenyl	11.0		10.00		110	50	150				
Surr: o-Terphenyl	13.2		10.00		132	50	150				

Sample ID: MB-41511		SampType: MBLK		Units: mg/Kg		Prep Date: 9/19/2023		RunNo: 86599			
Client ID: MBLKS		Batch ID: 41511				Analysis Date: 9/19/2023		SeqNo: 1806861			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics	ND	50.0									
Heavy Oil	ND	100									
Total Petroleum Hydrocarbons	ND	150									
Surr: 2-Fluorobiphenyl	11.0		10.00		110	50	150				
Surr: o-Terphenyl	11.0		10.00		110	50	150				

Sample ID: LCS-41511		SampType: LCS		Units: mg/Kg		Prep Date: 9/19/2023		RunNo: 86599			
Client ID: LCSS		Batch ID: 41511				Analysis Date: 9/19/2023		SeqNo: 1806862			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Petroleum Hydrocarbons	493	150	500.0	0	98.6	78.5	123				
Surr: 2-Fluorobiphenyl	10.5		10.00		105	50	150				
Surr: o-Terphenyl	13.1		10.00		131	50	150				

Sample ID: 2309195-004AMSD		SampType: MSD		Units: mg/Kg-dry		Prep Date: 9/19/2023		RunNo: 86599			
Client ID: BATCH		Batch ID: 41511				Analysis Date: 9/19/2023		SeqNo: 1806866			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Petroleum Hydrocarbons	619	163	543.8	565.2	9.91	47.9	143	506.3	20.0	30	S
Surr: 2-Fluorobiphenyl	12.7		10.88		117	50	150		0		
Surr: o-Terphenyl	15.3		10.88		141	50	150		0		

Work Order: 2309081
CLIENT: GeoEngineers
Project: South Jackson Street

QC SUMMARY REPORT

Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Sample ID: 2309195-004AMSD	SampType: MSD	Units: mg/Kg-dry	Prep Date: 9/19/2023	RunNo: 86599							
Client ID: BATCH	Batch ID: 41511	Analysis Date: 9/19/2023	SeqNo: 1806866								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

NOTES:

S - Spiked amount was low relative to sample concentration. Outlying spike recoveries may be expected.

Sample ID: 2309195-004AMS	SampType: MS	Units: mg/Kg-dry	Prep Date: 9/19/2023	RunNo: 86599							
Client ID: BATCH	Batch ID: 41511	Analysis Date: 9/19/2023	SeqNo: 1806867								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Total Petroleum Hydrocarbons	506	164	547.4	565.2	-10.8	47.9	143				S
Surr: 2-Fluorobiphenyl	12.7		10.95		116	50	150				
Surr: o-Terphenyl	15.3		10.95		140	50	150				

NOTES:

S - Spiked amount was low relative to sample concentration. Outlying spike recoveries may be expected.

Sample ID: OIL-CCV-41511B	SampType: CCV	Units: mg/Kg	Prep Date: 9/19/2023	RunNo: 86599							
Client ID: CCV	Batch ID: 41511	Analysis Date: 9/19/2023	SeqNo: 1806870								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Heavy Oil	572	100	500.0	0	114	85	115				
Surr: 2-Fluorobiphenyl	12.0		10.00		120	50	150				
Surr: o-Terphenyl	12.4		10.00		124	50	150				

Sample ID: DX-CCV-41511B	SampType: CCV	Units: mg/Kg	Prep Date: 9/19/2023	RunNo: 86599							
Client ID: CCV	Batch ID: 41511	Analysis Date: 9/19/2023	SeqNo: 1806871								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel Range Organics	492	50.0	500.0	0	98.4	85	115				
Surr: 2-Fluorobiphenyl	10.6		10.00		106	50	150				
Surr: o-Terphenyl	13.0		10.00		130	50	150				

Work Order: 2309081
CLIENT: GeoEngineers
Project: South Jackson Street

QC SUMMARY REPORT
Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Sample ID: OIL-CCV-41511C		SampType: CCV		Units: mg/Kg		Prep Date: 9/19/2023		RunNo: 86599			
Client ID: CCV		Batch ID: 41511				Analysis Date: 9/19/2023		SeqNo: 1807830			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Heavy Oil	506	100	500.0	0	101	85	115				
Surr: 2-Fluorobiphenyl	10.1		10.00		101	50	150				
Surr: o-Terphenyl	10.7		10.00		107	50	150				

Sample ID: DX-CCV-41511C		SampType: CCV		Units: mg/Kg		Prep Date: 9/19/2023		RunNo: 86599			
Client ID: CCV		Batch ID: 41511				Analysis Date: 9/19/2023		SeqNo: 1807831			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics	472	50.0	500.0	0	94.4	85	115				
Surr: 2-Fluorobiphenyl	10.2		10.00		102	50	150				
Surr: o-Terphenyl	12.1		10.00		121	50	150				

Sample ID: OIL-CCV-41511D		SampType: CCV		Units: mg/Kg		Prep Date: 9/19/2023		RunNo: 86599			
Client ID: CCV		Batch ID: 41511				Analysis Date: 9/19/2023		SeqNo: 1807836			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Heavy Oil	527	100	500.0	0	105	85	115				
Surr: 2-Fluorobiphenyl	10.2		10.00		102	50	150				
Surr: o-Terphenyl	10.6		10.00		106	50	150				

Sample ID: DX-CCV-41511D		SampType: CCV		Units: mg/Kg		Prep Date: 9/19/2023		RunNo: 86599			
Client ID: CCV		Batch ID: 41511				Analysis Date: 9/19/2023		SeqNo: 1807837			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics	475	50.0	500.0	0	95.1	85	115				
Surr: 2-Fluorobiphenyl	10.3		10.00		103	50	150				
Surr: o-Terphenyl	12.2		10.00		122	50	150				

Work Order: 2309081
CLIENT: GeoEngineers
Project: South Jackson Street

QC SUMMARY REPORT

Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Sample ID: OIL-CCV-41511E	SampType: CCV	Units: mg/Kg				Prep Date: 9/20/2023	RunNo: 86599				
Client ID: CCV	Batch ID: 41511					Analysis Date: 9/20/2023	SeqNo: 1807849				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Heavy Oil	517	100	500.0	0	103	85	115				
Surr: 2-Fluorobiphenyl	10.4		10.00		104	50	150				
Surr: o-Terphenyl	10.7		10.00		107	50	150				

Sample ID: DX-CCV-41511E	SampType: CCV	Units: mg/Kg				Prep Date: 9/20/2023	RunNo: 86599				
Client ID: CCV	Batch ID: 41511					Analysis Date: 9/20/2023	SeqNo: 1807850				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel Range Organics	483	50.0	500.0	0	96.6	85	115				
Surr: 2-Fluorobiphenyl	10.2		10.00		102	50	150				
Surr: o-Terphenyl	12.4		10.00		124	50	150				

Sample ID: OIL-CCV-41511F	SampType: CCV	Units: mg/Kg				Prep Date: 9/20/2023	RunNo: 86599				
Client ID: CCV	Batch ID: 41511					Analysis Date: 9/20/2023	SeqNo: 1807851				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Heavy Oil	498	100	500.0	0	99.6	85	115				
Surr: 2-Fluorobiphenyl	10.5		10.00		105	50	150				
Surr: o-Terphenyl	10.9		10.00		109	50	150				

Sample ID: DX-CCV-41511F	SampType: CCV	Units: mg/Kg				Prep Date: 9/20/2023	RunNo: 86599				
Client ID: CCV	Batch ID: 41511					Analysis Date: 9/20/2023	SeqNo: 1807852				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel Range Organics	500	50.0	500.0	0	100	85	115				
Surr: 2-Fluorobiphenyl	10.0		10.00		100	50	150				
Surr: o-Terphenyl	12.8		10.00		128	50	150				

Work Order: 2309081
CLIENT: GeoEngineers
Project: South Jackson Street

QC SUMMARY REPORT
Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Sample ID: OIL-CCV-41511G		SampType: CCV		Units: mg/Kg		Prep Date: 9/20/2023		RunNo: 86599			
Client ID: CCV		Batch ID: 41511				Analysis Date: 9/20/2023		SeqNo: 1807855			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Heavy Oil	524	100	500.0	0	105	85	115				
Surr: 2-Fluorobiphenyl	10.8		10.00		108	50	150				
Surr: o-Terphenyl	11.2		10.00		112	50	150				

Sample ID: DX-CCV-41511G		SampType: CCV		Units: mg/Kg		Prep Date: 9/20/2023		RunNo: 86599			
Client ID: CCV		Batch ID: 41511				Analysis Date: 9/20/2023		SeqNo: 1807856			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics	505	50.0	500.0	0	101	85	115				
Surr: 2-Fluorobiphenyl	10.7		10.00		107	50	150				
Surr: o-Terphenyl	12.8		10.00		128	50	150				

Work Order: 2309081
CLIENT: GeoEngineers
Project: South Jackson Street

QC SUMMARY REPORT

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Sample ID: PAH ICB	SampType: ICB	Units: µg/L			Prep Date: 9/14/2023	RunNo: 86537					
Client ID: ICB	Batch ID: 41453				Analysis Date: 9/14/2023	SeqNo: 1805643					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	ND	20.0									
2-Methylnaphthalene	ND	20.0									
1-Methylnaphthalene	ND	20.0									
Surr: 2-Fluorobiphenyl	377		500.0		75.3	50.4	142				
Surr: Terphenyl-d14 (surr)	398		500.0		79.6	48.8	157				

Sample ID: PAH ICV	SampType: ICV	Units: µg/L			Prep Date: 9/14/2023	RunNo: 86537					
Client ID: ICV	Batch ID: 41453				Analysis Date: 9/14/2023	SeqNo: 1805644					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	1,030	20.0	1,000	0	103	70	130				
2-Methylnaphthalene	1,020	20.0	1,000	0	102	70	130				
1-Methylnaphthalene	1,030	20.0	1,000	0	103	70	130				
Surr: 2-Fluorobiphenyl	567		500.0		113	60.9	160				
Surr: Terphenyl-d14 (surr)	570		500.0		114	62.2	159				

Sample ID: PAH ICV	SampType: ICV	Units: µg/L			Prep Date: 9/15/2023	RunNo: 86534					
Client ID: ICV	Batch ID: 41453				Analysis Date: 9/15/2023	SeqNo: 1805567					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	1,020	20.0	1,000	0	102	70	130				
2-Methylnaphthalene	1,030	20.0	1,000	0	103	70	130				
1-Methylnaphthalene	1,020	20.0	1,000	0	102	70	130				
Surr: 2-Fluorobiphenyl	569		500.0		114	60.9	160				
Surr: Terphenyl-d14 (surr)	555		500.0		111	62.2	159				

Work Order: 2309081
CLIENT: GeoEngineers
Project: South Jackson Street

QC SUMMARY REPORT

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Sample ID: CCV-41453A	SampType: CCV	Units: µg/L	Prep Date: 9/15/2023	RunNo: 86543							
Client ID: CCV	Batch ID: 41453		Analysis Date: 9/15/2023	SeqNo: 1805688							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	1,020	0.0200	1,000	0	102	80	120				
2-Methylnaphthalene	1,030	0.0200	1,000	0	103	80	120				
1-Methylnaphthalene	1,020	0.0200	1,000	0	102	80	120				
Surr: 2-Fluorobiphenyl	569		500.0		114	69.5	150				
Surr: Terphenyl-d14 (surr)	555		500.0		111	71.6	145				

Sample ID: PAH ICB	SampType: ICB	Units: µg/L	Prep Date: 9/15/2023	RunNo: 86534							
Client ID: ICB	Batch ID: 41453		Analysis Date: 9/15/2023	SeqNo: 1805568							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	ND	20.0									
2-Methylnaphthalene	ND	20.0									
1-Methylnaphthalene	ND	20.0									
Surr: 2-Fluorobiphenyl	446		500.0		89.2	50.4	142				
Surr: Terphenyl-d14 (surr)	459		500.0		91.8	48.8	157				

Sample ID: MB-41453	SampType: MBLK	Units: mg/Kg	Prep Date: 9/12/2023	RunNo: 86543							
Client ID: MBLKS	Batch ID: 41453		Analysis Date: 9/15/2023	SeqNo: 1805689							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	ND	0.0200									
2-Methylnaphthalene	ND	0.0200									
1-Methylnaphthalene	ND	0.0200									
Surr: 2,4,6-Tribromophenol	1.52		2.000		75.8	27	142				
Surr: 2-Fluorobiphenyl	0.944		1.000		94.4	22.2	146				
Surr: Terphenyl-d14 (surr)	1.00		1.000		100	20.2	159				

Work Order: 2309081
CLIENT: GeoEngineers
Project: South Jackson Street

QC SUMMARY REPORT

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Sample ID: LCS-41453	SampType: LCS	Units: mg/Kg	Prep Date: 9/12/2023	RunNo: 86543							
Client ID: LCSS	Batch ID: 41453		Analysis Date: 9/15/2023	SeqNo: 1805690							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	1.88	0.0200	2.000	0	93.8	63.8	120				
2-Methylnaphthalene	1.86	0.0200	2.000	0	92.8	57	118				
1-Methylnaphthalene	1.86	0.0200	2.000	0	93.0	56.6	119				
Surr: 2,4,6-Tribromophenol	2.01		2.000		100	27	142				
Surr: 2-Fluorobiphenyl	0.948		1.000		94.8	22.2	146				
Surr: Terphenyl-d14 (surr)	0.973		1.000		97.3	20.2	159				

Sample ID: CCV-41453B	SampType: CCV	Units: µg/L	Prep Date: 9/15/2023	RunNo: 86543							
Client ID: CCV	Batch ID: 41453		Analysis Date: 9/15/2023	SeqNo: 1806164							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	989	0.0200	1,000	0	98.9	80	120				
2-Methylnaphthalene	998	0.0200	1,000	0	99.8	80	120				
1-Methylnaphthalene	993	0.0200	1,000	0	99.3	80	120				
Surr: 2-Fluorobiphenyl	500		500.0		100	69.5	150				
Surr: Terphenyl-d14 (surr)	551		500.0		110	71.6	145				

Sample ID: 2309055-001AMS	SampType: MS	Units: mg/Kg-dry	Prep Date: 9/12/2023	RunNo: 86543							
Client ID: BATCH	Batch ID: 41453		Analysis Date: 9/15/2023	SeqNo: 1806165							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	5.24	0.0493	4.926	0	106	44.9	136				
2-Methylnaphthalene	5.23	0.0493	4.926	0	106	39.2	132				
1-Methylnaphthalene	5.24	0.0493	4.926	0	106	40.9	133				
Surr: 2-Fluorobiphenyl	2.05		2.463		83.3	22.2	146				
Surr: Terphenyl-d14 (surr)	2.86		2.463		116	20.2	159				

Work Order: 2309081
CLIENT: GeoEngineers
Project: South Jackson Street

QC SUMMARY REPORT

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Sample ID: 2309055-001AMSD	SampType: MSD	Units: mg/Kg-dry				Prep Date: 9/12/2023	RunNo: 86543				
Client ID: BATCH	Batch ID: 41453					Analysis Date: 9/15/2023	SeqNo: 1806166				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	5.24	0.0493	4.931	0	106	44.9	136	5.236	0.152	30	
2-Methylnaphthalene	5.26	0.0493	4.931	0	107	39.2	132	5.231	0.635	30	
1-Methylnaphthalene	5.27	0.0493	4.931	0	107	40.9	133	5.242	0.527	30	
Surr: 2-Fluorobiphenyl	2.09		2.465		84.9	22.2	146		0		
Surr: Terphenyl-d14 (surr)	2.99		2.465		121	20.2	159		0		

Sample ID: CCV-41510	SampType: CCV	Units: µg/L				Prep Date: 9/19/2023	RunNo: 86595				
Client ID: CCV	Batch ID: 41510					Analysis Date: 9/19/2023	SeqNo: 1806812				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	954	0.0200	1,000	0	95.4	80	120				
2-Methylnaphthalene	968	0.0200	1,000	0	96.8	80	120				
1-Methylnaphthalene	960	0.0200	1,000	0	96.0	80	120				
Surr: 2-Fluorobiphenyl	469		500.0		93.8	69.5	150				
Surr: Terphenyl-d14 (surr)	426		500.0		85.2	71.6	145				

Sample ID: MB-41510	SampType: MBLK	Units: mg/Kg				Prep Date: 9/19/2023	RunNo: 86595				
Client ID: MBLKS	Batch ID: 41510					Analysis Date: 9/19/2023	SeqNo: 1806813				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	ND	0.0200									
2-Methylnaphthalene	ND	0.0200									
1-Methylnaphthalene	ND	0.0200									
Surr: 2-Fluorobiphenyl	0.860		1.000		86.0	22.2	146				
Surr: Terphenyl-d14 (surr)	0.833		1.000		83.3	20.2	159				

Work Order: 2309081
CLIENT: GeoEngineers
Project: South Jackson Street

QC SUMMARY REPORT

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Sample ID: LCS-41510	SampType: LCS	Units: mg/Kg				Prep Date: 9/19/2023	RunNo: 86595				
Client ID: LCSS	Batch ID: 41510					Analysis Date: 9/19/2023	SeqNo: 1806814				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	1.61	0.0200	2.000	0	80.7	63.8	120				
2-Methylnaphthalene	1.65	0.0200	2.000	0	82.4	57	118				
1-Methylnaphthalene	1.62	0.0200	2.000	0	81.2	56.6	119				
Surr: 2-Fluorobiphenyl	0.953		1.000		95.3	22.2	146				
Surr: Terphenyl-d14 (surr)	0.866		1.000		86.6	20.2	159				

Sample ID: 2309081-012AMS	SampType: MS	Units: mg/Kg-dry				Prep Date: 9/19/2023	RunNo: 86595				
Client ID: R3-B12-81	Batch ID: 41510					Analysis Date: 9/19/2023	SeqNo: 1807530				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	2.17	0.0254	2.543	0.006860	85.2	44.9	136				
2-Methylnaphthalene	2.26	0.0254	2.543	0	88.9	39.2	132				
1-Methylnaphthalene	2.23	0.0254	2.543	0	87.6	40.9	133				
Surr: 2-Fluorobiphenyl	1.21		1.272		95.0	22.2	146				
Surr: Terphenyl-d14 (surr)	1.11		1.272		87.3	20.2	159				

Sample ID: 2309081-012AMSD	SampType: MSD	Units: mg/Kg-dry				Prep Date: 9/19/2023	RunNo: 86595				
Client ID: R3-B12-81	Batch ID: 41510					Analysis Date: 9/19/2023	SeqNo: 1807531				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	2.34	0.0257	2.571	0.006860	90.7	44.9	136	2.174	7.31	30	
2-Methylnaphthalene	2.41	0.0257	2.571	0	93.9	39.2	132	2.260	6.54	30	
1-Methylnaphthalene	2.38	0.0257	2.571	0	92.6	40.9	133	2.229	6.60	30	
Surr: 2-Fluorobiphenyl	1.40		1.285		109	22.2	146		0		
Surr: Terphenyl-d14 (surr)	1.29		1.285		100	20.2	159		0		

Work Order: 2309081
CLIENT: GeoEngineers
Project: South Jackson Street

QC SUMMARY REPORT

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Sample ID: CCV-41510B	SampType: CCV	Units: µg/L	Prep Date: 9/20/2023	RunNo: 86595							
Client ID: CCV	Batch ID: 41510		Analysis Date: 9/20/2023	SeqNo: 1807536							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Naphthalene	965	0.0200	1,000	0	96.5	80	120				
2-Methylnaphthalene	1,000	0.0200	1,000	0	100	80	120				
1-Methylnaphthalene	982	0.0200	1,000	0	98.2	80	120				
Surr: 2-Fluorobiphenyl	492		500.0		98.5	69.5	150				
Surr: Terphenyl-d14 (surr)	450		500.0		90.0	71.6	145				

Sample ID: CCV-41510C	SampType: CCV	Units: µg/L	Prep Date: 9/20/2023	RunNo: 86595							
Client ID: CCV	Batch ID: 41510		Analysis Date: 9/20/2023	SeqNo: 1807808							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Naphthalene	962	0.0200	1,000	0	96.2	80	120				
2-Methylnaphthalene	1,000	0.0200	1,000	0	100	80	120				
1-Methylnaphthalene	983	0.0200	1,000	0	98.3	80	120				
Surr: 2-Fluorobiphenyl	491		500.0		98.2	69.5	150				
Surr: Terphenyl-d14 (surr)	452		500.0		90.5	71.6	145				

Sample ID: CCV-41510D	SampType: CCV	Units: µg/L	Prep Date: 9/21/2023	RunNo: 86595							
Client ID: CCV	Batch ID: 41510		Analysis Date: 9/21/2023	SeqNo: 1807823							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Naphthalene	951	0.0200	1,000	0	95.1	80	120				
2-Methylnaphthalene	984	0.0200	1,000	0	98.4	80	120				
1-Methylnaphthalene	963	0.0200	1,000	0	96.3	80	120				
Surr: 2-Fluorobiphenyl	483		500.0		96.6	69.5	150				
Surr: Terphenyl-d14 (surr)	434		500.0		86.9	71.6	145				

Work Order: 2309081
CLIENT: GeoEngineers
Project: South Jackson Street

QC SUMMARY REPORT
Gasoline by NWTPH-Gx

Sample ID: GX ICB	SampType: ICB	Units: µg/L	Prep Date: 9/6/2023	RunNo: 86333							
Client ID: ICB	Batch ID: 41458	Analysis Date: 9/6/2023	SeqNo: 1801853								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	ND	50.0									
Surr: Toluene-d8	24.7		25.00		98.9	65	135				
Surr: 4-Bromofluorobenzene	25.4		25.00		102	65	135				

Sample ID: GX ICV	SampType: ICV	Units: µg/L	Prep Date: 9/6/2023	RunNo: 86333							
Client ID: ICV	Batch ID: 41458	Analysis Date: 9/6/2023	SeqNo: 1801854								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	510	50.0	500.0	0	102	80	120				
Surr: Toluene-d8	25.4		25.00		102	65	135				
Surr: 4-Bromofluorobenzene	24.3		25.00		97.1	65	135				

Sample ID: CCV-41436A	SampType: CCV	Units: mg/Kg	Prep Date: 9/8/2023	RunNo: 86423							
Client ID: CCV	Batch ID: 41436	Analysis Date: 9/8/2023	SeqNo: 1803936								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	422	5.00	500.0	0	84.4	80	120				
Surr: Toluene-d8	24.3		25.00		97.1	65	135				
Surr: 4-Bromofluorobenzene	25.6		25.00		103	65	135				

Sample ID: LCS-41436	SampType: LCS	Units: mg/Kg	Prep Date: 9/8/2023	RunNo: 86423							
Client ID: LCSS	Batch ID: 41436	Analysis Date: 9/8/2023	SeqNo: 1803942								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	21.1	5.00	25.00	0	84.4	65	135				
Surr: Toluene-d8	1.21		1.250		97.1	65	135				
Surr: 4-Bromofluorobenzene	1.28		1.250		103	65	135				

Work Order: 2309081
CLIENT: GeoEngineers
Project: South Jackson Street

QC SUMMARY REPORT

Gasoline by NWTPH-Gx

Sample ID: MB-41436	SampType: MBLK	Units: mg/Kg	Prep Date: 9/8/2023	RunNo: 86423							
Client ID: MBLKS	Batch ID: 41436		Analysis Date: 9/8/2023	SeqNo: 1803967							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline Range Organics	ND	5.00									
Surr: Toluene-d8	1.24		1.250		98.9	65	135				
Surr: 4-Bromofluorobenzene	1.27		1.250		101	65	135				

Sample ID: CCV-41436B	SampType: CCV	Units: mg/Kg	Prep Date: 9/8/2023	RunNo: 86423							
Client ID: CCV	Batch ID: 41436		Analysis Date: 9/8/2023	SeqNo: 1803937							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline Range Organics	508	5.00	500.0	0	102	80	120				
Surr: Toluene-d8	25.1		25.00		100	65	135				
Surr: 4-Bromofluorobenzene	24.5		25.00		98.1	65	135				

Sample ID: 2309081-002BDUP	SampType: DUP	Units: mg/Kg-dry	Prep Date: 9/8/2023	RunNo: 86423							
Client ID: R3-ESW-S-87	Batch ID: 41436		Analysis Date: 9/8/2023	SeqNo: 1803926							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline Range Organics	ND	5.54						0		30	
Surr: Toluene-d8	1.33		1.385		96.2	65	135		0		
Surr: 4-Bromofluorobenzene	1.40		1.385		101	65	135		0		

Sample ID: 2309081-006BMS	SampType: MS	Units: mg/Kg-dry	Prep Date: 9/8/2023	RunNo: 86423							
Client ID: R3-B4-80	Batch ID: 41436		Analysis Date: 9/9/2023	SeqNo: 1803929							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline Range Organics	40.4	6.61	33.07	0	122	65	135				
Surr: Toluene-d8	1.68		1.653		102	65	135				
Surr: 4-Bromofluorobenzene	1.61		1.653		97.6	65	135				

Work Order: 2309081
CLIENT: GeoEngineers
Project: South Jackson Street

QC SUMMARY REPORT

Gasoline by NWTPH-Gx

Sample ID: CCV-41436C		SampType: CCV		Units: mg/Kg		Prep Date: 9/9/2023		RunNo: 86423			
Client ID: CCV		Batch ID: 41436				Analysis Date: 9/9/2023		SeqNo: 1803938			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	470	5.00	500.0	0	94.0	80	120				
Surr: Toluene-d8	25.0		25.00		99.9	65	135				
Surr: 4-Bromofluorobenzene	25.1		25.00		100	65	135				

Sample ID: CCV-41436D		SampType: CCV		Units: mg/Kg		Prep Date: 9/11/2023		RunNo: 86423			
Client ID: CCV		Batch ID: 41436				Analysis Date: 9/11/2023		SeqNo: 1803962			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	424	5.00	500.0	0	84.8	80	120				
Surr: Toluene-d8	24.5		25.00		98.0	65	135				
Surr: 4-Bromofluorobenzene	25.7		25.00		103	65	135				

Sample ID: CCV-41436E		SampType: CCV		Units: mg/Kg		Prep Date: 9/11/2023		RunNo: 86423			
Client ID: CCV		Batch ID: 41436				Analysis Date: 9/11/2023		SeqNo: 1803963			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	485	5.00	500.0	0	96.9	80	120				
Surr: Toluene-d8	24.9		25.00		99.8	65	135				
Surr: 4-Bromofluorobenzene	25.0		25.00		99.9	65	135				

Sample ID: CCV-41458A		SampType: CCV		Units: mg/Kg		Prep Date: 9/12/2023		RunNo: 86477			
Client ID: CCV		Batch ID: 41458				Analysis Date: 9/12/2023		SeqNo: 1804695			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	466	5.00	500.0	0	93.2	80	120				
Surr: Toluene-d8	24.9		25.00		99.5	65	135				
Surr: 4-Bromofluorobenzene	24.3		25.00		97.4	65	135				

Work Order: 2309081
CLIENT: GeoEngineers
Project: South Jackson Street

QC SUMMARY REPORT

Gasoline by NWTPH-Gx

Sample ID: LCS-41458	SampType: LCS	Units: mg/Kg				Prep Date: 9/12/2023	RunNo: 86477				
Client ID: LCSS	Batch ID: 41458					Analysis Date: 9/12/2023	SeqNo: 1804697				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline Range Organics	23.3	5.00	25.00	0	93.2	65	135				
Surr: Toluene-d8	1.24		1.250		99.5	65	135				
Surr: 4-Bromofluorobenzene	1.22		1.250		97.4	65	135				

Sample ID: MB-41458	SampType: MBLK	Units: mg/Kg				Prep Date: 9/12/2023	RunNo: 86477				
Client ID: MBLKS	Batch ID: 41458					Analysis Date: 9/12/2023	SeqNo: 1804696				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline Range Organics	ND	5.00									
Surr: Toluene-d8	1.24		1.250		99.2	65	135				
Surr: 4-Bromofluorobenzene	1.01		1.250		80.9	65	135				

Sample ID: 2309081-012BDUP	SampType: DUP	Units: mg/Kg-dry				Prep Date: 9/12/2023	RunNo: 86477				
Client ID: R3-B12-81	Batch ID: 41458					Analysis Date: 9/12/2023	SeqNo: 1804684				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline Range Organics	ND	8.31						0		30	
Surr: Toluene-d8	2.03		2.077		98.0	65	135		0		
Surr: 4-Bromofluorobenzene	2.08		2.077		100	65	135		0		

Sample ID: 2309099-002BMS	SampType: MS	Units: mg/Kg-dry				Prep Date: 9/12/2023	RunNo: 86477				
Client ID: BATCH	Batch ID: 41458					Analysis Date: 9/13/2023	SeqNo: 1804687				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline Range Organics	31.0	6.48	32.41	0	95.7	65	135				
Surr: Toluene-d8	1.61		1.621		99.6	65	135				
Surr: 4-Bromofluorobenzene	1.59		1.621		98.4	65	135				

Work Order: 2309081
CLIENT: GeoEngineers
Project: South Jackson Street

QC SUMMARY REPORT
Gasoline by NWTPH-Gx

Sample ID: CCV-41458B		SampType: CCV		Units: mg/Kg		Prep Date: 9/13/2023		RunNo: 86477			
Client ID: CCV		Batch ID: 41458				Analysis Date: 9/13/2023		SeqNo: 1804693			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	473	5.00	500.0	0	94.6	80	120				
Surr: Toluene-d8	25.2		25.00		101	65	135				
Surr: 4-Bromofluorobenzene	24.8		25.00		99.3	65	135				

Sample ID: CCV-41458C		SampType: CCV		Units: mg/Kg		Prep Date: 9/13/2023		RunNo: 86477			
Client ID: CCV		Batch ID: 41458				Analysis Date: 9/13/2023		SeqNo: 1804694			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	418	5.00	500.0	0	83.7	80	120				
Surr: Toluene-d8	24.4		25.00		97.6	65	135				
Surr: 4-Bromofluorobenzene	25.5		25.00		102	65	135				

Work Order: 2309081
CLIENT: GeoEngineers
Project: South Jackson Street

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: VOC S 86405		SampType: CCV		Units: µg/L		Prep Date: 9/8/2023		RunNo: 86478			
Client ID: CCV		Batch ID: 41458				Analysis Date: 9/8/2023		SeqNo: 1804717			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	19.8	0.0175	20.00	0	98.9	80	120				
Toluene	19.5	0.0300	20.00	0	97.7	80	120				
Ethylbenzene	19.6	0.0250	20.00	0	97.8	80	120				
m,p-Xylene	39.0	0.0500	40.00	0	97.5	80	120				
o-Xylene	20.3	0.0250	20.00	0	102	80	120				
Surr: Dibromofluoromethane	24.8		25.00		99.3	80	120				
Surr: Toluene-d8	25.0		25.00		99.9	80	120				
Surr: 1-Bromo-4-fluorobenzene	20.3		25.00		81.2	80	120				

Sample ID: VOC S ICB		SampType: ICB		Units: µg/L		Prep Date: 9/8/2023		RunNo: 86405			
Client ID: ICB		Batch ID: 41436				Analysis Date: 9/8/2023		SeqNo: 1803321			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.0175									
Toluene	0.0366	0.0300									
Ethylbenzene	0.0644	0.0250									
m,p-Xylene	0.107	0.0500									
o-Xylene	0.0257	0.0250									
Surr: Dibromofluoromethane	25.3		25.00		101	80	120				
Surr: Toluene-d8	25.2		25.00		101	80	120				
Surr: 1-Bromo-4-fluorobenzene	27.5		25.00		110	80	120				

Sample ID: CCV-41436A		SampType: CCV		Units: µg/L		Prep Date: 9/8/2023		RunNo: 86422			
Client ID: CCV		Batch ID: 41436				Analysis Date: 9/8/2023		SeqNo: 1803628			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	19.5	0.0175	20.00	0	97.7	80	120				
Toluene	19.3	0.0300	20.00	0	96.5	80	120				
Ethylbenzene	18.6	0.0250	20.00	0	93.1	80	120				
m,p-Xylene	37.7	0.0500	40.00	0	94.1	80	120				
o-Xylene	19.3	0.0250	20.00	0	96.4	80	120				

Work Order: 2309081
CLIENT: GeoEngineers
Project: South Jackson Street

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: CCV-41436A		SampType: CCV		Units: µg/L		Prep Date: 9/8/2023		RunNo: 86422			
Client ID: CCV		Batch ID: 41436				Analysis Date: 9/8/2023		SeqNo: 1803628			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	24.7		25.00		98.9	80	120				
Surr: Toluene-d8	24.9		25.00		99.5	80	120				
Surr: 1-Bromo-4-fluorobenzene	27.2		25.00		109	80	120				

Sample ID: LCS-41436		SampType: LCS		Units: µg/L		Prep Date: 9/8/2023		RunNo: 86422			
Client ID: LCSS		Batch ID: 41436				Analysis Date: 9/8/2023		SeqNo: 1803629			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	0.977	0.0175	1.000	0	97.7	80	120				
Toluene	0.965	0.0300	1.000	0	96.5	80	120				
Ethylbenzene	0.931	0.0250	1.000	0	93.1	80	120				
m,p-Xylene	1.88	0.0500	2.000	0	94.1	80	120				
o-Xylene	0.964	0.0250	1.000	0	96.4	80	120				
Surr: Dibromofluoromethane	1.24		1.250		98.9	74.2	129				
Surr: Toluene-d8	1.24		1.250		99.5	72	135				
Surr: 1-Bromo-4-fluorobenzene	1.36		1.250		109	51	150				

Sample ID: VOC S ICV		SampType: ICV		Units: µg/L		Prep Date: 9/8/2023		RunNo: 86405			
Client ID: ICV		Batch ID: 41458				Analysis Date: 9/8/2023		SeqNo: 1803322			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	19.5	0.0175	20.00	0	97.7	70	130				
Toluene	19.3	0.0300	20.00	0	96.5	70	130				
Ethylbenzene	18.6	0.0250	20.00	0	93.1	70	130				
m,p-Xylene	37.7	0.0500	40.00	0	94.1	70	130				
o-Xylene	19.3	0.0250	20.00	0	96.4	70	130				
Surr: Dibromofluoromethane	24.7		25.00		98.9	80	120				
Surr: Toluene-d8	24.9		25.00		99.5	80	120				
Surr: 1-Bromo-4-fluorobenzene	27.2		25.00		109	80	120				

Work Order: 2309081
CLIENT: GeoEngineers
Project: South Jackson Street

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: MB-41436		SampType: MBLK		Units: mg/Kg		Prep Date: 9/8/2023		RunNo: 86422			
Client ID: MBLKS		Batch ID: 41436				Analysis Date: 9/8/2023		SeqNo: 1803944			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.0175									
Toluene	ND	0.0300									
Ethylbenzene	ND	0.0250									
m,p-Xylene	ND	0.0500									
o-Xylene	ND	0.0250									
Surr: Dibromofluoromethane	1.22		1.250		98.0	79.5	124				
Surr: Toluene-d8	1.25		1.250		100	77.5	124				
Surr: 1-Bromo-4-fluorobenzene	1.11		1.250		88.4	60.5	139				

Sample ID: CCV-41436B		SampType: CCV		Units: µg/L		Prep Date: 9/8/2023		RunNo: 86422			
Client ID: CCV		Batch ID: 41436				Analysis Date: 9/8/2023		SeqNo: 1803627			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	20.3	0.0175	20.00	0	102	80	120				
Toluene	19.8	0.0300	20.00	0	98.8	80	120				
Ethylbenzene	19.6	0.0250	20.00	0	98.0	80	120				
m,p-Xylene	39.2	0.0500	40.00	0	98.0	80	120				
o-Xylene	20.2	0.0250	20.00	0	101	80	120				
Surr: Dibromofluoromethane	25.1		25.00		101	80	120				
Surr: Toluene-d8	24.7		25.00		98.8	80	120				
Surr: 1-Bromo-4-fluorobenzene	26.9		25.00		108	80	120				

Sample ID: 2309081-002BDUP		SampType: DUP		Units: mg/Kg-dry		Prep Date: 9/8/2023		RunNo: 86422			
Client ID: R3-ESW-S-87		Batch ID: 41436				Analysis Date: 9/8/2023		SeqNo: 1803616			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.0194						0		30	
Toluene	ND	0.0332						0		30	
Ethylbenzene	ND	0.0277						0		30	
m,p-Xylene	ND	0.0554						0		30	
o-Xylene	ND	0.0277						0		30	

Work Order: 2309081
CLIENT: GeoEngineers
Project: South Jackson Street

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: 2309081-002BDUP	SampType: DUP	Units: mg/Kg-dry	Prep Date: 9/8/2023	RunNo: 86422							
Client ID: R3-ESW-S-87	Batch ID: 41436	Analysis Date: 9/8/2023	SeqNo: 1803616								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Surr: Dibromofluoromethane	1.41		1.385		102	74.2	129		0		
Surr: Toluene-d8	1.42		1.385		103	72	135		0		
Surr: 1-Bromo-4-fluorobenzene	1.54		1.385		111	51	150		0		

Sample ID: 2309081-004BMS	SampType: MS	Units: mg/Kg-dry	Prep Date: 9/8/2023	RunNo: 86422							
Client ID: R3-B1-80	Batch ID: 41436	Analysis Date: 9/9/2023	SeqNo: 1803618								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	1.38	0.0237	1.354	0	102	52.3	147				
Toluene	1.38	0.0406	1.354	0	102	50.1	147				
Ethylbenzene	1.35	0.0339	1.354	0	99.4	51.7	143				
m,p-Xylene	2.64	0.0677	2.709	0	97.6	54.5	144				
o-Xylene	1.37	0.0339	1.354	0	101	57.1	141				
Surr: Dibromofluoromethane	1.71		1.693		101	74.2	129				
Surr: Toluene-d8	1.75		1.693		103	72	135				
Surr: 1-Bromo-4-fluorobenzene	1.81		1.693		107	51	150				

Sample ID: CCV-41436C	SampType: CCV	Units: µg/L	Prep Date: 9/11/2023	RunNo: 86422							
Client ID: CCV	Batch ID: 41436	Analysis Date: 9/11/2023	SeqNo: 1803909								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	21.5	0.0175	20.00	0	107	80	120				
Toluene	21.8	0.0300	20.00	0	109	80	120				
Ethylbenzene	21.0	0.0250	20.00	0	105	80	120				
m,p-Xylene	41.7	0.0500	40.00	0	104	80	120				
o-Xylene	21.6	0.0250	20.00	0	108	80	120				
Surr: Dibromofluoromethane	25.2		25.00		101	80	120				
Surr: Toluene-d8	25.7		25.00		103	80	120				
Surr: 1-Bromo-4-fluorobenzene	26.7		25.00		107	80	120				

Work Order: 2309081
CLIENT: GeoEngineers
Project: South Jackson Street

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: CCV-41458A		SampType: CCV		Units: µg/L		Prep Date: 9/12/2023		RunNo: 86478			
Client ID: CCV		Batch ID: 41458				Analysis Date: 9/12/2023		SeqNo: 1804715			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	21.1	0.0175	20.00	0	106	80	120				
Toluene	21.4	0.0300	20.00	0	107	80	120				
Ethylbenzene	19.7	0.0250	20.00	0	98.5	80	120				
m,p-Xylene	38.9	0.0500	40.00	0	97.2	80	120				
o-Xylene	20.1	0.0250	20.00	0	101	80	120				
Surr: Dibromofluoromethane	24.8		25.00		99.4	80	120				
Surr: Toluene-d8	26.0		25.00		104	80	120				
Surr: 1-Bromo-4-fluorobenzene	22.0		25.00		88.1	80	120				

Sample ID: LCS-41458		SampType: LCS		Units: µg/L		Prep Date: 9/12/2023		RunNo: 86478			
Client ID: LCSS		Batch ID: 41458				Analysis Date: 9/12/2023		SeqNo: 1804716			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	1.06	0.0175	1.000	0	106	80	120				
Toluene	1.07	0.0300	1.000	0	107	80	120				
Ethylbenzene	0.985	0.0250	1.000	0	98.5	80	120				
m,p-Xylene	1.94	0.0500	2.000	0	97.2	80	120				
o-Xylene	1.01	0.0250	1.000	0	101	80	120				
Surr: Dibromofluoromethane	1.24		1.250		99.4	74.2	129				
Surr: Toluene-d8	1.30		1.250		104	72	135				
Surr: 1-Bromo-4-fluorobenzene	1.10		1.250		88.1	51	150				

Sample ID: MB-41458		SampType: MBLK		Units: mg/Kg		Prep Date: 9/12/2023		RunNo: 86478			
Client ID: MBLKS		Batch ID: 41458				Analysis Date: 9/12/2023		SeqNo: 1804712			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.0175									
Toluene	ND	0.0300									
Ethylbenzene	ND	0.0250									
m,p-Xylene	ND	0.0500									
o-Xylene	ND	0.0250									

Work Order: 2309081
CLIENT: GeoEngineers
Project: South Jackson Street

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: MB-41458		SampType: MBLK		Units: mg/Kg		Prep Date: 9/12/2023		RunNo: 86478			
Client ID: MBLKS		Batch ID: 41458				Analysis Date: 9/12/2023		SeqNo: 1804712			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	1.27		1.250		101	79.5	124				
Surr: Toluene-d8	1.33		1.250		106	77.5	124				
Surr: 1-Bromo-4-fluorobenzene	1.12		1.250		89.2	60.5	139				

Sample ID: 2309081-012BDUP		SampType: DUP		Units: mg/Kg-dry		Prep Date: 9/12/2023		RunNo: 86478			
Client ID: R3-B12-81		Batch ID: 41458				Analysis Date: 9/12/2023		SeqNo: 1804703			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.0291						0		30	
Toluene	ND	0.0498						0		30	
Ethylbenzene	ND	0.0415						0		30	
m,p-Xylene	ND	0.0831						0		30	
o-Xylene	ND	0.0415						0		30	
Surr: Dibromofluoromethane	2.08		2.077		100	74.2	129		0		
Surr: Toluene-d8	2.23		2.077		108	72	135		0		
Surr: 1-Bromo-4-fluorobenzene	2.30		2.077		111	51	150		0		

Sample ID: 2309099-001BMS		SampType: MS		Units: mg/Kg-dry		Prep Date: 9/12/2023		RunNo: 86478			
Client ID: BATCH		Batch ID: 41458				Analysis Date: 9/13/2023		SeqNo: 1804705			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	1.51	0.0224	1.282	0	118	52.3	147				
Toluene	1.50	0.0385	1.282	0	117	50.1	147				
Ethylbenzene	1.40	0.0320	1.282	0	110	51.7	143				
m,p-Xylene	2.74	0.0641	2.564	0	107	54.5	144				
o-Xylene	1.41	0.0320	1.282	0	110	57.1	141				
Surr: Dibromofluoromethane	1.64		1.602		102	74.2	129				
Surr: Toluene-d8	1.69		1.602		105	72	135				
Surr: 1-Bromo-4-fluorobenzene	1.71		1.602		107	51	150				

Work Order: 2309081
CLIENT: GeoEngineers
Project: South Jackson Street

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: CCV-41458B	SampType: CCV	Units: µg/L				Prep Date: 9/13/2023	RunNo: 86478				
Client ID: CCV	Batch ID: 41458					Analysis Date: 9/13/2023	SeqNo: 1804713				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	20.8	0.0175	20.00	0	104	80	120				
Toluene	20.6	0.0300	20.00	0	103	80	120				
Ethylbenzene	19.2	0.0250	20.00	0	96.2	80	120				
m,p-Xylene	38.2	0.0500	40.00	0	95.6	80	120				
Surr: Dibromofluoromethane	25.3		25.00		101	80	120				
Surr: Toluene-d8	26.4		25.00		106	80	120				
Surr: 1-Bromo-4-fluorobenzene	23.2		25.00		92.7	80	120				

Sample ID: CCV-41458C	SampType: CCV	Units: µg/L				Prep Date: 9/13/2023	RunNo: 86478				
Client ID: CCV	Batch ID: 41458					Analysis Date: 9/13/2023	SeqNo: 1804714				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	20.9	0.0175	20.00	0	105	80	120				
Toluene	20.9	0.0300	20.00	0	105	80	120				
Ethylbenzene	18.9	0.0250	20.00	0	94.6	80	120				
m,p-Xylene	37.4	0.0500	40.00	0	93.6	80	120				
o-Xylene	19.4	0.0250	20.00	0	96.8	80	120				
Surr: Dibromofluoromethane	24.9		25.00		99.6	80	120				
Surr: Toluene-d8	26.4		25.00		106	80	120				
Surr: 1-Bromo-4-fluorobenzene	22.3		25.00		89.3	80	120				

Client Name: GEI	Work Order Number: 2309081
Logged by: Morgan Wilson	Date Received: 9/8/2023 2:35:00 PM

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
2. How was the sample delivered? Client

Log In

3. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes No Not Present
4. Was an attempt made to cool the samples? Yes No NA
5. Were all items received at a temperature of >2°C to 6°C * Unknown prior to receipt. Yes No NA
6. Sample(s) in proper container(s)? Yes No
7. Sufficient sample volume for indicated test(s)? Yes No
8. Are samples properly preserved? Yes No
9. Was preservative added to bottles? Yes No NA
10. Is there headspace in the VOA vials? Yes No NA
11. Did all samples containers arrive in good condition(unbroken)? Yes No
12. Does paperwork match bottle labels? Yes No
13. Are matrices correctly identified on Chain of Custody? Yes No
14. Is it clear what analyses were requested? Yes No
15. Were all holding times able to be met? Yes No

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

17. Additional remarks:

Item Information

Item #	Temp °C
Sample	24.5

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C



Fremont
ANALYTICAL
AN ALIQUOT TRAINING SCHOOL COMPANY

3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790

Chain of Custody Record & Laboratory Services Agreement

Date: 9/8/23 Page: 1 of 2
 Project Name: South Jackson Street
 Project No: 24584-001-01
 Collected by: Paul RIBUSTE
 Location: Seattle, WA
 Report To (PM): Roberts TRAVIS
 Laboratory Project No (Internal): 2309081
 Special Remarks: LEAK ZB QA
 Disposal: Samples will be disposed in 30 days unless otherwise requested.
 Retain volume (specify above) Return to client

Client: GED ENVIRONMENTALS

Address:

City, State, Zip:

Telephone: 425.861.2674

Email(s): traban@gedenvironmentals.com

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	# of Cont.	Analytes													Comments								
					VOCs (EPA 8260 / 624)	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HClD)	Diesel/Heavy Oil Range Organics (DX)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T) Dissolved (D)	Anions (IC)**	EDB (8011)										
1 ESUB-C-87	9/8/23	1240	S	3	X	X																				
2 ESUB-5-87		1845	S	3	X	X																				
3 R3-B7-79		1015	S	3			X	X																		
4 R3-B1-80		1005	S	3			X	X																		
5 R3-B4-79		1030	S	3																						
6 R3-B1-80		1015	S	3			X	X																		
7 R3-B8-79		930	S	3			X	X																		
8 R3-B9-79		1150	S	3																						
9 R3-B9-80		1145	S	3			X	X																		
10 R3-B10-80		955	S	3			X	X																		

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water
 **Metals (Circle): MICA-5 RCRA-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Tl Ti V Zn
 ***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite
 I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished (Signature) [Signature] Print Name Paul Ribuste Date/Time 9/8/23 1435
 Received (Signature) [Signature] Print Name Paul Ribuste Date/Time 9/8/23 1435
 Relinquished (Signature) [Signature] Print Name Paul Ribuste Date/Time 9/8/23 1435



3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790

Chain of Custody Record & Laboratory Services Agreement

Date: 9/8/23 Page: 2 of 2

Project Name: S. Jackson

Project No: 24504-001-01

Collected by: Paul Forbister

Location: Seattle, WA

Report To (PM): Robert Tolkan

Laboratory Project No (Internal): 2509081

Special Remarks: IC26 26 QA

Client: FEDEX SERVICES

Address:

City, State, Zip:

Telephone: 425.861.2674

Report To (PM):

Disposal: Samples will be disposed in 30 days unless otherwise requested.
 Retain volume (specify above) Return to client

Email(s): strahan@fedexengineers.com

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	# of Cont.	Analysis Methods																		Comments			
					VOCs (EPA 8260 / 624)	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HID)	Diesel/Heavy Oil Range Organics (DHO)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T) / Dissolved (D)	Anions (IC)**	EDB (801)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T) / Dissolved (D)	Anions (IC)**	EDB (801)					
1 R3-B11-83	9/8/23	1100	S	3	XX																					
2 R3-812-81		1115	S	3	XX																					
3 R3-812-83		1105	S	3	XX																					
4 TRD BLANK				1	XX																					
5																										
6																										
7																										
8																										
9																										
10																										

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water

**Metals (Circle): MICA-5 RCRA-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Tl Ti V Zn

***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite

Turn-around Time:
 Standard Next Day
 3 Day
 Same Day
 2 Day (specify)

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished (Signature)

Print Name

Date/Time

Received (Signature)

Print Name

Date/Time

Relinquished (Signature)

Print Name

Date/Time

Received (Signature)

Print Name

Date/Time



Fremont
ANALYTICAL
AN ALLIANCE TRAINING GROUP COMPANY

3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790

Chain of Custody Record & Laboratory Services Agreement

Date: 9/8/23 Page: 1 of 2
Project Name: South Jackson Street
Project No: 24584-001-01
Laboratory Project No (Internal): 2309081
Special Remarks: LEAK ZB QA
update per RT
-mw 9/8/23

Client: GED ENVIRONMENTALS
Address: _____
City, State, Zip: _____
Telephone: 425.861.2674
Email(s): strehon@gedenvironmentals.com
Collected by: Paul RIBUSTE
Location: Seattle, WA
Report To (PM): Roberts TRAHAN
Disposal: Samples will be disposed in 30 days unless otherwise requested.
 Retain volume (specify above) Return to client

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	# of Cont.	Analytes													Comments								
					VOCs (EPA 8260 / 624)	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HClD)	Diesel/Heavy Oil Range Organics (Dk)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T) Dissolved (D)	Anions (IC)**	EDB (8011)										
1 ESUB-C-87	9/8/23	1240	S	3	X	X																				
2 ESUB-5-87		1845	S	3	X	X																				
3 R3-B7-79		1015	S	3																						
4 R3-B1-80		1005	S	3	X	X																				
5 R3-B4-79		1030	S	3																						
6 R3-B1-80		1015	S	3	X	X																				
7 R3-B8-79		930	S	3																						
8 R3-B9-79		1150	S	3																						
9 R3-B9-80		1145	S	3	X	X																				
10 R3-B10-80		955	S	3	X	X																				

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water

**Metals (Circle): MICA-5 RCRA-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sp Se Sr Sn Ti Tl V Zn

***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Turn-around Time:
 Standard
 Next Day
 3 Day
 Same Day
 2 Day (specify) _____

Relinquished (Signature) _____ Date/Time 9/8/23 1435
 Received (Signature) _____ Date/Time 9/8/23 1435
 Relinquished (Signature) _____ Date/Time _____
 Received (Signature) _____ Date/Time _____



Fremont Analytical
ANALYTICAL GROUP COMPANY

3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790

Chain of Custody Record & Laboratory Services Agreement

Date: 9/8/23 Page: 2 of 2

Project Name: S. Jackson

Project No: 21504-001-Q1

Collected by: Paul Fabiszke

Location: Seattle, WA

Report To (PM): Robert Trolan

Laboratory Project No (Internal): 2509081

Special Remarks: 10/21/23 QA

update per RT -mw 9/8/23

Disposal: Samples will be disposed in 30 days unless otherwise requested.
 Retain volume (specify above) Return to client

Client: F20 ENVIRONERS
Address:
City, State, Zip: Vis. 861. 2634
Telephone:
Email: strahan@f20enviro.com

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	# of Cont.	Analytes										Comments		
					VOCs (EPA 8260 / 624)	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HX)	Diesel/Heavy Oil Range Organics (HX)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T) Dissolved (D)		Anions (IC)**	EDB (801)
1 R3-B11-83	9/8/23	1100	S	3	XX												
2 R3-B12-81		1115	S	3													
3 R3-B12-83		1105	S	3	XX												
4 TRD BLANK				1	X	X											
5																	
6																	
7																	
8																	
9																	
10																	

Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water
 Metals (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Tl Tl V Zn
 Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide Iodide Nitrate+Nitrite

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished (Signature): Paul Fabiszke Date/Time: 9/8/23
 Received (Signature): [Signature] Date/Time: 9/8/23

Print Name: Paul Fabiszke Date/Time: 9/8/23
 Turn-around Time:
 Standard Next Day
 3 Day
 Same Day
 2 Day (specify)



Fremont
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3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790

Chain of Custody Record & Laboratory Services Agreement

Date: 9/8/23 Page: 1 of: 2

Laboratory Project No (internal): 2309081

Project Name: South Jackson Street

Special Remarks:
Level 2B QA

Project No: 24504-001-01

update per RT
-mw 9/8/23

Collected by: PAUL ROBINETTE

update by RT on 9/12/23, 2 Day TAT -BB

Location: Seattle, WA

Report To (PM): ROBERT TRAHAN

Disposal: Samples will be disposed in 30 days unless otherwise requested.
 Retain volume (specify above) Return to client

Report To (PM): ROBERT TRAHAN

Client: GEO ENGINEERS

Address:

City, State, Zip:

Telephone: 425.861.2674

Email(s): strahan@geoengineers.com

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	# of Cont.	Analytes													Comments		
					VOCs (EPA 8260 / 624)	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (DX)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 / 625)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T) Dissolved (D)	Anions (IC)**	EDB (8071)	HOLD		*Naphthalenes	
1 ESW-C-87	9/8/23	1240	S	3	X	X	X												X	
2 ESW-S-87		1845		3	X	X	X												X	
3 R3-B1-79		1015		3														X		
4 R3-B1-80		1005		3	X	X	X												X	
5 R3-B4-79		1030		3														X		
6 R3-B4-80		1025		3	X	X	X												X	
7 R3-B8-79		930		3	X	X	X												X	
8 R3-B9-79		1150		3	X	X												X		
9 R3-B9-80		1145		3	X	X														
10 R3-B10-80		955		3	X	X	X												X	

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water

**Metals (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Ti Tl V Zn

***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite

Turn-around Time:
 Standard Next Day
 3 Day Same Day
 2 Day (specify)

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished (Signature): [Signature] Print Name: Paul Robinette Date/Time: 9/8/23 1455

Received (Signature): [Signature] Print Name: Robert Trahan Date/Time: 9/8/23 1435

Page 25 of 26



Fremont
Analytical
AN ANHANG TECHNIKE GROUP COMPANY

3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790

Chain of Custody Record & Laboratory Services Agreement

Date: 9/8/23 Page: 2 of: 2

Laboratory Project No (internal): 2309081

Project Name: S. Jackson
Project No: 221504-001-01
Collected by: Paul Robinson
Location: Seattle, WA
Report To (PM): Robert Trahan

Special Remarks:
Level 25 QA

update per RT
-mw 9/8/23

Client: FEED ENGINEERS

Address:

City, State, Zip:

Telephone: 425.861.2674

Email(s): rtarahan@feedengineers.com

Disposal: Samples will be disposed in 30 days unless otherwise requested.
 Retain volume (specify above) Return to client

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	# of Cont.	Analytical Parameters												Comments	
					VOCs (EPA 8260 / 624)	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (DH)	SYOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T) Dissolved (D)	Anions (IC)*	EDB (8011)		
1 R3-B11-83	9/8/23	1100	S	3	X	X	X										X	
2 R3-B12-81	}	1115	↓	3	X	X											X	
3 R3-B12-83		1105	↓	3	X	X												
4 TRIP BLANK		↓			1	X	X	X										
5																		
6																		
7																		
8																		
9																		
10																		

*Naphthalenes

HELD

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water

**Metals (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Ti Tl V Zn

***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite

Turn-around Time:

Standard Next Day

3 Day Same Day

2 Day _____ (specify)

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished (Signature): Paul Robinson Print Name: Paul Robinson Date/Time: 9/8/23 1435

Received (Signature): Robert Trahan Print Name: Robert Trahan Date/Time: 9/8/23 1436

Relinquished (Signature): _____ Print Name: _____ Date/Time: _____

Received (Signature): _____ Print Name: _____ Date/Time: _____



Fremont
Analytical
AN ALLIANCE TECHNICAL GROUP COMPANY

3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790

Chain of Custody Record & Laboratory Services Agreement

Date: 9/8/23 Page: 1 of: 2

Laboratory Project No (internal): 2309081

Project Name: South Jackson Street

Special Remarks:
Level 2B QA

Project No: 24504-001-01

update per RT
-mw 9/8/23

Collected by: PAUL ROBINETTE

update by RT on 9/12/23, 2 Day TAT -BB
Update by RT on 9/18/23, 3 Day TAT -BB

Location: Seattle, WA

Disposal: Samples will be disposed in 30 days unless otherwise requested.
 Retain volume (specify above) Return to client

Report To (PM): ROBERT TRAHAN

Client: GEO ENGINEERS

Address:

City, State, Zip:

Telephone: 425.861.2674

Email(s): strahan@geoengineers.com

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	# of Cont.	Analytes													Comments		
					VOCs (EPA 8260 / 624)	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (DX)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 / 625)	PCBs (EPA 8270 - SIM)	Metals** (EPA 8082 / 608)	Total (T) Dissolved (D)	Anions (IC)**	EDB (8071)	HOLD			
1 ESW-C-87	9/8/23	1240	S	3	X	X	X												X	
2 ESW-S-87		1845		3	X	X	X												X	
3 R3-B1-79		1015		3														X		
4 R3-B1-80		1005		3	X	X	X												X	
5 R3-B4-79		1030		3														X		
6 R3-B4-80		1025		3	X	X	X												X	
7 R3-B8-79		930		3	X	X	X												X	
8 R3-B9-79		1150		3	X	X												X		
9 R3-B9-80		1145		3	X	X														
10 R3-B10-80		955		3	X	X	X												X	

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water

**Metals (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Ti Tl V Zn

***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite

Turn-around Time:
 Standard Next Day
 3 Day Same Day
 2 Day _____ (specify)

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished (Signature): [Signature] Print Name: Paul Robinette Date/Time: 9/8/23 1455

Received (Signature): [Signature] Print Name: [Signature] Date/Time: 9/8/23 1435

Page 25 of 26



3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790

Chain of Custody Record & Laboratory Services Agreement

Date: 9/8/23 Page: 2 of: 2

Laboratory Project No (internal): 2309081

Project Name: S. Jackson

Special Remarks:
Level 25 QA

Project No: 221504-001-01

update per RT
-mw 9/8/23

Collected by: Paul Robinette

Location: Seattle, WA

Disposal: Samples will be disposed in 30 days unless otherwise requested.
 Retain volume (specify above) Return to client

Report To (PM): Robert Trahan

Client: GeoEngineers

Address:

City, State, Zip:

Telephone: 425.861.2674

Email(s): rtarahan@geoengineers.com

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	# of Cont.	Analytical Parameters													Comments	
					VOCs (EPA 8260 / 624)	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCD)	Diesel/Heavy Oil Range Organics (DH)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T) Dissolved (D)	Anions (IC)*	EDB (8011)	HELD*		
1 R3-B11-83	9/8/23	1100	S	5		X	X	X										X	
2 R3-B12-81		1115		3		X	X	X										X	X
3 R3-B12-83		1105		3		X	X												
4 TRIP BLANK				1		X	X	X											
5																			
6																			
7																			
8																			
9																			
10																			

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water

**Metals (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Ti Tl V Zn

***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite

Turn-around Time:
 Standard Next Day
 3 Day Same Day
 2 Day (specify)

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished (Signature) Paul Robinette Print Name Paul Robinette Date/Time 9/8/23 1435

Received (Signature) [Signature] Print Name Robert Trahan Date/Time 9/8/23 1436

Relinquished (Signature) _____ Date/Time _____ Received (Signature) _____ Date/Time _____

DATA SET for Review - Deliverable Requirements

Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Fremont Analytical Work Order No. 2309081

GeoEngineers

Project Name: South Jackson Street

Project Number: 24504-001-00

This data set contains the following:

- Analytical Sequence Summary
- Calibration Information

Data Directory: D:\GC-24\Data\2023\230727FRONT\

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) 07270002.D CO	DX_220112.M	150	1.000	27 Jul 2023 10:39 am
2) 07270004.D HO 20	DX_220112.M	21	1.000	27 Jul 2023 10:50 am
3) 07270006.D HO 100	DX_220112.M	22	1.000	27 Jul 2023 11:01 am
4) 07270008.D HO 500	DX_220112.M	23	1.000	27 Jul 2023 11:12 am
5) 07270010.D HO 1000	DX_220112.M	24	1.000	27 Jul 2023 11:23 am
6) 07270012.D HO 2000	DX_220112.M	25	1.000	27 Jul 2023 11:34 am
7) 07270014.D HO 5000	DX_220112.M	26	1.000	27 Jul 2023 11:45 am
8) 07270016.D HO 10000	DX_220112.M	27	1.000	27 Jul 2023 11:56 am
9) 07270018.D CO	DX_220112.M	150	1.000	27 Jul 2023 12:07 pm
10) 07270020.D CO	DX_220112.M	150	1.000	27 Jul 2023 12:18 pm
11) 07270022.D CO	DX_220112.M	148	1.000	27 Jul 2023 12:29 pm
12) 07270024.D HO ICB	DX_220112.M	28	1.000	27 Jul 2023 12:40 pm
13) 07270026.D HO 20	DX_220112.M	21	1.000	27 Jul 2023 12:51 pm
14) 07270028.D HO ICV	DX_220112.M	29	1.000	27 Jul 2023 01:02 pm
15) 07270030.D CO	DX_220112.M	150	1.000	27 Jul 2023 01:13 pm
16) 07270032.D DX 20	DX_220112.M	11	1.000	27 Jul 2023 01:23 pm
17) 07270034.D DX 100	DX_220112.M	12	1.000	27 Jul 2023 01:34 pm
18) 07270036.D DX 500	DX_220112.M	13	1.000	27 Jul 2023 01:46 pm
19) 07270038.D DX 1000	DX_220112.M	14	1.000	27 Jul 2023 01:57 pm
20) 07270040.D DX 2000	DX_220112.M	15	1.000	27 Jul 2023 02:08 pm
21) 07270042.D DX 5000	DX_220112.M	16	1.000	27 Jul 2023 02:19 pm

22) 07270044.D DX 10000	DX_220112.M	17	1.000	27 Jul 2023	02:30 pm
23) 07270046.D HO ICB	DX_220112.M	28	1.000	27 Jul 2023	02:41 pm
24) 07270048.D HO 20	DX_220112.M	21	1.000	27 Jul 2023	02:52 pm
25) 07270050.D CO	DX_220112.M	150	1.000	27 Jul 2023	03:03 pm
26) 07270052.D CO	DX_220112.M	150	1.000	27 Jul 2023	03:14 pm
27) 07270054.D DX ICB	DX_220112.M	18	1.000	27 Jul 2023	03:25 pm
28) 07270056.D DX ICV	DX_220112.M	19	1.000	27 Jul 2023	03:42 pm
29) 07270058.D CO	DX_220112.M	150	1.000	27 Jul 2023	03:53 pm
30) 07270060.D CO	DX_220112.M	150	1.000	27 Jul 2023	04:04 pm
31) 07270062.D CO	DX_220112.M	150	1.000	27 Jul 2023	04:15 pm
32) 07270064.D CO	DX_220112.M	150	1.000	27 Jul 2023	04:26 pm
33) 07270066.D OIL-CCV	DX_220112.M	2	1.000	27 Jul 2023	04:37 pm
34) 07270068.D DX-CCV	DX_220112.M	1	1.000	27 Jul 2023	04:48 pm
35) 07270070.D CO	DX_220112.M	150	1.000	27 Jul 2023	04:59 pm
36) 07270072.D MB-40979	DX_220112.M	61	1.000	27 Jul 2023	05:10 pm
37) 07270074.D LCS-40979	DX_220112.M	62	1.000	27 Jul 2023	05:21 pm
38) 07270076.D LCSD-40979	DX_220112.M	63	1.000	27 Jul 2023	05:32 pm
39) 07270078.D Dx MDL	DX_220112.M	73	1.000	27 Jul 2023	05:43 pm
40) 07270080.D RRO MDL	DX_220112.M	74	1.000	27 Jul 2023	05:54 pm
41) 07270082.D CO	DX_220112.M	150	1.000	27 Jul 2023	06:05 pm
42) 07270084.D CO	DX_220112.M	150	1.000	27 Jul 2023	06:16 pm
43) 07270086.D OIL-CCV	DX_220112.M	2	1.000	27 Jul 2023	06:27 pm
44) 07270088.D DX-CCV	DX_220112.M	1	1.000	27 Jul 2023	06:38 pm
45) 07270090.D	DX_220112.M				

CO			150	1.000	27 Jul 2023	06:49	pm
46)	07270092.D MB-41004	DX_220112.M	111	1.000	27 Jul 2023	07:00	pm
47)	07270094.D LCS-41004	DX_220112.M	112	1.000	27 Jul 2023	07:11	pm
48)	07270096.D 2307262-001B	DX_220112.M	113	1.000	27 Jul 2023	07:22	pm
49)	07270098.D 2307262-002B	DX_220112.M	114	1.000	27 Jul 2023	07:33	pm
50)	07270100.D 2307262-003B	DX_220112.M	115	1.000	27 Jul 2023	07:44	pm
51)	07270102.D 2307262-004B	DX_220112.M	116	1.000	27 Jul 2023	07:55	pm
52)	07270104.D 2307262-005B	DX_220112.M	117	1.000	27 Jul 2023	08:06	pm
53)	07270106.D 2307262-006B	DX_220112.M	118	1.000	27 Jul 2023	08:17	pm
54)	07270108.D 2307262-007B	DX_220112.M	119	1.000	27 Jul 2023	08:28	pm
55)	07270110.D 2307262-007BDUP	DX_220112.M	120	1.000	27 Jul 2023	08:39	pm
56)	07270112.D CO	DX_220112.M	150	1.000	27 Jul 2023	08:50	pm
57)	07270114.D OIL-CCV	DX_220112.M	2	1.000	27 Jul 2023	09:01	pm
58)	07270116.D DX-CCV	DX_220112.M	1	1.000	27 Jul 2023	09:12	pm
59)	07270118.D CO	DX_220112.M	150	1.000	27 Jul 2023	09:23	pm
60)	07270120.D 2307262-008B	DX_220112.M	121	1.000	27 Jul 2023	09:34	pm
61)	07270122.D 2307262-009B	DX_220112.M	122	1.000	27 Jul 2023	09:45	pm
62)	07270124.D 2307262-010B	DX_220112.M	123	1.000	27 Jul 2023	09:56	pm
63)	07270126.D 2307284-001B	DX_220112.M	124	1.000	27 Jul 2023	10:07	pm
64)	07270128.D 2307284-002B	DX_220112.M	125	1.000	27 Jul 2023	10:18	pm
65)	07270130.D 2307284-003B	DX_220112.M	126	1.000	27 Jul 2023	10:29	pm
66)	07270132.D 2307284-004B	DX_220112.M	127	1.000	27 Jul 2023	10:40	pm
67)	07270134.D 2307285-001A	DX_220112.M	128	1.000	27 Jul 2023	10:51	pm
68)	07270136.D CO	DX_220112.M	150	1.000	27 Jul 2023	11:02	pm

69) 07270138.D OIL-CCV	DX_220112.M	2	1.000	27 Jul 2023	11:12 pm
70) 07270140.D DX-CCV	DX_220112.M	1	1.000	27 Jul 2023	11:23 pm
71) 07270142.D CO	DX_220112.M	150	1.000	27 Jul 2023	11:34 pm
72) 07270144.D MB-40989	DX_220112.M	131	1.000	27 Jul 2023	11:45 pm
73) 07270146.D LCS-40989	DX_220112.M	132	1.000	27 Jul 2023	11:56 pm
74) 07270148.D 2307278-002A	DX_220112.M	136	1.000	28 Jul 2023	12:07 am
75) 07270150.D 2307278-002ADUP	DX_220112.M	137	1.000	28 Jul 2023	12:18 am
76) 07270152.D 2307278-003A	DX_220112.M	138	1.000	28 Jul 2023	12:29 am
77) 07270154.D 2307278-004A	DX_220112.M	139	1.000	28 Jul 2023	12:40 am
78) 07270156.D 2307278-005A	DX_220112.M	140	1.000	28 Jul 2023	12:51 am
79) 07270158.D 2307278-006A	DX_220112.M	141	1.000	28 Jul 2023	01:02 am
80) 07270160.D 2307278-009A	DX_220112.M	144	1.000	28 Jul 2023	01:13 am
81) 07270162.D 2307278-010A	DX_220112.M	145	1.000	28 Jul 2023	01:24 am
82) 07270164.D CO	DX_220112.M	150	1.000	28 Jul 2023	01:35 am
83) 07270166.D OIL-CCV	DX_220112.M	2	1.000	28 Jul 2023	01:46 am
84) 07270168.D DX-CCV	DX_220112.M	1	1.000	28 Jul 2023	01:57 am
85) 07270170.D CO	DX_220112.M	150	1.000	28 Jul 2023	02:08 am
86) 07270172.D 2307278-012A	DX_220112.M	147	1.000	28 Jul 2023	02:18 am
87) 07270174.D 2307278-001A	DX_220112.M	133	1.000	28 Jul 2023	02:29 am
88) 07270176.D CO	DX_220112.M	150	1.000	28 Jul 2023	02:40 am
89) 07270178.D 2307278-001AMS	DX_220112.M	134	1.000	28 Jul 2023	02:51 am
90) 07270180.D CO	DX_220112.M	150	1.000	28 Jul 2023	03:02 am
91) 07270182.D 2307278-001AMSD	DX_220112.M	135	1.000	28 Jul 2023	03:13 am

92) 07270184.D CO	DX_220112.M	150	1.000	28 Jul 2023	03:24 am
93) 07270186.D 2307278-011A	DX_220112.M	146	1.000	28 Jul 2023	03:35 am
94) 07270188.D CO	DX_220112.M	150	1.000	28 Jul 2023	03:46 am
95) 07270190.D 2307278-008A	DX_220112.M	143	1.000	28 Jul 2023	03:57 am
96) 07270192.D CO	DX_220112.M	150	1.000	28 Jul 2023	04:08 am
97) 07270194.D 2307278-007A	DX_220112.M	142	1.000	28 Jul 2023	04:19 am
98) 07270196.D CO	DX_220112.M	150	1.000	28 Jul 2023	04:30 am
99) 07270198.D CO	DX_220112.M	150	1.000	28 Jul 2023	04:41 am
100) 07270200.D OIL-CCV	DX_220112.M	2	1.000	28 Jul 2023	04:52 am
101) 07270202.D DX-CCV	DX_220112.M	1	1.000	28 Jul 2023	05:03 am
102) 07270204.D CO	DX_220112.M	150	1.000	28 Jul 2023	05:14 am

Data Directory: D:\GC-24\Data\2023\230912FRONT\

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) 09120002.D CO	DX_220112.M	150	1.000	12 Sep 2023 08:18 am
2) 09120004.D OIL-CCV	DX_220112.M	2	1.000	12 Sep 2023 08:29 am
3) 09120006.D DX-CCV	DX_220112.M	1	1.000	12 Sep 2023 08:39 am
4) 09120008.D CO	DX_220112.M	150	1.000	12 Sep 2023 08:50 am
5) 09120010.D DX Surrogate Test	DX_220112.M	10	1.000	12 Sep 2023 09:50 am
6) 09120012.D CO	DX_220112.M	150	1.000	12 Sep 2023 10:01 am
7) 09120014.D MB-41446	DX_220112.M	41	1.000	12 Sep 2023 11:31 am
8) 09120016.D LCS-41446	DX_220112.M	42	1.000	12 Sep 2023 11:42 am
9) 09120018.D LCSD-41446	DX_220112.M	43	1.000	12 Sep 2023 11:54 am
10) 09120020.D 2309074-001B	DX_220112.M	44	1.000	12 Sep 2023 12:05 pm
11) 09120022.D 2309075-001B	DX_220112.M	45	1.000	12 Sep 2023 12:16 pm
12) 09120024.D CO	DX_220112.M	150	1.000	12 Sep 2023 12:27 pm
13) 09120026.D OIL-CCV	DX_220112.M	2	1.000	12 Sep 2023 12:38 pm
14) 09120028.D DX-CCV	DX_220112.M	1	1.000	12 Sep 2023 12:49 pm
15) 09120030.D CO	DX_220112.M	150	1.000	12 Sep 2023 01:00 pm
16) 09120032.D MB-41448	DX_220112.M	61	1.000	12 Sep 2023 01:11 pm
17) 09120034.D LCS-41448	DX_220112.M	62	1.000	12 Sep 2023 01:22 pm
18) 09120036.D 2309051-001A	DX_220112.M	63	1.000	12 Sep 2023 01:33 pm
19) 09120038.D 2309051-001AMS	DX_220112.M	64	1.000	12 Sep 2023 01:44 pm
20) 09120040.D 2309051-001AMSD	DX_220112.M	65	1.000	12 Sep 2023 01:55 pm
21) 09120042.D 2309051-017A	DX_220112.M	66	1.000	12 Sep 2023 02:06 pm

22) 09120044.D 2309051-018A	DX_220112.M	67	1.000	12 Sep 2023	02:17 pm
23) 09120046.D 2309051-019A	DX_220112.M	68	1.000	12 Sep 2023	02:28 pm
24) 09120048.D 2309055-001A	DX_220112.M	71	1.000	12 Sep 2023	02:39 pm
25) 09120050.D 2309055-001A RR	DX_220112.M	71	1.000	12 Sep 2023	02:50 pm
26) 09120052.D 2309080-002A	DX_220112.M	77	1.000	12 Sep 2023	03:01 pm
27) 09120054.D 2309080-003A	DX_220112.M	78	1.000	12 Sep 2023	03:12 pm
28) 09120056.D CO	DX_220112.M	150	1.000	12 Sep 2023	03:23 pm
29) 09120058.D OIL-CCV	DX_220112.M	2	1.000	12 Sep 2023	03:34 pm
30) 09120060.D DX-CCV	DX_220112.M	1	1.000	12 Sep 2023	03:44 pm
31) 09120062.D CO	DX_220112.M	150	1.000	12 Sep 2023	03:56 pm
32) 09120064.D 2309080-004A	DX_220112.M	79	1.000	12 Sep 2023	04:06 pm
33) 09120066.D 2309080-005A	DX_220112.M	80	1.000	12 Sep 2023	04:17 pm
34) 09120068.D 2309080-006A	DX_220112.M	81	1.000	12 Sep 2023	04:28 pm
35) 09120070.D 2309080-007A	DX_220112.M	82	1.000	12 Sep 2023	04:39 pm
36) 09120072.D 2309051-020A	DX_220112.M	69	1.000	12 Sep 2023	04:50 pm
37) 09120074.D CO	DX_220112.M	150	1.000	12 Sep 2023	05:02 pm
38) 09120076.D 2309051-020ADUP	DX_220112.M	70	1.000	12 Sep 2023	05:13 pm
39) 09120078.D CO	DX_220112.M	150	1.000	12 Sep 2023	05:24 pm
40) 09120080.D 2309066-001A	DX_220112.M	72	1.000	12 Sep 2023	05:35 pm
41) 09120082.D CO	DX_220112.M	150	1.000	12 Sep 2023	05:46 pm
42) 09120084.D 2309066-003A	DX_220112.M	74	1.000	12 Sep 2023	05:57 pm
43) 09120086.D CO	DX_220112.M	150	1.000	12 Sep 2023	06:08 pm
44) 09120088.D 2309066-004A	DX_220112.M	75	1.000	12 Sep 2023	06:18 pm
45) 09120090.D	DX_220112.M				

CO			150	1.000	12 Sep 2023	06:29	pm
46)	09120092.D	DX_220112.M					
2309080-001A			76	1.000	12 Sep 2023	06:40	pm
47)	09120094.D	DX_220112.M					
CO			150	1.000	12 Sep 2023	06:51	pm
48)	09120096.D	DX_220112.M					
2309107-001A			83	1.000	12 Sep 2023	07:02	pm
49)	09120098.D	DX_220112.M					
CO			150	1.000	12 Sep 2023	07:13	pm
50)	09120100.D	DX_220112.M					
CO			150	1.000	12 Sep 2023	07:24	pm
51)	09120102.D	DX_220112.M					
2309107-002A			84	1.000	12 Sep 2023	07:35	pm
52)	09120104.D	DX_220112.M					
CO			150	1.000	12 Sep 2023	07:46	pm
53)	09120106.D	DX_220112.M					
CO			150	1.000	12 Sep 2023	07:57	pm
54)	09120108.D	DX_220112.M					
2309066-002A			73	1.000	12 Sep 2023	08:08	pm
55)	09120110.D	DX_220112.M					
CO			150	1.000	12 Sep 2023	08:19	pm
56)	09120112.D	DX_220112.M					
CO			150	1.000	12 Sep 2023	08:30	pm
57)	09120114.D	DX_220112.M					
OIL-CCV			2	1.000	12 Sep 2023	08:41	pm
58)	09120116.D	DX_220112.M					
DX-CCV			1	1.000	12 Sep 2023	08:51	pm
59)	09120118.D	DX_220112.M					
CO			150	1.000	12 Sep 2023	09:02	pm
60)	09120120.D	DX_220112.M					
MB-41455			91	1.000	12 Sep 2023	09:13	pm
61)	09120122.D	DX_220112.M					
LCS-41455			92	1.000	12 Sep 2023	09:24	pm
62)	09120124.D	DX_220112.M					
2309081-001A			93	1.000	12 Sep 2023	09:35	pm
63)	09120126.D	DX_220112.M					
2309081-001AMS			94	1.000	12 Sep 2023	09:46	pm
64)	09120128.D	DX_220112.M					
2309081-001AMSD			95	1.000	12 Sep 2023	09:57	pm
65)	09120130.D	DX_220112.M					
2309081-002A			96	1.000	12 Sep 2023	10:08	pm
66)	09120132.D	DX_220112.M					
2309081-002ADUP			97	1.000	12 Sep 2023	10:19	pm
67)	09120134.D	DX_220112.M					
2309081-004A			98	1.000	12 Sep 2023	10:30	pm
68)	09120136.D	DX_220112.M					
2309081-006A			99	1.000	12 Sep 2023	10:40	pm

69)	09120138.D	DX_220112.M	100	1.000	12 Sep 2023	10:51 pm
	2309081-007A					
70)	09120140.D	DX_220112.M	101	1.000	12 Sep 2023	11:02 pm
	2309081-010A					
71)	09120142.D	DX_220112.M	102	1.000	12 Sep 2023	11:13 pm
	2309081-011A					
72)	09120144.D	DX_220112.M	150	1.000	12 Sep 2023	11:24 pm
	CO					
73)	09120146.D	DX_220112.M	2	1.000	12 Sep 2023	11:35 pm
	OIL-CCV					
74)	09120148.D	DX_220112.M	1	1.000	12 Sep 2023	11:46 pm
	DX-CCV					
75)	09120150.D	DX_220112.M	150	1.000	12 Sep 2023	11:56 pm
	CO					
76)	09120152.D	DX_220112.M	107	1.000	13 Sep 2023	12:07 am
	2309099-005A					
77)	09120154.D	DX_220112.M	150	1.000	13 Sep 2023	12:18 am
	CO					
78)	09120156.D	DX_220112.M	106	1.000	13 Sep 2023	12:29 am
	2309099-004A					
79)	09120158.D	DX_220112.M	150	1.000	13 Sep 2023	12:40 am
	CO					
80)	09120160.D	DX_220112.M	105	1.000	13 Sep 2023	12:51 am
	2309099-003A					
81)	09120162.D	DX_220112.M	150	1.000	13 Sep 2023	01:02 am
	CO					
82)	09120164.D	DX_220112.M	150	1.000	13 Sep 2023	01:13 am
	CO					
83)	09120166.D	DX_220112.M	104	1.000	13 Sep 2023	01:24 am
	2309099-002A					
84)	09120168.D	DX_220112.M	150	1.000	13 Sep 2023	01:34 am
	CO					
85)	09120170.D	DX_220112.M	150	1.000	13 Sep 2023	01:45 am
	CO					
86)	09120172.D	DX_220112.M	103	1.000	13 Sep 2023	01:56 am
	2309099-001A					
87)	09120174.D	DX_220112.M	150	1.000	13 Sep 2023	02:07 am
	CO					
88)	09120176.D	DX_220112.M	150	1.000	13 Sep 2023	02:18 am
	CO					
89)	09120178.D	DX_220112.M	150	1.000	13 Sep 2023	02:29 am
	CO					
90)	09120180.D	DX_220112.M	2	1.000	13 Sep 2023	02:40 am
	OIL-CCV					
91)	09120182.D	DX_220112.M	1	1.000	13 Sep 2023	02:51 am
	DX-CCV					

Data Directory: D:\GC-24\Data\2023\230919FRONT\

SampleName	MiscInfo	Vial	Multiplier	Injection Time	
1) 09190043.D No data found	DX_220112.M		0.000	N/A	
2) 09190044.D No data found	DX_220112.M		0.000	N/A	
3) 09190002.D CO	DX_220112.M	150	1.000	19 Sep 2023	08:42 am
4) 09190004.D OIL-CCV	DX_220112.M	2	1.000	19 Sep 2023	08:53 am
5) 09190006.D DX-CCV	DX_220112.M	1	1.000	19 Sep 2023	09:04 am
6) 09190008.D CO	DX_220112.M	150	1.000	19 Sep 2023	09:15 am
7) 09190010.D MB-41511	DX_220112.M	61	1.000	19 Sep 2023	12:01 pm
8) 09190012.D LCS-41511	DX_220112.M	62	1.000	19 Sep 2023	12:12 pm
9) 09190014.D 2309081-012A	DX_220112.M	63	1.000	19 Sep 2023	12:22 pm
10) 09190016.D 2309195-002A	DX_220112.M	65	1.000	19 Sep 2023	12:33 pm
11) 09190018.D 2309195-003A	DX_220112.M	66	1.000	19 Sep 2023	12:44 pm
12) 09190020.D 2309195-004AMSD	DX_220112.M	69	1.000	19 Sep 2023	12:55 pm
13) 09190022.D CO	DX_220112.M	150	1.000	19 Sep 2023	01:06 pm
14) 09190024.D 2309195-004AMS	DX_220112.M	68	1.000	19 Sep 2023	01:17 pm
15) 09190026.D CO	DX_220112.M	150	1.000	19 Sep 2023	01:28 pm
16) 09190028.D 2309195-004A	DX_220112.M	67	1.000	19 Sep 2023	01:39 pm
17) 09190030.D CO	DX_220112.M	150	1.000	19 Sep 2023	01:50 pm
18) 09190032.D 2309195-002A RR	DX_220112.M	65	1.000	19 Sep 2023	02:01 pm
19) 09190034.D 2309195-001A	DX_220112.M	64	1.000	19 Sep 2023	02:12 pm
20) 09190036.D CO	DX_220112.M	150	1.000	19 Sep 2023	02:23 pm
21) 09190038.D CO	DX_220112.M	150	1.000	19 Sep 2023	02:34 pm

22) 09190040.D	DX_220112.M	2	1.000	19 Sep 2023	02:45 pm

23) 09190042.D	DX_220112.M	1	1.000	19 Sep 2023	02:56 pm



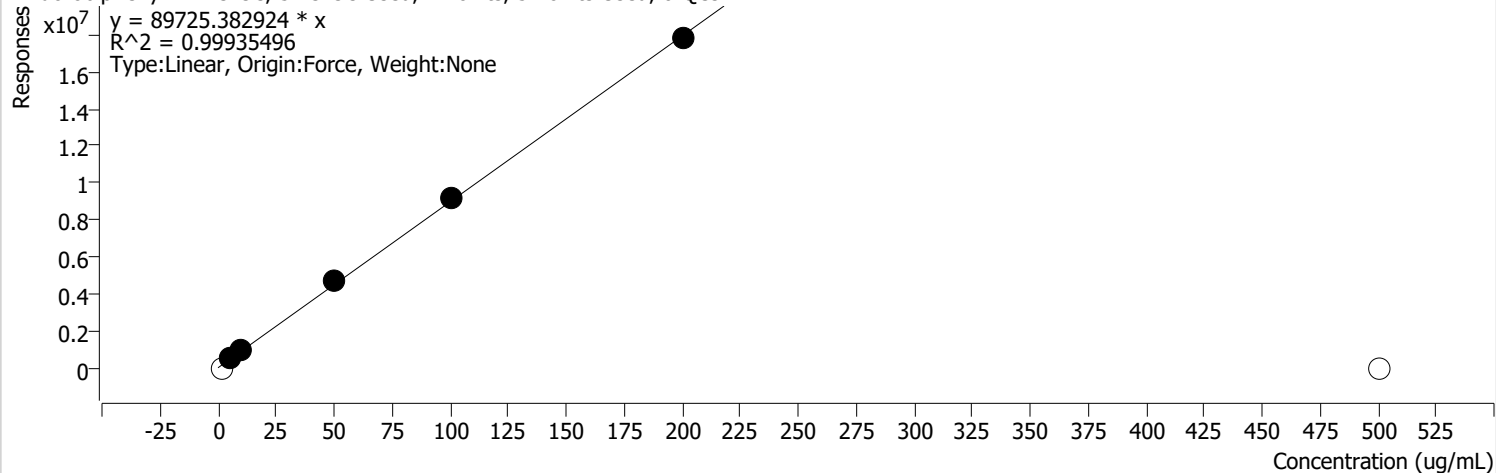
Calibration

Calibration Report

Batch Path	D:\GC-24\Data\2023\230727FRONT\QuantResults\Dx-Oil Cal.batch.bin		
Analysis Time	7/28/2023 9:47:30 AM	Analyst Name	FA\GC24
Report Time	7/28/2023 9:50:54 AM	Reporter Name	GC24
Last Calib Update	7/28/2023 9:45:03 AM	Batch State	Processed

2-Fluorobiphenyl

2-Fluorobiphenyl - 7 Levels, 5 Levels Used, 7 Points, 5 Points Used, 0 QCs



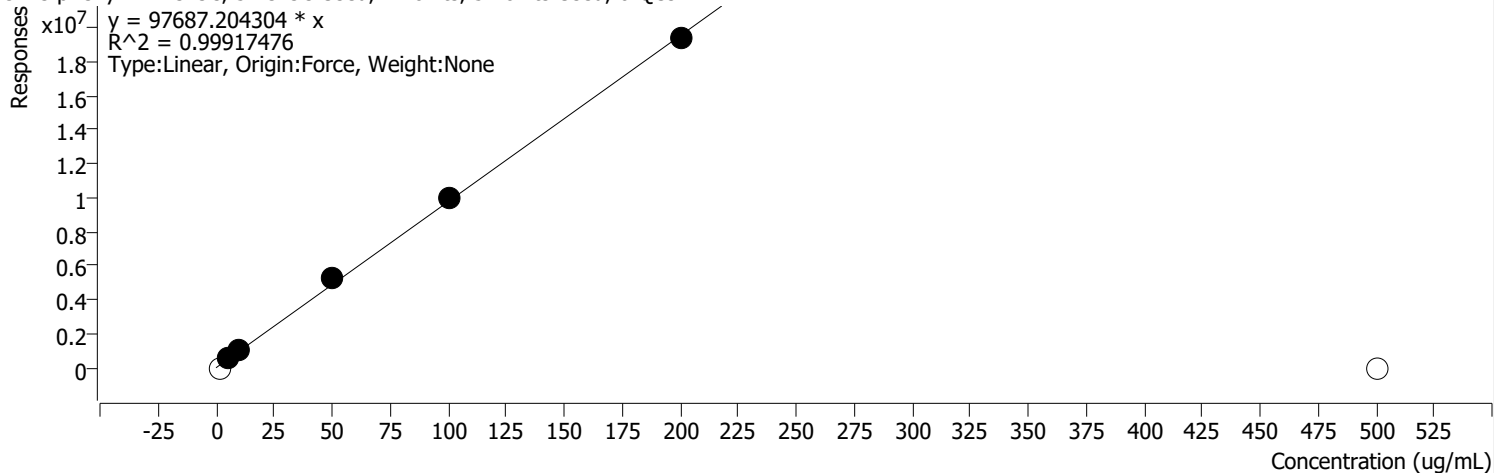
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-24\Data\2023\230727FRONT\07270048.D	Calibration	1		0	2.0000	0.0000
D:\GC-24\Data\2023\230727FRONT\07270006.D	Calibration	2	x	499781	5.0000	99956.2936
D:\GC-24\Data\2023\230727FRONT\07270008.D	Calibration	3	x	1001008	10.0000	100100.7802
D:\GC-24\Data\2023\230727FRONT\07270010.D	Calibration	4	x	4748564	50.0000	94971.2777
D:\GC-24\Data\2023\230727FRONT\07270012.D	Calibration	5	x	9133555	100.0000	91335.5456
D:\GC-24\Data\2023\230727FRONT\07270014.D	Calibration	6	x	17792528	200.0000	88962.6410
D:\GC-24\Data\2023\230727FRONT\07270016.D	Calibration	7		0	500.0000	0.0000

Calibration Report

Batch Path D:\GC-24\Data\2023\230727FRONT\QuantResults\Dx-Oil Cal.batch.bin
Analysis Time 7/28/2023 9:47:30 AM **Analyst Name** FA\GC24
Report Time 7/28/2023 9:50:56 AM **Reporter Name** GC24
Last Calib Update 7/28/2023 9:45:03 AM **Batch State** Processed

O-Terphenyl

O-Terphenyl - 7 Levels, 5 Levels Used, 7 Points, 5 Points Used, 0 QCs



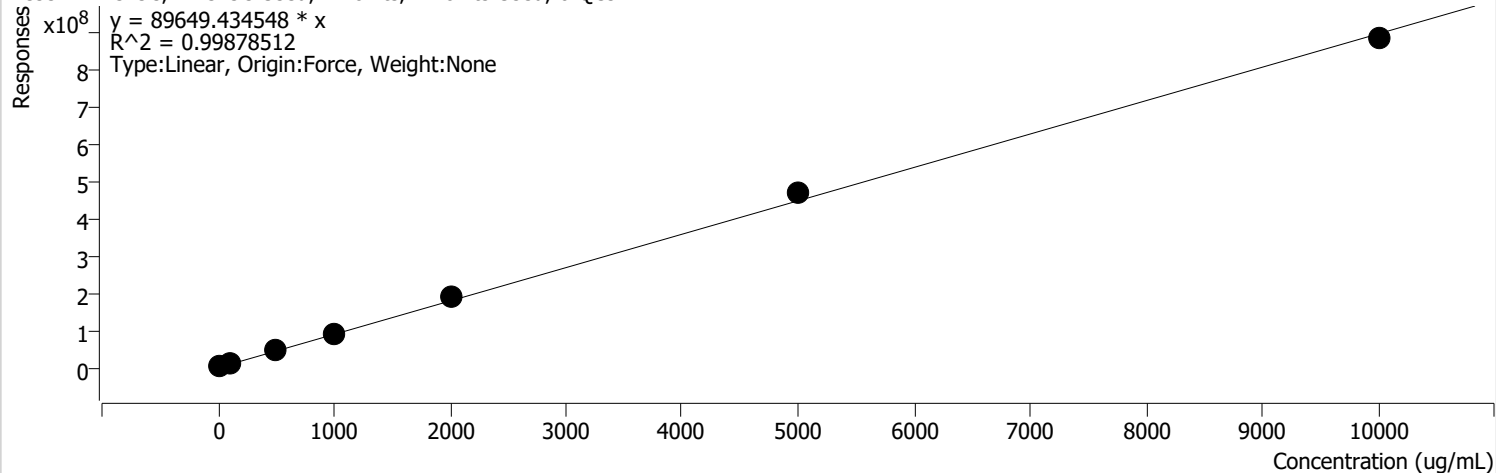
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-24\Data\2023\230727FRONT\07270048.D	Calibration	1		0	2.0000	0.0000
D:\GC-24\Data\2023\230727FRONT\07270006.D	Calibration	2	x	559603	5.0000	111920.5680
D:\GC-24\Data\2023\230727FRONT\07270008.D	Calibration	3	x	1118016	10.0000	111801.6431
D:\GC-24\Data\2023\230727FRONT\07270010.D	Calibration	4	x	5218661	50.0000	104373.2229
D:\GC-24\Data\2023\230727FRONT\07270012.D	Calibration	5	x	9941086	100.0000	99410.8621
D:\GC-24\Data\2023\230727FRONT\07270014.D	Calibration	6	x	19358846	200.0000	96794.2318
D:\GC-24\Data\2023\230727FRONT\07270016.D	Calibration	7		0	500.0000	0.0000

Calibration Report

Batch Path	D:\GC-24\Data\2023\230727FRONT\QuantResults\Dx-Oil Cal.batch.bin		
Analysis Time	7/28/2023 9:47:30 AM	Analyst Name	FA\GC24
Report Time	7/28/2023 9:50:56 AM	Reporter Name	GC24
Last Calib Update	7/28/2023 9:45:03 AM	Batch State	Processed

Diesel

Diesel - 7 Levels, 7 Levels Used, 7 Points, 7 Points Used, 0 QCs



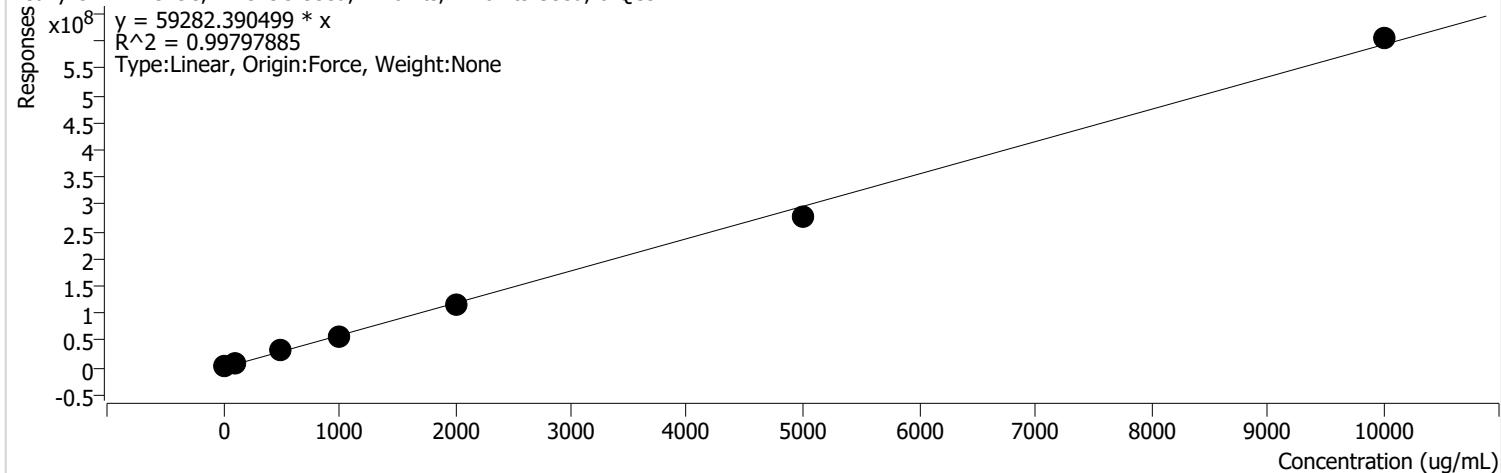
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-24\Data\2023\230727FRONT\07270032.D	Calibration	1	x	1532157	20.0000	76607.8377
D:\GC-24\Data\2023\230727FRONT\07270034.D	Calibration	2	x	8909518	100.0000	89095.1823
D:\GC-24\Data\2023\230727FRONT\07270036.D	Calibration	3	x	45292573	500.0000	90585.1454
D:\GC-24\Data\2023\230727FRONT\07270038.D	Calibration	4	x	91275534	1000.0000	91275.5337
D:\GC-24\Data\2023\230727FRONT\07270040.D	Calibration	5	x	188230632	2000.0000	94115.3159
D:\GC-24\Data\2023\230727FRONT\07270042.D	Calibration	6	x	470981718	5000.0000	94196.3435
D:\GC-24\Data\2023\230727FRONT\07270044.D	Calibration	7	x	883155794	10000.0000	88315.5794

Calibration Report

Batch Path D:\GC-24\Data\2023\230727FRONT\QuantResults\Dx-Oil Cal.batch.bin
Analysis Time 7/28/2023 9:47:30 AM **Analyst Name** FA\GC24
Report Time 7/28/2023 9:50:56 AM **Reporter Name** GC24
Last Calib Update 7/28/2023 9:45:03 AM **Batch State** Processed

Heavy Oil

Heavy Oil - 7 Levels, 7 Levels Used, 7 Points, 7 Points Used, 0 QCs



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-24\Data\2023\230727FRONT\07270048.D	Calibration	1	x	1139369	20.0000	56968.4627
D:\GC-24\Data\2023\230727FRONT\07270006.D	Calibration	2	x	6651487	100.0000	66514.8704
D:\GC-24\Data\2023\230727FRONT\07270008.D	Calibration	3	x	32500169	500.0000	65000.3388
D:\GC-24\Data\2023\230727FRONT\07270010.D	Calibration	4	x	56908464	1000.0000	56908.4636
D:\GC-24\Data\2023\230727FRONT\07270012.D	Calibration	5	x	117299033	2000.0000	58649.5166
D:\GC-24\Data\2023\230727FRONT\07270014.D	Calibration	6	x	275285166	5000.0000	55057.0333
D:\GC-24\Data\2023\230727FRONT\07270016.D	Calibration	7	x	603727752	10000.0000	60372.7752

Heavy Oil Calibration

Date: 7/27/23

Oil CAL STD: 28320

Concentration: 50,000 ug/L

Analyst: AHP

Oil ICV (SS): 27047

Concentration: 50,000 ug/L

MeCl2: 7583

SURROGATE: 28541

Concentration: 1,000 ug/L

	Calibration Point (ppm)	Surr Cal Point (ppm)	MeCl2 (uL)	STD Conc (ppm)	STD Amt (uL)	Surr Amt (uL)	Final Vol. (mL)	Comments
21	20	2	980	1000*	20*	-	1	*Note: the 1000 point w/ HO and surr will be used to make points 100 and 20
22	100	5	900	1000*	100*	-	1	
23	500	10	980	50,000	10	10	1	
24	1000*	50	930	50,000	20	50	1	
25	2000	100	860	50,000	40	100	1	
26	5000	200	700	50,000	100	200	1	
27	10000	500 -	800 ⁵⁰⁰ 800	50,000	200	500	1	
28	ICB	-	990 ^{0.712}	-	-	10	1	
29	ICV (500)	10	980	50,000 SS	10 ^{SS}	10	1	

Signature and Date: Alex Posters 7/27/23

Diesel Calibration

Date: 7/27/23

DX CAL STD: 27149 Concentration: 50,000 ug/L

Analyst: AHP

DX ICV (SS): 28397 Concentration: 50,000 ug/L

MeCl2: 7583

Surr: 28541 Concentration 1000 mg/L

Calibration Point (ppm)	MeCl2 (uL)	STD Conc (ppm)	STD Amt (uL)	Surr (uL)	Final Vol. (mL)	Comments
20	980	1000*	20	-	1	
100	900	1000*	100	-	1	
500	990	50,000	10	-	1	
1000*	980	50,000	20	-	1	
2000	960	50,000	40	-	1	
5000	900	50,000	100	-	1	*Note: the 1000 point will be used to make points 100 and 20
10000	800	50,000	200	-	1	
ICB	990	-	-	10	1	
ICV (500)	980	50,000 SS	10 ^{SS}	10	1	

Signature and Date: Alex Potter 7/27/23

DATA SET for Review - Deliverable Requirements

Gasoline by NWTPH-Gx

Fremont Analytical Work Order No. 2309081

GeoEngineers

Project Name: South Jackson Street

Project Number: 24504-001-01

This data set contains the following:

- Analytical Sequence Summary
- Calibration Information
- Tune Information
- Internal Standards Report

Data Directory: D:\GC-19\Data\090523\

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) 090501.D	8260.M			
R	O-VOC-W		1.000	05 Sep 2023 08:41

2) 090502.D	8260.M			
voc ccv	O-VOC-GX-W	1	1.000	05 Sep 2023 09:11

3) 090503.D	8260.M			
1122 breakdown test	O-VOC-GX-W	2	1.000	05 Sep 2023 09:41

4) 090504.D	8260.M			
R	O-VOC-GX-W		1.000	05 Sep 2023 10:10

5) 090505.D	8260.M			
R	O-VOC-GX-S		1.000	05 Sep 2023 10:39

6) 090506.D	8260.M			
R	O-VOC-W		1.000	05 Sep 2023 11:08

7) 090507.D	8260.M			
VOC W CAL 1	O-VOC-W	3	1.000	05 Sep 2023 11:38

8) 090508.D	8260.M			
VOC W CAL 2	O-VOC-W	4	1.000	05 Sep 2023 12:08

9) 090509.D	8260.M			
VOC W CAL 3	O-VOC-W	5	1.000	05 Sep 2023 12:39

10) 090510.D	8260.M			
VOC W CAL 4	O-VOC-W	6	1.000	05 Sep 2023 13:09

11) 090511.D	8260.M			
VOC W CAL 5	O-VOC-W	7	1.000	05 Sep 2023 13:39

12) 090512.D	8260.M			
VOC W CAL 6	O-VOC-W	8	1.000	05 Sep 2023 14:09

13) 090513.D	8260.M			
VOC W CAL 7	O-VOC-W	9	1.000	05 Sep 2023 14:39

14) 090514.D	8260.M			
VOC W CAL 8	O-VOC-W	10	1.000	05 Sep 2023 15:09

15) 090515.D	8260.M			
VOC W CAL 9	O-VOC-W	11	1.000	05 Sep 2023 15:40

16) 090516.D	8260.M			
R	O-VOC-W		1.000	05 Sep 2023 16:09

17) 090517.D	8260.M			
R	O-VOC-W		1.000	05 Sep 2023 16:38

18) 090518.D	8260.M			
VOC W ICB	O-VOC-W	12	1.000	05 Sep 2023 17:08

19) 090519.D	8260.M			
VOC W ICV	O-VOC-W	13	1.000	05 Sep 2023 17:38

20) 090520.D	8260.M			
R	O-VOC-W		1.000	05 Sep 2023 18:07

21) 090521.D	8260.M			
MB W	O-VOC-W	29	1.000	05 Sep 2023 18:37

22)	090522.D		8260.M						
VOC W MDL	0.1	O-VOC-W		23	1.000	05 Sep 2023	19:07		

23)	090523.D		8260.M						
VOC W MDL	0.1	O-VOC-W		24	1.000	05 Sep 2023	19:37		

24)	090524.D		8260.M						
VOC W MDL	0.1	O-VOC-W		25	1.000	05 Sep 2023	20:08		

25)	090525.D		8260.M						
VOC W MDL	0.1	O-VOC-W		26	1.000	05 Sep 2023	20:38		

26)	090526.D		8260.M						
VOC W MDL	0.1	O-VOC-W		27	1.000	05 Sep 2023	21:08		

27)	090527.D		8260.M						
VOC W CCV	A	O-VOC-W		28	1.000	05 Sep 2023	21:38		

28)	090528.D		8260.M						
R		O-VOC-W			1.000	05 Sep 2023	22:07		

29)	090529.D		8260.M						
R		O-VOC-W			1.000	05 Sep 2023	22:36		

30)	090530.D		8260.M						
R		O-VOC-W			1.000	05 Sep 2023	23:05		

31)	090531.D		8260.M						
GX CAL	1	O-VOC-GX-W		14	1.000	05 Sep 2023	23:35		

32)	090532.D		8260.M						
GX CAL	2	O-VOC-GX-W		15	1.000	06 Sep 2023	00:05		

33)	090533.D		8260.M						
GX CAL	3	O-VOC-GX-W		16	1.000	06 Sep 2023	00:36		

34)	090534.D		8260.M						
GX CAL	4	O-VOC-GX-W		17	1.000	06 Sep 2023	01:06		

35)	090535.D		8260.M						
GX CAL	5	O-VOC-GX-W		18	1.000	06 Sep 2023	01:36		

36)	090536.D		8260.M						
GX CAL	6	O-VOC-GX-W		19	1.000	06 Sep 2023	02:06		

37)	090537.D		8260.M						
GX CAL	7	O-VOC-GX-W		20	1.000	06 Sep 2023	02:36		

38)	090538.D		8260.M						
R		O-VOC-GX-W			1.000	06 Sep 2023	03:05		

39)	090539.D		8260.M						
R		O-VOC-GX-W			1.000	06 Sep 2023	03:34		

40)	090540.D		8260.M						
GX ICB		O-VOC-GX-W		21	1.000	06 Sep 2023	04:04		

41)	090541.D		8260.M						
GX ICV		O-VOC-GX-W		22	1.000	06 Sep 2023	04:35		

42)	090542.D		8260.M						
R		O-VOC-GX-W			1.000	06 Sep 2023	05:03		

Data Directory: D:\GC-19\Data\090723\

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) 090701.D R	8260.M O-VOC-W		1.000	07 Sep 2023 08:38
2) 090702.D VOC W CCV C	8260.M O-VOC-W	28	1.000	07 Sep 2023 09:08
3) 090703.D GX CCV C	8260.M O-VOC-GX-W	29	1.000	07 Sep 2023 09:38
4) 090704.D R	8260.M O-VOC-W		1.000	07 Sep 2023 10:07
5) 090705.D 2309033-001A	8260.M O-VOC-W	30	1.000	07 Sep 2023 10:37
6) 090706.D 2309034-001A	8260.M O-VOC-W	31	1.000	07 Sep 2023 11:08
7) 090707.D 2309034-002A	8260.M O-VOC-W	32	1.000	07 Sep 2023 11:38
8) 090708.D 2309033-001AMS VOC	8260.M O-VOC-W	33	1.000	07 Sep 2023 12:08
9) 090709.D 2309034-001AMS GX	8260.M O-VOC-GX-W	34	1.000	07 Sep 2023 12:38
10) 090710.D R	8260.M O-VOC-W		1.000	07 Sep 2023 13:07
11) 090711.D R	8260.M O-VOC-W		1.000	07 Sep 2023 13:36
12) 090712.D 2309030-001A	8260.M O-VOC-W	35	1.000	07 Sep 2023 14:06
13) 090713.D R	8260.M O-VOC-W		1.000	07 Sep 2023 14:35
14) 090714.D R	8260.M O-VOC-W		1.000	07 Sep 2023 15:04
15) 090715.D 23089042-001A 100X	8260.M O-VOC-W	38	1.000	07 Sep 2023 15:34
16) 090716.D 23089042-002A 10X	8260.M O-VOC-W	39	1.000	07 Sep 2023 16:04
17) 090717.D 23089042-002A	8260.M O-VOC-W	40	1.000	07 Sep 2023 16:35
18) 090718.D R	8260.M O-VOC-W		1.000	07 Sep 2023 17:04
19) 090722.D 2309034-002A RR	8260.M O-VOC-W	42	1.000	07 Sep 2023 17:34
20) 090723.D 2309034-001A 10X	8260.M O-VOC-W	43	1.000	07 Sep 2023 18:04
21) 090724.D 2309030-001A 10X	8260.M O-VOC-W	44	1.000	07 Sep 2023 18:34

22)	090725.D		8260.M					
R		O-VOC-W		1.000	07 Sep 2023	19:03		

23)	090726.D		8260.M					
R		O-VOC-W		1.000	07 Sep 2023	19:32		

24)	090727.D		8260.M					
VOC W	CCV D	O-VOC-W	36	1.000	07 Sep 2023	20:02		

25)	090728.D		8260.M					
GX	CCV D	O-VOC-GX-W	37	1.000	07 Sep 2023	20:32		

26)	090729.D		8260.M					
R		O-VOC-W		1.000	07 Sep 2023	21:01		

27)	090730.D		8260.M					
R		O-VOC-W		1.000	07 Sep 2023	21:30		

28)	090731.D		8260.M					
R		O-VOC-W		1.000	07 Sep 2023	21:59		

29)	090732.D		8260.M					
R		O-VOC-W		1.000	07 Sep 2023	22:28		

30)	090733.D		8260.M					
R		O-VOC-W		1.000	07 Sep 2023	22:57		

31)	090734.D		8260.M					
VOC S	CAL 1	O-VOC-S	45	1.000	07 Sep 2023	23:28		

32)	090735.D		8260.M					
VOC S	CAL 2	O-VOC-S	46	1.000	07 Sep 2023	23:58		

33)	090736.D		8260.M					
VOC S	CAL 3	O-VOC-S	47	1.000	08 Sep 2023	00:28		

34)	090737.D		8260.M					
VOC S	CAL 4	O-VOC-S	48	1.000	08 Sep 2023	00:58		

35)	090738.D		8260.M					
VOC S	CAL 5	O-VOC-S	49	1.000	08 Sep 2023	01:28		

36)	090739.D		8260.M					
VOC S	CAL 6	O-VOC-S	50	1.000	08 Sep 2023	01:58		

37)	090740.D		8260.M					
VOC S	CAL 7	O-VOC-S	51	1.000	08 Sep 2023	02:29		

38)	090741.D		8260.M					
VOC S	CAL 8	O-VOC-S	52	1.000	08 Sep 2023	02:59		

39)	090742.D		8260.M					
R		O-VOC-S		1.000	08 Sep 2023	03:28		

40)	090743.D		8260.M					
R		O-VOC-S		1.000	08 Sep 2023	03:57		

41)	090744.D		8260.M					
VOC S	ICB	O-VOC-S	53	1.000	08 Sep 2023	04:27		

42)	090745.D		8260.M					
VOC S	ICV	O-VOC-S	54	1.000	08 Sep 2023	04:57		

43)	090746.D		8260.M					
0		O-VOC-S		1.000	08 Sep 2023	05:26		

44)	090747.D		8260.M					
MB S		O-VOC-S	55	1.000	08 Sep 2023	05:56		

45)	090748.D		8260.M					

VOC S MDL 0.1	O-VOC-S	56	1.000	08 Sep 2023	06:26
46) 090749.D	8260.M				
VOC S MDL 0.2	O-VOC-S	57	1.000	08 Sep 2023	06:57
47) 090750.D	8260.M				
VOC S MDL 0.5	O-VOC-S	58	1.000	08 Sep 2023	07:27
48) 090751.D	8260.M				
VOC S MDL 1.0	O-VOC-S	59	1.000	08 Sep 2023	07:57
49) 090752.D	8260.M				
VOC S MDL 2.0	O-VOC-S	60	1.000	08 Sep 2023	08:27
50) 090753.D	8260.M				
R	O-VOC-S		1.000	08 Sep 2023	08:56
51) 090754.D	8260.M				
GX CCV E	O-VOC-S	62	1.000	08 Sep 2023	10:42
52) 090755.D	8260.M				
R	O-VOC-S		1.000	08 Sep 2023	11:11
53) 090756.D	8260.M				
R	O-VOC-S		1.000	08 Sep 2023	11:40
54) 090757.D	8260.M				
R	O-VOC-S		1.000	08 Sep 2023	12:09
55) 090759.D	8260.M				
MB S	O-VOC-S	63	1.000	08 Sep 2023	12:39
56) 090760.D	8260.M				
VOC S MDL 0.1	O-VOC-S	64	1.000	08 Sep 2023	13:09
57) 090761.D	8260.M				
VOC S MDL 0.2	O-VOC-S	65	1.000	08 Sep 2023	13:39
58) 090762.D	8260.M				
VOC S MDL 0.5	O-VOC-S	66	1.000	08 Sep 2023	14:09
59) 090763.D	8260.M				
VOC S MDL 1.0	O-VOC-S	67	1.000	08 Sep 2023	14:39
60) 090764.D	8260.M				
VOC S MDL 2.0	O-VOC-S	68	1.000	08 Sep 2023	15:10
61) 090765.D	8260.M				
R	O-VOC-S		1.000	08 Sep 2023	15:39
62) 090766.D	8260.M				
GX S 25	O-VOC-S	69	1.000	08 Sep 2023	16:09
63) 090767.D	8260.M				
GX S 50	O-VOC-S	70	1.000	08 Sep 2023	16:39
64) 090768.D	8260.M				
VOC S CCV A	O-VOC-S	71	1.000	08 Sep 2023	17:09
65) 090769.D	8260.M				
GX CCV F	O-VOC-S	72	1.000	08 Sep 2023	17:39
66) 090770.D	8260.M				
R	O-VOC-S		1.000	08 Sep 2023	18:08
67) 090771.D	8260.M				
R	O-VOC-S		1.000	08 Sep 2023	18:37
68) 090772.D	8260.M				
2309081-014A TB	O-VOC-S	73	1.000	08 Sep 2023	19:07

69)	090773.D		8260.M				
2309081-001B		O-VOC-S		74	1.000	08 Sep 2023	19:38
70)	090774.D		8260.M				
2309081-002B		O-VOC-S		75	1.000	08 Sep 2023	20:08
71)	090775.D		8260.M				
2309081-002BDUP		O-VOC-S		76	1.000	08 Sep 2023	20:38
72)	090776.D		8260.M				
2309081-004B		O-VOC-S		77	1.000	08 Sep 2023	21:08
73)	090777.D		8260.M				
2309081-006B		O-VOC-S		78	1.000	08 Sep 2023	21:38
74)	090778.D		8260.M				
2309081-007B		O-VOC-S		79	1.000	08 Sep 2023	22:09
75)	090779.D		8260.M				
2309081-009B		O-VOC-S		80	1.000	08 Sep 2023	22:39
76)	090780.D		8260.M				
2309081-010B		O-VOC-S		81	1.000	08 Sep 2023	23:09
77)	090781.D		8260.M				
2309081-011B		O-VOC-S		82	1.000	08 Sep 2023	23:39
78)	090782.D		8260.M				
2309081-013B 10X		O-VOC-S		83	1.000	09 Sep 2023	00:09
79)	090783.D		8260.M				
R		O-VOC-S			1.000	09 Sep 2023	00:38
80)	090784.D		8260.M				
R		O-VOC-S			1.000	09 Sep 2023	01:07
81)	090785.D		8260.M				
2309081-004BMS VOC		O-VOC-S		84	1.000	09 Sep 2023	01:38
82)	090786.D		8260.M				
2309081-006BMS GX		O-VOC-GX-S		1	1.000	09 Sep 2023	02:08
83)	090787.D		8260.M				
R		O-VOC-S			1.000	09 Sep 2023	02:37
84)	090788.D		8260.M				
R		O-VOC-S			1.000	09 Sep 2023	03:06
85)	090789.D		8260.M				
R		O-VOC-S			1.000	09 Sep 2023	03:35
86)	090790.D		8260.M				
VOC S CCV B		O-VOC-S		2	1.000	09 Sep 2023	04:05
87)	090791.D		8260.M				
GX CCV G		O-VOC-GX-S		3	1.000	09 Sep 2023	04:35
88)	090792.D		8260.M				
R		O-VOC-S			1.000	09 Sep 2023	05:04
89)	090793.D		8260.M				
R		O-VOC-S			1.000	09 Sep 2023	05:33
90)	090794.D		8260.M				
R		O-VOC-S			1.000	09 Sep 2023	06:02
91)	090795.D		8260.M				
R		O-VOC-S			1.000	09 Sep 2023	06:31

Data Directory: D:\GC-19\Data\091123\

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) 091209.D	8260.M			
No data found			0.000	N/A
2) 091101.D	8260.M			
R	O-VOC-W		1.000	11 Sep 2023 09:11
3) 091102.D	8260.M			
VOC W CCV A	O-VOC-W	1	1.000	11 Sep 2023 09:41
4) 091103.D	8260.M			
VOC S CCV A	O-VOC-S	2	1.000	11 Sep 2023 10:11
5) 091104.D	8260.M			
GX CCV A	O-VOC-GX-W	3	1.000	11 Sep 2023 10:42
6) 091105.D	8260.M			
1122 tetra breakdown	O-VOC-W	4	1.000	11 Sep 2023 11:12
7) 091106.D	8260.M			
VOC S CCV B	O-VOC-S	7	1.000	11 Sep 2023 11:42
8) 091107.D	8260.M			
R	O-VOC-S		1.000	11 Sep 2023 12:11
9) 091109.D	8260.M			
2309081-010B 1X RR	O-VOC-S	5	1.000	11 Sep 2023 12:40
10) 091110.D	8260.M			
2309081-009B 10X	O-VOC-S	6	1.000	11 Sep 2023 13:10
11) 091111.D	8260.M			
2309081-013B 1000X	O-VOC-GX-S	8	1.000	11 Sep 2023 13:40
12) 091112.D	8260.M			
2309081-013B 100X	O-VOC-S	9	1.000	11 Sep 2023 14:10
13) 091113.D	8260.M			
R	O-VOC-S		1.000	11 Sep 2023 14:41
14) 091114.D	8260.M			
R	O-VOC-S		1.000	11 Sep 2023 15:10
15) 091115.D	8260.M			
GX CCV B	O-VOC-GX-S	10	1.000	11 Sep 2023 15:40
16) 091116.D	8260.M			
VOC S CCV C	O-VOC-S	11	1.000	11 Sep 2023 16:10
17) 091117.D	8260.M			
R	O-VOC-S		1.000	11 Sep 2023 16:39
18) 091118.D	8260.M			
MB S	O-VOC-S	12	1.000	11 Sep 2023 17:09
19) 091119.D	8260.M			
2309051-013B	O-VOC-S	13	1.000	11 Sep 2023 17:39
20) 091120.D	8260.M			
2309051-017B	O-VOC-S	14	1.000	11 Sep 2023 18:09
21) 091121.D	8260.M			
2309051-017BDUP	O-VOC-S	15	1.000	11 Sep 2023 18:40

22)	091122.D		8260.M						
	2309051-018B	O-VOC-S		16	1.000	11 Sep 2023	19:10		

	23)	091123.D	8260.M						
R		O-VOC-S			1.000	11 Sep 2023	19:39		

	24)	091124.D	8260.M						
	2309085-001B	O-VOC-S		17	1.000	11 Sep 2023	20:09		

	25)	091125.D	8260.M						
	2309085-001BDUP	O-VOC-S		18	1.000	11 Sep 2023	20:39		

	26)	091126.D	8260.M						
	2309085-002B	O-VOC-S		19	1.000	11 Sep 2023	21:09		

	27)	091127.D	8260.M						
	2309085-003B	O-VOC-S		20	1.000	11 Sep 2023	21:39		

	28)	091128.D	8260.M						
	2309085-004B	O-VOC-S		21	1.000	11 Sep 2023	22:09		

	29)	091129.D	8260.M						
	2309085-005B	O-VOC-S		22	1.000	11 Sep 2023	22:40		

	30)	091130.D	8260.M						
	2309085-006B	O-VOC-S		23	1.000	11 Sep 2023	23:10		

	31)	091131.D	8260.M						
	2309085-007B	O-VOC-S		24	1.000	11 Sep 2023	23:40		

	32)	091132.D	8260.M						
	2309085-008B	O-VOC-S		25	1.000	12 Sep 2023	00:10		

	33)	091133.D	8260.M						
	2309085-009B	O-VOC-S		26	1.000	12 Sep 2023	00:40		

	34)	091134.D	8260.M						
R		O-VOC-S			1.000	12 Sep 2023	01:09		

	35)	091135.D	8260.M						
	2309051-013BMS VOC	O-VOC-S		27	1.000	12 Sep 2023	01:39		

	36)	091136.D	8260.M						
	2309051-018BMS GX	O-VOC-GX-S		28	1.000	12 Sep 2023	02:09		

	37)	091137.D	8260.M						
R		O-VOC-S			1.000	12 Sep 2023	02:38		

	38)	091138.D	8260.M						
VOC S CCV D		O-VOC-S		29	1.000	12 Sep 2023	03:09		

	39)	091139.D	8260.M						
GX CCV C		O-VOC-GX-S		30	1.000	12 Sep 2023	03:39		

	40)	091140.D	8260.M						
R		O-VOC-S			1.000	12 Sep 2023	04:08		

	41)	091141.D	8260.M						
VOC S MDL 0.1		O-DOD-VOC-S		38	1.000	12 Sep 2023	04:38		

	42)	091142.D	8260.M						
VOC S MDL 0.2		O-DOD-VOC-S		39	1.000	12 Sep 2023	05:08		

	43)	091143.D	8260.M						
VOC S MDL 0.5		O-DOD-VOC-S		40	1.000	12 Sep 2023	05:38		

	44)	091144.D	8260.M						
VOC S MDL 1.0		O-DOD-VOC-S		41	1.000	12 Sep 2023	06:08		

	45)	091145.D	8260.M						

VOC S MDL 2.0	O-DOD-VOC-S	42	1.000	12 Sep 2023	06:39
46) 091146.D	8260.M				
GX S MDL 25	O-DOD-VOC-GX-S	43	1.000	12 Sep 2023	07:09
47) 091147.D	8260.M				
GX S MDL 50	O-DOD-VOC-GX-S	44	1.000	12 Sep 2023	07:39
48) 091148.D	8260.M				
R	O-DOD-VOC-GX-S		1.000	12 Sep 2023	08:08
49) 091149.D	8260.M				
2309051-010B	O-VOC-S	31	1.000	12 Sep 2023	08:38
50) 091150.D	8260.M				
2309055-001B	O-VOC-S	32	1.000	12 Sep 2023	09:08
51) 091151.D	8260.M				
2309051-009B	O-VOC-S	33	1.000	12 Sep 2023	09:38
52) 091152.D	8260.M				
R	O-VOC-S		1.000	12 Sep 2023	10:07
53) 091153.D	8260.M				
2309051-019B	O-VOC-S	34	1.000	12 Sep 2023	10:38
54) 091154.D	8260.M				
2309051-020B	O-VOC-S	35	1.000	12 Sep 2023	11:08
55) 091155.D	8260.M				
2309096-002B	O-VOC-S	45	1.000	12 Sep 2023	11:38
56) 091156.D	8260.M				
R	O-VOC-S		1.000	12 Sep 2023	12:07
57) 091157.D	8260.M				
2309096-002B RR	O-VOC-S	50	1.000	12 Sep 2023	12:37
58) 091158.D	8260.M				
2309096-001B 10X	O-VOC-S	51	1.000	12 Sep 2023	13:07
59) 091159.D	8260.M				
R	O-VOC-S		1.000	12 Sep 2023	13:36
60) 091160.D	8260.M				
2309096-001B	O-VOC-S	46	1.000	12 Sep 2023	14:06
61) 091161.D	8260.M				
R	O-VOC-S		1.000	12 Sep 2023	14:35
62) 091162.D	8260.M				
GX CCV D	O-VOC-GX-S	37	1.000	12 Sep 2023	15:05
63) 091163.D	8260.M				
VOC S CCV E	O-VOC-S	36	1.000	12 Sep 2023	15:36
64) 091164.D	8260.M				
R	O-VOC-S		1.000	12 Sep 2023	16:25
65) 091165.D	8260.M				
R	O-VOC-S		1.000	12 Sep 2023	16:54
66) 091166.D	8260.M				
R	O-VOC-S		1.000	12 Sep 2023	17:23
67) 091167.D	8260.M				
MB S	O-VOC-S	52	1.000	12 Sep 2023	17:53
68) 091168.D	8260.M				
GX W MDL 25	O-VOC-GX-W	53	1.000	12 Sep 2023	18:24

69)	091169.D		8260.M						
GX S	MDL 25		O-VOC-GX-S	54	1.000	12 Sep 2023	18:54		
70)	091170.D		8260.M						
GX W	MDL 50		O-VOC-GX-W	55	1.000	12 Sep 2023	19:24		
71)	091171.D		8260.M						
GX S	MDL 50		O-VOC-GX-S	56	1.000	12 Sep 2023	19:54		
72)	091172.D		8260.M						
2309107-001B			O-VOC-S	57	1.000	12 Sep 2023	20:24		
73)	091173.D		8260.M						
2309107-002B			O-VOC-S	58	1.000	12 Sep 2023	20:54		
74)	091174.D		8260.M						
R			O-VOC-S		1.000	12 Sep 2023	21:23		
75)	091175.D		8260.M						
2309081-012B			O-VOC-S	59	1.000	12 Sep 2023	21:54		
76)	091176.D		8260.M						
2309081-012BDUP			O-VOC-S	60	1.000	12 Sep 2023	22:24		
77)	091177.D		8260.M						
2309099-001B			O-VOC-S	61	1.000	12 Sep 2023	22:54		
78)	091178.D		8260.M						
2309099-002B			O-VOC-S	62	1.000	12 Sep 2023	23:24		
79)	091179.D		8260.M						
R			O-VOC-S		1.000	12 Sep 2023	23:53		
80)	091180.D		8260.M						
2309081-008B	10X		O-VOC-S	63	1.000	13 Sep 2023	00:23		
81)	091181.D		8260.M						
R			O-VOC-S		1.000	13 Sep 2023	00:52		
82)	091182.D		8260.M						
2309099-001BMS	VOC		O-VOC-S	64	1.000	13 Sep 2023	01:22		
83)	091183.D		8260.M						
2309099-002BMS	GX		O-VOC-S	65	1.000	13 Sep 2023	01:53		
84)	091185.D		8260.M						
R			O-VOC-S		1.000	13 Sep 2023	02:22		
85)	091186.D		8260.M						
VOC S	CCV AA		O-VOC-S	66	1.000	13 Sep 2023	02:52		
86)	091187.D		8260.M						
GX	CCV AA		O-VOC-S	67	1.000	13 Sep 2023	03:22		
87)	091188.D		8260.M						
R			O-VOC-S		1.000	13 Sep 2023	03:51		
88)	091190.D		8260.M						
2309051-019B	RR		O-VOC-S	68	1.000	13 Sep 2023	04:21		
89)	091191.D		8260.M						
2309051-008B	20X		O-VOC-S	69	1.000	13 Sep 2023	04:51		
90)	091192.D		8260.M						
2309051-018B	20X		O-VOC-S	70	1.000	13 Sep 2023	05:22		
91)	091193.D		8260.M						
2309051-020B	10X		O-VOC-S	71	1.000	13 Sep 2023	05:52		

R	92) 091194.D	8260.M		1.000	13 Sep 2023	06:21
		O-VOC-S				
	93) 091197.D	8260.M				
	2309099-003B	O-VOC-S	72	1.000	13 Sep 2023	06:51
	94) 091198.D	8260.M				
	2309099-004B	O-VOC-S	73	1.000	13 Sep 2023	07:21
	95) 091199.D	8260.M				
	2309099-005B	O-VOC-S	74	1.000	13 Sep 2023	07:51
	96) 091200.D	8260.M				
R		O-VOC-S		1.000	13 Sep 2023	08:20
	97) 091201.D	8260.M				
	2309081-008B	O-VOC-S	75	1.000	13 Sep 2023	08:50
	98) 091202.D	8260.M				
R		O-VOC-S		1.000	13 Sep 2023	09:19
	99) 091204.D	8260.M				
R		O-VOC-S		1.000	13 Sep 2023	09:49
	100) 091205.D	8260.M				
	VOC S CCV BB	O-VOC-S	76	1.000	13 Sep 2023	10:19
	101) 091206.D	8260.M				
	GX CCV BB	O-VOC-S	77	1.000	13 Sep 2023	10:49
	102) 091207.D	8260.M				
R		O-VOC-S		1.000	13 Sep 2023	11:18

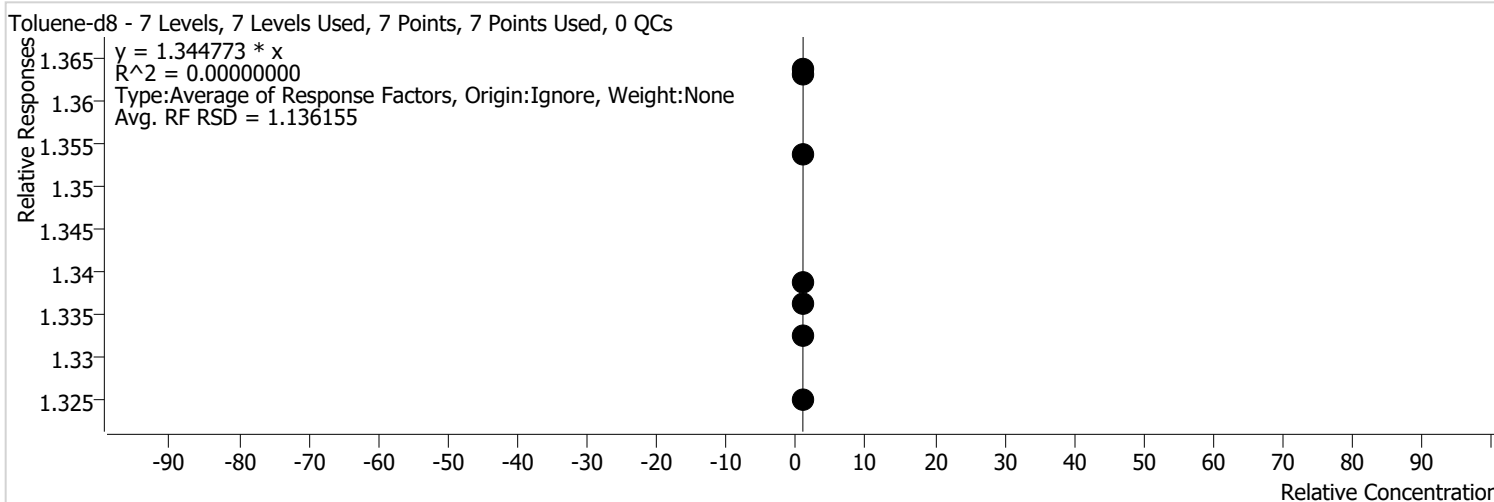


Calibration

Calibration Report

Batch Path	D:\GC-19\Data\090523\QuantResults\gx cal.batch.bin		
Analysis Time	9/6/2023 9:07 AM	Analyst Name	FA\GC19
Report Time	9/6/2023 9:23:54 AM	Reporter Name	FA\GC19
Last Calib Update	9/6/2023 9:07 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Toluene-d8 %RSE =

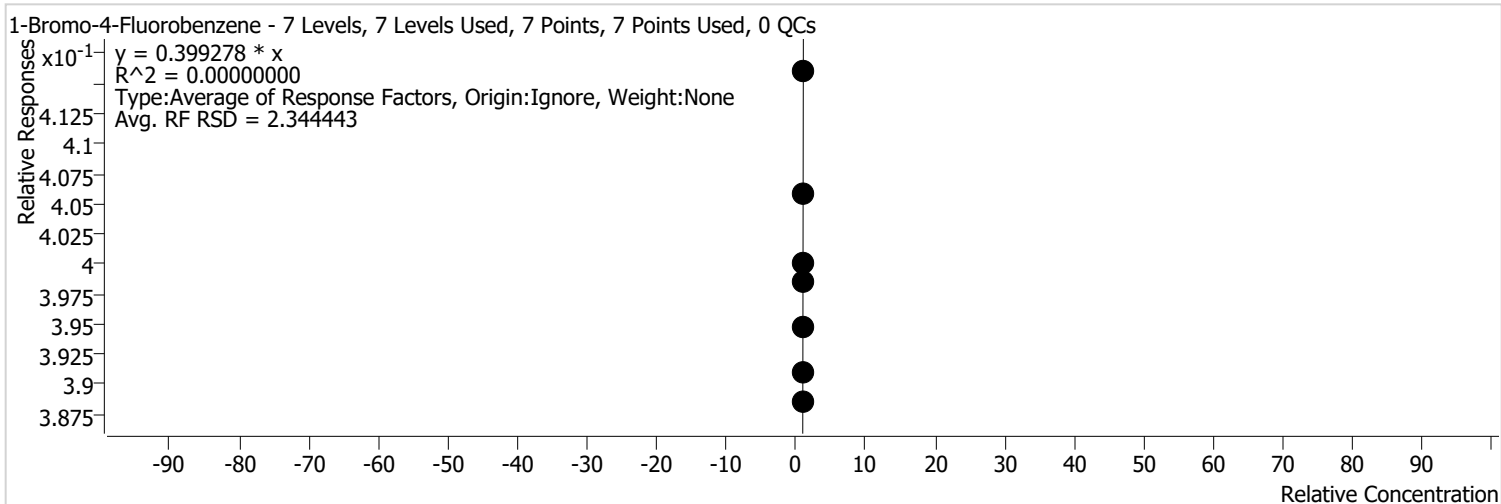


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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D:\GC-19\Data\090523\090536.D	Calibration	6	x	2374014	25.0000	1.3365	
D:\GC-19\Data\090523\090535.D	Calibration	5	x	2343930	25.0000	1.3631	
D:\GC-19\Data\090523\090534.D	Calibration	4	x	2322098	25.0000	1.3388	
D:\GC-19\Data\090523\090533.D	Calibration	3	x	2177880	25.0000	1.3536	
D:\GC-19\Data\090523\090532.D	Calibration	2	x	2201633	25.0000	1.3636	
D:\GC-19\Data\090523\090531.D	Calibration	1	x	2195311	25.0000	1.3326	

Calibration Report

Batch Path	D:\GC-19\Data\090523\QuantResults\gx cal.batch.bin		
Analysis Time	9/6/2023 9:07 AM	Analyst Name	FA\GC19
Report Time	9/6/2023 9:23:54 AM	Reporter Name	FA\GC19
Last Calib Update	9/6/2023 9:07 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1-Bromo-4-Fluorobenzene %RSE =



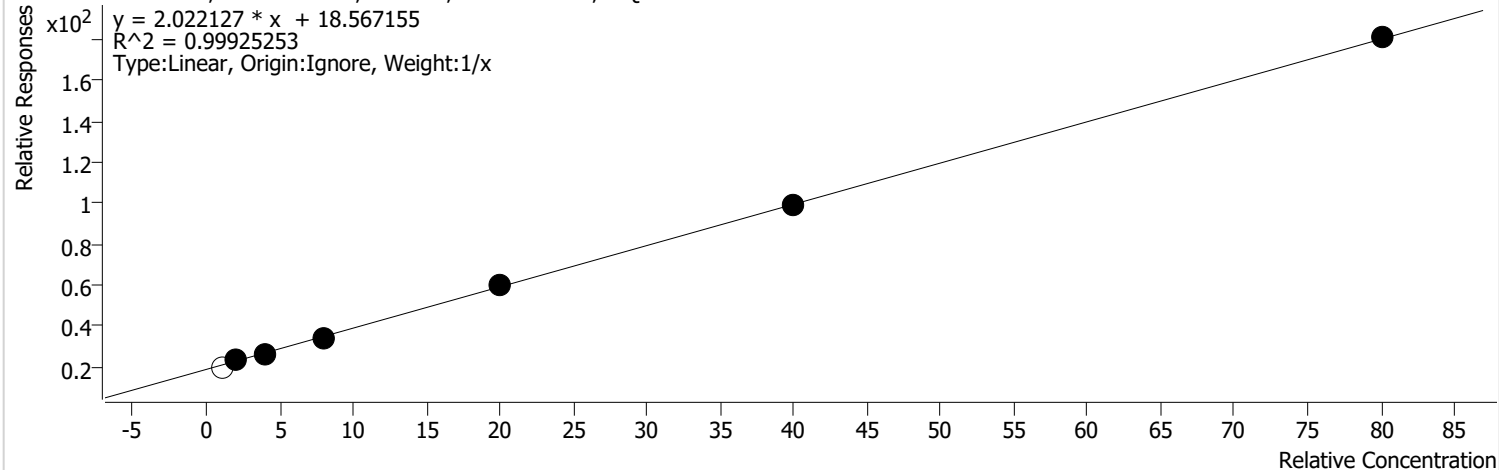
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D:\GC-19\Data\090523\090535.D	Calibration	5	x	668276	25.0000	0.3886	
D:\GC-19\Data\090523\090534.D	Calibration	4	x	703947	25.0000	0.4059	
D:\GC-19\Data\090523\090533.D	Calibration	3	x	641284	25.0000	0.3986	
D:\GC-19\Data\090523\090532.D	Calibration	2	x	646091	25.0000	0.4002	
D:\GC-19\Data\090523\090531.D	Calibration	1	x	685289	25.0000	0.4160	

Calibration Report

Batch Path	D:\GC-19\Data\090523\QuantResults\gx cal.batch.bin		
Analysis Time	9/6/2023 9:07 AM	Analyst Name	FA\GC19
Report Time	9/6/2023 9:23:54 AM	Reporter Name	FA\GC19
Last Calib Update	9/6/2023 9:07 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

GASOLINE %RSE = 6.8

GASOLINE - 7 Levels, 6 Levels Used, 7 Points, 6 Points Used, 0 QCs



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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D:\GC-19\Data\090523\090532.D	Calibration	2	x	27407950	50.0000	11.5066	
D:\GC-19\Data\090523\090533.D	Calibration	3	x	31775585	100.0000	6.6012	
D:\GC-19\Data\090523\090534.D	Calibration	4	x	43953262	200.0000	4.1691	
D:\GC-19\Data\090523\090535.D	Calibration	5	x	74944284	500.0000	2.9759	
D:\GC-19\Data\090523\090536.D	Calibration	6	x	128819723	1000.0000	2.4889	
D:\GC-19\Data\090523\090537.D	Calibration	7	x	232371132	2000.0000	2.2621	

GX Calibration



Date: 1/5/23
 Analyst: MDS
 Instrument: GC19

Cal	ICV
GX Standard: <u>28854</u>	GX Standard: <u>28863</u>

IS/Surrogate ~~GC19~~ 288A7

Cal Level	Spike Conc. (ppb)	Cal GX Spike (uL)	ICV GX Spike (uL)	Final Vol. (mL)	Comments
1	25	0.50	--	50	
2	50	1.00	--	50	
3	100	2.00	--	50	
4	200	4.00	--	50	
5	500	10.00	--	50	
6	1000	20.00	--	50	
7	2000	40.00	--	50	
	ICV (500 ppb)	--	10.00	50	

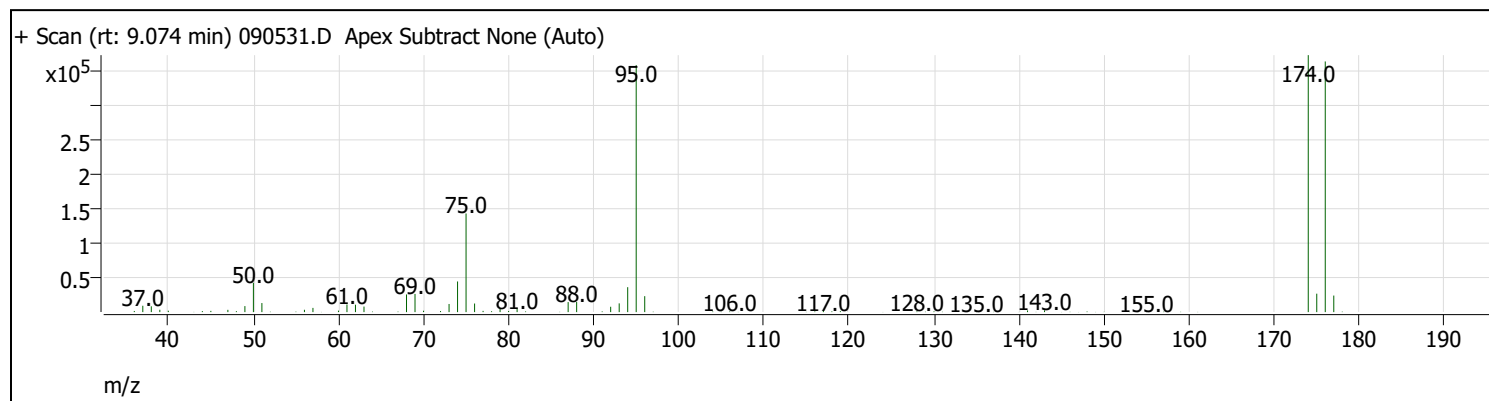
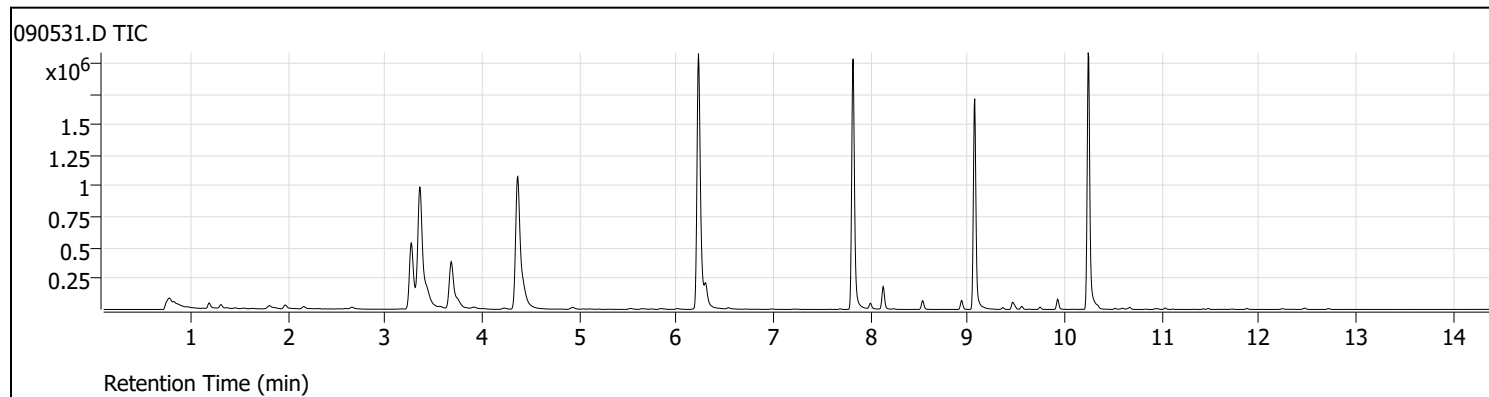
Signature and Date: _____



Tunes

Tune Evaluation Report

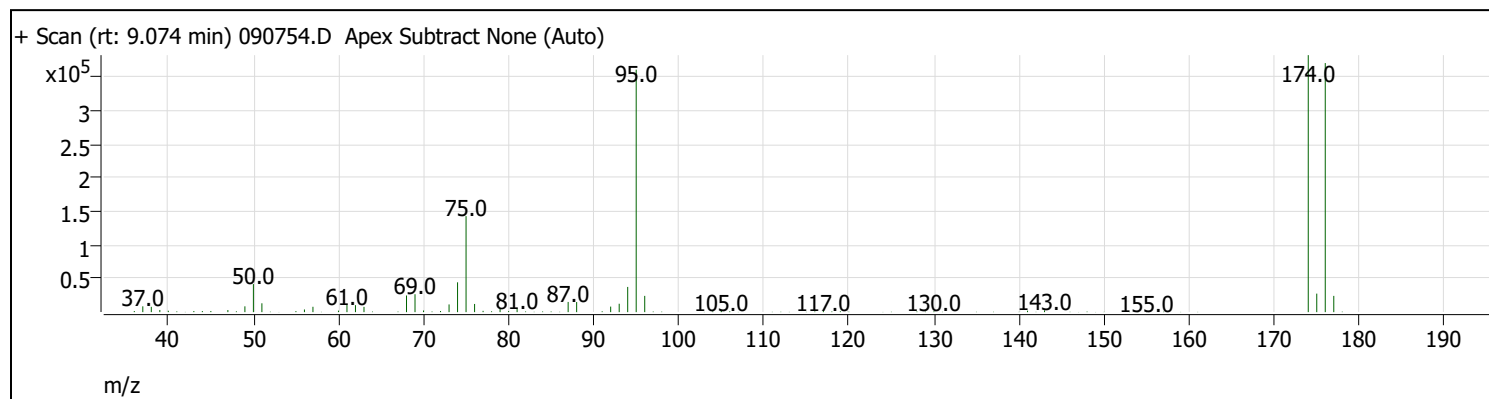
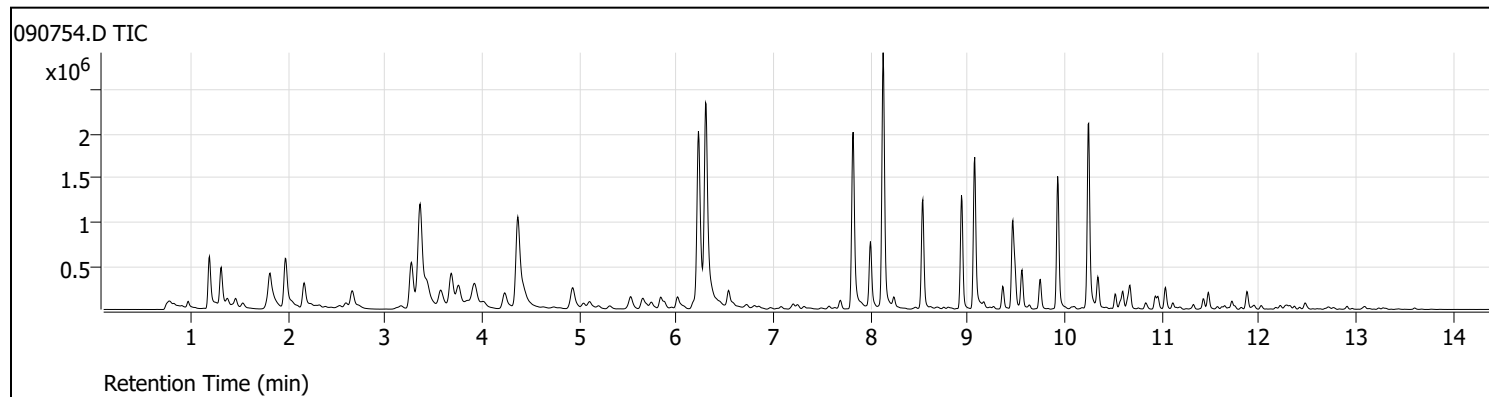
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 Operator: FA\GC19
 Sample: GX CAL 1
 Inst Name: GC19
 ALS Vial: 14
 Method: D:\MassHunter\Methods\Quant\BFB2021.m



Target Mass	Rel. To Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Pass/Fail
95	174	50	200	96.1	359368	Pass
96	95	5	9	6.5	23222	Pass
173	174	0	2	0.0	0	Pass
174	95	50	200	104.0	373894	Pass
175	174	5	9	7.2	26833	Pass
176	174	95	105	97.5	364727	Pass
177	176	5	10	6.6	24099	Pass

Tune Evaluation Report

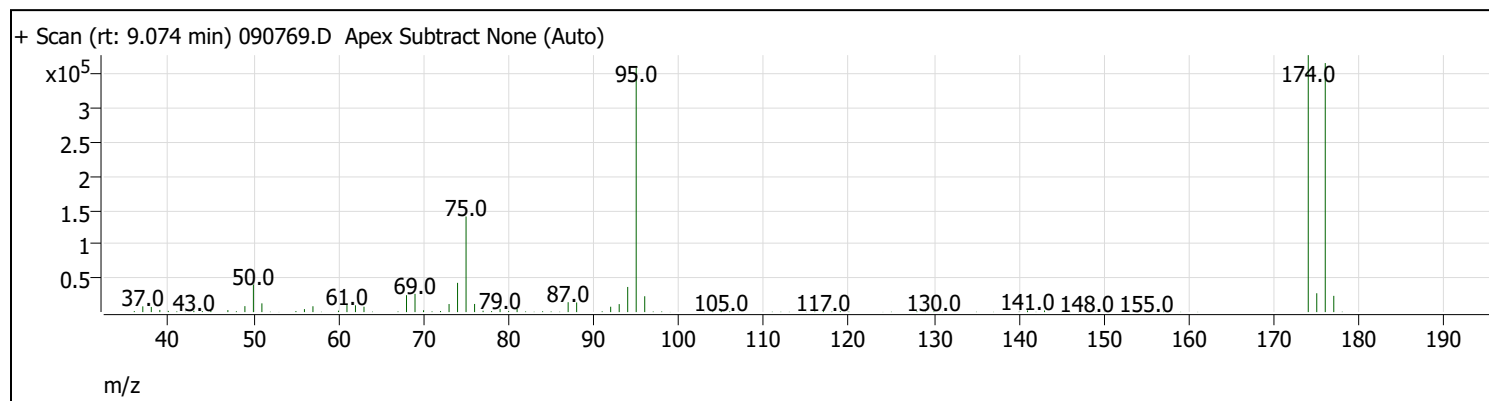
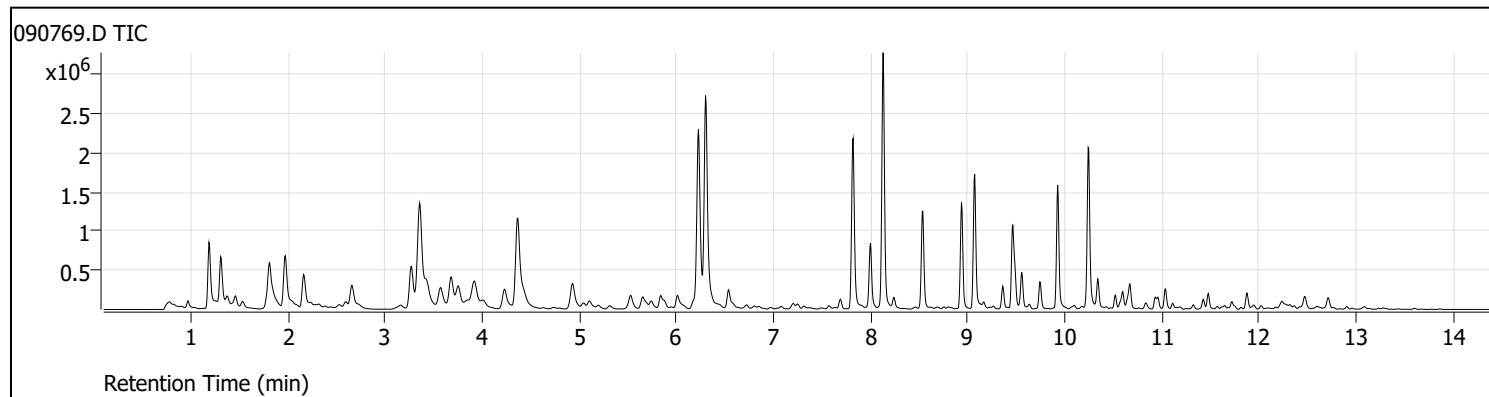
Data Path: D:\GC-19\Data\090723\090754.D
 Acq on: 9/8/2023 10:42:08 AM
 Operator: FA\GC19
 Sample: GX CCV E
 Inst Name: GC19
 ALS Vial: 62
 Method: D:\MassHunter\Methods\Quant\BFB2021.m



Target Mass	Rel. To Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Pass/Fail
95	174	50	200	94.4	360902	Pass
96	95	5	9	6.7	24173	Pass
173	174	0	2	0.0	0	Pass
174	95	50	200	106.0	382482	Pass
175	174	5	9	7.2	27528	Pass
176	174	95	105	96.9	370680	Pass
177	176	5	10	6.5	24180	Pass

Tune Evaluation Report

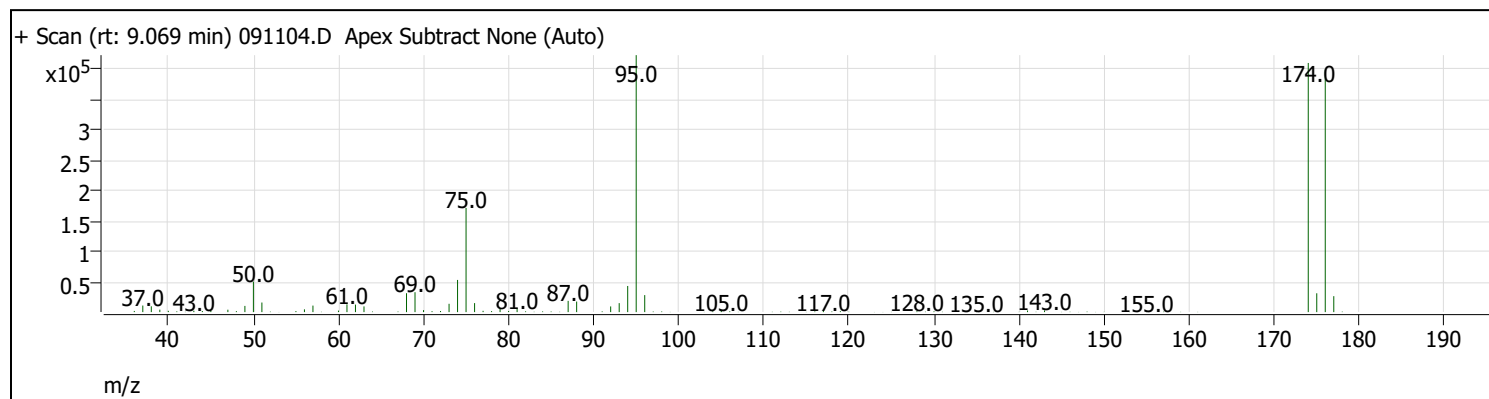
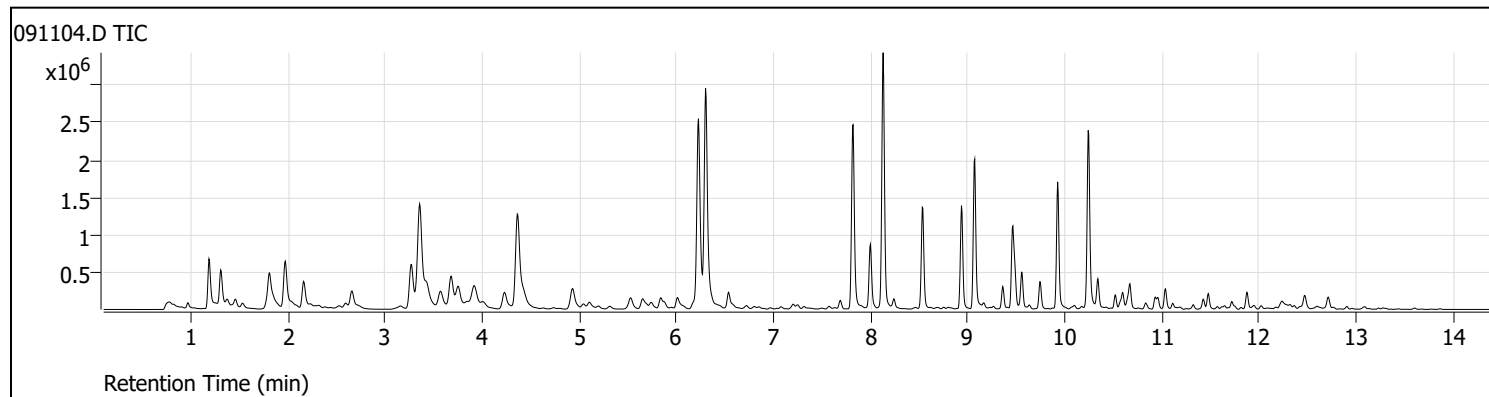
Data Path: D:\GC-19\Data\090723\090769.D
 Acq on: 9/8/2023 5:39:54 PM
 Operator: FA\GC19
 Sample: GX CCV F
 Inst Name: GC19
 ALS Vial: 72
 Method: D:\MassHunter\Methods\Quant\BFB2021.m



Target Mass	Rel. To Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Pass/Fail
95	174	50	200	95.0	359839	Pass
96	95	5	9	6.5	23386	Pass
173	174	0	2	0.0	0	Pass
174	95	50	200	105.2	378730	Pass
175	174	5	9	7.3	27790	Pass
176	174	95	105	96.9	367053	Pass
177	176	5	10	6.5	23961	Pass

Tune Evaluation Report

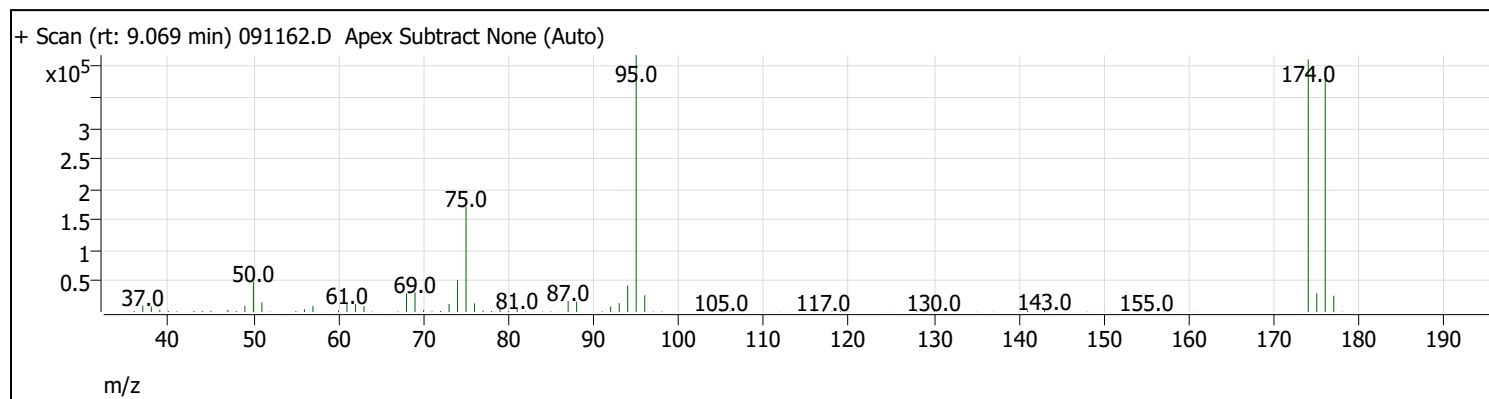
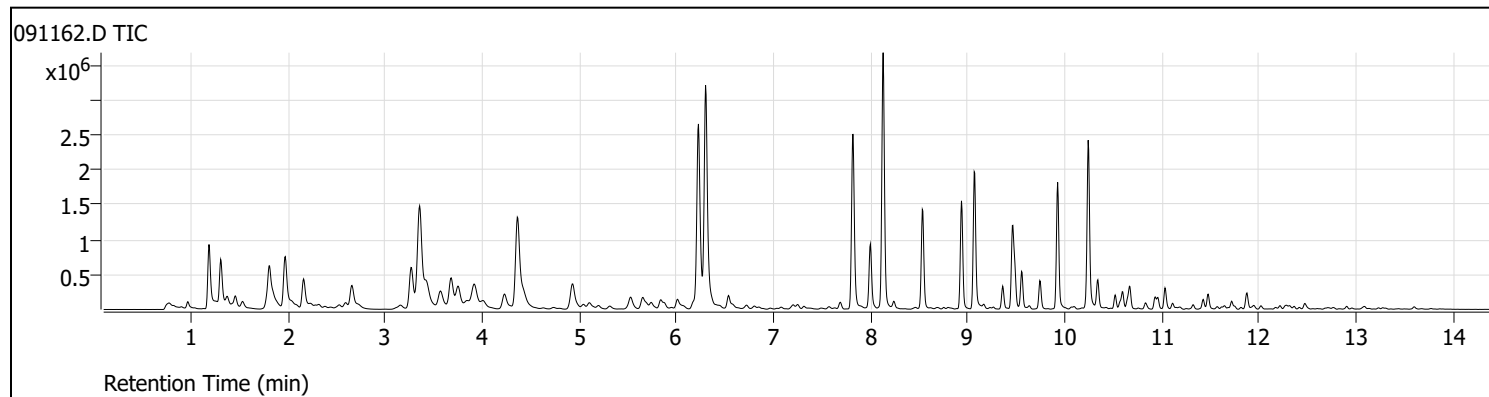
Data Path: D:\GC-19\Data\091123\091104.D
 Acq on: 9/11/2023 10:42:12 AM
 Operator: FA\GC19
 Sample: GX CCV A
 Inst Name: GC19
 ALS Vial: 3
 Method: D:\MassHunter\Methods\Quant\BFB2021.m



Target Mass	Rel. To Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Pass/Fail
95	174	50	200	103.1	423472	Pass
96	95	5	9	6.6	28024	Pass
173	174	0	2	0.0	0	Pass
174	95	50	200	97.0	410605	Pass
175	174	5	9	7.6	31036	Pass
176	174	95	105	97.4	399842	Pass
177	176	5	10	6.6	26249	Pass

Tune Evaluation Report

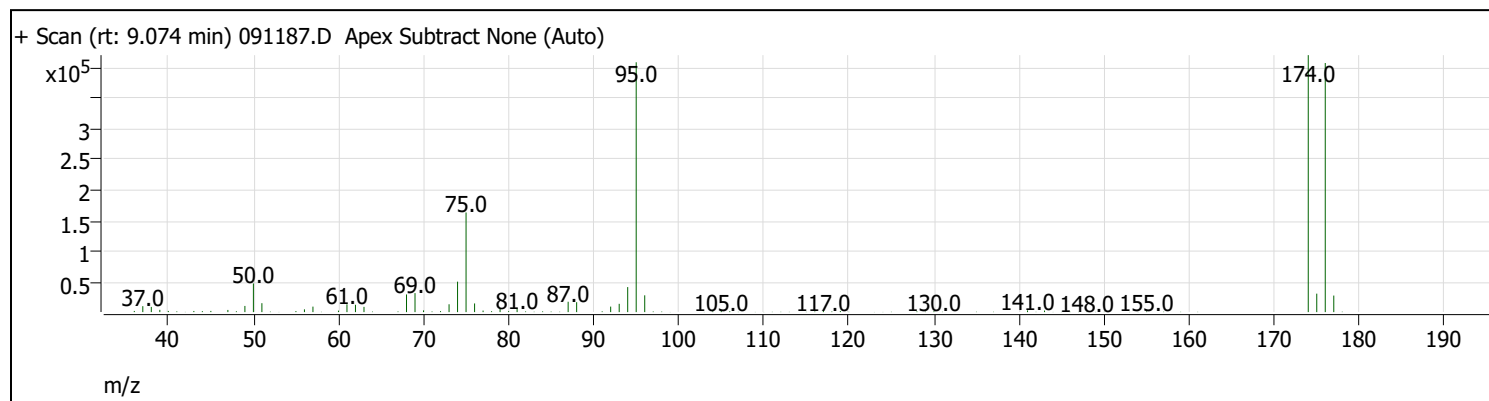
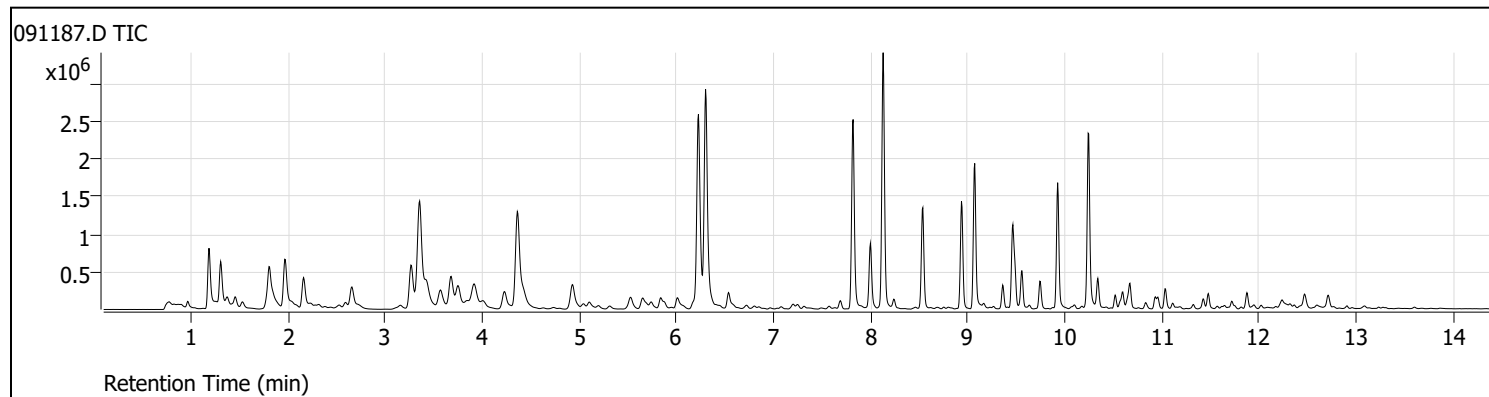
Data Path: D:\GC-19\Data\091123\091162.D
 Acq on: 9/12/2023 3:05:58 PM
 Operator: FA\GC19
 Sample: GX CCV D
 Inst Name: GC19
 ALS Vial: 37
 Method: D:\MassHunter\Methods\Quant\BFB2021.m



Target Mass	Rel. To Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Pass/Fail
95	174	50	200	101.7	419268	Pass
96	95	5	9	6.6	27501	Pass
173	174	0	2	0.0	0	Pass
174	95	50	200	98.4	412365	Pass
175	174	5	9	7.5	30765	Pass
176	174	95	105	97.1	400244	Pass
177	176	5	10	6.7	26764	Pass

Tune Evaluation Report

Data Path: D:\GC-19\Data\091123\091187.D
 Acq on: 9/13/2023 3:22:28 AM
 Operator: FA\GC19
 Sample: GX CCV AA
 Inst Name: GC19
 ALS Vial: 67
 Method: D:\MassHunter\Methods\Quant\BFB2021.m



Target Mass	Rel. To Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Pass/Fail
95	174	50	200	97.2	409916	Pass
96	95	5	9	6.7	27549	Pass
173	174	0	2	0.0	0	Pass
174	95	50	200	102.8	421581	Pass
175	174	5	9	7.2	30260	Pass
176	174	95	105	96.9	408682	Pass
177	176	5	10	6.6	27129	Pass



Internal Standards

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-19 230911B CCV Name: GX 86333
 Run No: 86423 CCV SeqNo: 1803943
 Lab File ID (Standard): 090535.D Date Analyzed: 9/6/2023
 Instrument ID: GC-19 Time Analyzed: 1:36
 GC Column: ID (mm): Length (M):

	IS1 (CBZ) AREA #	RT #	IS2 (14DCBZ) AREA #	RT #				
12 HOUR STD	1719603	7.821	1259191	10.244				
UPPER LIMIT	3439206	8.321	2518382	10.744				
LOWER LIMIT	859802	7.321	629596	9.744				
SAMPLE NO.								
01	CCV-41436A	1.71648e+006	7.821	1.31409e+006	10.249			
02	CCV-41436B	1.72235e+006	7.821	1.25114e+006	10.249			
03	CCV-41436C	1.99235e+006	7.821	1.48017e+006	10.243			
04	CCV-41436D	1.96885e+006	7.822	1.47444e+006	10.244			
05	CCV-41436E	1.9258e+006	7.821	1.42423e+006	10.244			

IS1 (CBZ) = Chlorobenzene-d5

IS2 (14DCBZ) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-19 230911B CCV Name: CCV-41436A
 Run No: 86423 CCV SeqNo: 1803936
 Lab File ID (Standard): 090754.D Date Analyzed: 9/8/2023
 Instrument ID: GC-19 Time Analyzed: 10:42
 GC Column: ID (mm): Length (M):

	IS1 (CBZ) AREA #	RT #	IS2 (14DCBZ) AREA #	RT #				
12 HOUR STD	1716482	7.821	1314092	10.249				
UPPER LIMIT	3432964	8.321	2628184	10.749				
LOWER LIMIT	858241	7.321	657046	9.749				
SAMPLE NO.								
01 LCS-41436	1.71648e+006	7.821	1.31409e+006	10.249				
02 MB-41436	1.69859e+006	7.816	1.31752e+006	10.249				

IS1 (CBZ) = Chlorobenzene-d5

IS2 (14DCBZ) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-19 230911B CCV Name: CCV-41436B
 Run No: 86423 CCV SeqNo: 1803937
 Lab File ID (Standard): 090769.D Date Analyzed: 9/8/2023
 Instrument ID: GC-19 Time Analyzed: 17:39
 GC Column: ID (mm): Length (M):

	IS1 (CBZ) AREA #	RT #	IS2 (14DCBZ) AREA #	RT #				
12 HOUR STD	1722351	7.821	1251144	10.249				
UPPER LIMIT	3444702	8.321	2502288	10.749				
LOWER LIMIT	861176	7.321	625572	9.749				
SAMPLE NO.								
01 2309081-014A	1.72285e+006	7.816	1.29783e+006	10.249				
02 2309081-001B	1.71934e+006	7.816	1.34149e+006	10.249				
03 2309081-002B	1.77222e+006	7.816	1.35499e+006	10.249				
04 2309081-002BDUP	1.78034e+006	7.816	1.37196e+006	10.249				
05 2309081-004B	1.74436e+006	7.816	1.28971e+006	10.249				
06 2309081-006B	1.71024e+006	7.816	1.28497e+006	10.249				
07 2309081-007B	1.71038e+006	7.816	1.31335e+006	10.249				
08 2309081-009B	1.67562e+006	7.816	1.25976e+006	10.249				
09 2309081-010B	1.74633e+006	7.816	1.36234e+006	10.249				
10 2309081-011B	1.74681e+006	7.816	1.34883e+006	10.249				
11 2309081-013B	1.84113e+006	7.827	1.40833e+006	10.254				
12 2309081-006BMS	1.87884e+006	7.816	1.36886e+006	10.249				

IS1 (CBZ) = Chlorobenzene-d5

IS2 (14DCBZ) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-19 230911B CCV Name: CCV-41436D
 Run No: 86423 CCV SeqNo: 1803962
 Lab File ID (Standard): 091104.D Date Analyzed: 9/11/2023
 Instrument ID: GC-19 Time Analyzed: 10:42
 GC Column: ID (mm): Length (M):

	IS1 (CBZ) AREA #	RT #	IS2 (14DCBZ) AREA #	RT #				
12 HOUR STD	1968846	7.822	1474435	10.244				
UPPER LIMIT	3937692	8.322	2948870	10.744				
LOWER LIMIT	984423	7.322	737218	9.744				
SAMPLE NO.								
01 2309081-010B	1.9097e+006	7.821	1.41418e+006	10.249				
02 2309081-013B	1.96937e+006	7.821	1.50249e+006	10.249				

IS1 (CBZ) = Chlorobenzene-d5

IS2 (14DCBZ) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-19 230913A CCV Name: GX 86333
 Run No: 86477 CCV SeqNo: 1804698
 Lab File ID (Standard): 090535.D Date Analyzed: 9/6/2023
 Instrument ID: GC-19 Time Analyzed: 1:36
 GC Column: ID (mm): Length (M):

	IS1 (CBZ) AREA #	RT #	IS2 (14DCBZ) AREA #	RT #				
12 HOUR STD	1719603	7.821	1259191	10.244				
UPPER LIMIT	3439206	8.321	2518382	10.744				
LOWER LIMIT	859802	7.321	629596	9.744				
SAMPLE NO.								
01 CCV-41458A	1.98401e+006	7.822	1.41743e+006	10.244				
02 CCV-41458B	1.93376e+006	7.821	1.40318e+006	10.249				
03 CCV-41458C	2.06774e+006	7.821	1.52959e+006	10.249				

IS1 (CBZ) = Chlorobenzene-d5

IS2 (14DCBZ) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-19 230913A CCV Name: CCV-41458A
 Run No: 86477 CCV SeqNo: 1804695
 Lab File ID (Standard): 091162.D Date Analyzed: 9/12/2023
 Instrument ID: GC-19 Time Analyzed: 15:05
 GC Column: ID (mm): Length (M):

	IS1 (CBZ) AREA #	RT #	IS2 (14DCBZ) AREA #	RT #				
12 HOUR STD	1984005	7.822	1417427	10.244				
UPPER LIMIT	3968010	8.322	2834854	10.744				
LOWER LIMIT	992003	7.322	708714	9.744				
SAMPLE NO.								
01 LCS-41458	1.98401e+006	7.822	1.41743e+006	10.244				
02 MB-41458	1.92456e+006	7.816	1.48906e+006	10.249				
03 2309107-001B	1.89288e+006	7.816	1.44887e+006	10.249				
04 2309107-002B	1.93878e+006	7.816	1.44787e+006	10.249				
05 2309081-012B	1.98204e+006	7.816	1.48945e+006	10.249				
06 2309081-012BDUP	1.99809e+006	7.816	1.53838e+006	10.249				
07 2309099-001B	1.98856e+006	7.821	1.50779e+006	10.249				
08 2309099-002B	1.89645e+006	7.816	1.41161e+006	10.249				
09 2309081-008B	2.04178e+006	7.821	1.54609e+006	10.244				
10 2309099-002BMS	2.01199e+006	7.816	1.52285e+006	10.249				

IS1 (CBZ) = Chlorobenzene-d5

IS2 (14DCBZ) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-19 230913A CCV Name: CCV-41458B
 Run No: 86477 CCV SeqNo: 1804693
 Lab File ID (Standard): 091187.D Date Analyzed: 9/13/2023
 Instrument ID: GC-19 Time Analyzed: 3:22
 GC Column: ID (mm): Length (M):

	IS1 (CBZ) AREA #	RT #	IS2 (14DCBZ) AREA #	RT #				
12 HOUR STD	1933764	7.821	1403184	10.249				
UPPER LIMIT	3867528	8.321	2806368	10.749				
LOWER LIMIT	966882	7.321	701592	9.749				
SAMPLE NO.								
01 2309099-003B	1.99334e+006	7.816	1.49707e+006	10.249				
02 2309099-004B	1.90045e+006	7.816	1.43347e+006	10.249				
03 2309099-005B	2.07226e+006	7.816	1.59047e+006	10.249				
04 2309081-008B	2.04248e+006	7.816	1.50584e+006	10.249				

IS1 (CBZ) = Chlorobenzene-d5

IS2 (14DCBZ) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

DATA SET for Review - Deliverable Requirements

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Fremont Analytical Work Order No. 2309081

GeoEngineers

Project Name: South Jackson Street

Project Number: 24504-001-01

This data set contains the following:

- Analytical Sequence Summary
- Calibration Information
- Tune Information
- Internal Standards Report

SampleName	MiscInfo	Vial	Multiplier	Injection Time	
1) 091401.D HERB SIM CHECK	8151_SIM.M	125	1.000	14 Sep 2023	08:04 am
2) 091402.D PAH SIM CHECK	SIM_8270E-625.M	2	1.000	14 Sep 2023	08:29 am
3) 091403.D PAH SIM CHECK	SIM_8270E-625.M	2	1.000	14 Sep 2023	10:03 am
4) 091404.D CO	SCAN-8270E-625.M	3	1.000	14 Sep 2023	12:21 pm
5) 091405.D CO	SCAN-8270E-625.M	129	1.000	14 Sep 2023	12:52 pm
6) 091406.D CO	SCAN-8270E-625.M	133	1.000	14 Sep 2023	01:23 pm
7) 091407.D tune	SCAN-8270E-625.M	1	1.000	14 Sep 2023	01:53 pm
8) 091408.D CO	SCAN-8270E-625.M	3	1.000	14 Sep 2023	02:24 pm
9) 091409.D SEMI ICAL 10	SCAN-8270E-625.M	122	1.000	14 Sep 2023	02:54 pm
10) 091410.D SEMI ICAL 20	SCAN-8270E-625.M	123	1.000	14 Sep 2023	03:25 pm
11) 091411.D SEMI ICAL 40	SCAN-8270E-625.M	124	1.000	14 Sep 2023	03:55 pm
12) 091412.D SEMI ICAL 100	SCAN-8270E-625.M	125	1.000	14 Sep 2023	04:25 pm
13) 091413.D SEMI ICAL 200	SCAN-8270E-625.M	126	1.000	14 Sep 2023	04:56 pm
14) 091414.D SEMI ICAL 500	SCAN-8270E-625.M	127	1.000	14 Sep 2023	05:27 pm
15) 091415.D SEMI ICAL 750	SCAN-8270E-625.M	128	1.000	14 Sep 2023	05:57 pm
16) 091416.D SEMI ICAL 1000	SCAN-8270E-625.M	129	1.000	14 Sep 2023	06:28 pm
17) 091417.D SEMI ICAL 2000	SCAN-8270E-625.M	130	1.000	14 Sep 2023	06:59 pm
18) 091418.D SEMI ICAL 5000	SCAN-8270E-625.M	131	1.000	14 Sep 2023	07:30 pm
19) 091419.D SEMI ICV	SCAN-8270E-625.M	133	1.000	14 Sep 2023	08:00 pm
20) 091420.D SEMI ICB	SCAN-8270E-625.M	132	1.000	14 Sep 2023	08:31 pm
21) 091421.D RG SEMI IDC 1	SCAN-8270E-625.M	4	1.000	14 Sep 2023	09:02 pm
22) 091422.D RG SEMI IDC 2	SCAN-8270E-625.M	4	1.000	14 Sep 2023	09:32 pm
23) 091423.D RG SEMI IDC 3	SCAN-8270E-625.M	4	1.000	14 Sep 2023	10:03 pm
24) 091424.D RG SEMI IDC 4	SCAN-8270E-625.M	4	1.000	14 Sep 2023	10:33 pm
25) 091425.D tune	SCAN-8270E-625.M	1	1.000	14 Sep 2023	11:04 pm
26) 091426.D PAH ICAL 10	SIM_8270E-625.M	122	1.000	14 Sep 2023	11:34 pm
27) 091427.D PAH ICAL 20	SIM_8270E-625.M	123	1.000	14 Sep 2023	12:05 am

28) 091428.D PAH ICAL 40	SIM_8270E-625.M	124	1.000	15 Sep 2023	12:36 am
29) 091429.D PAH ICAL 100	SIM_8270E-625.M	125	1.000	15 Sep 2023	01:06 am
30) 091430.D PAH ICAL 200	SIM_8270E-625.M	126	1.000	15 Sep 2023	01:37 am
31) 091431.D PAH ICAL 500	SIM_8270E-625.M	127	1.000	15 Sep 2023	02:07 am
32) 091432.D PAH ICAL 750	SIM_8270E-625.M	128	1.000	15 Sep 2023	02:38 am
33) 091433.D PAH ICAL 1000	SIM_8270E-625.M	129	1.000	15 Sep 2023	03:08 am
34) 091434.D PAH ICAL 2000	SIM_8270E-625.M	130	1.000	15 Sep 2023	03:38 am
35) 091435.D PAH ICAL 5000	SIM_8270E-625.M	131	1.000	15 Sep 2023	04:09 am
36) 091436.D PAH ICV	SIM_8270E-625.M	133	1.000	15 Sep 2023	04:39 am
37) 091437.D PAH ICB	SIM_8270E-625.M	132	1.000	15 Sep 2023	05:10 am
38) 091438.D MB-41453	SIM_8270E-625.M	51	1.000	15 Sep 2023	05:40 am
39) 091439.D LCS-41453	SIM_8270E-625.M	52	1.000	15 Sep 2023	06:10 am
40) 091440.D 2309055-001A	SIM_8270E-625.M	53	1.000	15 Sep 2023	06:41 am
41) 091441.D 2309081-001A	SIM_8270E-625.M	56	1.000	15 Sep 2023	07:11 am
42) 091442.D 2309081-002A	SIM_8270E-625.M	57	1.000	15 Sep 2023	07:41 am
43) 091443.D 2309081-004A	SIM_8270E-625.M	58	1.000	15 Sep 2023	08:12 am
44) 091444.D 2309081-006A	SIM_8270E-625.M	59	1.000	15 Sep 2023	08:42 am
45) 091445.D 2309081-007A	SIM_8270E-625.M	60	1.000	15 Sep 2023	09:12 am
46) 091446.D 2309081-010A	SIM_8270E-625.M	61	1.000	15 Sep 2023	09:43 am
47) 091447.D 2309081-011A	SIM_8270E-625.M	62	1.000	15 Sep 2023	10:13 am
48) 091448.D MB-41481	SIM_8270E-625.M	71	1.000	15 Sep 2023	10:44 am
49) 091449.D LCS-41481	SIM_8270E-625.M	72	1.000	15 Sep 2023	11:14 am
50) 091450.D 2309085-001A	SIM_8270E-625.M	73	1.000	15 Sep 2023	11:45 am
51) 091451.D 2309085-002A	SIM_8270E-625.M	76	1.000	15 Sep 2023	12:16 pm
52) 091452.D 2309085-003A	SIM_8270E-625.M	77	1.000	15 Sep 2023	01:22 pm
53) 091453.D 2309085-004A	SIM_8270E-625.M	78	1.000	15 Sep 2023	01:53 pm
54) 091454.D 2309085-005A	SIM_8270E-625.M	79	1.000	15 Sep 2023	02:23 pm
55) 091455.D 2309085-006A	SIM_8270E-625.M	80	1.000	15 Sep 2023	02:54 pm
56) 091456.D 2309085-007A	SIM_8270E-625.M	81	1.000	15 Sep 2023	03:25 pm
57) 091457.D	SIM_8270E-625.M				

2309085-008A		82	1.000	15 Sep 2023	03:55 pm
58) 091458.D	SIM_8270E-625.M				
2309085-009A		83	1.000	15 Sep 2023	04:26 pm
59) 091459.D	SIM_8270E-625.M				
CCV-QCS		129	1.000	15 Sep 2023	04:57 pm
60) 091460.D	SIM_8270E-625.M				
2309117-001A		84	1.000	15 Sep 2023	05:28 pm
61) 091461.D	SIM_8270E-625.M				
2309055-001AMS		54	1.000	15 Sep 2023	05:59 pm
62) 091462.D	SIM_8270E-625.M				
2309055-001AMSD		55	1.000	15 Sep 2023	06:30 pm
63) 091463.D	SIM_8270E-625.M				
2309085-001AMS		74	1.000	15 Sep 2023	07:01 pm
64) 091464.D	SIM_8270E-625.M				
2309085-001AMSD		75	1.000	15 Sep 2023	07:32 pm
65) 091465.D	SIM_8270E-625.M				
CCV-QCS		129	1.000	15 Sep 2023	08:02 pm

Data Directory: C:\GC-14\Data\2023\091823\

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) 091401.D CO	8270E_SIM_625.M	2	1.000	14 Sep 2023 08:21 am
2) 091402.D INT CHECK	8270E_SIM_625.M	3	1.000	14 Sep 2023 09:02 am
3) 091403.D CCV-NEW TUNE	8270E_SIM_625.M	3	1.000	14 Sep 2023 10:28 am
4) 091404.D 2309081-010A	8270E_SIM_625.M	31	1.000	14 Sep 2023 10:57 am
5) 091405.D 2309081-011A	8270E_SIM_625.M	32	1.000	14 Sep 2023 11:26 am
6) 091406.D QCS	8270E_SIM_625.M	3	1.000	14 Sep 2023 11:55 am
7) 091407.D CO	8270E_SIM_625.M	3	1.000	14 Sep 2023 12:27 pm
8) 091408.D CO	8270E_SIM_625.M	3	1.000	14 Sep 2023 02:18 pm
9) 091409.D tune	8270E_SCAN_625.M	1	1.000	14 Sep 2023 02:47 pm
10) 091410.D PAH 10	8270E_SIM_625.M	12	1.000	14 Sep 2023 03:16 pm
11) 091411.D PAH 20	8270E_SIM_625.M	13	1.000	14 Sep 2023 03:45 pm
12) 091412.D PAH 40	8270E_SIM_625.M	14	1.000	14 Sep 2023 04:15 pm
13) 091413.D PAH 100	8270E_SIM_625.M	15	1.000	14 Sep 2023 04:44 pm
14) 091414.D PAH 200	8270E_SIM_625.M	16	1.000	14 Sep 2023 05:13 pm
15) 091415.D PAH 400	8270E_SIM_625.M	17	1.000	14 Sep 2023 05:42 pm
16) 091416.D PAH 750	8270E_SIM_625.M	18	1.000	14 Sep 2023 06:12 pm
17) 091417.D PAH 1000	8270E_SIM_625.M	19	1.000	14 Sep 2023 06:41 pm
18) 091418.D PAH 2000	8270E_SIM_625.M	20	1.000	14 Sep 2023 07:10 pm
19) 091419.D PAH 5000	8270E_SIM_625.M	21	1.000	14 Sep 2023 07:40 pm
20) 091420.D PAH ICB	8270E_SIM_625.M	22	1.000	14 Sep 2023 08:09 pm
21) 091421.D PAH ICV	8270E_SIM_625.M	23	1.000	14 Sep 2023 08:38 pm

22)	091422.D	8270E_SCAN_625.M	1	1.000	14 Sep 2023	09:07 pm

23)	091423.D	8270E_SIM_625_LOWLEVEL.M	11	1.000	14 Sep 2023	09:36 pm

24)	091424.D	8270E_SIM_625_LOWLEVEL.M	12	1.000	14 Sep 2023	10:05 pm

25)	091425.D	8270E_SIM_625_LOWLEVEL.M	13	1.000	14 Sep 2023	10:34 pm

26)	091426.D	8270E_SIM_625_LOWLEVEL.M	14	1.000	14 Sep 2023	11:03 pm

27)	091427.D	8270E_SIM_625_LOWLEVEL.M	15	1.000	14 Sep 2023	11:32 pm

28)	091428.D	8270E_SIM_625_LOWLEVEL.M	16	1.000	15 Sep 2023	12:01 am

29)	091429.D	8270E_SIM_625_LOWLEVEL.M	17	1.000	15 Sep 2023	12:30 am

30)	091430.D	8270E_SIM_625_LOWLEVEL.M	18	1.000	15 Sep 2023	12:59 am

31)	091431.D	8270E_SIM_625_LOWLEVEL.M	19	1.000	15 Sep 2023	01:28 am

32)	091432.D	8270E_SIM_625_LOWLEVEL.M	20	1.000	15 Sep 2023	01:57 am

33)	091433.D	8270E_SIM_625_LOWLEVEL.M	21	1.000	15 Sep 2023	02:26 am

34)	091434.D	8270E_SIM_625_LOWLEVEL.M	23	1.000	15 Sep 2023	02:55 am

35)	091435.D	8270E_SIM_625_LOWLEVEL.M	22	1.000	15 Sep 2023	03:24 am

36)	091436.D	8270E_SIM_625.M	2	1.000	15 Sep 2023	03:53 am

37)	091437.D	8270E_SIM_625.M	31	1.000	15 Sep 2023	04:22 am

38)	091438.D	8270E_SIM_625.M	32	1.000	15 Sep 2023	04:51 am

39)	091439.D	8270E_SIM_625.M	33	1.000	15 Sep 2023	05:20 am

40)	091440.D	8270E_SIM_625.M	34	1.000	15 Sep 2023	05:49 am

41)	091441.D	8270E_SIM_625.M	35	1.000	15 Sep 2023	06:17 am

42)	091442.D	8270E_SIM_625.M	36	1.000	15 Sep 2023	06:46 am

43)	091443.D	8270E_SIM_625.M	37	1.000	15 Sep 2023	07:15 am

44)	091444.D	8270E_SCAN_625.M	1	1.000	15 Sep 2023	08:11 am

45)	091455.D	8270E_SIM_625.M				

2308438-001A	20X		68	1.000	15 Sep 2023	01:31	pm
46)	091456.D	8270E_SIM_625.M					
2308438-002A			62	1.000	15 Sep 2023	02:01	pm
47)	091457.D	8270E_SIM_625.M					
CCV			2	1.000	15 Sep 2023	02:30	pm
48)	091458.D	8270E_SIM_625.M					
MB-41418			24	1.000	15 Sep 2023	03:01	pm
49)	091459.D	8270E_SIM_625.M					
new lcs check			10	1.000	15 Sep 2023	03:30	pm
50)	091460.D	8270E_SIM_625.M					
LCS-41418			25	1.000	15 Sep 2023	03:59	pm
51)	091461.D	8270E_SIM_625.M					
MDL 1 SOIL			26	1.000	15 Sep 2023	04:29	pm
52)	091462.D	8270E_SIM_625.M					
MDL 2 SOIL			27	1.000	15 Sep 2023	04:58	pm
53)	091463.D	8270E_SIM_625.M					
MDL 3 SOIL			28	1.000	15 Sep 2023	05:28	pm
54)	091464.D	8270E_SIM_625.M					
2308437-012A			86	1.000	15 Sep 2023	05:58	pm
55)	091465.D	8270E_SIM_625.M					
2308437-013A			87	1.000	15 Sep 2023	06:27	pm
56)	091466.D	8270E_SIM_625.M					
2308437-017A			88	1.000	15 Sep 2023	06:56	pm
57)	091467.D	8270E_SIM_625.M					
2308437-020A			89	1.000	15 Sep 2023	07:26	pm
58)	091468.D	8270E_SIM_625.M					
2308437-021A			90	1.000	15 Sep 2023	07:55	pm
59)	091469.D	8270E_SIM_625.M					
2308437-024A			91	1.000	15 Sep 2023	08:24	pm
60)	091470.D	8270E_SIM_625.M					
2308437-026A			92	1.000	15 Sep 2023	08:54	pm
61)	091471.D	8270E_SIM_625.M					
2308437-027A			93	1.000	15 Sep 2023	09:23	pm
62)	091472.D	8270E_SIM_625.M					
2308437-028A			94	1.000	15 Sep 2023	09:52	pm
63)	091473.D	8270E_SIM_625.M					
2308437-029A			64	1.000	15 Sep 2023	10:21	pm
64)	091474.D	8270E_SIM_625.M					
2308437-033A			65	1.000	15 Sep 2023	10:50	pm
65)	091475.D	8270E_SIM_625.M					
2308437-036A			66	1.000	15 Sep 2023	11:19	pm
66)	091476.D	8270E_SIM_625.M					
2308437-038A			67	1.000	15 Sep 2023	11:48	pm
67)	091477.D	8270E_SIM_625.M					
CCV			2	1.000	16 Sep 2023	12:17	am
68)	091801.D	8270E_SIM_625.M					
CO			2	1.000	18 Sep 2023	08:01	am

69)	091802.D	8270E_SCAN_625.M	1	1.000	18 Sep 2023	08:29	am
tune							
70)	091803.D	8270E_SIM_625.M	2	1.000	18 Sep 2023	08:58	am
CCV							
71)	091804.D	8270E_SIM_625.M	68	1.000	18 Sep 2023	09:27	am
2308438-001A	20X						
72)	091805.D	8270E_SIM_625.M	61	1.000	18 Sep 2023	10:29	am
2308438-001A							
73)	091806.D	8270E_SIM_625.M	62	1.000	18 Sep 2023	10:58	am
2308438-002A							
74)	091807.D	8270E_SIM_625.M	90	1.000	18 Sep 2023	11:27	am
2308437-021A							
75)	091808.D	8270E_SIM_625.M	91	1.000	18 Sep 2023	11:56	am
2308437-024A							
76)	091809.D	8270E_SIM_625.M	92	1.000	18 Sep 2023	12:25	pm
2308437-026A							
77)	091810.D	8270E_SIM_625.M	93	1.000	18 Sep 2023	12:54	pm
2308437-027A							
78)	091811.D	8270E_SIM_625.M	94	1.000	18 Sep 2023	01:25	pm
2308437-028A							
79)	091812.D	8270E_SCAN_625.M	1	1.000	18 Sep 2023	01:54	pm
tune							
80)	091813.D	8270E_SIM_625.M	2	1.000	18 Sep 2023	02:23	pm
CCV							
81)	091814.D	8270E_SIM_625.M	11	1.000	18 Sep 2023	02:53	pm
MB-41486							
82)	091815.D	8270E_SIM_625.M	94	1.000	18 Sep 2023	03:22	pm
2308437-028A							
83)	091816.D	8270E_SIM_625.M	12	1.000	18 Sep 2023	03:51	pm
LCS-41486							
84)	091817.D	8270E_SIM_625.M	16	1.000	18 Sep 2023	04:20	pm
MDL 1 water							
85)	091818.D	8270E_SIM_625.M	17	1.000	18 Sep 2023	04:49	pm
MDL 2							
86)	091819.D	8270E_SIM_625.M	18	1.000	18 Sep 2023	05:18	pm
MDL 3							
87)	091820.D	8270E_SIM_625.M	31	1.000	18 Sep 2023	05:48	pm
MB-41489							
88)	091821.D	8270E_SIM_625.M	32	1.000	18 Sep 2023	06:17	pm
LCS-41489							
89)	091822.D	8270E_SIM_625.M	53	1.000	18 Sep 2023	06:46	pm
MDL 1 soil							
90)	091823.D	8270E_SIM_625.M	54	1.000	18 Sep 2023	07:15	pm
MDL 2							
91)	091824.D	8270E_SIM_625.M	55	1.000	18 Sep 2023	07:44	pm
MDL 3							

92) 091825.D 2309111-001B	8270E_SIM_625.M	13	1.000	18 Sep 2023	08:13 pm
93) 091826.D 2309140-001A	8270E_SIM_625.M	14	1.000	18 Sep 2023	08:42 pm
94) 091827.D 2309140-001ADUP	8270E_SIM_625.M	15	1.000	18 Sep 2023	09:11 pm
95) 091828.D 2309172-001C	8270E_SIM_625.M	19	1.000	18 Sep 2023	09:40 pm
96) 091829.D 2309172-002C	8270E_SIM_625.M	20	1.000	18 Sep 2023	10:08 pm
97) 091830.D 2309172-003C	8270E_SIM_625.M	21	1.000	18 Sep 2023	10:37 pm
98) 091831.D 2309172-004C	8270E_SIM_625.M	22	1.000	18 Sep 2023	11:06 pm
99) 091832.D 2309172-005C	8270E_SIM_625.M	23	1.000	18 Sep 2023	11:35 pm
100) 091833.D 2309178-001C	8270E_SIM_625.M	24	1.000	19 Sep 2023	12:04 am
101) 091834.D CCV	8270E_SIM_625.M	2	1.000	19 Sep 2023	12:33 am
102) 091835.D 2308437-029A	8270E_SIM_625.M	64	1.000	19 Sep 2023	01:02 am
103) 091836.D 2308437-033A	8270E_SIM_625.M	65	1.000	19 Sep 2023	01:30 am
104) 091837.D 2308437-036A	8270E_SIM_625.M	66	1.000	19 Sep 2023	01:59 am
105) 091838.D 2308437-038A	8270E_SIM_625.M	67	1.000	19 Sep 2023	02:28 am
106) 091839.D 2309120-001A	8270E_SIM_625.M	33	1.000	19 Sep 2023	02:57 am
107) 091840.D 2309120-002A	8270E_SIM_625.M	34	1.000	19 Sep 2023	03:25 am
108) 091841.D 2309120-003A	8270E_SIM_625.M	35	1.000	19 Sep 2023	03:54 am
109) 091842.D 2309120-004A	8270E_SIM_625.M	36	1.000	19 Sep 2023	04:23 am
110) 091843.D 2309120-005A	8270E_SIM_625.M	37	1.000	19 Sep 2023	04:52 am
111) 091844.D 2309120-006A	8270E_SIM_625.M	38	1.000	19 Sep 2023	05:20 am
112) 091845.D 2309120-007A	8270E_SIM_625.M	39	1.000	19 Sep 2023	05:49 am
113) 091846.D 2309120-007AMS	8270E_SIM_625.M	40	1.000	19 Sep 2023	06:18 am
114) 091847.D 2309120-007AMSD	8270E_SIM_625.M	41	1.000	19 Sep 2023	06:47 am
115) 091848.D	8270E_SIM_625.M				

2309120-008A		42	1.000	19 Sep 2023	07:15	am
116) 091849.D	8270E_SIM_625.M					
2309120-009A		43	1.000	19 Sep 2023	07:44	am
117) 091850.D	8270E_SIM_625.M					
2309120-010A		44	1.000	19 Sep 2023	08:13	am
118) 091851.D	8270E_SCAN_625.M					
tune		1	1.000	19 Sep 2023	08:42	am
119) 091852.D	8270E_SIM_625.M					
CCV		2	1.000	19 Sep 2023	09:10	am
120) 091853.D	8270E_SIM_625.M					
2309120-011A		45	1.000	19 Sep 2023	09:49	am
121) 091854.D	8270E_SIM_625.M					
2309125-001A		46	1.000	19 Sep 2023	10:19	am
122) 091855.D	8270E_SIM_625.M					
2309125-002A		47	1.000	19 Sep 2023	10:48	am
123) 091856.D	8270E_SIM_625.M					
MB-41510		11	1.000	19 Sep 2023	12:09	pm
124) 091857.D	8270E_SIM_625.M					
LCS-41510		12	1.000	19 Sep 2023	12:38	pm
125) 091858.D	8270E_SIM_625.M					
2309195-001A		19	1.000	19 Sep 2023	01:34	pm
126) 091859.D	8270E_SIM_625.M					
2309081-012A		13	1.000	19 Sep 2023	02:03	pm
127) 091860.D	8270E_SIM_625.M					
2309081-012AMS		14	1.000	19 Sep 2023	02:32	pm
128) 091861.D	8270E_SIM_625.M					
2309081-012AMSD		15	1.000	19 Sep 2023	03:01	pm
129) 091862.D	8270E_SIM_625.M					
2309125-003A		48	1.000	19 Sep 2023	03:37	pm
130) 091863.D	8270E_SIM_625.M					
2309125-004A		49	1.000	19 Sep 2023	04:07	pm
131) 091864.D	8270E_SIM_625.M					
2309125-005A		50	1.000	19 Sep 2023	04:36	pm
132) 091865.D	8270E_SIM_625.M					
2309125-006A		51	1.000	19 Sep 2023	05:05	pm
133) 091866.D	8270E_SIM_625.M					
2309125-007A		52	1.000	19 Sep 2023	05:34	pm
134) 091867.D	8270E_SIM_625.M					
2309182-001A		16	1.000	19 Sep 2023	06:04	pm
135) 091868.D	8270E_SIM_625.M					
2309182-002A		17	1.000	19 Sep 2023	06:33	pm
136) 091869.D	8270E_SIM_625.M					
2309182-003A		18	1.000	19 Sep 2023	07:02	pm
137) 091870.D	8270E_SIM_625.M					
CCV		2	1.000	19 Sep 2023	07:31	pm
138) 092003.D	8270E_SIM_625.M					
CCV		2	1.000	20 Sep 2023	09:03	am

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139) 092004.D          8270E_SIM_625.M  
2309182-002A 10x          21    1.000    20 Sep 2023  09:32 am  
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140) 092005.D          8270E_SIM_625.M  
2309182-003A 10x          22    1.000    20 Sep 2023  10:01 am  
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141) 092006.D          8270E_SIM_625.M  
CCV                        2    1.000    20 Sep 2023  10:30 am  
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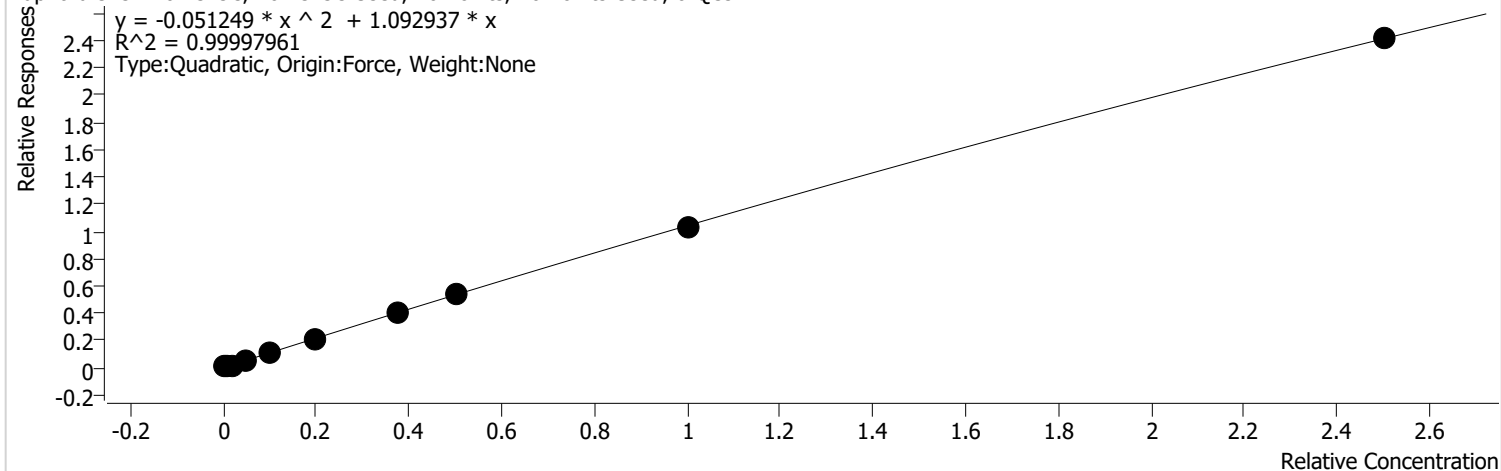


Calibration

Batch Path	D:\GC-21\Data\2023\091423\QuantResults\PAH ICAL.batch.bin		
Analysis Time	9/15/2023 9:48:13 AM	Analyst Name	FA\GC1821
Report Time	9/15/2023 9:54:51 AM	Reporter Name	GC1821
Last Calib Update	9/15/2023 9:27:23 AM	Batch State	Processed

Naphthalene

Naphthalene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs

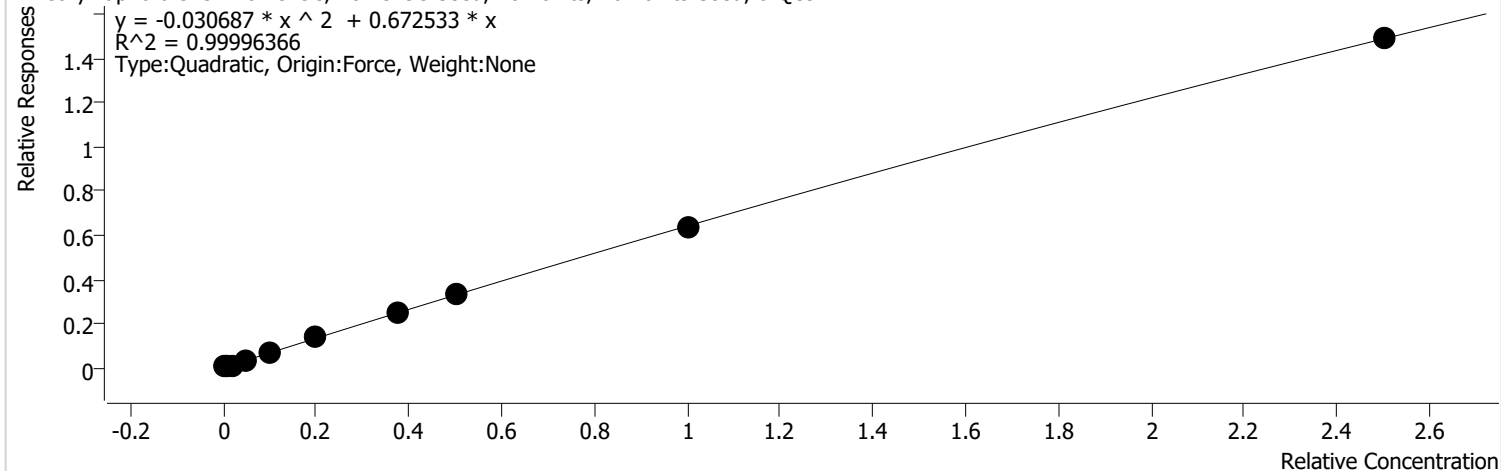


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
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D:\GC-21\Data\2023\091423\091428.D	Calibration	3	x	19812	40.0000	1.0104
D:\GC-21\Data\2023\091423\091429.D	Calibration	4	x	48917	100.0000	0.9798
D:\GC-21\Data\2023\091423\091430.D	Calibration	5	x	100121	200.0000	1.0232
D:\GC-21\Data\2023\091423\091431.D	Calibration	6	x	210901	400.0000	1.0834
D:\GC-21\Data\2023\091423\091432.D	Calibration	7	x	411827	750.0000	1.0797
D:\GC-21\Data\2023\091423\091433.D	Calibration	8	x	547188	1000.0000	1.0756
D:\GC-21\Data\2023\091423\091434.D	Calibration	9	x	1080346	2000.0000	1.0392
D:\GC-21\Data\2023\091423\091435.D	Calibration	10	x	2554094	5000.0000	0.9649

Batch Path	D:\GC-21\Data\2023\091423\QuantResults\PAH ICAL.batch.bin		
Analysis Time	9/15/2023 9:48:13 AM	Analyst Name	FA\GC1821
Report Time	9/15/2023 9:54:52 AM	Reporter Name	GC1821
Last Calib Update	9/15/2023 9:27:23 AM	Batch State	Processed

2-Methylnaphthalene

2-Methylnaphthalene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs

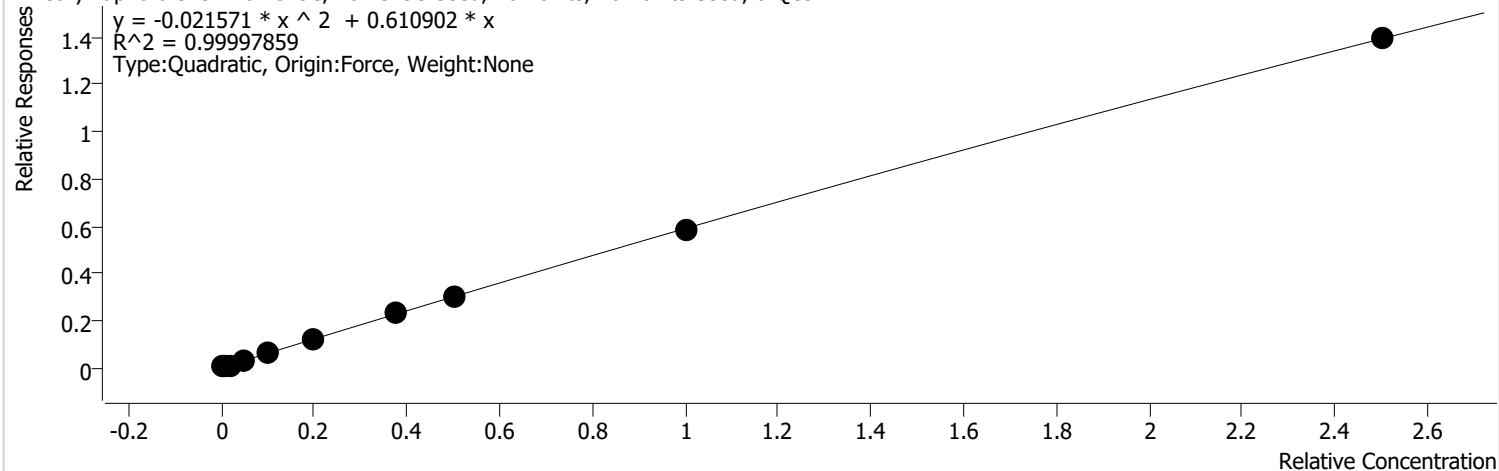


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
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D:\GC-21\Data\2023\091423\091428.D	Calibration	3	x	11901	40.0000	0.6069
D:\GC-21\Data\2023\091423\091429.D	Calibration	4	x	29974	100.0000	0.6004
D:\GC-21\Data\2023\091423\091430.D	Calibration	5	x	61821	200.0000	0.6318
D:\GC-21\Data\2023\091423\091431.D	Calibration	6	x	131624	400.0000	0.6762
D:\GC-21\Data\2023\091423\091432.D	Calibration	7	x	255388	750.0000	0.6695
D:\GC-21\Data\2023\091423\091433.D	Calibration	8	x	338031	1000.0000	0.6645
D:\GC-21\Data\2023\091423\091434.D	Calibration	9	x	663305	2000.0000	0.6381
D:\GC-21\Data\2023\091423\091435.D	Calibration	10	x	1577546	5000.0000	0.5960

Batch Path	D:\GC-21\Data\2023\091423\QuantResults\PAH ICAL.batch.bin		
Analysis Time	9/15/2023 9:48:13 AM	Analyst Name	FA\GC1821
Report Time	9/15/2023 9:54:52 AM	Reporter Name	GC1821
Last Calib Update	9/15/2023 9:27:23 AM	Batch State	Processed

1-Methylnaphthalene

1-Methylnaphthalene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



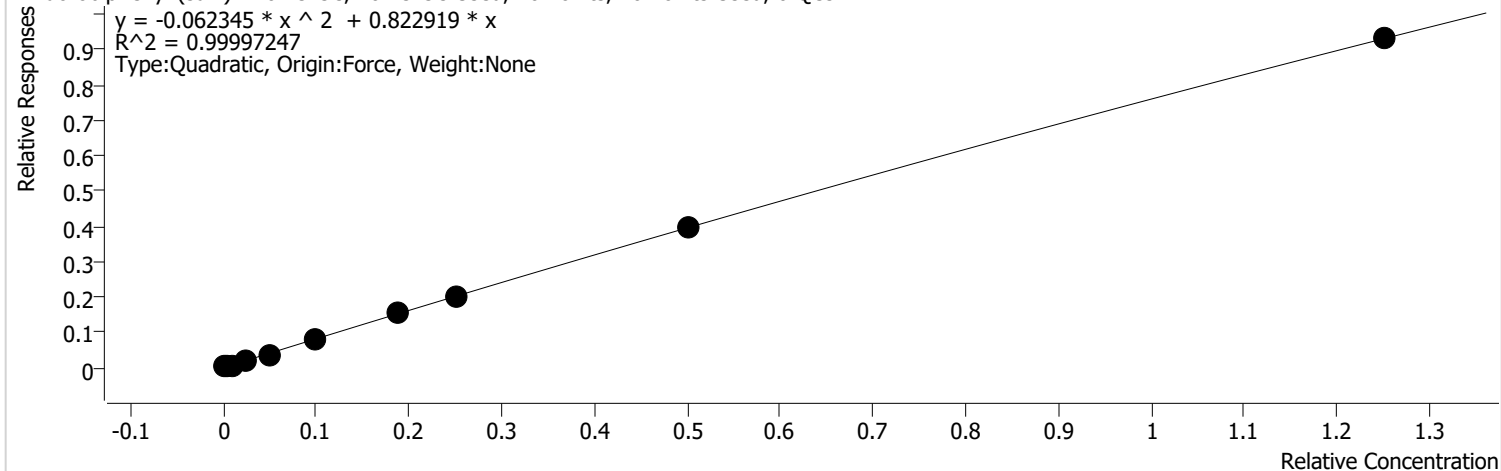
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
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D:\GC-21\Data\2023\091423\091432.D	Calibration	7	x	232139	750.0000	0.6086
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Calibration Report

Batch Path	D:\GC-21\Data\2023\091423\QuantResults\PAH ICAL.batch.bin		
Analysis Time	9/15/2023 9:48:13 AM	Analyst Name	FA\GC1821
Report Time	9/15/2023 9:54:52 AM	Reporter Name	GC1821
Last Calib Update	9/15/2023 9:27:23 AM	Batch State	Processed

2-Fluorobiphenyl (surr)

2-Fluorobiphenyl (surr) - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs

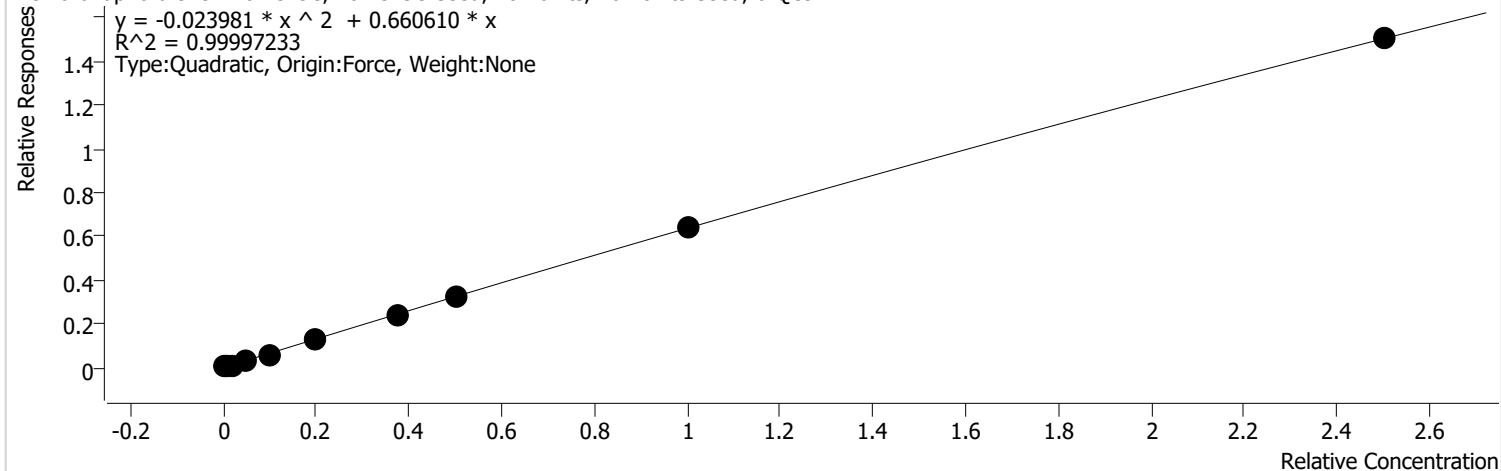


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-21\Data\2023\091423\091426.D	Calibration	1	x	1990	5.0000	0.7800
D:\GC-21\Data\2023\091423\091427.D	Calibration	2	x	3569	10.0000	0.7275
D:\GC-21\Data\2023\091423\091428.D	Calibration	3	x	7450	20.0000	0.7599
D:\GC-21\Data\2023\091423\091429.D	Calibration	4	x	18300	50.0000	0.7331
D:\GC-21\Data\2023\091423\091430.D	Calibration	5	x	36786	100.0000	0.7519
D:\GC-21\Data\2023\091423\091431.D	Calibration	6	x	78575	200.0000	0.8073
D:\GC-21\Data\2023\091423\091432.D	Calibration	7	x	155499	375.0000	0.8153
D:\GC-21\Data\2023\091423\091433.D	Calibration	8	x	206894	500.0000	0.8134
D:\GC-21\Data\2023\091423\091434.D	Calibration	9	x	411137	1000.0000	0.7910
D:\GC-21\Data\2023\091423\091435.D	Calibration	10	x	985999	2500.0000	0.7450

Batch Path	D:\GC-21\Data\2023\091423\QuantResults\PAH ICAL.batch.bin		
Analysis Time	9/15/2023 9:48:13 AM	Analyst Name	FA\GC1821
Report Time	9/15/2023 9:54:52 AM	Reporter Name	GC1821
Last Calib Update	9/15/2023 9:27:23 AM	Batch State	Processed

2-Chloronaphthalene

2-Chloronaphthalene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



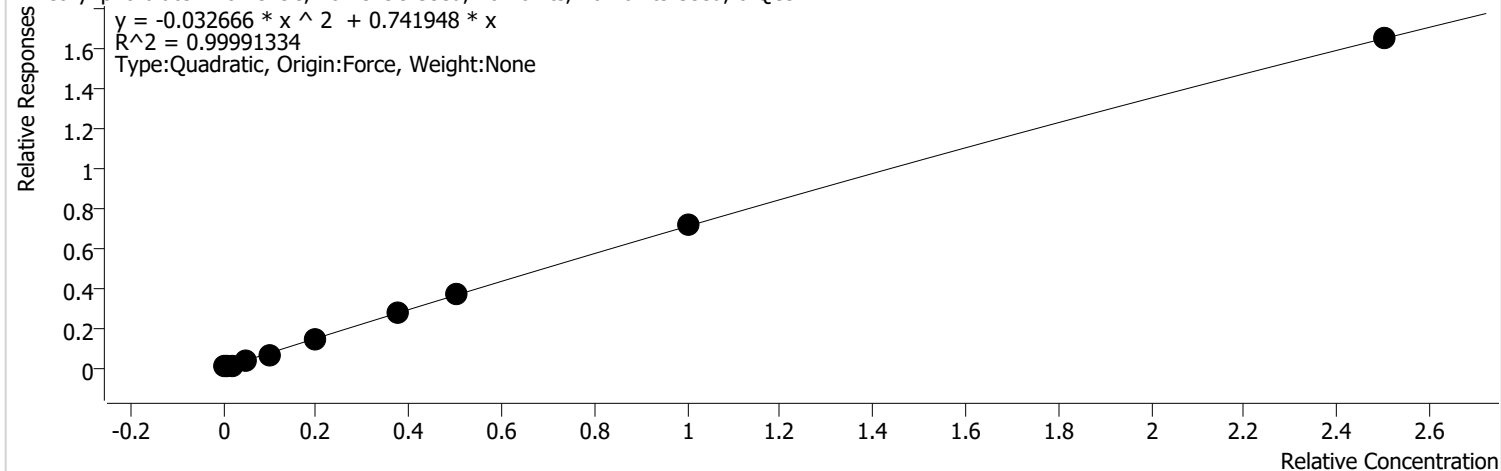
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-21\Data\2023\091423\091426.D	Calibration	1	x	2907	10.0000	0.5698
D:\GC-21\Data\2023\091423\091427.D	Calibration	2	x	5777	20.0000	0.5888
D:\GC-21\Data\2023\091423\091428.D	Calibration	3	x	11456	40.0000	0.5843
D:\GC-21\Data\2023\091423\091429.D	Calibration	4	x	29038	100.0000	0.5816
D:\GC-21\Data\2023\091423\091430.D	Calibration	5	x	59104	200.0000	0.6041
D:\GC-21\Data\2023\091423\091431.D	Calibration	6	x	125879	400.0000	0.6467
D:\GC-21\Data\2023\091423\091432.D	Calibration	7	x	248745	750.0000	0.6521
D:\GC-21\Data\2023\091423\091433.D	Calibration	8	x	331908	1000.0000	0.6525
D:\GC-21\Data\2023\091423\091434.D	Calibration	9	x	662263	2000.0000	0.6371
D:\GC-21\Data\2023\091423\091435.D	Calibration	10	x	1589825	5000.0000	0.6006

Calibration Report

Batch Path	D:\GC-21\Data\2023\091423\QuantResults\PAH ICAL.batch.bin		
Analysis Time	9/15/2023 9:48:13 AM	Analyst Name	FA\GC1821
Report Time	9/15/2023 9:54:52 AM	Reporter Name	GC1821
Last Calib Update	9/15/2023 9:27:23 AM	Batch State	Processed

Dimethyl phthalate

Dimethyl phthalate - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



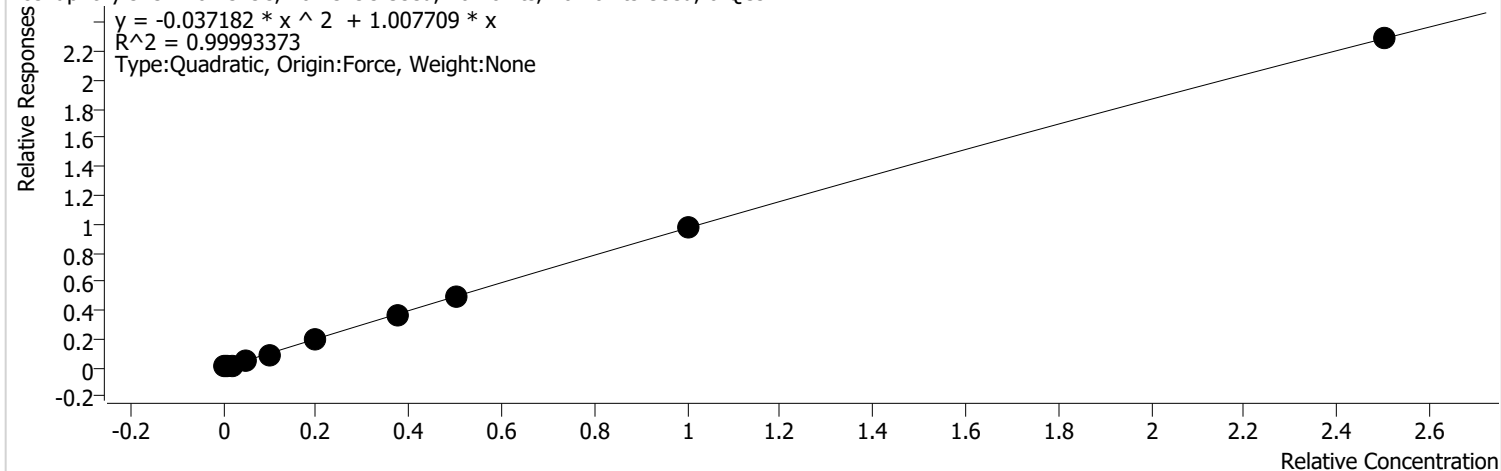
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-21\Data\2023\091423\091426.D	Calibration	1	x	3239	10.0000	0.6348
D:\GC-21\Data\2023\091423\091427.D	Calibration	2	x	6212	20.0000	0.6331
D:\GC-21\Data\2023\091423\091428.D	Calibration	3	x	12234	40.0000	0.6239
D:\GC-21\Data\2023\091423\091429.D	Calibration	4	x	30639	100.0000	0.6137
D:\GC-21\Data\2023\091423\091430.D	Calibration	5	x	62613	200.0000	0.6399
D:\GC-21\Data\2023\091423\091431.D	Calibration	6	x	137147	400.0000	0.7045
D:\GC-21\Data\2023\091423\091432.D	Calibration	7	x	276334	750.0000	0.7245
D:\GC-21\Data\2023\091423\091433.D	Calibration	8	x	373020	1000.0000	0.7333
D:\GC-21\Data\2023\091423\091434.D	Calibration	9	x	740026	2000.0000	0.7119
D:\GC-21\Data\2023\091423\091435.D	Calibration	10	x	1747300	5000.0000	0.6601

Calibration Report

Batch Path	D:\GC-21\Data\2023\091423\QuantResults\PAH ICAL.batch.bin		
Analysis Time	9/15/2023 9:48:13 AM	Analyst Name	FA\GC1821
Report Time	9/15/2023 9:54:52 AM	Reporter Name	GC1821
Last Calib Update	9/15/2023 9:27:23 AM	Batch State	Processed

Acenaphthylene

Acenaphthylene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



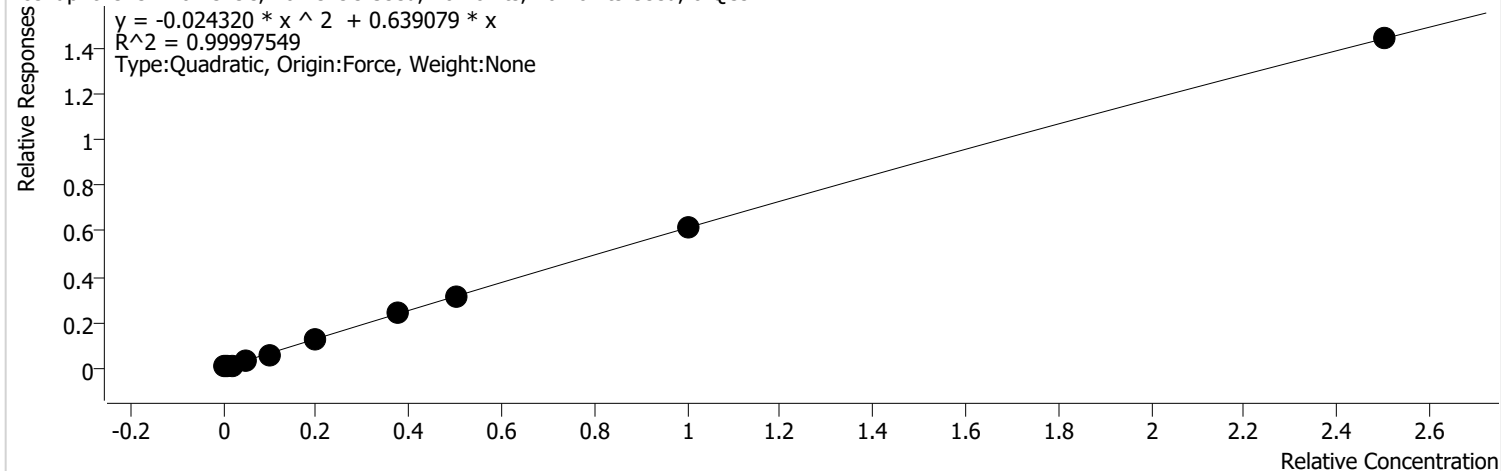
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-21\Data\2023\091423\091426.D	Calibration	1	x	4318	10.0000	0.8463
D:\GC-21\Data\2023\091423\091427.D	Calibration	2	x	8201	20.0000	0.8358
D:\GC-21\Data\2023\091423\091428.D	Calibration	3	x	16535	40.0000	0.8433
D:\GC-21\Data\2023\091423\091429.D	Calibration	4	x	41411	100.0000	0.8295
D:\GC-21\Data\2023\091423\091430.D	Calibration	5	x	86170	200.0000	0.8807
D:\GC-21\Data\2023\091423\091431.D	Calibration	6	x	188414	400.0000	0.9679
D:\GC-21\Data\2023\091423\091432.D	Calibration	7	x	379119	750.0000	0.9939
D:\GC-21\Data\2023\091423\091433.D	Calibration	8	x	506787	1000.0000	0.9962
D:\GC-21\Data\2023\091423\091434.D	Calibration	9	x	1011436	2000.0000	0.9729
D:\GC-21\Data\2023\091423\091435.D	Calibration	10	x	2420889	5000.0000	0.9146

Calibration Report

Batch Path	D:\GC-21\Data\2023\091423\QuantResults\PAH ICAL.batch.bin		
Analysis Time	9/15/2023 9:48:13 AM	Analyst Name	FA\GC1821
Report Time	9/15/2023 9:54:52 AM	Reporter Name	GC1821
Last Calib Update	9/15/2023 9:27:23 AM	Batch State	Processed

Acenaphthene

Acenaphthene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



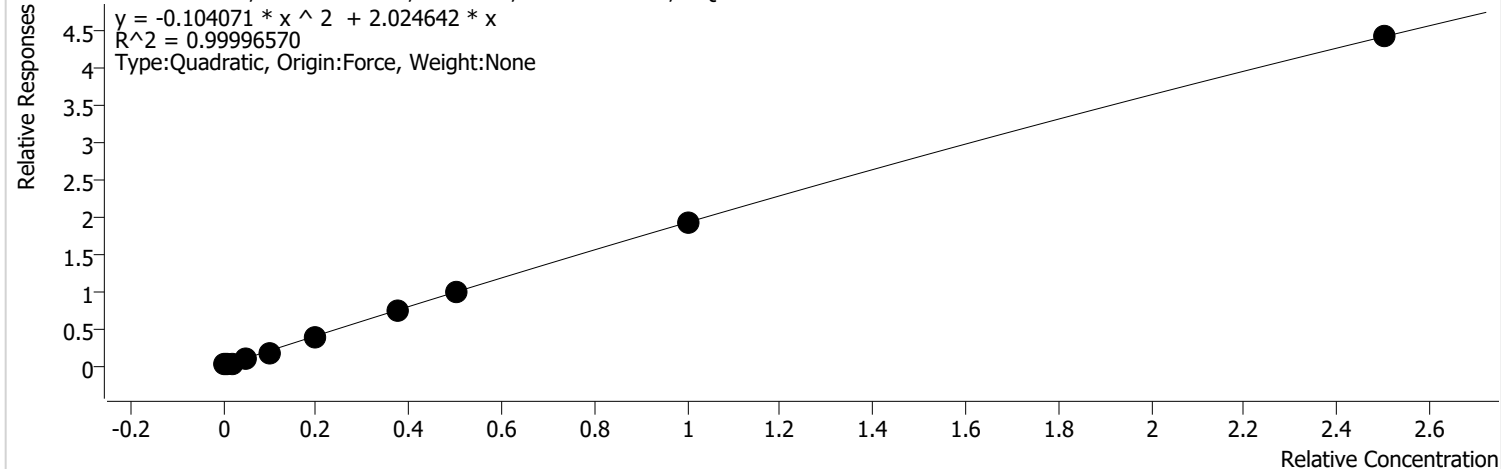
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-21\Data\2023\091423\091426.D	Calibration	1	x	3071	10.0000	0.6019
D:\GC-21\Data\2023\091423\091427.D	Calibration	2	x	5805	20.0000	0.5916
D:\GC-21\Data\2023\091423\091428.D	Calibration	3	x	11624	40.0000	0.5928
D:\GC-21\Data\2023\091423\091429.D	Calibration	4	x	28498	100.0000	0.5708
D:\GC-21\Data\2023\091423\091430.D	Calibration	5	x	57850	200.0000	0.5912
D:\GC-21\Data\2023\091423\091431.D	Calibration	6	x	122099	400.0000	0.6272
D:\GC-21\Data\2023\091423\091432.D	Calibration	7	x	242285	750.0000	0.6352
D:\GC-21\Data\2023\091423\091433.D	Calibration	8	x	321200	1000.0000	0.6314
D:\GC-21\Data\2023\091423\091434.D	Calibration	9	x	637966	2000.0000	0.6137
D:\GC-21\Data\2023\091423\091435.D	Calibration	10	x	1530783	5000.0000	0.5783

Calibration Report

Batch Path	D:\GC-21\Data\2023\091423\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC1821
Analysis Time	9/15/2023 9:48:13 AM	Reporter Name	GC1821
Report Time	9/15/2023 9:54:52 AM	Batch State	Processed
Last Calib Update	9/15/2023 9:27:23 AM		

Dibenzofuran

Dibenzofuran - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs

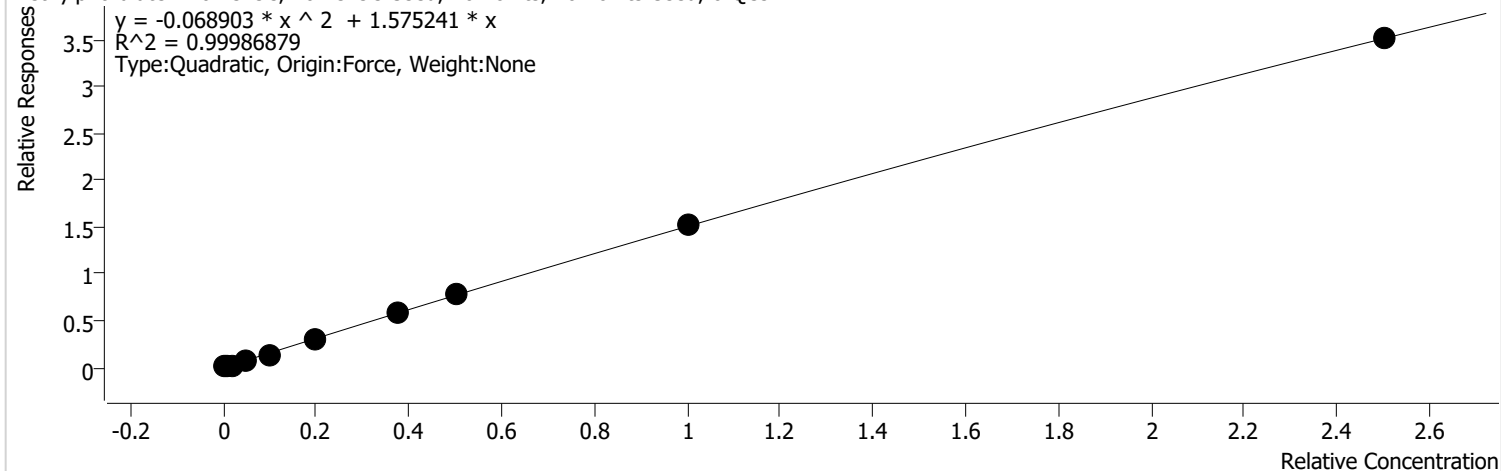


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-21\Data\2023\091423\091426.D	Calibration	1	x	4244	10.0000	1.7671
D:\GC-21\Data\2023\091423\091427.D	Calibration	2	x	8219	20.0000	1.7824
D:\GC-21\Data\2023\091423\091428.D	Calibration	3	x	16436	40.0000	1.7934
D:\GC-21\Data\2023\091423\091429.D	Calibration	4	x	40992	100.0000	1.7741
D:\GC-21\Data\2023\091423\091430.D	Calibration	5	x	83227	200.0000	1.8465
D:\GC-21\Data\2023\091423\091431.D	Calibration	6	x	177829	400.0000	1.9713
D:\GC-21\Data\2023\091423\091432.D	Calibration	7	x	350031	750.0000	1.9938
D:\GC-21\Data\2023\091423\091433.D	Calibration	8	x	465025	1000.0000	1.9898
D:\GC-21\Data\2023\091423\091434.D	Calibration	9	x	913744	2000.0000	1.9191
D:\GC-21\Data\2023\091423\091435.D	Calibration	10	x	2156429	5000.0000	1.7644

Batch Path	D:\GC-21\Data\2023\091423\QuantResults\PAH ICAL.batch.bin		
Analysis Time	9/15/2023 9:48:13 AM	Analyst Name	FA\GC1821
Report Time	9/15/2023 9:54:52 AM	Reporter Name	GC1821
Last Calib Update	9/15/2023 9:27:23 AM	Batch State	Processed

Diethylphthalate

Diethylphthalate - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs

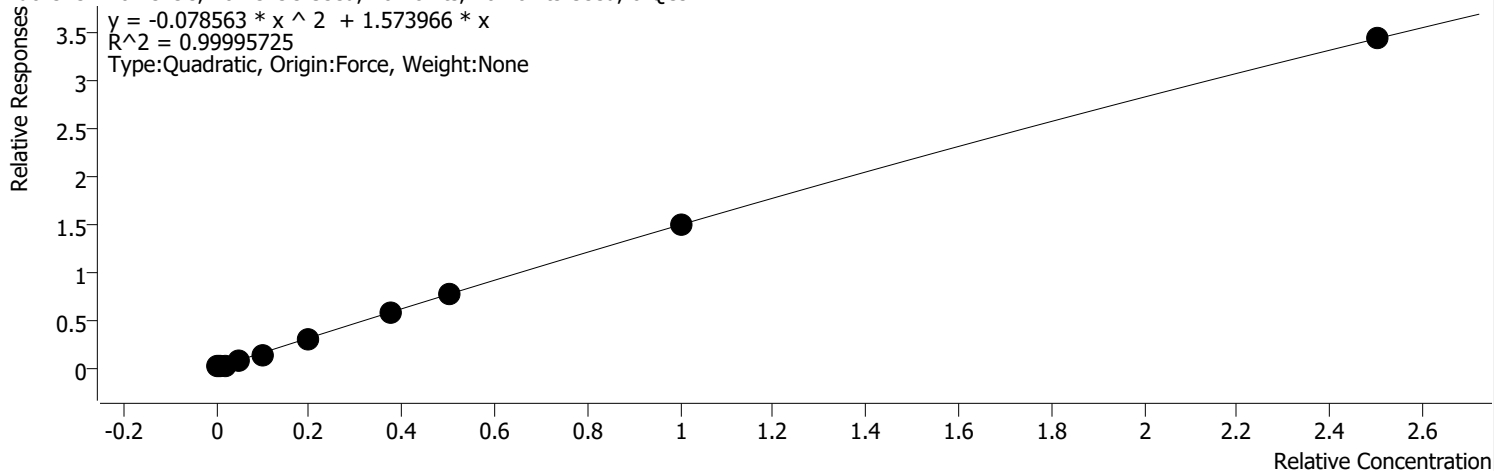


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-21\Data\2023\091423\091426.D	Calibration	1	x	3060	10.0000	1.2741
D:\GC-21\Data\2023\091423\091427.D	Calibration	2	x	5797	20.0000	1.2571
D:\GC-21\Data\2023\091423\091428.D	Calibration	3	x	11410	40.0000	1.2450
D:\GC-21\Data\2023\091423\091429.D	Calibration	4	x	28960	100.0000	1.2534
D:\GC-21\Data\2023\091423\091430.D	Calibration	5	x	59570	200.0000	1.3216
D:\GC-21\Data\2023\091423\091431.D	Calibration	6	x	132663	400.0000	1.4707
D:\GC-21\Data\2023\091423\091432.D	Calibration	7	x	269476	750.0000	1.5350
D:\GC-21\Data\2023\091423\091433.D	Calibration	8	x	361829	1000.0000	1.5482
D:\GC-21\Data\2023\091423\091434.D	Calibration	9	x	722693	2000.0000	1.5178
D:\GC-21\Data\2023\091423\091435.D	Calibration	10	x	1713853	5000.0000	1.4023

Batch Path	D:\GC-21\Data\2023\091423\QuantResults\PAH ICAL.batch.bin		
Analysis Time	9/15/2023 9:48:13 AM	Analyst Name	FA\GC1821
Report Time	9/15/2023 9:54:52 AM	Reporter Name	GC1821
Last Calib Update	9/15/2023 9:27:23 AM	Batch State	Processed

Fluorene

Fluorene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs

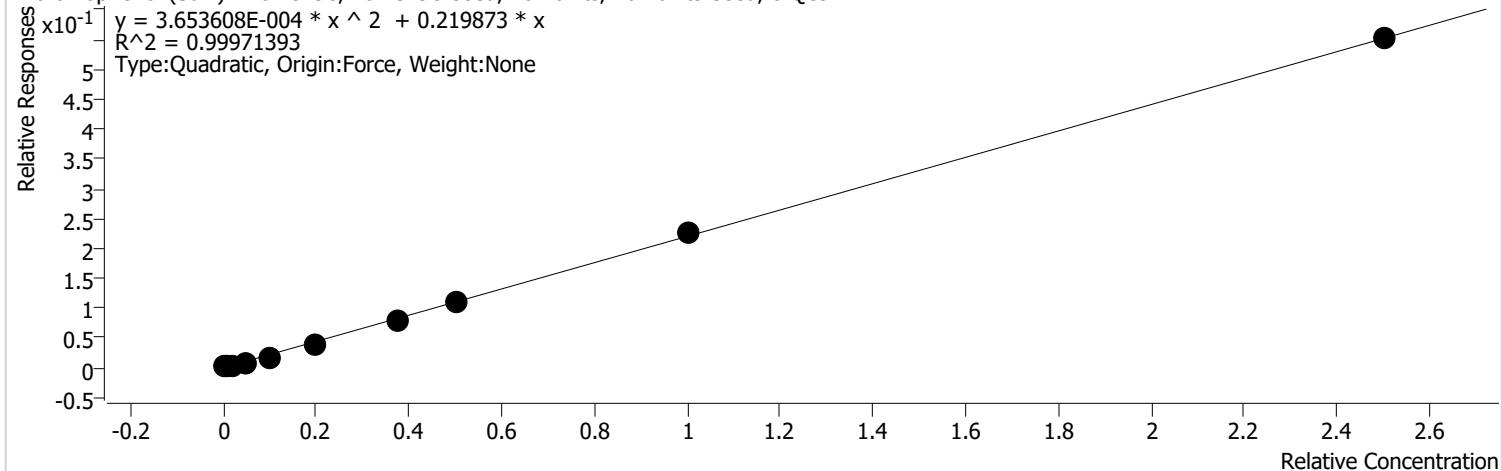


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-21\Data\2023\091423\091426.D	Calibration	1	x	3299	10.0000	1.3739
D:\GC-21\Data\2023\091423\091427.D	Calibration	2	x	6324	20.0000	1.3716
D:\GC-21\Data\2023\091423\091428.D	Calibration	3	x	12506	40.0000	1.3645
D:\GC-21\Data\2023\091423\091429.D	Calibration	4	x	31324	100.0000	1.3557
D:\GC-21\Data\2023\091423\091430.D	Calibration	5	x	64111	200.0000	1.4224
D:\GC-21\Data\2023\091423\091431.D	Calibration	6	x	138046	400.0000	1.5303
D:\GC-21\Data\2023\091423\091432.D	Calibration	7	x	272317	750.0000	1.5512
D:\GC-21\Data\2023\091423\091433.D	Calibration	8	x	362377	1000.0000	1.5506
D:\GC-21\Data\2023\091423\091434.D	Calibration	9	x	711274	2000.0000	1.4939
D:\GC-21\Data\2023\091423\091435.D	Calibration	10	x	1683583	5000.0000	1.3775

Batch Path	D:\GC-21\Data\2023\091423\QuantResults\PAH ICAL.batch.bin		
Analysis Time	9/15/2023 9:48:13 AM	Analyst Name	FA\GC1821
Report Time	9/15/2023 9:54:52 AM	Reporter Name	GC1821
Last Calib Update	9/15/2023 9:27:23 AM	Batch State	Processed

Tribromophenol (Surr)

Tribromophenol (Surr) - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



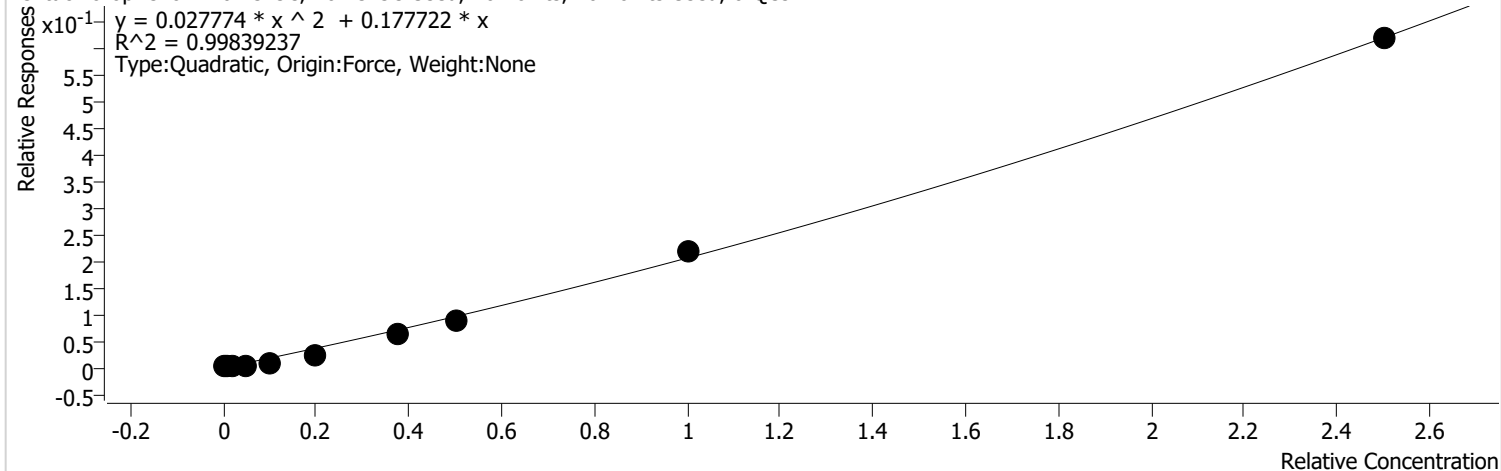
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-21\Data\2023\091423\091426.D	Calibration	1	x	390	10.0000	0.1625
D:\GC-21\Data\2023\091423\091427.D	Calibration	2	x	731	20.0000	0.1585
D:\GC-21\Data\2023\091423\091428.D	Calibration	3	x	1425	40.0000	0.1554
D:\GC-21\Data\2023\091423\091429.D	Calibration	4	x	3952	100.0000	0.1710
D:\GC-21\Data\2023\091423\091430.D	Calibration	5	x	7881	200.0000	0.1748
D:\GC-21\Data\2023\091423\091431.D	Calibration	6	x	17895	400.0000	0.1984
D:\GC-21\Data\2023\091423\091432.D	Calibration	7	x	37173	750.0000	0.2117
D:\GC-21\Data\2023\091423\091433.D	Calibration	8	x	51127	1000.0000	0.2188
D:\GC-21\Data\2023\091423\091434.D	Calibration	9	x	106946	2000.0000	0.2246
D:\GC-21\Data\2023\091423\091435.D	Calibration	10	x	269561	5000.0000	0.2206

Calibration Report

Batch Path	D:\GC-21\Data\2023\091423\QuantResults\PAH ICAL.batch.bin		
Analysis Time	9/15/2023 9:48:13 AM	Analyst Name	FA\GC1821
Report Time	9/15/2023 9:54:52 AM	Reporter Name	GC1821
Last Calib Update	9/15/2023 9:27:23 AM	Batch State	Processed

Pentachlorophenol

Pentachlorophenol - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs

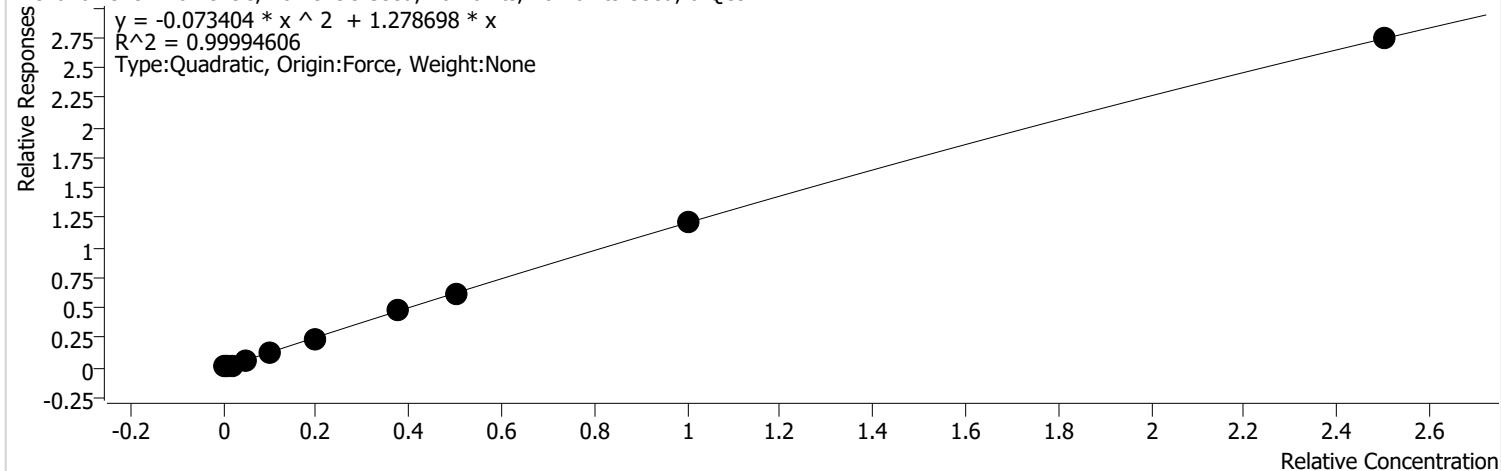


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-21\Data\2023\091423\091426.D	Calibration	1	x	532	10.0000	0.2216
D:\GC-21\Data\2023\091423\091427.D	Calibration	2	x	606	20.0000	0.1313
D:\GC-21\Data\2023\091423\091428.D	Calibration	3	x	873	40.0000	0.0953
D:\GC-21\Data\2023\091423\091429.D	Calibration	4	x	1770	100.0000	0.0766
D:\GC-21\Data\2023\091423\091430.D	Calibration	5	x	4238	200.0000	0.0940
D:\GC-21\Data\2023\091423\091431.D	Calibration	6	x	11256	400.0000	0.1248
D:\GC-21\Data\2023\091423\091432.D	Calibration	7	x	28992	750.0000	0.1651
D:\GC-21\Data\2023\091423\091433.D	Calibration	8	x	42185	1000.0000	0.1805
D:\GC-21\Data\2023\091423\091434.D	Calibration	9	x	104382	2000.0000	0.2192
D:\GC-21\Data\2023\091423\091435.D	Calibration	10	x	301241	5000.0000	0.2465

Batch Path	D:\GC-21\Data\2023\091423\QuantResults\PAH ICAL.batch.bin		
Analysis Time	9/15/2023 9:48:13 AM	Analyst Name	FA\GC1821
Report Time	9/15/2023 9:54:52 AM	Reporter Name	GC1821
Last Calib Update	9/15/2023 9:27:23 AM	Batch State	Processed

Phenanthrene

Phenanthrene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs

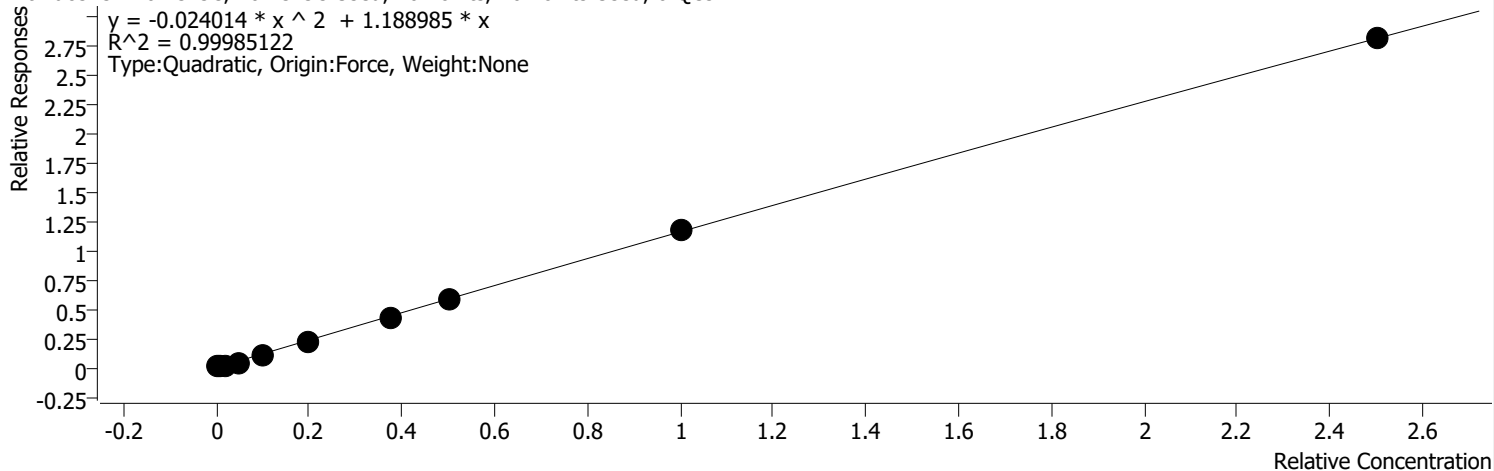


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-21\Data\2023\091423\091426.D	Calibration	1	x	4616	10.0000	1.1146
D:\GC-21\Data\2023\091423\091427.D	Calibration	2	x	8836	20.0000	1.0961
D:\GC-21\Data\2023\091423\091428.D	Calibration	3	x	17726	40.0000	1.1131
D:\GC-21\Data\2023\091423\091429.D	Calibration	4	x	44695	100.0000	1.0959
D:\GC-21\Data\2023\091423\091430.D	Calibration	5	x	90519	200.0000	1.1543
D:\GC-21\Data\2023\091423\091431.D	Calibration	6	x	197151	400.0000	1.2257
D:\GC-21\Data\2023\091423\091432.D	Calibration	7	x	401235	750.0000	1.2722
D:\GC-21\Data\2023\091423\091433.D	Calibration	8	x	517720	1000.0000	1.2399
D:\GC-21\Data\2023\091423\091434.D	Calibration	9	x	1028959	2000.0000	1.2069
D:\GC-21\Data\2023\091423\091435.D	Calibration	10	x	2339159	5000.0000	1.0951

Batch Path	D:\GC-21\Data\2023\091423\QuantResults\PAH ICAL.batch.bin		
Analysis Time	9/15/2023 9:48:13 AM	Analyst Name	FA\GC1821
Report Time	9/15/2023 9:54:52 AM	Reporter Name	GC1821
Last Calib Update	9/15/2023 9:27:23 AM	Batch State	Processed

Anthracene

Anthracene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs

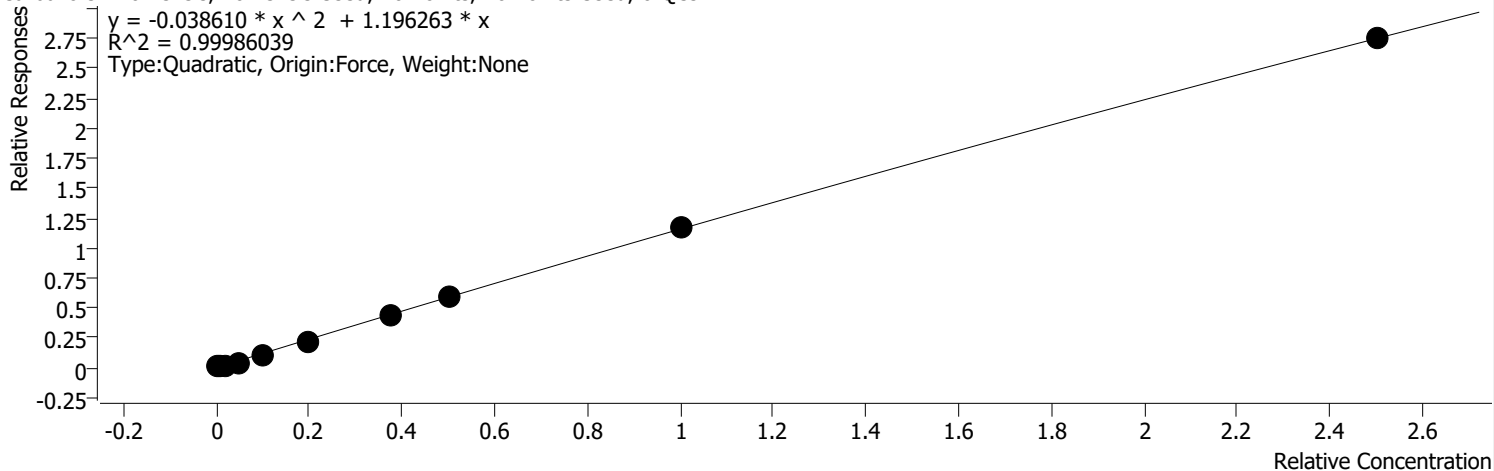


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-21\Data\2023\091423\091426.D	Calibration	1	x	4158	10.0000	1.0040
D:\GC-21\Data\2023\091423\091427.D	Calibration	2	x	7931	20.0000	0.9838
D:\GC-21\Data\2023\091423\091428.D	Calibration	3	x	15634	40.0000	0.9818
D:\GC-21\Data\2023\091423\091429.D	Calibration	4	x	39088	100.0000	0.9584
D:\GC-21\Data\2023\091423\091430.D	Calibration	5	x	80314	200.0000	1.0241
D:\GC-21\Data\2023\091423\091431.D	Calibration	6	x	176045	400.0000	1.0945
D:\GC-21\Data\2023\091423\091432.D	Calibration	7	x	364734	750.0000	1.1565
D:\GC-21\Data\2023\091423\091433.D	Calibration	8	x	490361	1000.0000	1.1743
D:\GC-21\Data\2023\091423\091434.D	Calibration	9	x	1005797	2000.0000	1.1797
D:\GC-21\Data\2023\091423\091435.D	Calibration	10	x	2409870	5000.0000	1.1282

Batch Path	D:\GC-21\Data\2023\091423\QuantResults\PAH ICAL.batch.bin		
Analysis Time	9/15/2023 9:48:13 AM	Analyst Name	FA\GC1821
Report Time	9/15/2023 9:54:52 AM	Reporter Name	GC1821
Last Calib Update	9/15/2023 9:27:23 AM	Batch State	Processed

Carbazole

Carbazole - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



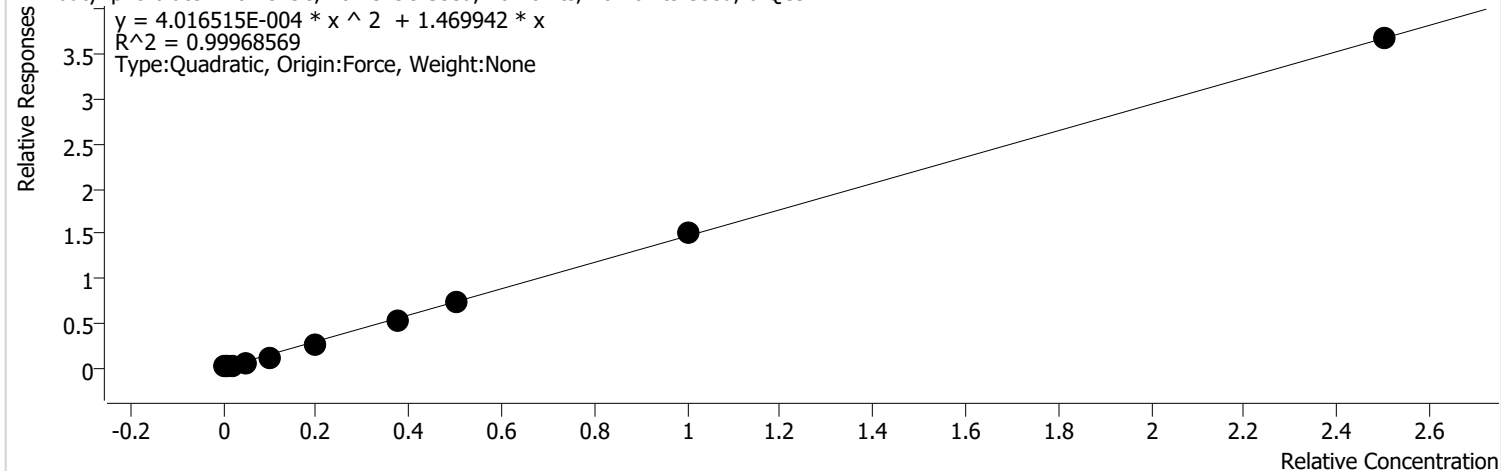
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-21\Data\2023\091423\091426.D	Calibration	1	x	4006	10.0000	0.9672
D:\GC-21\Data\2023\091423\091427.D	Calibration	2	x	7911	20.0000	0.9814
D:\GC-21\Data\2023\091423\091428.D	Calibration	3	x	15613	40.0000	0.9805
D:\GC-21\Data\2023\091423\091429.D	Calibration	4	x	38686	100.0000	0.9485
D:\GC-21\Data\2023\091423\091430.D	Calibration	5	x	80010	200.0000	1.0203
D:\GC-21\Data\2023\091423\091431.D	Calibration	6	x	180431	400.0000	1.1217
D:\GC-21\Data\2023\091423\091432.D	Calibration	7	x	364773	750.0000	1.1566
D:\GC-21\Data\2023\091423\091433.D	Calibration	8	x	490728	1000.0000	1.1752
D:\GC-21\Data\2023\091423\091434.D	Calibration	9	x	998586	2000.0000	1.1713
D:\GC-21\Data\2023\091423\091435.D	Calibration	10	x	2347598	5000.0000	1.0990

Calibration Report

Batch Path	D:\GC-21\Data\2023\091423\QuantResults\PAH ICAL.batch.bin		
Analysis Time	9/15/2023 9:48:13 AM	Analyst Name	FA\GC1821
Report Time	9/15/2023 9:54:52 AM	Reporter Name	GC1821
Last Calib Update	9/15/2023 9:27:23 AM	Batch State	Processed

Di-n-butyl phthalate

Di-n-butyl phthalate - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



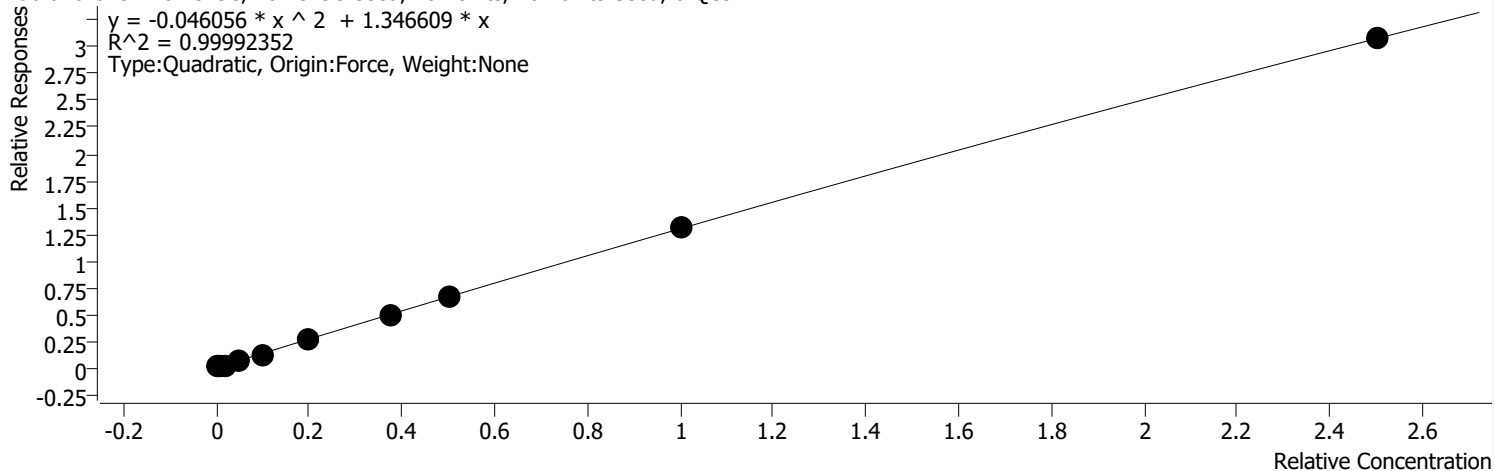
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-21\Data\2023\091423\091426.D	Calibration	1	x	4884	10.0000	1.1793
D:\GC-21\Data\2023\091423\091427.D	Calibration	2	x	9298	20.0000	1.1534
D:\GC-21\Data\2023\091423\091428.D	Calibration	3	x	18080	40.0000	1.1353
D:\GC-21\Data\2023\091423\091429.D	Calibration	4	x	45941	100.0000	1.1264
D:\GC-21\Data\2023\091423\091430.D	Calibration	5	x	93899	200.0000	1.1974
D:\GC-21\Data\2023\091423\091431.D	Calibration	6	x	211116	400.0000	1.3125
D:\GC-21\Data\2023\091423\091432.D	Calibration	7	x	445271	750.0000	1.4119
D:\GC-21\Data\2023\091423\091433.D	Calibration	8	x	606930	1000.0000	1.4535
D:\GC-21\Data\2023\091423\091434.D	Calibration	9	x	1281562	2000.0000	1.5032
D:\GC-21\Data\2023\091423\091435.D	Calibration	10	x	3138521	5000.0000	1.4693

Calibration Report

Batch Path	D:\GC-21\Data\2023\091423\QuantResults\PAH ICAL.batch.bin		
Analysis Time	9/15/2023 9:48:13 AM	Analyst Name	FA\GC1821
Report Time	9/15/2023 9:54:52 AM	Reporter Name	GC1821
Last Calib Update	9/15/2023 9:27:23 AM	Batch State	Processed

Fluoranthene

Fluoranthene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs

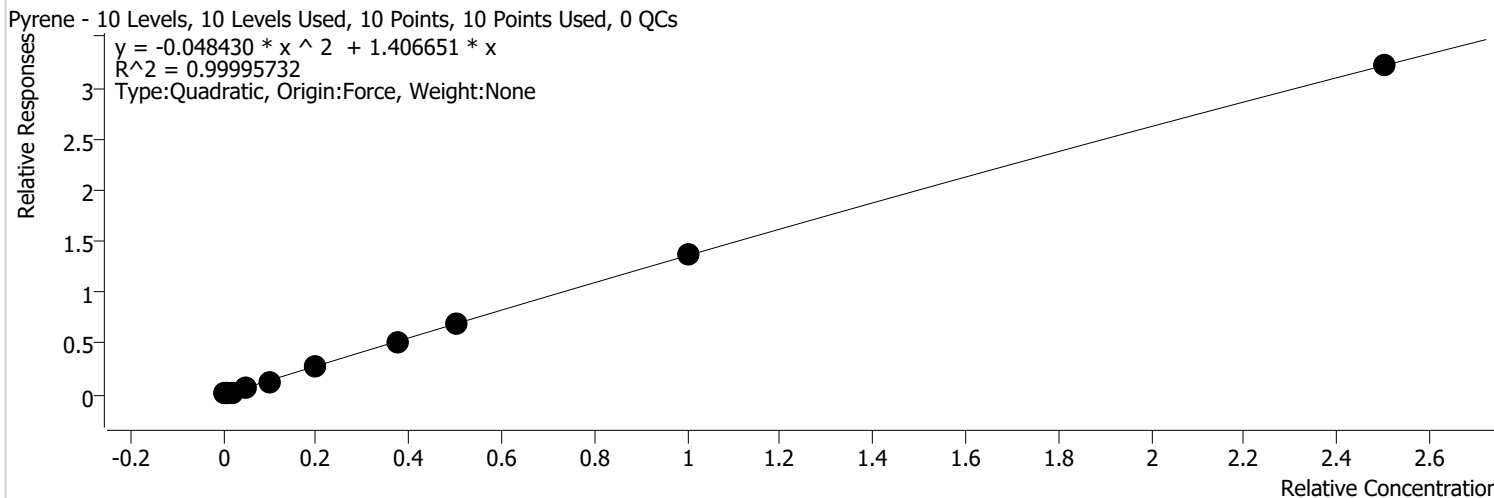


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-21\Data\2023\091423\091426.D	Calibration	1	x	4776	10.0000	1.1531
D:\GC-21\Data\2023\091423\091427.D	Calibration	2	x	9182	20.0000	1.1390
D:\GC-21\Data\2023\091423\091428.D	Calibration	3	x	18033	40.0000	1.1324
D:\GC-21\Data\2023\091423\091429.D	Calibration	4	x	45689	100.0000	1.1202
D:\GC-21\Data\2023\091423\091430.D	Calibration	5	x	92816	200.0000	1.1836
D:\GC-21\Data\2023\091423\091431.D	Calibration	6	x	205320	400.0000	1.2765
D:\GC-21\Data\2023\091423\091432.D	Calibration	7	x	415613	750.0000	1.3178
D:\GC-21\Data\2023\091423\091433.D	Calibration	8	x	554974	1000.0000	1.3291
D:\GC-21\Data\2023\091423\091434.D	Calibration	9	x	1115470	2000.0000	1.3084
D:\GC-21\Data\2023\091423\091435.D	Calibration	10	x	2629556	5000.0000	1.2310

Calibration Report

Batch Path	D:\GC-21\Data\2023\091423\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC1821
Analysis Time	9/15/2023 9:48:13 AM	Reporter Name	GC1821
Report Time	9/15/2023 9:54:52 AM	Batch State	Processed
Last Calib Update	9/15/2023 9:27:23 AM		

Pyrene

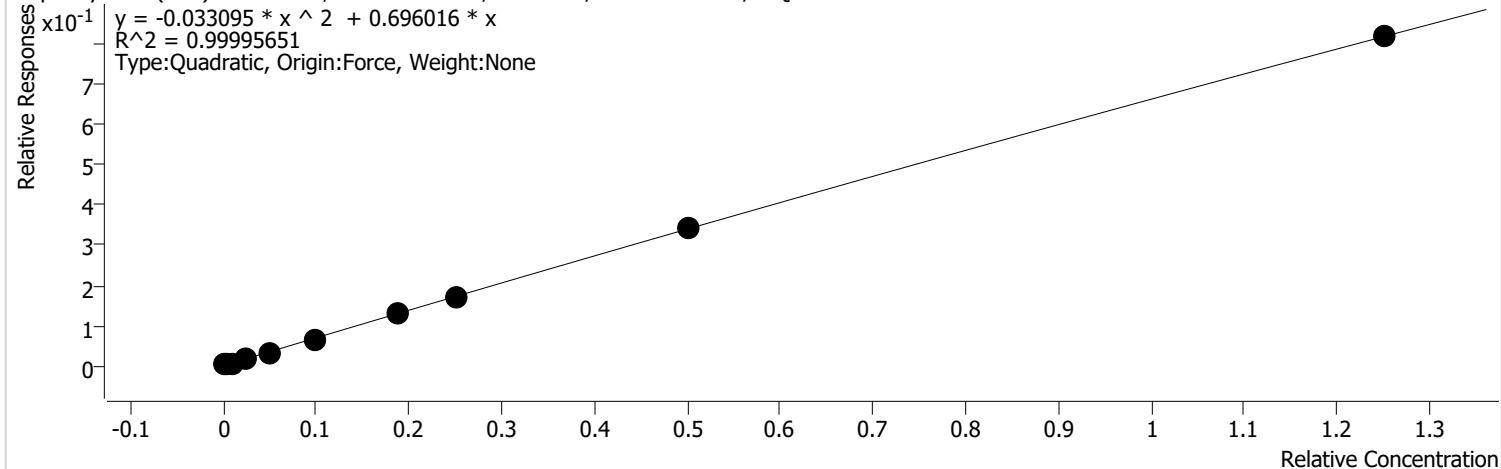


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-21\Data\2023\091423\091426.D	Calibration	1	x	5963	10.0000	1.4398
D:\GC-21\Data\2023\091423\091427.D	Calibration	2	x	10600	20.0000	1.3148
D:\GC-21\Data\2023\091423\091428.D	Calibration	3	x	19717	40.0000	1.2381
D:\GC-21\Data\2023\091423\091429.D	Calibration	4	x	48329	100.0000	1.1850
D:\GC-21\Data\2023\091423\091430.D	Calibration	5	x	99907	200.0000	1.2740
D:\GC-21\Data\2023\091423\091431.D	Calibration	6	x	218796	400.0000	1.3602
D:\GC-21\Data\2023\091423\091432.D	Calibration	7	x	435801	750.0000	1.3818
D:\GC-21\Data\2023\091423\091433.D	Calibration	8	x	580004	1000.0000	1.3890
D:\GC-21\Data\2023\091423\091434.D	Calibration	9	x	1161749	2000.0000	1.3627
D:\GC-21\Data\2023\091423\091435.D	Calibration	10	x	2745512	5000.0000	1.2853

Batch Path	D:\GC-21\Data\2023\091423\QuantResults\PAH ICAL.batch.bin		
Analysis Time	9/15/2023 9:48:13 AM	Analyst Name	FA\GC1821
Report Time	9/15/2023 9:54:52 AM	Reporter Name	GC1821
Last Calib Update	9/15/2023 9:27:23 AM	Batch State	Processed

Terphenyl-d14 (surr)

Terphenyl-d14 (surr) - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs

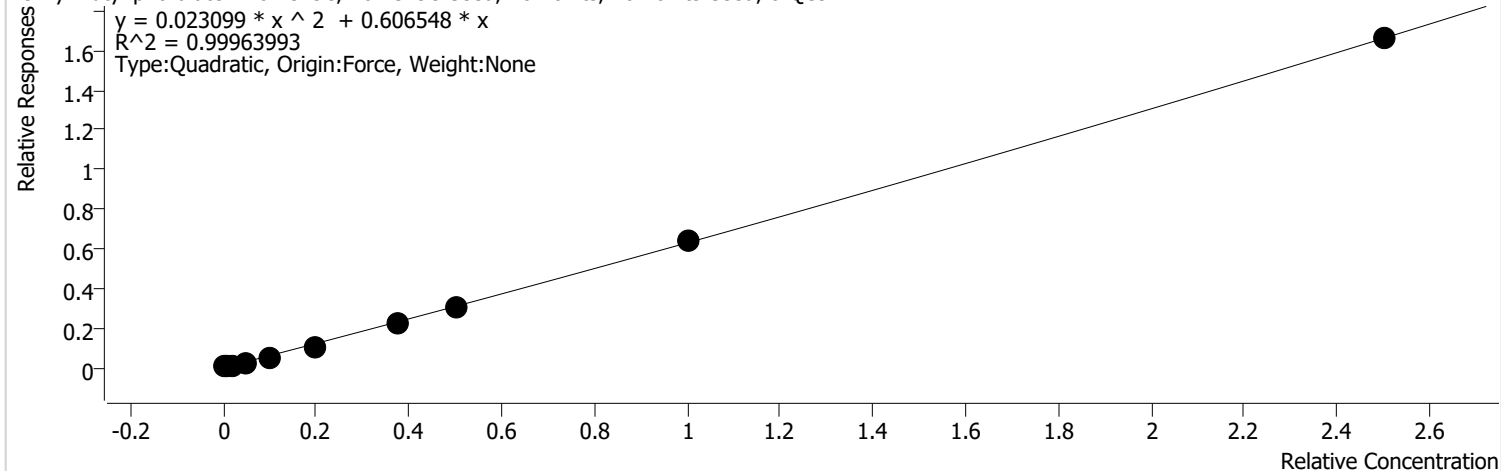


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-21\Data\2023\091423\091426.D	Calibration	1	x	1296	5.0000	0.6261
D:\GC-21\Data\2023\091423\091427.D	Calibration	2	x	2455	10.0000	0.6090
D:\GC-21\Data\2023\091423\091428.D	Calibration	3	x	4842	20.0000	0.6081
D:\GC-21\Data\2023\091423\091429.D	Calibration	4	x	12166	50.0000	0.5966
D:\GC-21\Data\2023\091423\091430.D	Calibration	5	x	24584	100.0000	0.6270
D:\GC-21\Data\2023\091423\091431.D	Calibration	6	x	54062	200.0000	0.6722
D:\GC-21\Data\2023\091423\091432.D	Calibration	7	x	108361	375.0000	0.6872
D:\GC-21\Data\2023\091423\091433.D	Calibration	8	x	143664	500.0000	0.6881
D:\GC-21\Data\2023\091423\091434.D	Calibration	9	x	291013	1000.0000	0.6827
D:\GC-21\Data\2023\091423\091435.D	Calibration	10	x	699000	2500.0000	0.6545

Batch Path	D:\GC-21\Data\2023\091423\QuantResults\PAH ICAL.batch.bin		
Analysis Time	9/15/2023 9:48:13 AM	Analyst Name	FA\GC1821
Report Time	9/15/2023 9:54:52 AM	Reporter Name	GC1821
Last Calib Update	9/15/2023 9:27:23 AM	Batch State	Processed

Benzyl Butyl phthalate

Benzyl Butyl phthalate - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs

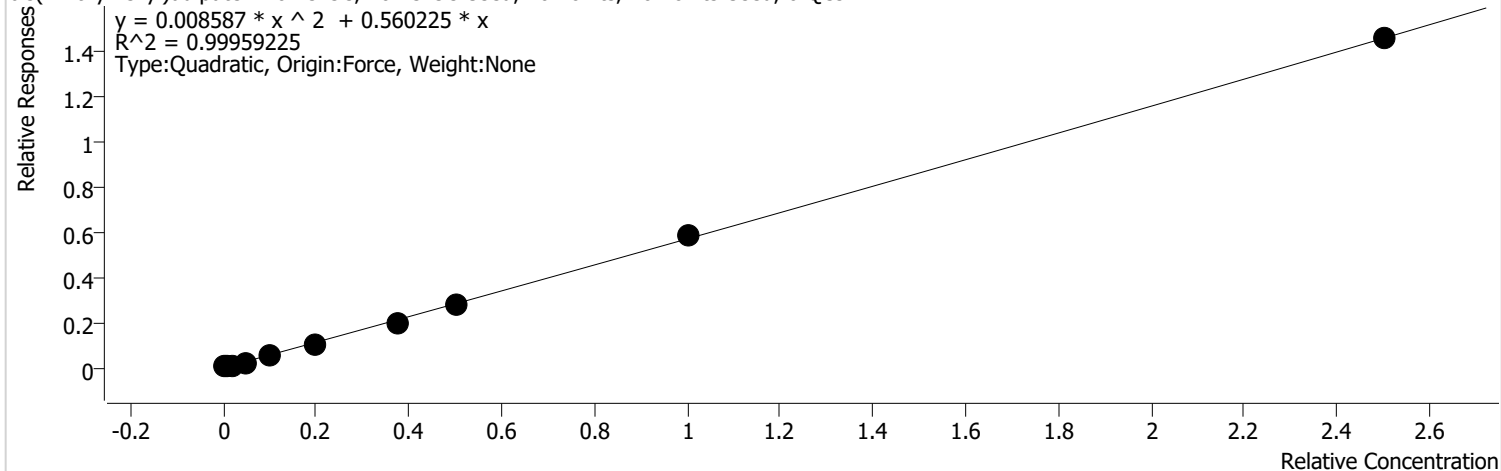


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-21\Data\2023\091423\091426.D	Calibration	1	x	1965	10.0000	0.4746
D:\GC-21\Data\2023\091423\091427.D	Calibration	2	x	3805	20.0000	0.4720
D:\GC-21\Data\2023\091423\091428.D	Calibration	3	x	7339	40.0000	0.4608
D:\GC-21\Data\2023\091423\091429.D	Calibration	4	x	18915	100.0000	0.4638
D:\GC-21\Data\2023\091423\091430.D	Calibration	5	x	38847	200.0000	0.4954
D:\GC-21\Data\2023\091423\091431.D	Calibration	6	x	86812	400.0000	0.5397
D:\GC-21\Data\2023\091423\091432.D	Calibration	7	x	184423	750.0000	0.5848
D:\GC-21\Data\2023\091423\091433.D	Calibration	8	x	252782	1000.0000	0.6054
D:\GC-21\Data\2023\091423\091434.D	Calibration	9	x	551486	2000.0000	0.6469
D:\GC-21\Data\2023\091423\091435.D	Calibration	10	x	1417181	5000.0000	0.6634

Batch Path	D:\GC-21\Data\2023\091423\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC1821
Analysis Time	9/15/2023 9:48:13 AM	Reporter Name	GC1821
Report Time	9/15/2023 9:54:52 AM	Batch State	Processed
Last Calib Update	9/15/2023 9:27:23 AM		

bis(2-Ethylhexyl)adipate

bis(2-Ethylhexyl)adipate - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs

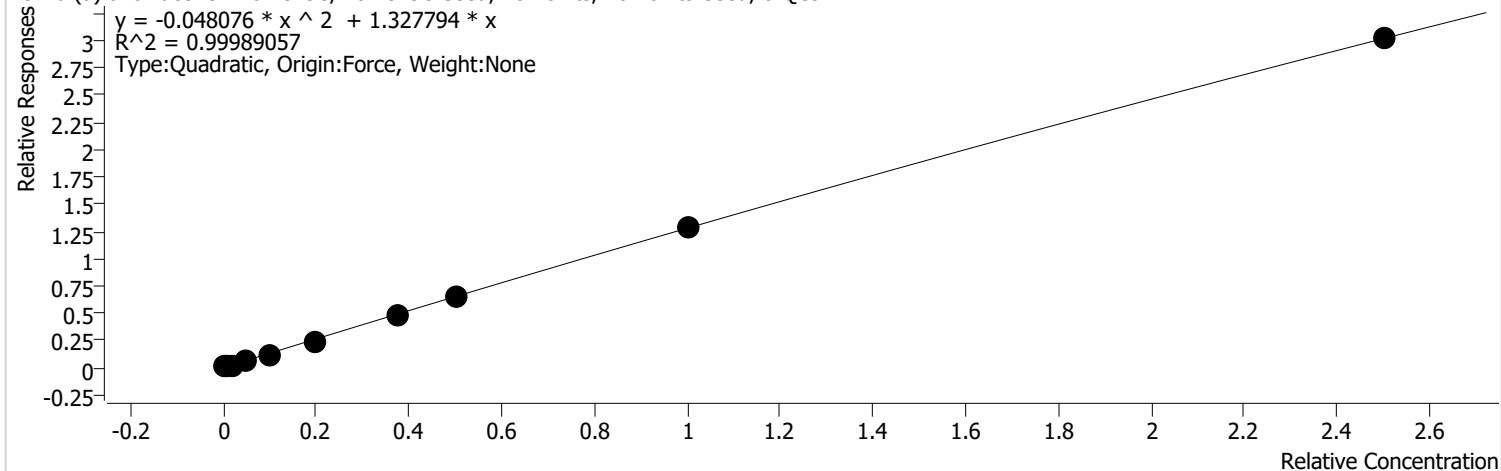


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-21\Data\2023\091423\091426.D	Calibration	1	x	2019	10.0000	0.4875
D:\GC-21\Data\2023\091423\091427.D	Calibration	2	x	3516	20.0000	0.4361
D:\GC-21\Data\2023\091423\091428.D	Calibration	3	x	6322	40.0000	0.3970
D:\GC-21\Data\2023\091423\091429.D	Calibration	4	x	17253	100.0000	0.4230
D:\GC-21\Data\2023\091423\091430.D	Calibration	5	x	41383	200.0000	0.5277
D:\GC-21\Data\2023\091423\091431.D	Calibration	6	x	77863	400.0000	0.4841
D:\GC-21\Data\2023\091423\091432.D	Calibration	7	x	168017	750.0000	0.5327
D:\GC-21\Data\2023\091423\091433.D	Calibration	8	x	230481	1000.0000	0.5520
D:\GC-21\Data\2023\091423\091434.D	Calibration	9	x	498842	2000.0000	0.5851
D:\GC-21\Data\2023\091423\091435.D	Calibration	10	x	1240852	5000.0000	0.5809

Batch Path	D:\GC-21\Data\2023\091423\QuantResults\PAH ICAL.batch.bin		
Analysis Time	9/15/2023 9:48:13 AM	Analyst Name	FA\GC1821
Report Time	9/15/2023 9:54:53 AM	Reporter Name	GC1821
Last Calib Update	9/15/2023 9:27:23 AM	Batch State	Processed

Benzo (a) anthracene

Benzo (a) anthracene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs

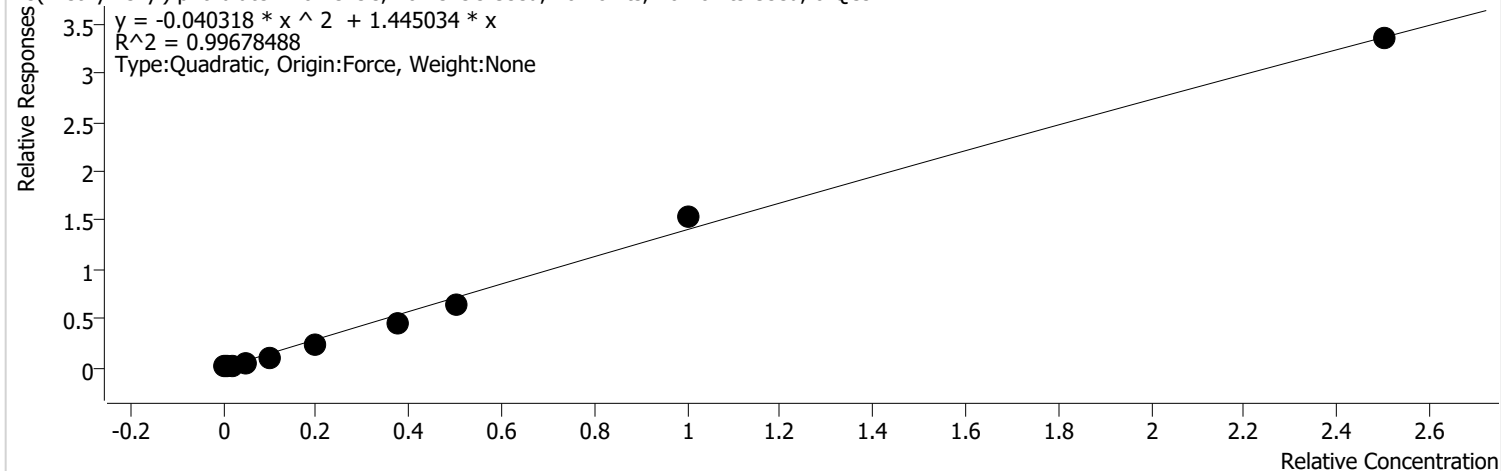


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
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D:\GC-21\Data\2023\091423\091427.D	Calibration	2	x	10407	20.0000	1.2909
D:\GC-21\Data\2023\091423\091428.D	Calibration	3	x	18468	40.0000	1.1597
D:\GC-21\Data\2023\091423\091429.D	Calibration	4	x	44701	100.0000	1.0960
D:\GC-21\Data\2023\091423\091430.D	Calibration	5	x	90582	200.0000	1.1551
D:\GC-21\Data\2023\091423\091431.D	Calibration	6	x	199290	400.0000	1.2390
D:\GC-21\Data\2023\091423\091432.D	Calibration	7	x	406455	750.0000	1.2888
D:\GC-21\Data\2023\091423\091433.D	Calibration	8	x	545970	1000.0000	1.3075
D:\GC-21\Data\2023\091423\091434.D	Calibration	9	x	1100846	2000.0000	1.2912
D:\GC-21\Data\2023\091423\091435.D	Calibration	10	x	2578192	5000.0000	1.2070

Batch Path	D:\GC-21\Data\2023\091423\QuantResults\PAH ICAL.batch.bin		
Analysis Time	9/15/2023 9:48:13 AM	Analyst Name	FA\GC1821
Report Time	9/15/2023 9:54:53 AM	Reporter Name	GC1821
Last Calib Update	9/15/2023 9:27:23 AM	Batch State	Processed

Bis(2-ethylhexyl) phthalate

Bis(2-ethylhexyl) phthalate - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



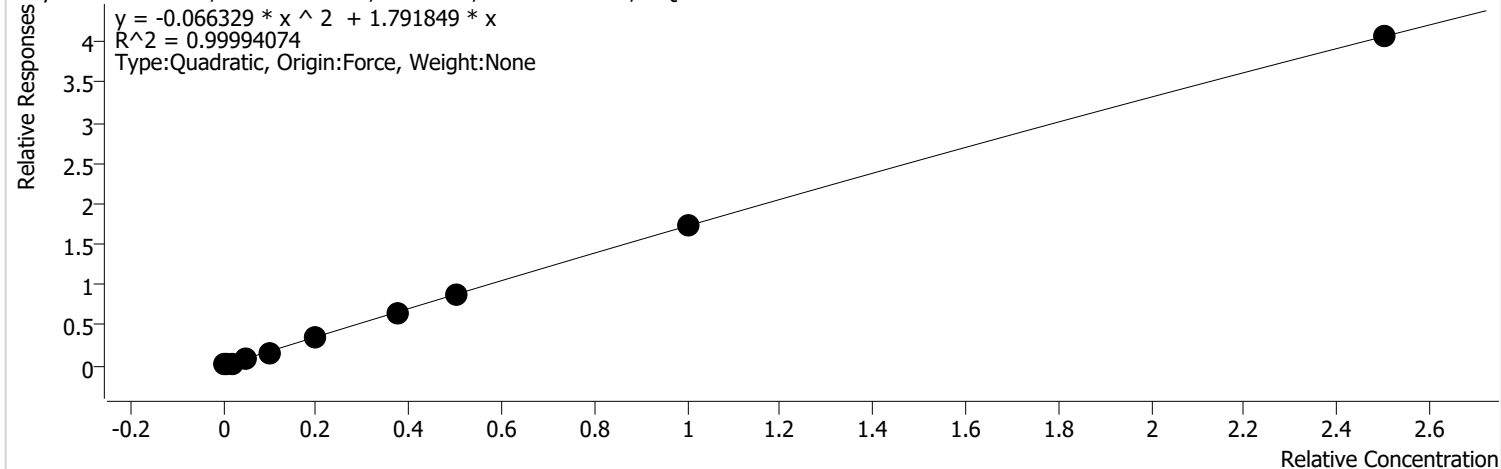
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-21\Data\2023\091423\091426.D	Calibration	1	x	3982	10.0000	1.3733
D:\GC-21\Data\2023\091423\091427.D	Calibration	2	x	6720	20.0000	1.1893
D:\GC-21\Data\2023\091423\091428.D	Calibration	3	x	11769	40.0000	1.0558
D:\GC-21\Data\2023\091423\091429.D	Calibration	4	x	28022	100.0000	0.9627
D:\GC-21\Data\2023\091423\091430.D	Calibration	5	x	57992	200.0000	1.0325
D:\GC-21\Data\2023\091423\091431.D	Calibration	6	x	129632	400.0000	1.1277
D:\GC-21\Data\2023\091423\091432.D	Calibration	7	x	274491	750.0000	1.2180
D:\GC-21\Data\2023\091423\091433.D	Calibration	8	x	375361	1000.0000	1.2755
D:\GC-21\Data\2023\091423\091434.D	Calibration	9	x	915551	2000.0000	1.5245
D:\GC-21\Data\2023\091423\091435.D	Calibration	10	x	2024333	5000.0000	1.3387

Calibration Report

Batch Path	D:\GC-21\Data\2023\091423\QuantResults\PAH ICAL.batch.bin		
Analysis Time	9/15/2023 9:48:13 AM	Analyst Name	FA\GC1821
Report Time	9/15/2023 9:54:53 AM	Reporter Name	GC1821
Last Calib Update	9/15/2023 9:27:23 AM	Batch State	Processed

Chrysene

Chrysene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs

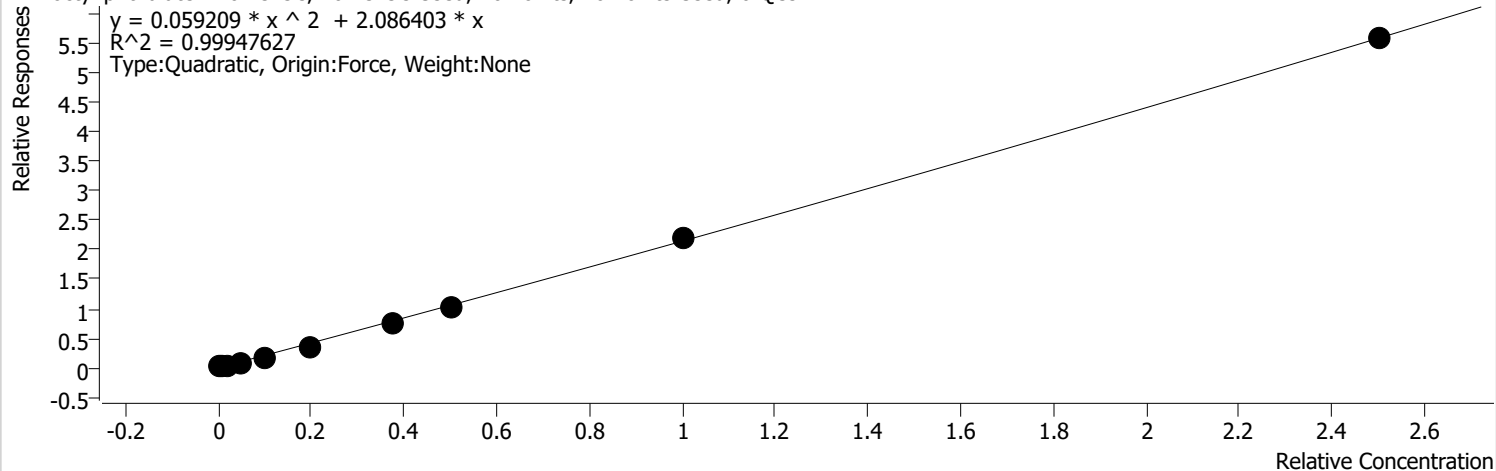


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-21\Data\2023\091423\091426.D	Calibration	1	x	4714	10.0000	1.6257
D:\GC-21\Data\2023\091423\091427.D	Calibration	2	x	9016	20.0000	1.5956
D:\GC-21\Data\2023\091423\091428.D	Calibration	3	x	18095	40.0000	1.6233
D:\GC-21\Data\2023\091423\091429.D	Calibration	4	x	45877	100.0000	1.5761
D:\GC-21\Data\2023\091423\091430.D	Calibration	5	x	90008	200.0000	1.6025
D:\GC-21\Data\2023\091423\091431.D	Calibration	6	x	199011	400.0000	1.7313
D:\GC-21\Data\2023\091423\091432.D	Calibration	7	x	391866	750.0000	1.7389
D:\GC-21\Data\2023\091423\091433.D	Calibration	8	x	516360	1000.0000	1.7546
D:\GC-21\Data\2023\091423\091434.D	Calibration	9	x	1044571	2000.0000	1.7393
D:\GC-21\Data\2023\091423\091435.D	Calibration	10	x	2457782	5000.0000	1.6253

Batch Path	D:\GC-21\Data\2023\091423\QuantResults\PAH ICAL.batch.bin		
Analysis Time	9/15/2023 9:48:13 AM	Analyst Name	FA\GC1821
Report Time	9/15/2023 9:54:53 AM	Reporter Name	GC1821
Last Calib Update	9/15/2023 9:27:23 AM	Batch State	Processed

Di-n-octyl phthalate

Di-n-octyl phthalate - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs

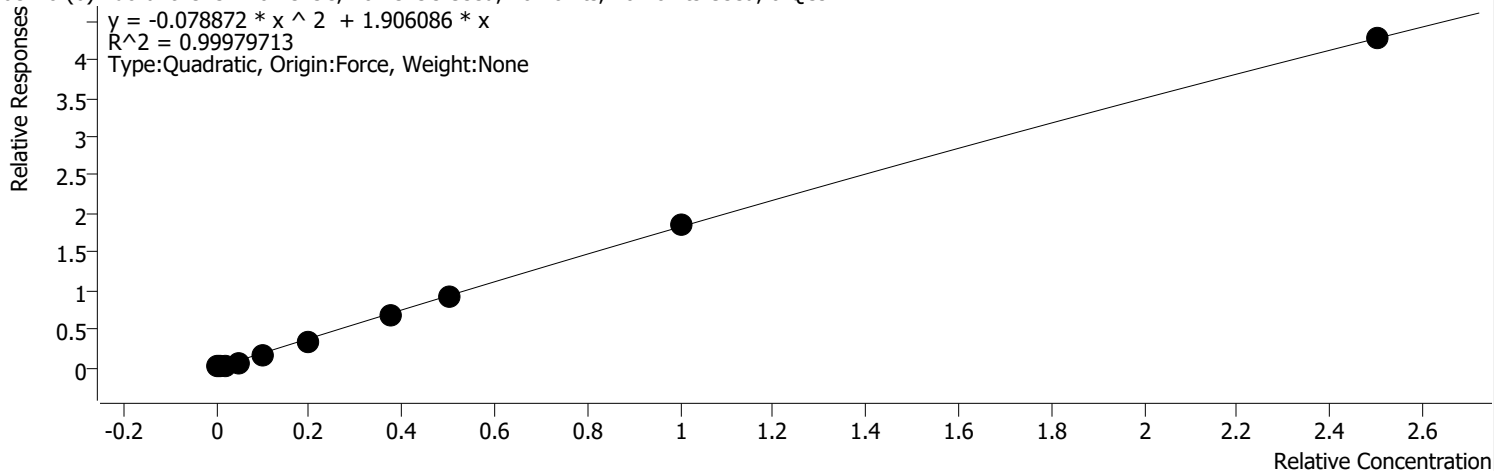


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-21\Data\2023\091423\091426.D	Calibration	1	x	4657	10.0000	1.6061
D:\GC-21\Data\2023\091423\091427.D	Calibration	2	x	9078	20.0000	1.6066
D:\GC-21\Data\2023\091423\091428.D	Calibration	3	x	17370	40.0000	1.5583
D:\GC-21\Data\2023\091423\091429.D	Calibration	4	x	45002	100.0000	1.5460
D:\GC-21\Data\2023\091423\091430.D	Calibration	5	x	95005	200.0000	1.6915
D:\GC-21\Data\2023\091423\091431.D	Calibration	6	x	210621	400.0000	1.8323
D:\GC-21\Data\2023\091423\091432.D	Calibration	7	x	442333	750.0000	1.9628
D:\GC-21\Data\2023\091423\091433.D	Calibration	8	x	606998	1000.0000	2.0626
D:\GC-21\Data\2023\091423\091434.D	Calibration	9	x	1331962	2000.0000	2.2179
D:\GC-21\Data\2023\091423\091435.D	Calibration	10	x	3373540	5000.0000	2.2309

Batch Path	D:\GC-21\Data\2023\091423\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC1821
Analysis Time	9/15/2023 9:48:13 AM	Reporter Name	GC1821
Report Time	9/15/2023 9:54:53 AM	Batch State	Processed
Last Calib Update	9/15/2023 9:27:23 AM		

benzo (b) fluoranthene

benzo (b) fluoranthene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs

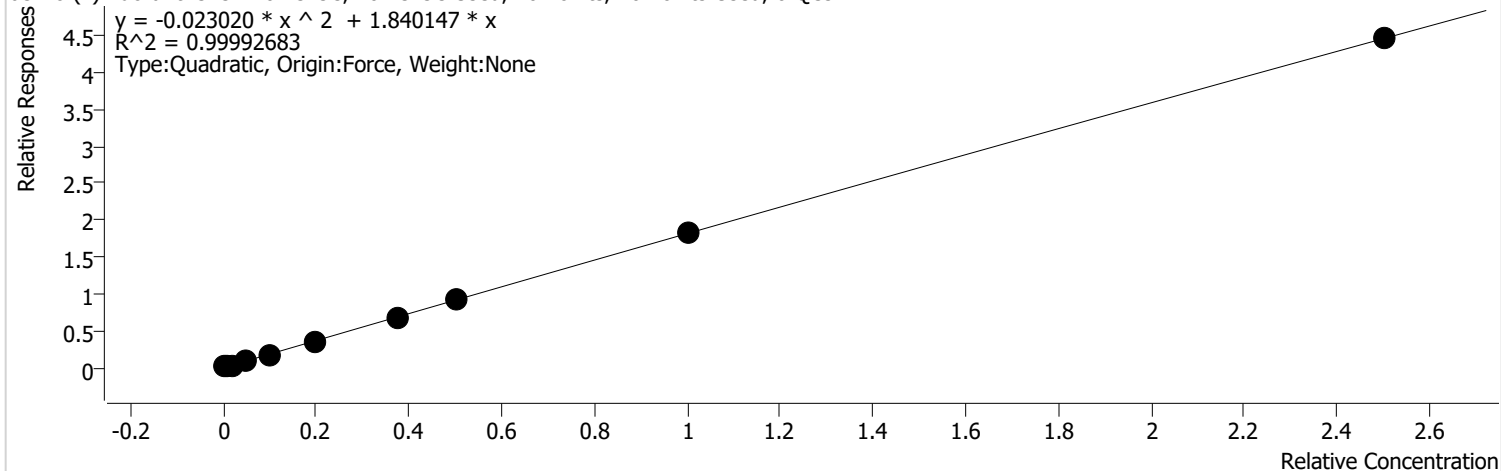


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-21\Data\2023\091423\091426.D	Calibration	1	x	4428	10.0000	1.5271
D:\GC-21\Data\2023\091423\091427.D	Calibration	2	x	8310	20.0000	1.4706
D:\GC-21\Data\2023\091423\091428.D	Calibration	3	x	16624	40.0000	1.4913
D:\GC-21\Data\2023\091423\091429.D	Calibration	4	x	43064	100.0000	1.4794
D:\GC-21\Data\2023\091423\091430.D	Calibration	5	x	93377	200.0000	1.6625
D:\GC-21\Data\2023\091423\091431.D	Calibration	6	x	201090	400.0000	1.7494
D:\GC-21\Data\2023\091423\091432.D	Calibration	7	x	409191	750.0000	1.8158
D:\GC-21\Data\2023\091423\091433.D	Calibration	8	x	547247	1000.0000	1.8595
D:\GC-21\Data\2023\091423\091434.D	Calibration	9	x	1114756	2000.0000	1.8562
D:\GC-21\Data\2023\091423\091435.D	Calibration	10	x	2581930	5000.0000	1.7074

Batch Path	D:\GC-21\Data\2023\091423\QuantResults\PAH ICAL.batch.bin		
Analysis Time	9/15/2023 9:48:13 AM	Analyst Name	FA\GC1821
Report Time	9/15/2023 9:54:53 AM	Reporter Name	GC1821
Last Calib Update	9/15/2023 9:27:23 AM	Batch State	Processed

benzo (k) fluoranthene

benzo (k) fluoranthene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



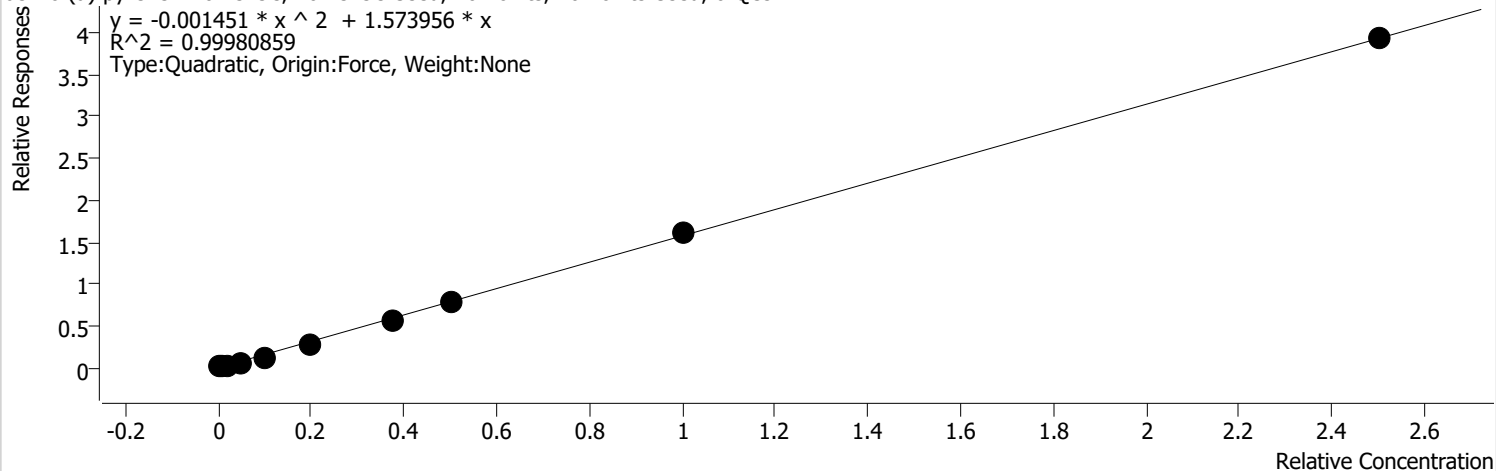
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-21\Data\2023\091423\091426.D	Calibration	1	x	4640	10.0000	1.6002
D:\GC-21\Data\2023\091423\091427.D	Calibration	2	x	9138	20.0000	1.6171
D:\GC-21\Data\2023\091423\091428.D	Calibration	3	x	17532	40.0000	1.5728
D:\GC-21\Data\2023\091423\091429.D	Calibration	4	x	45709	100.0000	1.5703
D:\GC-21\Data\2023\091423\091430.D	Calibration	5	x	90525	200.0000	1.6117
D:\GC-21\Data\2023\091423\091431.D	Calibration	6	x	203210	400.0000	1.7678
D:\GC-21\Data\2023\091423\091432.D	Calibration	7	x	405569	750.0000	1.7997
D:\GC-21\Data\2023\091423\091433.D	Calibration	8	x	538870	1000.0000	1.8311
D:\GC-21\Data\2023\091423\091434.D	Calibration	9	x	1100077	2000.0000	1.8317
D:\GC-21\Data\2023\091423\091435.D	Calibration	10	x	2694431	5000.0000	1.7818

Calibration Report

Batch Path	D:\GC-21\Data\2023\091423\QuantResults\PAH ICAL.batch.bin		
Analysis Time	9/15/2023 9:48:13 AM	Analyst Name	FA\GC1821
Report Time	9/15/2023 9:54:53 AM	Reporter Name	GC1821
Last Calib Update	9/15/2023 9:27:23 AM	Batch State	Processed

benzo (a) pyrene

benzo (a) pyrene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



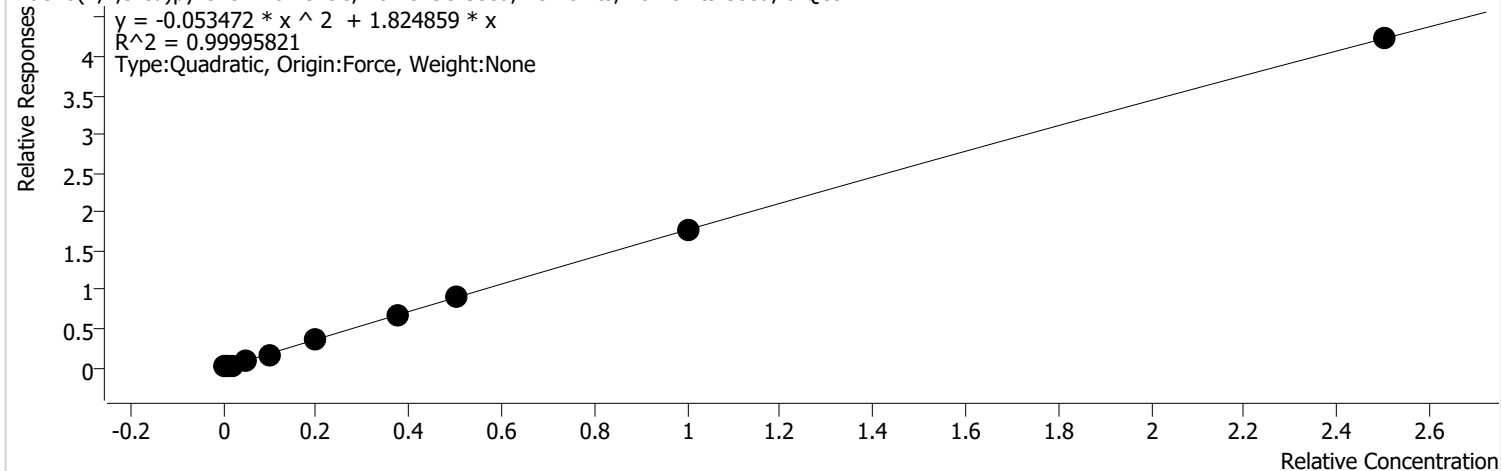
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-21\Data\2023\091423\091426.D	Calibration	1	x	3781	10.0000	1.3040
D:\GC-21\Data\2023\091423\091427.D	Calibration	2	x	7165	20.0000	1.2679
D:\GC-21\Data\2023\091423\091428.D	Calibration	3	x	14070	40.0000	1.2622
D:\GC-21\Data\2023\091423\091429.D	Calibration	4	x	35930	100.0000	1.2343
D:\GC-21\Data\2023\091423\091430.D	Calibration	5	x	73663	200.0000	1.3115
D:\GC-21\Data\2023\091423\091431.D	Calibration	6	x	164402	400.0000	1.4302
D:\GC-21\Data\2023\091423\091432.D	Calibration	7	x	346391	750.0000	1.5371
D:\GC-21\Data\2023\091423\091433.D	Calibration	8	x	461856	1000.0000	1.5694
D:\GC-21\Data\2023\091423\091434.D	Calibration	9	x	958301	2000.0000	1.5957
D:\GC-21\Data\2023\091423\091435.D	Calibration	10	x	2372775	5000.0000	1.5691

Calibration Report

Batch Path	D:\GC-21\Data\2023\091423\QuantResults\PAH ICAL.batch.bin		
Analysis Time	9/15/2023 9:48:13 AM	Analyst Name	FA\GC1821
Report Time	9/15/2023 9:54:53 AM	Reporter Name	GC1821
Last Calib Update	9/15/2023 9:27:23 AM	Batch State	Processed

Indeno(1,2,3-cd)pyrene

Indeno(1,2,3-cd)pyrene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



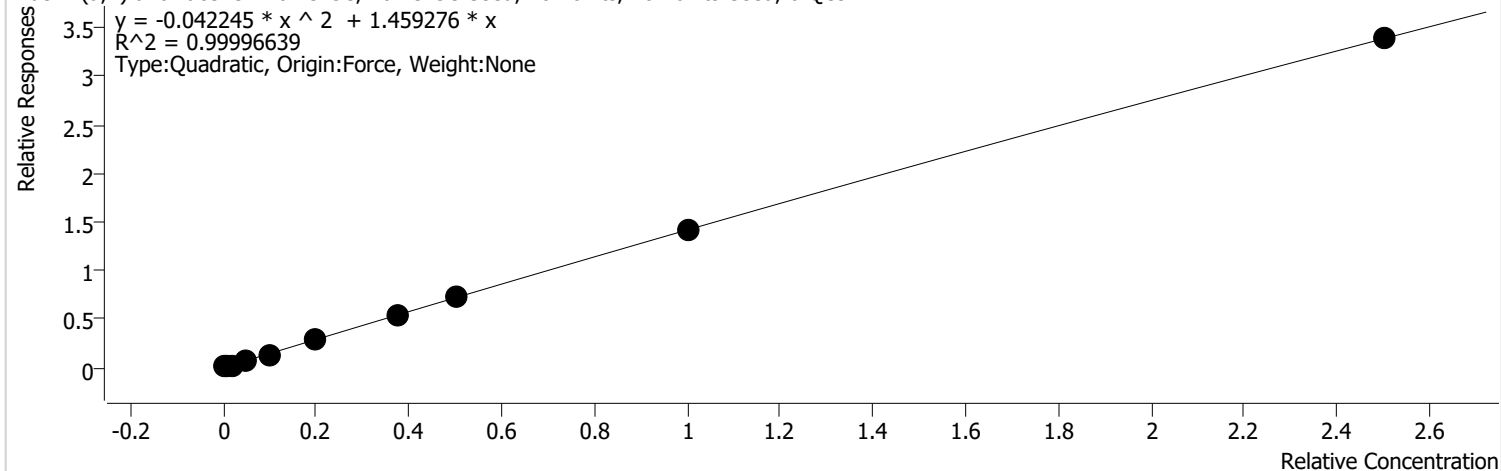
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-21\Data\2023\091423\091426.D	Calibration	1	x	5460	10.0000	1.5900
D:\GC-21\Data\2023\091423\091427.D	Calibration	2	x	10430	20.0000	1.5812
D:\GC-21\Data\2023\091423\091428.D	Calibration	3	x	20486	40.0000	1.5606
D:\GC-21\Data\2023\091423\091429.D	Calibration	4	x	53068	100.0000	1.5493
D:\GC-21\Data\2023\091423\091430.D	Calibration	5	x	109955	200.0000	1.6410
D:\GC-21\Data\2023\091423\091431.D	Calibration	6	x	240684	400.0000	1.7841
D:\GC-21\Data\2023\091423\091432.D	Calibration	7	x	482491	750.0000	1.8052
D:\GC-21\Data\2023\091423\091433.D	Calibration	8	x	640326	1000.0000	1.8159
D:\GC-21\Data\2023\091423\091434.D	Calibration	9	x	1302989	2000.0000	1.7714
D:\GC-21\Data\2023\091423\091435.D	Calibration	10	x	3143964	5000.0000	1.6911

Calibration Report

Batch Path	D:\GC-21\Data\2023\091423\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\GC1821
Analysis Time	9/15/2023 9:48:13 AM	Reporter Name	GC1821
Report Time	9/15/2023 9:54:53 AM	Batch State	Processed
Last Calib Update	9/15/2023 9:27:23 AM		

Dibenz (a,h) anthracene

Dibenz (a,h) anthracene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



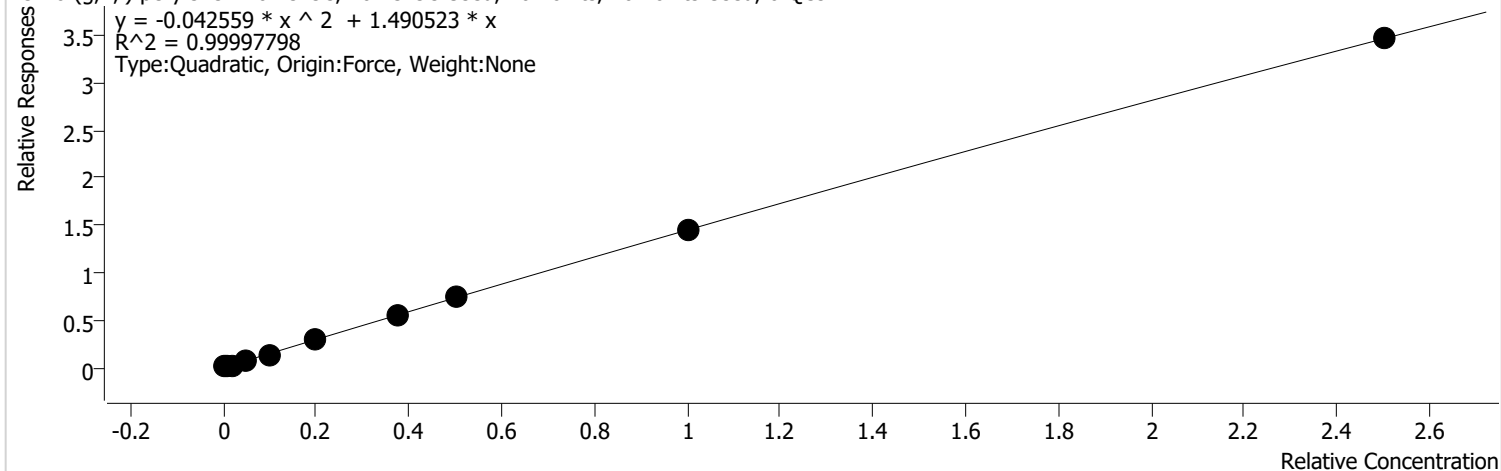
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-21\Data\2023\091423\091426.D	Calibration	1	x	4390	10.0000	1.2783
D:\GC-21\Data\2023\091423\091427.D	Calibration	2	x	8423	20.0000	1.2769
D:\GC-21\Data\2023\091423\091428.D	Calibration	3	x	16778	40.0000	1.2781
D:\GC-21\Data\2023\091423\091429.D	Calibration	4	x	42990	100.0000	1.2551
D:\GC-21\Data\2023\091423\091430.D	Calibration	5	x	89390	200.0000	1.3341
D:\GC-21\Data\2023\091423\091431.D	Calibration	6	x	192957	400.0000	1.4303
D:\GC-21\Data\2023\091423\091432.D	Calibration	7	x	385091	750.0000	1.4408
D:\GC-21\Data\2023\091423\091433.D	Calibration	8	x	512305	1000.0000	1.4528
D:\GC-21\Data\2023\091423\091434.D	Calibration	9	x	1042170	2000.0000	1.4168
D:\GC-21\Data\2023\091423\091435.D	Calibration	10	x	2516542	5000.0000	1.3536

Calibration Report

Batch Path	D:\GC-21\Data\2023\091423\QuantResults\PAH ICAL.batch.bin		
Analysis Time	9/15/2023 9:48:13 AM	Analyst Name	FA\GC1821
Report Time	9/15/2023 9:54:53 AM	Reporter Name	GC1821
Last Calib Update	9/15/2023 9:27:23 AM	Batch State	Processed

Benzo (g,h,i) perylene

Benzo (g,h,i) perylene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-21\Data\2023\091423\091426.D	Calibration	1	x	6685	10.0000	1.9469
D:\GC-21\Data\2023\091423\091427.D	Calibration	2	x	10720	20.0000	1.6252
D:\GC-21\Data\2023\091423\091428.D	Calibration	3	x	19174	40.0000	1.4606
D:\GC-21\Data\2023\091423\091429.D	Calibration	4	x	45735	100.0000	1.3352
D:\GC-21\Data\2023\091423\091430.D	Calibration	5	x	92031	200.0000	1.3735
D:\GC-21\Data\2023\091423\091431.D	Calibration	6	x	198643	400.0000	1.4725
D:\GC-21\Data\2023\091423\091432.D	Calibration	7	x	394151	750.0000	1.4747
D:\GC-21\Data\2023\091423\091433.D	Calibration	8	x	522145	1000.0000	1.4807
D:\GC-21\Data\2023\091423\091434.D	Calibration	9	x	1064429	2000.0000	1.4471
D:\GC-21\Data\2023\091423\091435.D	Calibration	10	x	2573274	5000.0000	1.3841

Semivolatile Calibration

Date: 9/14/23

Analyst: SRH

MeCl2: 3017/7684

8270 Surrogate: 28818

Internal Standard: 28835

Cal	ICV
8270 Megamix: 28714	8270 Megamix: 28486
2,4-DNP: 28791	2,4-DNP: 28196
Benzoic Acid: 27263	Benzoic Acid: 28493
Benzidines: 23501	Benzidines: 28634

GC-21	Spike Conc. (ppb)	BN/Acid Surr Conc. (ppb)	2° Spike (uL)	B/N Surr (uL)	Internal Standard (uL)	Remove (uL)	Final Vol. (mL)	Comments
	2	2/1	0.2	--	10	10.2	1	For PAH-LL Cal Only
121	10	10/5	1	--	10	11	1	
122	20	20/10	2	--	10	12	1	
123	40	40/20	4	--	10	14	1	
124	100	100/50	10	--	10	20	1	
125	200	200/100	20	--	10	30	1	
126	500-400	500/250 ²⁰⁰	40	--	10	50	1	
127	750	750/375	75	--	10	85	1	
128	1000	1000/500	100	--	10	110	1	
129	2000	2000/1000	200	--	10	210	1	
130	5000	5000/2500	500	--	10	510	1	
131	ICB	1000/500		5	10	15	1	
132	ICV (1000 ppb)	1000/500	100 (2° SS)	--	10	110	1	

	Mega Mix (uL)	2,4-DNP (uL)	Benzoic Acid	8270 Surr	Benzidine	Final
2° Intermediate (cal)	100	100	100	500	50	10
2° Intermediate (SS)	10	10	10	50	5	1

Signature and Date: *SRH* 9/14/23

Signature: AK

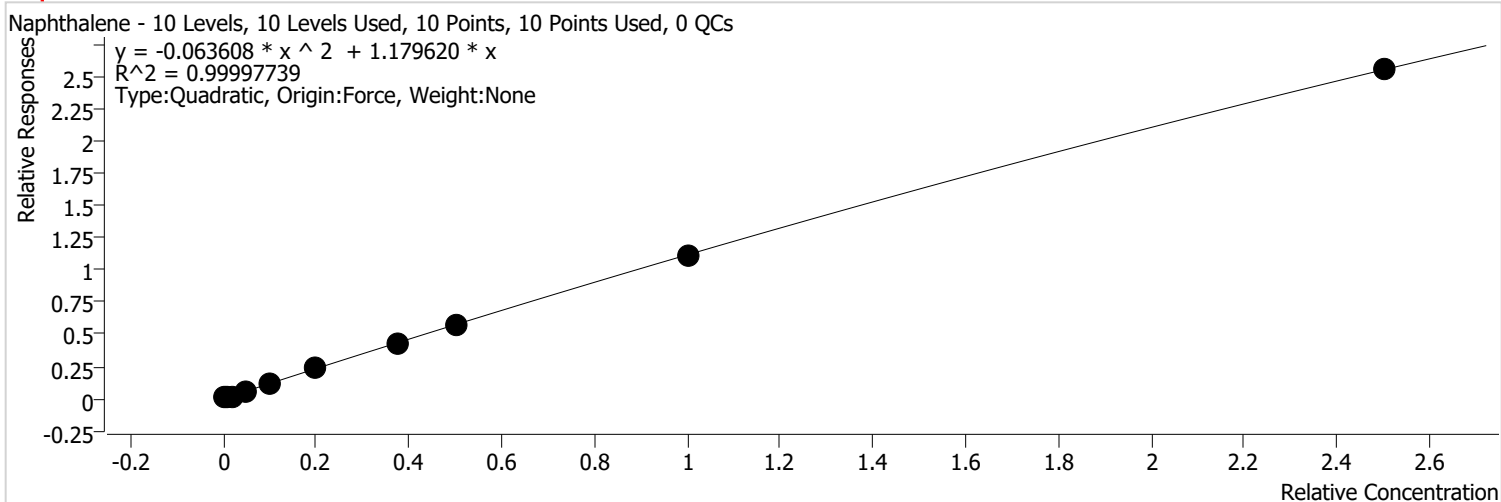
700 Building Calibration Template - SVOC v1.3

Official Approval: 7/6/2023

Calibration Report

Batch Path	C:\GC-14\Data\2023\091423\QuantResults\ccv.batch.bin		
Analysis Time	9/15/2023 9:55 AM	Analyst Name	FA\GC14
Report Time	9/15/2023 9:58:47 AM	Reporter Name	FA\GC14
Last Calib Update	9/15/2023 9:54 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Naphthalene %RSE = 6.0



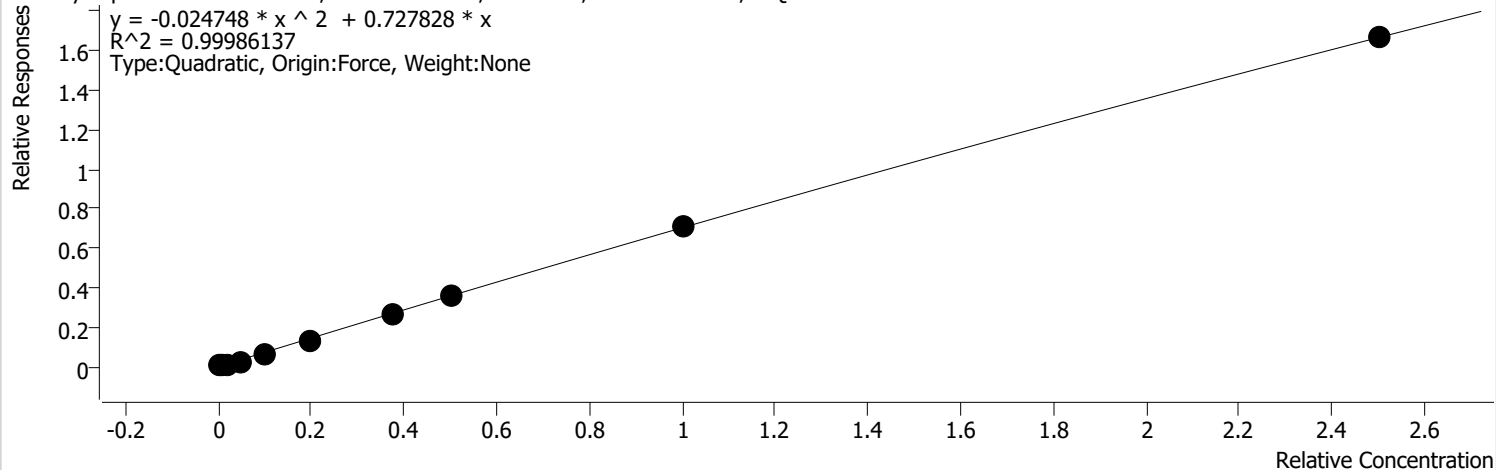
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\091423\091410.D	Calibration	1	x	2954	10.0000	1.1733	
C:\GC-14\Data\2023\091423\091411.D	Calibration	2	x	5277	20.0000	1.1013	
C:\GC-14\Data\2023\091423\091412.D	Calibration	3	x	10312	40.0000	1.1048	
C:\GC-14\Data\2023\091423\091413.D	Calibration	4	x	24754	100.0000	1.0472	
C:\GC-14\Data\2023\091423\091414.D	Calibration	5	x	51573	200.0000	1.0968	
C:\GC-14\Data\2023\091423\091415.D	Calibration	6	x	107163	400.0000	1.1676	
C:\GC-14\Data\2023\091423\091416.D	Calibration	7	x	201924	750.0000	1.1615	
C:\GC-14\Data\2023\091423\091417.D	Calibration	8	x	283079	1000.0000	1.1562	
C:\GC-14\Data\2023\091423\091418.D	Calibration	9	x	549613	2000.0000	1.1139	
C:\GC-14\Data\2023\091423\091419.D	Calibration	10	x	1317098	5000.0000	1.0207	

Calibration Report

Batch Path	C:\GC-14\Data\2023\091423\QuantResults\ccv.batch.bin		
Analysis Time	9/15/2023 9:55 AM	Analyst Name	FA\GC14
Report Time	9/15/2023 9:58:49 AM	Reporter Name	FA\GC14
Last Calib Update	9/15/2023 9:54 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

2-Methylnaphthalene %RSE = 15.6

2-Methylnaphthalene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



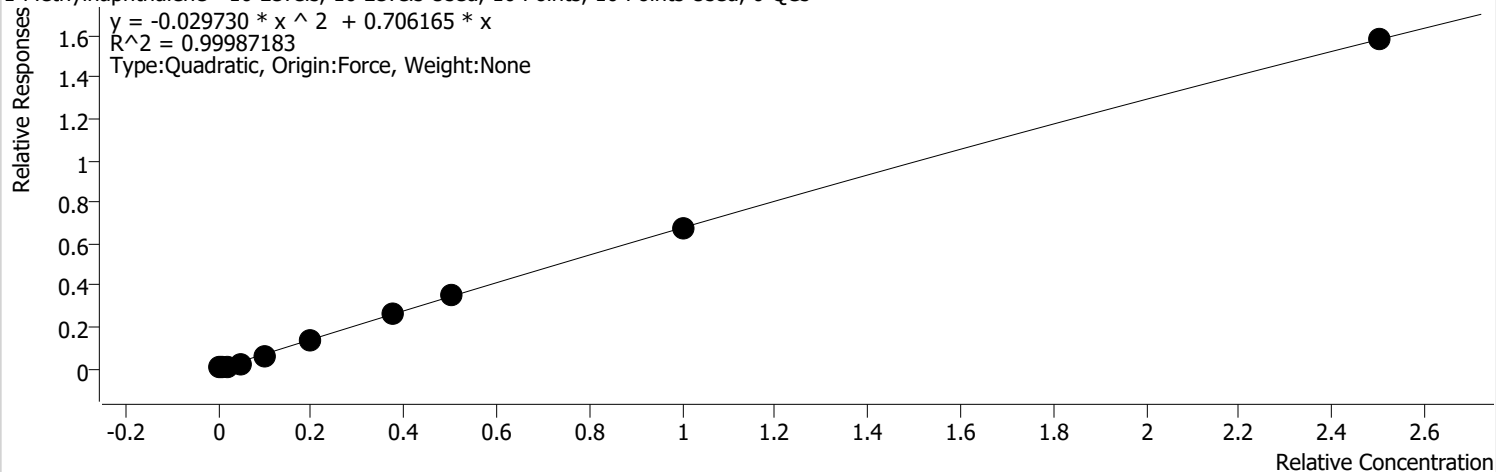
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\091423\091410.D	Calibration	1	x	1528	10.0000	0.6070	
C:\GC-14\Data\2023\091423\091411.D	Calibration	2	x	2829	20.0000	0.5904	
C:\GC-14\Data\2023\091423\091412.D	Calibration	3	x	5503	40.0000	0.5896	
C:\GC-14\Data\2023\091423\091413.D	Calibration	4	x	13591	100.0000	0.5749	
C:\GC-14\Data\2023\091423\091414.D	Calibration	5	x	28783	200.0000	0.6121	
C:\GC-14\Data\2023\091423\091415.D	Calibration	6	x	62353	400.0000	0.6794	
C:\GC-14\Data\2023\091423\091416.D	Calibration	7	x	122983	750.0000	0.7074	
C:\GC-14\Data\2023\091423\091417.D	Calibration	8	x	175531	1000.0000	0.7169	
C:\GC-14\Data\2023\091423\091418.D	Calibration	9	x	350351	2000.0000	0.7100	
C:\GC-14\Data\2023\091423\091419.D	Calibration	10	x	858879	5000.0000	0.6656	

Calibration Report

Batch Path	C:\GC-14\Data\2023\091423\QuantResults\ccv.batch.bin		
Analysis Time	9/15/2023 9:55 AM	Analyst Name	FA\GC14
Report Time	9/15/2023 9:58:49 AM	Reporter Name	FA\GC14
Last Calib Update	9/15/2023 9:54 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1-Methylnaphthalene %RSE = 18.3

1-Methylnaphthalene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs

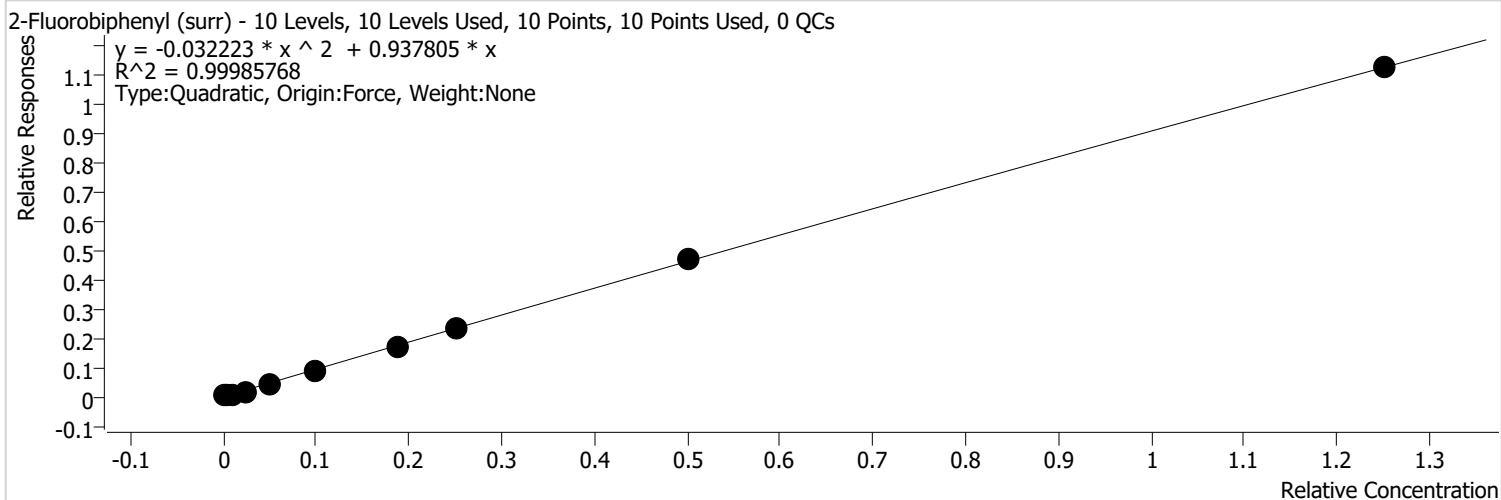


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\091423\091410.D	Calibration	1	x	1401	10.0000	0.5564	
C:\GC-14\Data\2023\091423\091411.D	Calibration	2	x	2621	20.0000	0.5469	
C:\GC-14\Data\2023\091423\091412.D	Calibration	3	x	5103	40.0000	0.5467	
C:\GC-14\Data\2023\091423\091413.D	Calibration	4	x	12716	100.0000	0.5379	
C:\GC-14\Data\2023\091423\091414.D	Calibration	5	x	27436	200.0000	0.5835	
C:\GC-14\Data\2023\091423\091415.D	Calibration	6	x	61467	400.0000	0.6697	
C:\GC-14\Data\2023\091423\091416.D	Calibration	7	x	120616	750.0000	0.6938	
C:\GC-14\Data\2023\091423\091417.D	Calibration	8	x	170968	1000.0000	0.6983	
C:\GC-14\Data\2023\091423\091418.D	Calibration	9	x	335019	2000.0000	0.6790	
C:\GC-14\Data\2023\091423\091419.D	Calibration	10	x	815108	5000.0000	0.6317	

Calibration Report

Batch Path	C:\GC-14\Data\2023\091423\QuantResults\ccv.batch.bin		
Analysis Time	9/15/2023 9:55 AM	Analyst Name	FA\GC14
Report Time	9/15/2023 9:58:49 AM	Reporter Name	FA\GC14
Last Calib Update	9/15/2023 9:54 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

2-Fluorobiphenyl (surr) %RSE =



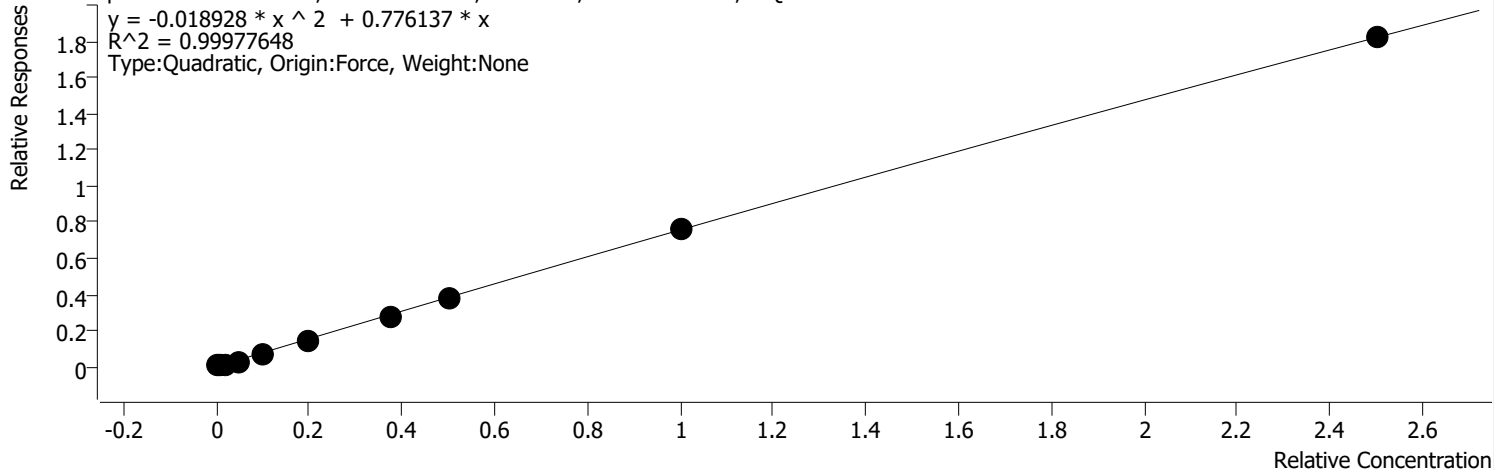
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\091423\091410.D	Calibration	1	x	1086	5.0000	0.8626	
C:\GC-14\Data\2023\091423\091411.D	Calibration	2	x	1866	10.0000	0.7790	
C:\GC-14\Data\2023\091423\091412.D	Calibration	3	x	3560	20.0000	0.7628	
C:\GC-14\Data\2023\091423\091413.D	Calibration	4	x	8552	50.0000	0.7236	
C:\GC-14\Data\2023\091423\091414.D	Calibration	5	x	18253	100.0000	0.7764	
C:\GC-14\Data\2023\091423\091415.D	Calibration	6	x	40311	200.0000	0.8784	
C:\GC-14\Data\2023\091423\091416.D	Calibration	7	x	79906	375.0000	0.9192	
C:\GC-14\Data\2023\091423\091417.D	Calibration	8	x	113740	500.0000	0.9291	
C:\GC-14\Data\2023\091423\091418.D	Calibration	9	x	229797	1000.0000	0.9314	
C:\GC-14\Data\2023\091423\091419.D	Calibration	10	x	578757	2500.0000	0.8970	

Calibration Report

Batch Path	C:\GC-14\Data\2023\091423\QuantResults\ccv.batch.bin		
Analysis Time	9/15/2023 9:55 AM	Analyst Name	FA\GC14
Report Time	9/15/2023 9:58:49 AM	Reporter Name	FA\GC14
Last Calib Update	9/15/2023 9:54 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

2-Chloronaphthalene %RSE = 21.5

2-Chloronaphthalene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs

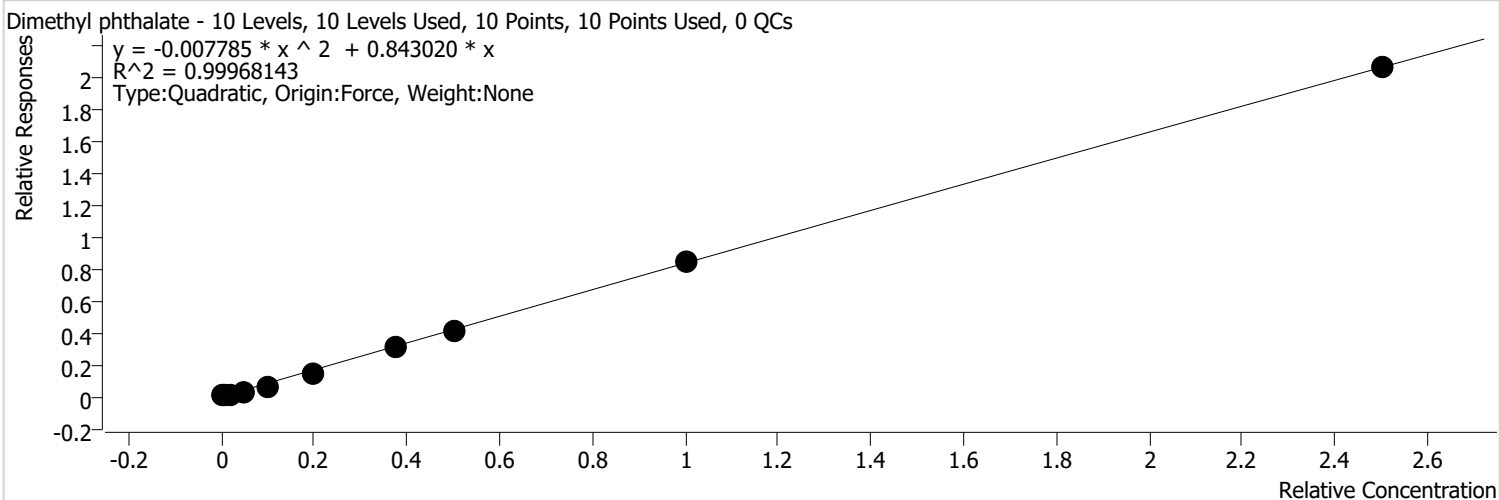


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\091423\091410.D	Calibration	1	x	1411	10.0000	0.5604	
C:\GC-14\Data\2023\091423\091411.D	Calibration	2	x	2720	20.0000	0.5676	
C:\GC-14\Data\2023\091423\091412.D	Calibration	3	x	5443	40.0000	0.5832	
C:\GC-14\Data\2023\091423\091413.D	Calibration	4	x	13624	100.0000	0.5763	
C:\GC-14\Data\2023\091423\091414.D	Calibration	5	x	29311	200.0000	0.6234	
C:\GC-14\Data\2023\091423\091415.D	Calibration	6	x	65235	400.0000	0.7108	
C:\GC-14\Data\2023\091423\091416.D	Calibration	7	x	130660	750.0000	0.7516	
C:\GC-14\Data\2023\091423\091417.D	Calibration	8	x	187831	1000.0000	0.7671	
C:\GC-14\Data\2023\091423\091418.D	Calibration	9	x	378810	2000.0000	0.7677	
C:\GC-14\Data\2023\091423\091419.D	Calibration	10	x	939755	5000.0000	0.7282	

Calibration Report

Batch Path	C:\GC-14\Data\2023\091423\QuantResults\ccv.batch.bin		
Analysis Time	9/15/2023 9:55 AM	Analyst Name	FA\GC14
Report Time	9/15/2023 9:58:49 AM	Reporter Name	FA\GC14
Last Calib Update	9/15/2023 9:54 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Dimethyl phthalate %RSE = 20.8



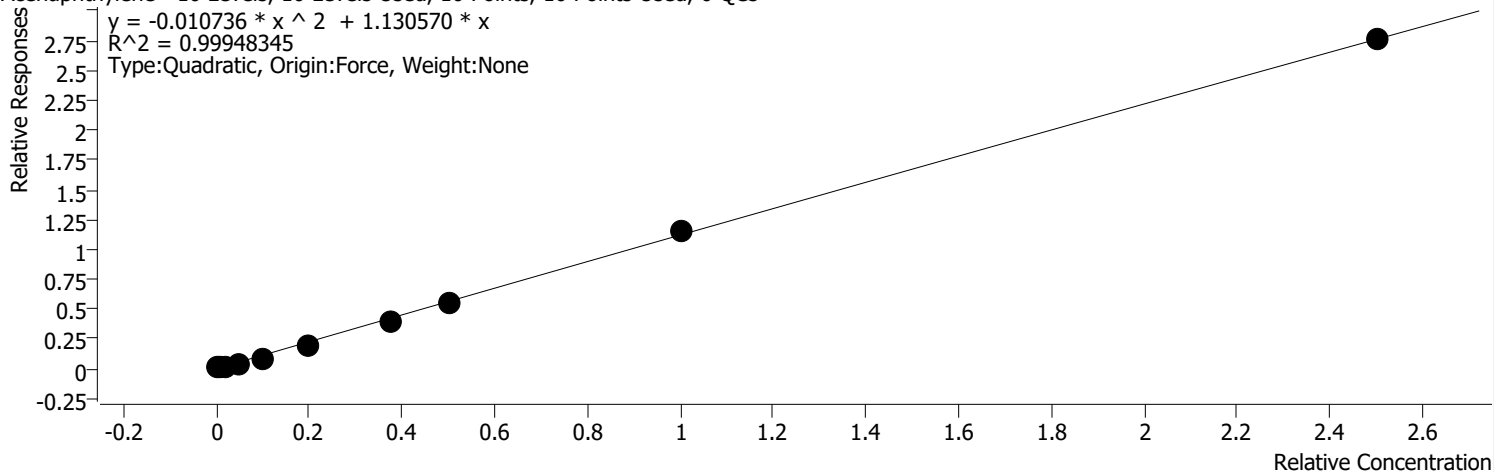
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\091423\091410.D	Calibration	1	x	1747	10.0000	0.6939	
C:\GC-14\Data\2023\091423\091411.D	Calibration	2	x	3057	20.0000	0.6380	
C:\GC-14\Data\2023\091423\091412.D	Calibration	3	x	5780	40.0000	0.6193	
C:\GC-14\Data\2023\091423\091413.D	Calibration	4	x	14326	100.0000	0.6060	
C:\GC-14\Data\2023\091423\091414.D	Calibration	5	x	30653	200.0000	0.6519	
C:\GC-14\Data\2023\091423\091415.D	Calibration	6	x	69070	400.0000	0.7526	
C:\GC-14\Data\2023\091423\091416.D	Calibration	7	x	141933	750.0000	0.8164	
C:\GC-14\Data\2023\091423\091417.D	Calibration	8	x	204269	1000.0000	0.8343	
C:\GC-14\Data\2023\091423\091418.D	Calibration	9	x	420019	2000.0000	0.8512	
C:\GC-14\Data\2023\091423\091419.D	Calibration	10	x	1061662	5000.0000	0.8227	

Calibration Report

Batch Path	C:\GC-14\Data\2023\091423\QuantResults\ccv.batch.bin		
Analysis Time	9/15/2023 9:55 AM	Analyst Name	FA\GC14
Report Time	9/15/2023 9:58:49 AM	Reporter Name	FA\GC14
Last Calib Update	9/15/2023 9:54 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Acenaphthylene %RSE = 26.7

Acenaphthylene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



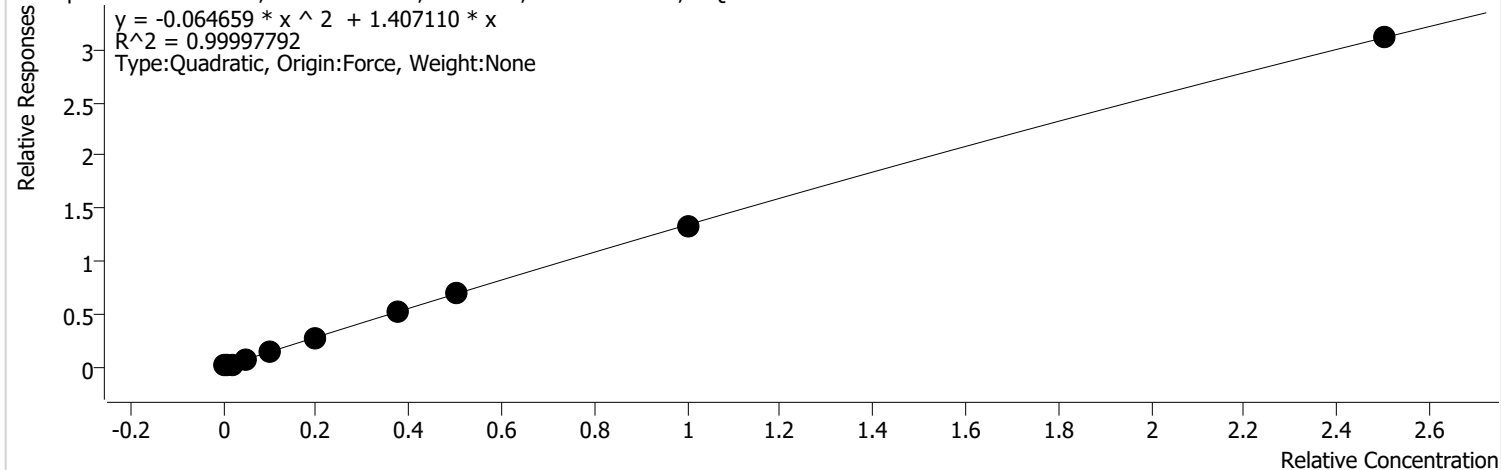
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\091423\091410.D	Calibration	1	x	1948	10.0000	0.7736	
C:\GC-14\Data\2023\091423\091411.D	Calibration	2	x	3667	20.0000	0.7652	
C:\GC-14\Data\2023\091423\091412.D	Calibration	3	x	7180	40.0000	0.7692	
C:\GC-14\Data\2023\091423\091413.D	Calibration	4	x	18105	100.0000	0.7659	
C:\GC-14\Data\2023\091423\091414.D	Calibration	5	x	39352	200.0000	0.8369	
C:\GC-14\Data\2023\091423\091415.D	Calibration	6	x	89549	400.0000	0.9757	
C:\GC-14\Data\2023\091423\091416.D	Calibration	7	x	186147	750.0000	1.0707	
C:\GC-14\Data\2023\091423\091417.D	Calibration	8	x	274246	1000.0000	1.1201	
C:\GC-14\Data\2023\091423\091418.D	Calibration	9	x	566709	2000.0000	1.1485	
C:\GC-14\Data\2023\091423\091419.D	Calibration	10	x	1422353	5000.0000	1.1022	

Calibration Report

Batch Path	C:\GC-14\Data\2023\091423\QuantResults\ccv.batch.bin		
Analysis Time	9/15/2023 9:55 AM	Analyst Name	FA\GC14
Report Time	9/15/2023 9:58:49 AM	Reporter Name	FA\GC14
Last Calib Update	9/15/2023 9:54 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Acenaphthene %RSE = 5.6

Acenaphthene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



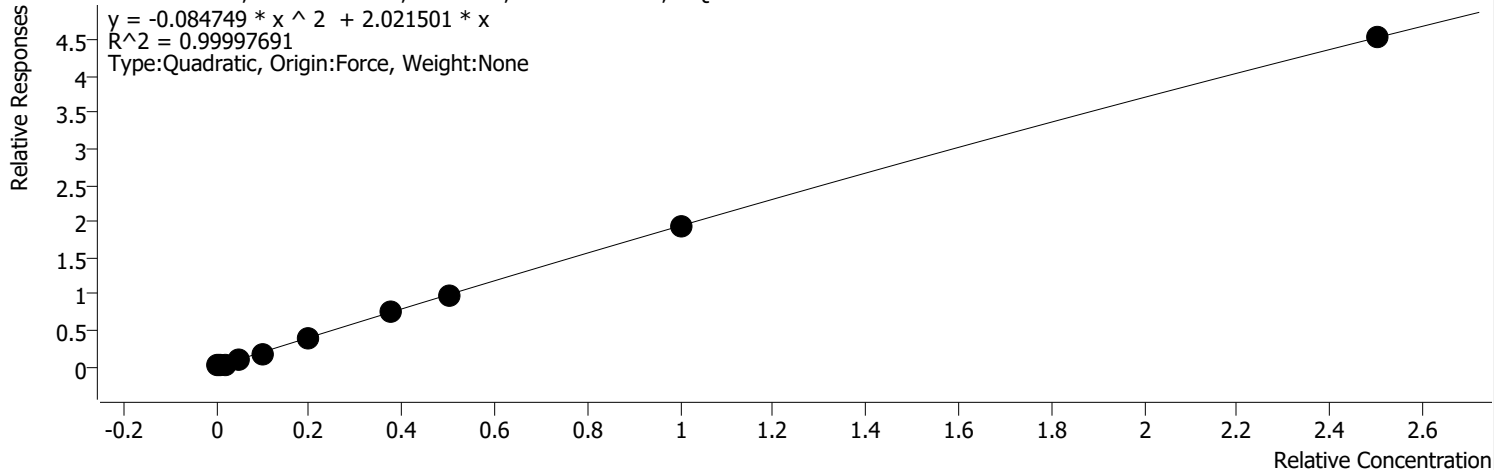
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\091423\091410.D	Calibration	1	x	1645	10.0000	1.4117	
C:\GC-14\Data\2023\091423\091411.D	Calibration	2	x	2942	20.0000	1.3203	
C:\GC-14\Data\2023\091423\091412.D	Calibration	3	x	5747	40.0000	1.3194	
C:\GC-14\Data\2023\091423\091413.D	Calibration	4	x	14104	100.0000	1.2623	
C:\GC-14\Data\2023\091423\091414.D	Calibration	5	x	30225	200.0000	1.3166	
C:\GC-14\Data\2023\091423\091415.D	Calibration	6	x	66761	400.0000	1.4053	
C:\GC-14\Data\2023\091423\091416.D	Calibration	7	x	132847	750.0000	1.3976	
C:\GC-14\Data\2023\091423\091417.D	Calibration	8	x	188730	1000.0000	1.3817	
C:\GC-14\Data\2023\091423\091418.D	Calibration	9	x	373005	2000.0000	1.3385	
C:\GC-14\Data\2023\091423\091419.D	Calibration	10	x	909740	5000.0000	1.2456	

Calibration Report

Batch Path	C:\GC-14\Data\2023\091423\QuantResults\ccv.batch.bin		
Analysis Time	9/15/2023 9:55 AM	Analyst Name	FA\GC14
Report Time	9/15/2023 9:58:49 AM	Reporter Name	FA\GC14
Last Calib Update	9/15/2023 9:54 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Dibenzofuran %RSE = 7.7

Dibenzofuran - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



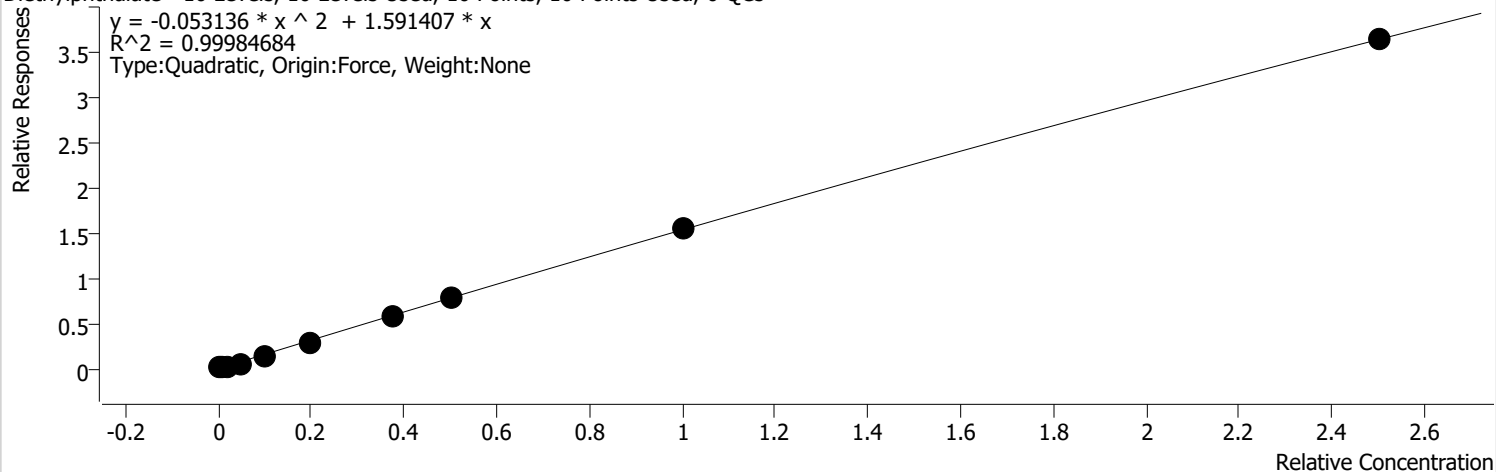
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\091423\091410.D	Calibration	1	x	2166	10.0000	1.8587	
C:\GC-14\Data\2023\091423\091411.D	Calibration	2	x	4096	20.0000	1.8384	
C:\GC-14\Data\2023\091423\091412.D	Calibration	3	x	7990	40.0000	1.8343	
C:\GC-14\Data\2023\091423\091413.D	Calibration	4	x	19931	100.0000	1.7839	
C:\GC-14\Data\2023\091423\091414.D	Calibration	5	x	42831	200.0000	1.8657	
C:\GC-14\Data\2023\091423\091415.D	Calibration	6	x	94803	400.0000	1.9956	
C:\GC-14\Data\2023\091423\091416.D	Calibration	7	x	189012	750.0000	1.9885	
C:\GC-14\Data\2023\091423\091417.D	Calibration	8	x	272067	1000.0000	1.9919	
C:\GC-14\Data\2023\091423\091418.D	Calibration	9	x	539726	2000.0000	1.9368	
C:\GC-14\Data\2023\091423\091419.D	Calibration	10	x	1321614	5000.0000	1.8095	

Calibration Report

Batch Path	C:\GC-14\Data\2023\091423\QuantResults\ccv.batch.bin		
Analysis Time	9/15/2023 9:55 AM	Analyst Name	FA\GC14
Report Time	9/15/2023 9:58:49 AM	Reporter Name	FA\GC14
Last Calib Update	9/15/2023 9:54 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Diethylphthalate %RSE = 14.0

Diethylphthalate - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



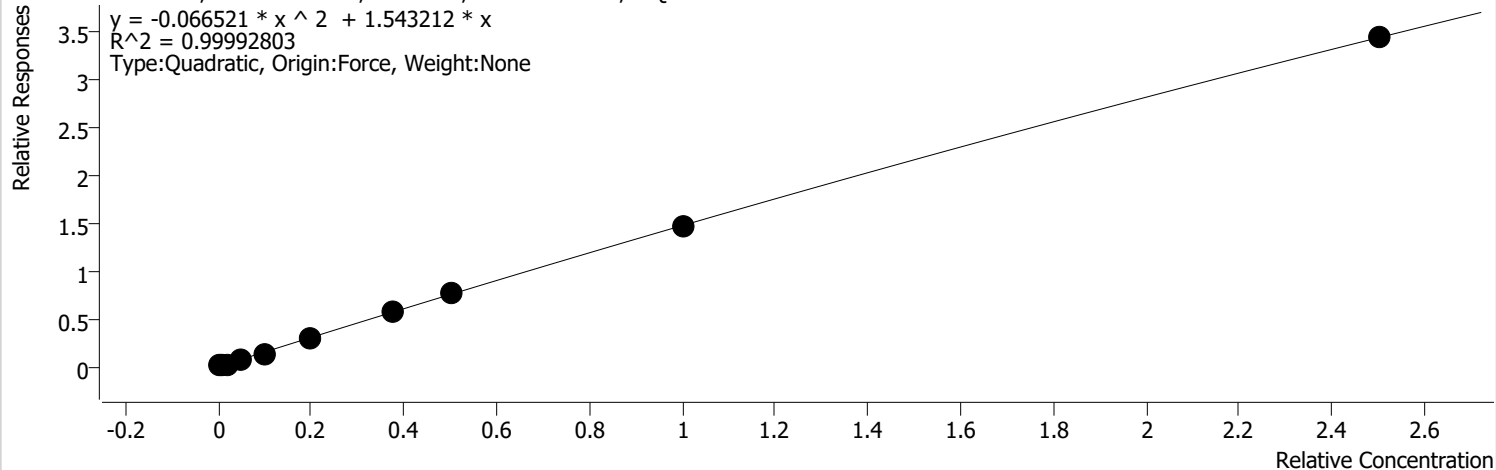
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\091423\091410.D	Calibration	1	x	1763	10.0000	1.5127	
C:\GC-14\Data\2023\091423\091411.D	Calibration	2	x	3035	20.0000	1.3624	
C:\GC-14\Data\2023\091423\091412.D	Calibration	3	x	5619	40.0000	1.2900	
C:\GC-14\Data\2023\091423\091413.D	Calibration	4	x	13883	100.0000	1.2425	
C:\GC-14\Data\2023\091423\091414.D	Calibration	5	x	30446	200.0000	1.3262	
C:\GC-14\Data\2023\091423\091415.D	Calibration	6	x	70731	400.0000	1.4889	
C:\GC-14\Data\2023\091423\091416.D	Calibration	7	x	146578	750.0000	1.5421	
C:\GC-14\Data\2023\091423\091417.D	Calibration	8	x	213587	1000.0000	1.5637	
C:\GC-14\Data\2023\091423\091418.D	Calibration	9	x	433602	2000.0000	1.5560	
C:\GC-14\Data\2023\091423\091419.D	Calibration	10	x	1064576	5000.0000	1.4576	

Calibration Report

Batch Path	C:\GC-14\Data\2023\091423\QuantResults\ccv.batch.bin		
Analysis Time	9/15/2023 9:55 AM	Analyst Name	FA\GC14
Report Time	9/15/2023 9:58:49 AM	Reporter Name	FA\GC14
Last Calib Update	9/15/2023 9:54 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Fluorene %RSE = 13.0

Fluorene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



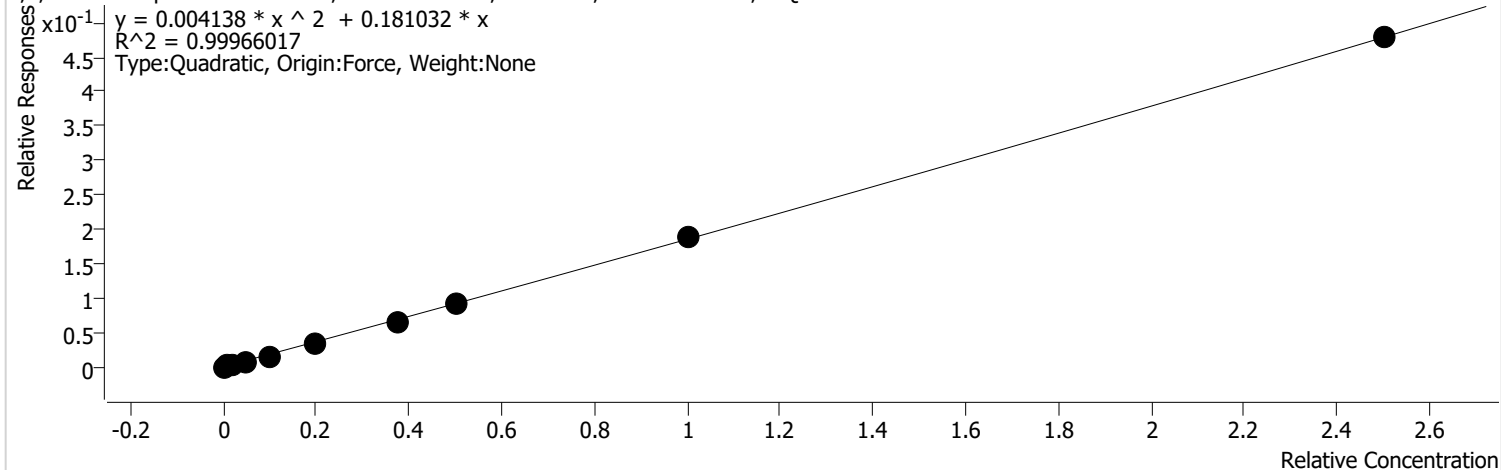
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\091423\091410.D	Calibration	1	x	1558	10.0000	1.3370	
C:\GC-14\Data\2023\091423\091411.D	Calibration	2	x	2904	20.0000	1.3035	
C:\GC-14\Data\2023\091423\091412.D	Calibration	3	x	5594	40.0000	1.2844	
C:\GC-14\Data\2023\091423\091413.D	Calibration	4	x	14184	100.0000	1.2695	
C:\GC-14\Data\2023\091423\091414.D	Calibration	5	x	30817	200.0000	1.3424	
C:\GC-14\Data\2023\091423\091415.D	Calibration	6	x	70173	400.0000	1.4772	
C:\GC-14\Data\2023\091423\091416.D	Calibration	7	x	144244	750.0000	1.5175	
C:\GC-14\Data\2023\091423\091417.D	Calibration	8	x	207664	1000.0000	1.5203	
C:\GC-14\Data\2023\091423\091418.D	Calibration	9	x	412726	2000.0000	1.4810	
C:\GC-14\Data\2023\091423\091419.D	Calibration	10	x	1005404	5000.0000	1.3766	

Calibration Report

Batch Path	C:\GC-14\Data\2023\091423\QuantResults\ccv.batch.bin		
Analysis Time	9/15/2023 9:55 AM	Analyst Name	FA\GC14
Report Time	9/15/2023 9:58:49 AM	Reporter Name	FA\GC14
Last Calib Update	9/15/2023 9:54 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

2,4,6-Tribromophenol %RSE =

2,4,6-Tribromophenol - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



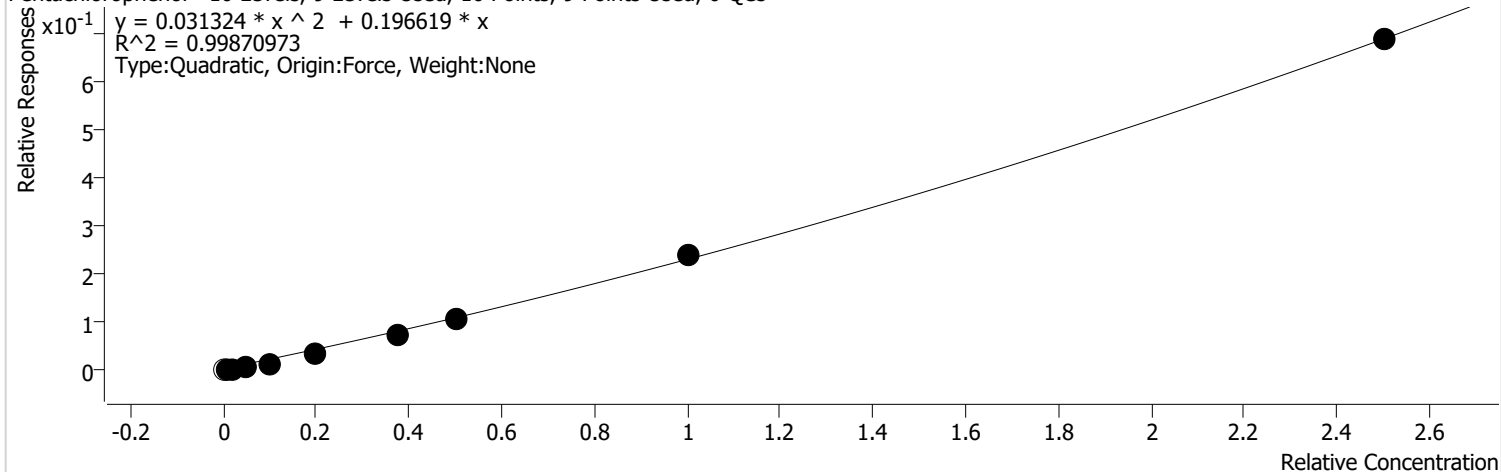
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\091423\091410.D	Calibration	1	x	115	10.0000	0.0988	
C:\GC-14\Data\2023\091423\091411.D	Calibration	2	x	183	20.0000	0.0819	
C:\GC-14\Data\2023\091423\091412.D	Calibration	3	x	391	40.0000	0.0898	
C:\GC-14\Data\2023\091423\091413.D	Calibration	4	x	1352	100.0000	0.1210	
C:\GC-14\Data\2023\091423\091414.D	Calibration	5	x	3329	200.0000	0.1450	
C:\GC-14\Data\2023\091423\091415.D	Calibration	6	x	7865	400.0000	0.1656	
C:\GC-14\Data\2023\091423\091416.D	Calibration	7	x	16613	750.0000	0.1748	
C:\GC-14\Data\2023\091423\091417.D	Calibration	8	x	24611	1000.0000	0.1802	
C:\GC-14\Data\2023\091423\091418.D	Calibration	9	x	52839	2000.0000	0.1896	
C:\GC-14\Data\2023\091423\091419.D	Calibration	10	x	139611	5000.0000	0.1912	

Calibration Report

Batch Path	C:\GC-14\Data\2023\091423\QuantResults\ccv.batch.bin		
Analysis Time	9/15/2023 9:55 AM	Analyst Name	FA\GC14
Report Time	9/15/2023 9:58:49 AM	Reporter Name	FA\GC14
Last Calib Update	9/15/2023 9:54 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Pentachlorophenol %RSE = 69.3

Pentachlorophenol - 10 Levels, 9 Levels Used, 10 Points, 9 Points Used, 0 QCs

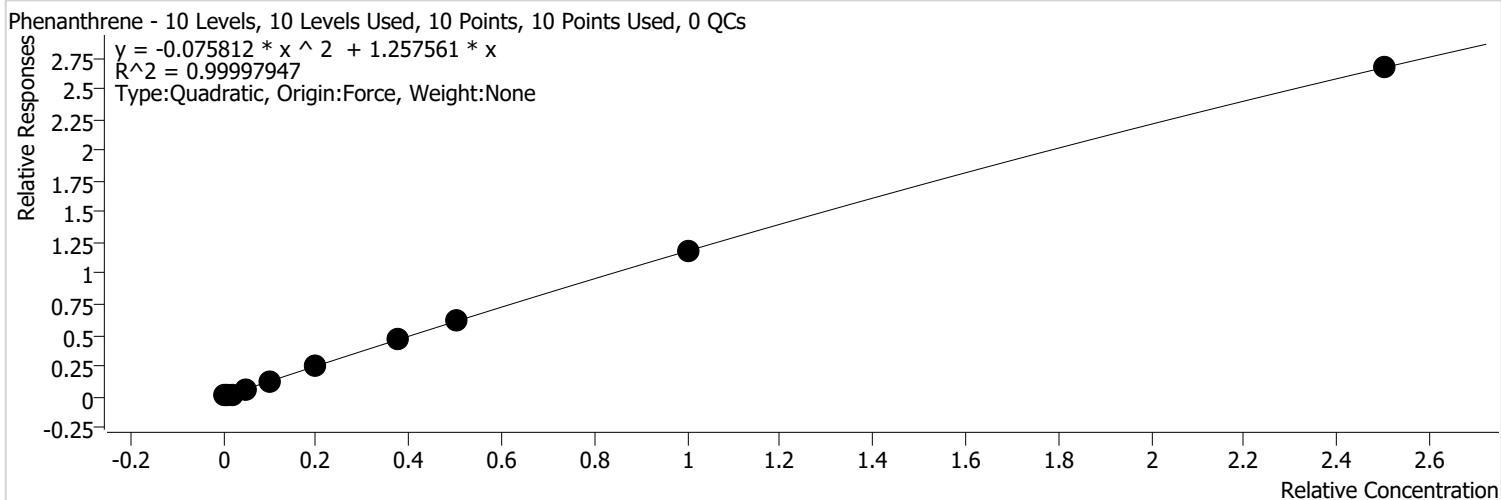


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\091423\091410.D	Calibration	1		0	10.0000	0.0000	
C:\GC-14\Data\2023\091423\091411.D	Calibration	2	x	29	20.0000	0.0129	
C:\GC-14\Data\2023\091423\091412.D	Calibration	3	x	51	40.0000	0.0117	
C:\GC-14\Data\2023\091423\091413.D	Calibration	4	x	322	100.0000	0.0288	
C:\GC-14\Data\2023\091423\091414.D	Calibration	5	x	1959	200.0000	0.0853	
C:\GC-14\Data\2023\091423\091415.D	Calibration	6	x	7142	400.0000	0.1503	
C:\GC-14\Data\2023\091423\091416.D	Calibration	7	x	17950	750.0000	0.1888	
C:\GC-14\Data\2023\091423\091417.D	Calibration	8	x	28415	1000.0000	0.2080	
C:\GC-14\Data\2023\091423\091418.D	Calibration	9	x	66644	2000.0000	0.2391	
C:\GC-14\Data\2023\091423\091419.D	Calibration	10	x	200372	5000.0000	0.2743	

Calibration Report

Batch Path	C:\GC-14\Data\2023\091423\QuantResults\ccv.batch.bin		
Analysis Time	9/15/2023 9:55 AM	Analyst Name	FA\GC14
Report Time	9/15/2023 9:58:49 AM	Reporter Name	FA\GC14
Last Calib Update	9/15/2023 9:54 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Phenanthrene %RSE = 5.2



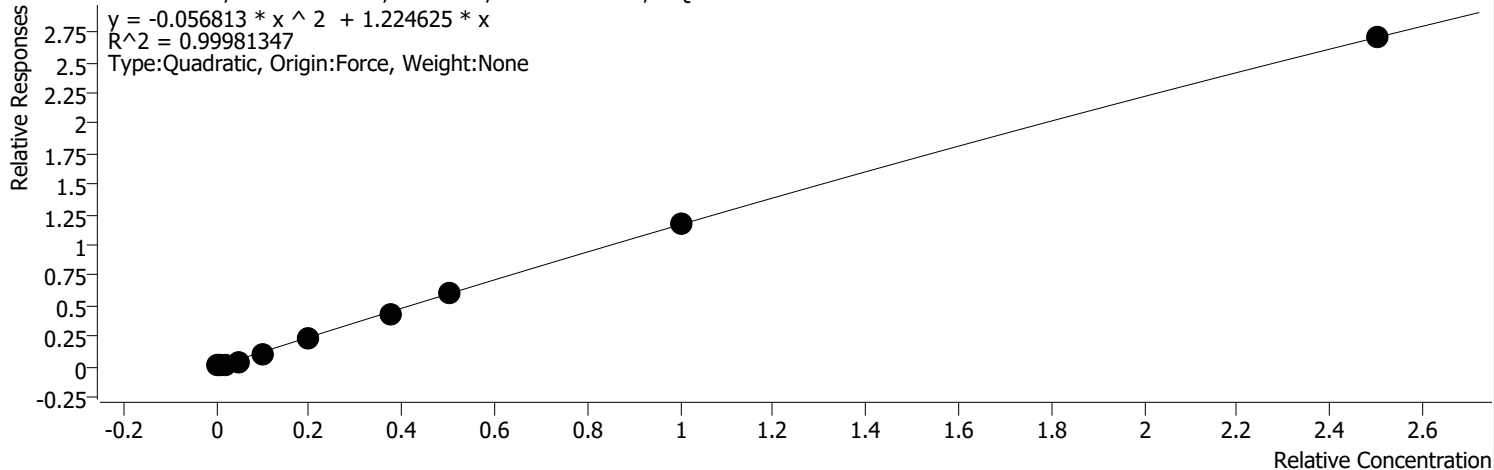
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\091423\091410.D	Calibration	1	x	2893	10.0000	1.2425	
C:\GC-14\Data\2023\091423\091411.D	Calibration	2	x	5421	20.0000	1.2172	
C:\GC-14\Data\2023\091423\091412.D	Calibration	3	x	10213	40.0000	1.1798	
C:\GC-14\Data\2023\091423\091413.D	Calibration	4	x	24835	100.0000	1.1329	
C:\GC-14\Data\2023\091423\091414.D	Calibration	5	x	52473	200.0000	1.1629	
C:\GC-14\Data\2023\091423\091415.D	Calibration	6	x	113490	400.0000	1.2390	
C:\GC-14\Data\2023\091423\091416.D	Calibration	7	x	218870	750.0000	1.2251	
C:\GC-14\Data\2023\091423\091417.D	Calibration	8	x	309839	1000.0000	1.2263	
C:\GC-14\Data\2023\091423\091418.D	Calibration	9	x	612240	2000.0000	1.1825	
C:\GC-14\Data\2023\091423\091419.D	Calibration	10	x	1478956	5000.0000	1.0680	

Calibration Report

Batch Path	C:\GC-14\Data\2023\091423\QuantResults\ccv.batch.bin		
Analysis Time	9/15/2023 9:55 AM	Analyst Name	FA\GC14
Report Time	9/15/2023 9:58:49 AM	Reporter Name	FA\GC14
Last Calib Update	9/15/2023 9:54 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Anthracene %RSE = 18.0

Anthracene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs

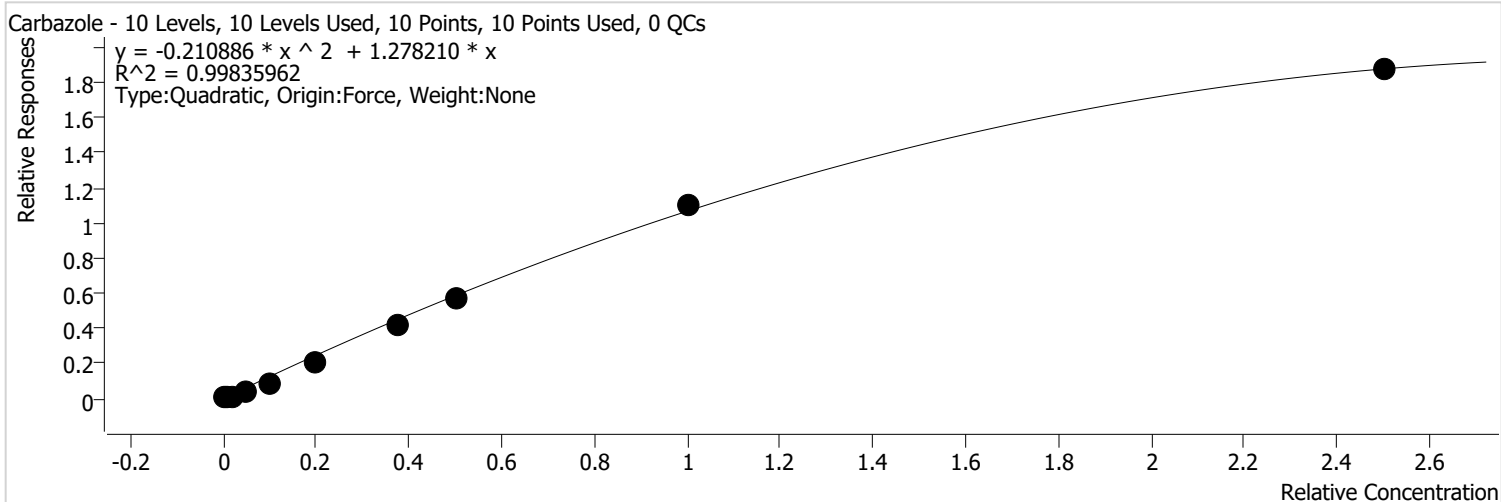


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\091423\091410.D	Calibration	1	x	2276	10.0000	0.9773	
C:\GC-14\Data\2023\091423\091411.D	Calibration	2	x	4268	20.0000	0.9584	
C:\GC-14\Data\2023\091423\091412.D	Calibration	3	x	8257	40.0000	0.9539	
C:\GC-14\Data\2023\091423\091413.D	Calibration	4	x	20586	100.0000	0.9391	
C:\GC-14\Data\2023\091423\091414.D	Calibration	5	x	45253	200.0000	1.0029	
C:\GC-14\Data\2023\091423\091415.D	Calibration	6	x	104157	400.0000	1.1371	
C:\GC-14\Data\2023\091423\091416.D	Calibration	7	x	210454	750.0000	1.1780	
C:\GC-14\Data\2023\091423\091417.D	Calibration	8	x	303235	1000.0000	1.2001	
C:\GC-14\Data\2023\091423\091418.D	Calibration	9	x	611498	2000.0000	1.1811	
C:\GC-14\Data\2023\091423\091419.D	Calibration	10	x	1498206	5000.0000	1.0819	

Calibration Report

Batch Path	C:\GC-14\Data\2023\091423\QuantResults\ccv.batch.bin		
Analysis Time	9/15/2023 9:55 AM	Analyst Name	FA\GC14
Report Time	9/15/2023 9:58:49 AM	Reporter Name	FA\GC14
Last Calib Update	9/15/2023 9:54 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Carbazole %RSE = 27.0



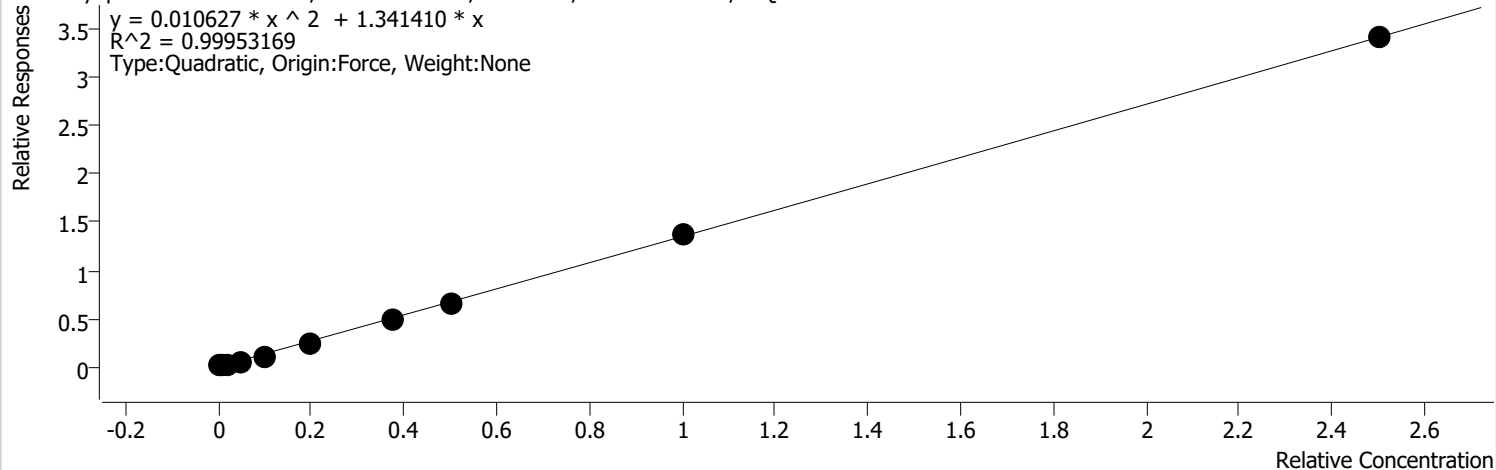
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\091423\091410.D	Calibration	1	x	2124	10.0000	0.9122	
C:\GC-14\Data\2023\091423\091411.D	Calibration	2	x	3835	20.0000	0.8612	
C:\GC-14\Data\2023\091423\091412.D	Calibration	3	x	7329	40.0000	0.8466	
C:\GC-14\Data\2023\091423\091413.D	Calibration	4	x	18612	100.0000	0.8490	
C:\GC-14\Data\2023\091423\091414.D	Calibration	5	x	41543	200.0000	0.9207	
C:\GC-14\Data\2023\091423\091415.D	Calibration	6	x	98277	400.0000	1.0729	
C:\GC-14\Data\2023\091423\091416.D	Calibration	7	x	199743	750.0000	1.1180	
C:\GC-14\Data\2023\091423\091417.D	Calibration	8	x	290099	1000.0000	1.1482	
C:\GC-14\Data\2023\091423\091418.D	Calibration	9	x	574262	2000.0000	1.1091	
C:\GC-14\Data\2023\091423\091419.D	Calibration	10	x	1037113	5000.0000	0.7489	

Calibration Report

Batch Path	C:\GC-14\Data\2023\091423\QuantResults\ccv.batch.bin		
Analysis Time	9/15/2023 9:55 AM	Analyst Name	FA\GC14
Report Time	9/15/2023 9:58:49 AM	Reporter Name	FA\GC14
Last Calib Update	9/15/2023 9:54 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Di-n-butyl phthalate %RSE = 43.6

Di-n-butyl phthalate - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs

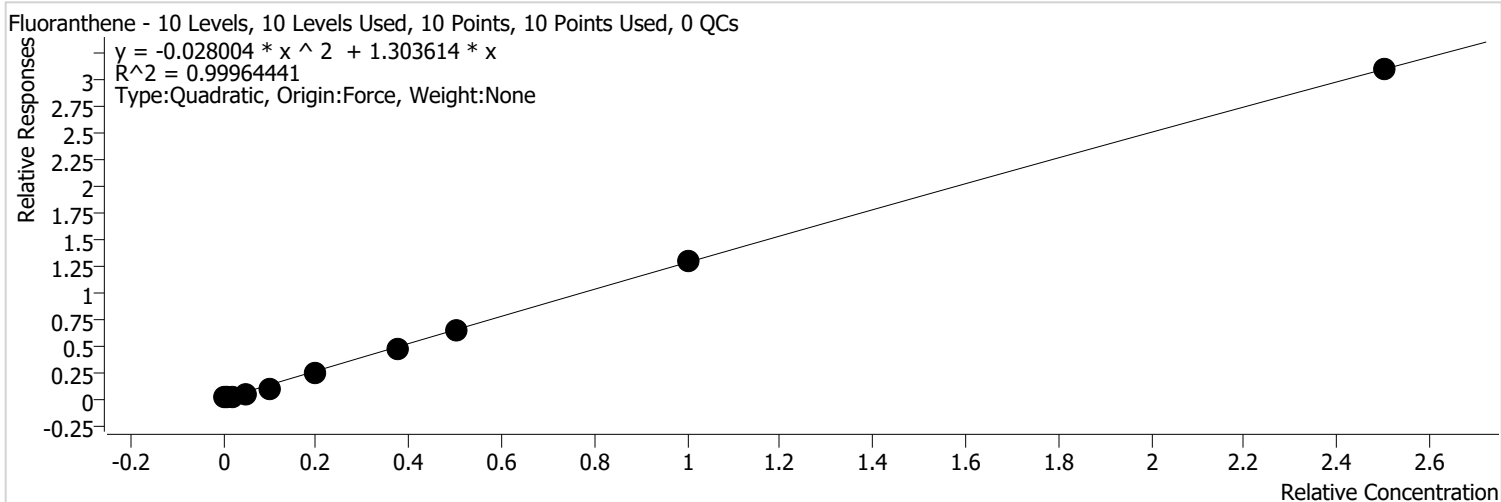


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\091423\091410.D	Calibration	1	x	6445	10.0000	2.7676	
C:\GC-14\Data\2023\091423\091411.D	Calibration	2	x	7243	20.0000	1.6265	
C:\GC-14\Data\2023\091423\091412.D	Calibration	3	x	10484	40.0000	1.2111	
C:\GC-14\Data\2023\091423\091413.D	Calibration	4	x	21854	100.0000	0.9969	
C:\GC-14\Data\2023\091423\091414.D	Calibration	5	x	45904	200.0000	1.0173	
C:\GC-14\Data\2023\091423\091415.D	Calibration	6	x	107206	400.0000	1.1704	
C:\GC-14\Data\2023\091423\091416.D	Calibration	7	x	227056	750.0000	1.2709	
C:\GC-14\Data\2023\091423\091417.D	Calibration	8	x	336867	1000.0000	1.3332	
C:\GC-14\Data\2023\091423\091418.D	Calibration	9	x	718936	2000.0000	1.3886	
C:\GC-14\Data\2023\091423\091419.D	Calibration	10	x	1891859	5000.0000	1.3661	

Calibration Report

Batch Path	C:\GC-14\Data\2023\091423\QuantResults\ccv.batch.bin		
Analysis Time	9/15/2023 9:55 AM	Analyst Name	FA\GC14
Report Time	9/15/2023 9:58:49 AM	Reporter Name	FA\GC14
Last Calib Update	9/15/2023 9:54 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Fluoranthene %RSE = 19.0

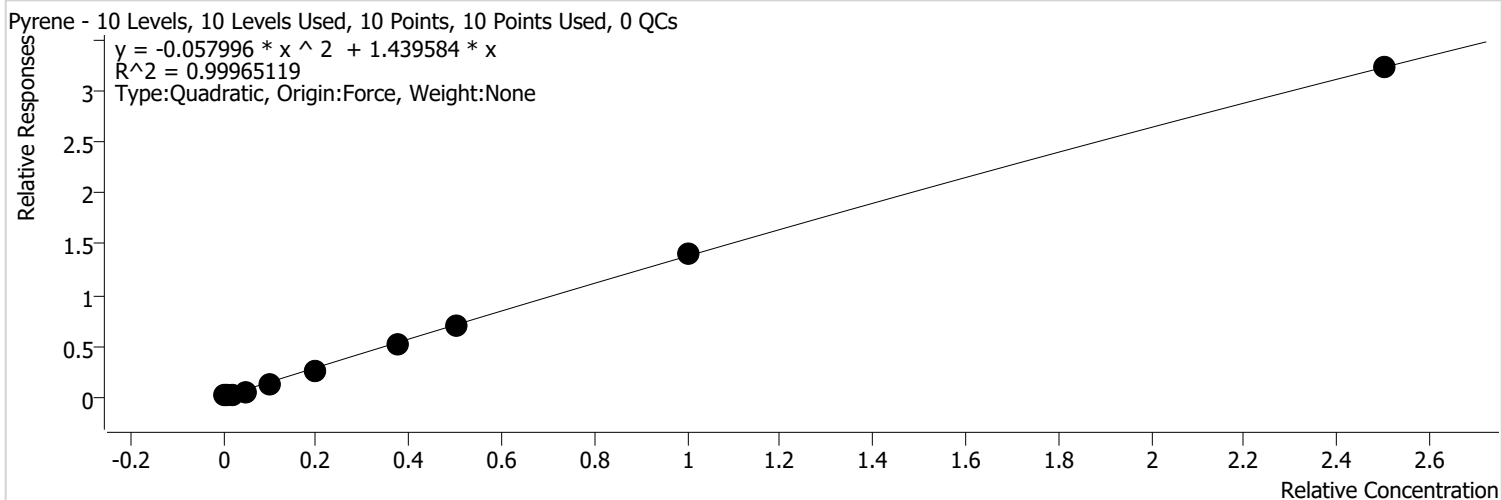


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\091423\091410.D	Calibration	1	x	2468	10.0000	1.0598	
C:\GC-14\Data\2023\091423\091411.D	Calibration	2	x	4533	20.0000	1.0178	
C:\GC-14\Data\2023\091423\091412.D	Calibration	3	x	8687	40.0000	1.0036	
C:\GC-14\Data\2023\091423\091413.D	Calibration	4	x	21543	100.0000	0.9828	
C:\GC-14\Data\2023\091423\091414.D	Calibration	5	x	46578	200.0000	1.0323	
C:\GC-14\Data\2023\091423\091415.D	Calibration	6	x	106471	400.0000	1.1624	
C:\GC-14\Data\2023\091423\091416.D	Calibration	7	x	220712	750.0000	1.2354	
C:\GC-14\Data\2023\091423\091417.D	Calibration	8	x	324686	1000.0000	1.2850	
C:\GC-14\Data\2023\091423\091418.D	Calibration	9	x	674530	2000.0000	1.3028	
C:\GC-14\Data\2023\091423\091419.D	Calibration	10	x	1706392	5000.0000	1.2322	

Calibration Report

Batch Path	C:\GC-14\Data\2023\091423\QuantResults\ccv.batch.bin		
Analysis Time	9/15/2023 9:55 AM	Analyst Name	FA\GC14
Report Time	9/15/2023 9:58:49 AM	Reporter Name	FA\GC14
Last Calib Update	9/15/2023 9:54 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Pyrene %RSE = 18.9

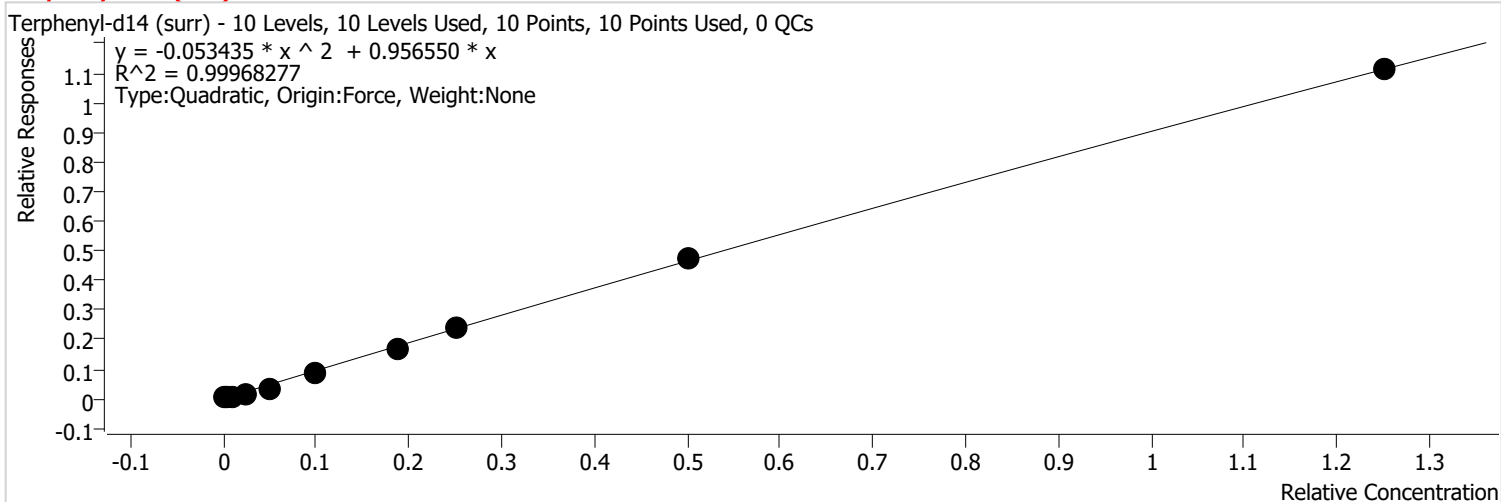


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\091423\091410.D	Calibration	1	x	3020	10.0000	1.2968	
C:\GC-14\Data\2023\091423\091411.D	Calibration	2	x	5127	20.0000	1.1512	
C:\GC-14\Data\2023\091423\091412.D	Calibration	3	x	9412	40.0000	1.0874	
C:\GC-14\Data\2023\091423\091413.D	Calibration	4	x	22860	100.0000	1.0428	
C:\GC-14\Data\2023\091423\091414.D	Calibration	5	x	49800	200.0000	1.1037	
C:\GC-14\Data\2023\091423\091415.D	Calibration	6	x	116667	400.0000	1.2737	
C:\GC-14\Data\2023\091423\091416.D	Calibration	7	x	246058	750.0000	1.3773	
C:\GC-14\Data\2023\091423\091417.D	Calibration	8	x	358278	1000.0000	1.4180	
C:\GC-14\Data\2023\091423\091418.D	Calibration	9	x	726840	2000.0000	1.4038	
C:\GC-14\Data\2023\091423\091419.D	Calibration	10	x	1791097	5000.0000	1.2934	

Calibration Report

Batch Path	C:\GC-14\Data\2023\091423\QuantResults\ccv.batch.bin		
Analysis Time	9/15/2023 9:55 AM	Analyst Name	FA\GC14
Report Time	9/15/2023 9:58:49 AM	Reporter Name	FA\GC14
Last Calib Update	9/15/2023 9:54 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Terphenyl-d14 (surr) %RSE =



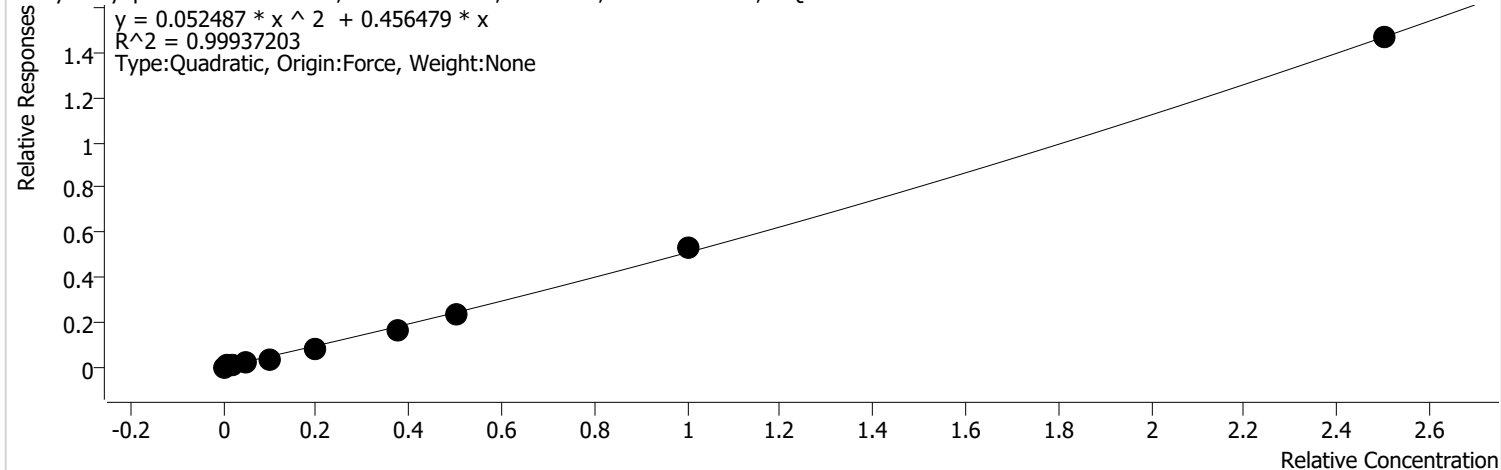
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\091423\091410.D	Calibration	1	x	852	5.0000	0.7319	
C:\GC-14\Data\2023\091423\091411.D	Calibration	2	x	1577	10.0000	0.7080	
C:\GC-14\Data\2023\091423\091412.D	Calibration	3	x	3030	20.0000	0.7000	
C:\GC-14\Data\2023\091423\091413.D	Calibration	4	x	7524	50.0000	0.6865	
C:\GC-14\Data\2023\091423\091414.D	Calibration	5	x	16558	100.0000	0.7339	
C:\GC-14\Data\2023\091423\091415.D	Calibration	6	x	39398	200.0000	0.8603	
C:\GC-14\Data\2023\091423\091416.D	Calibration	7	x	81769	375.0000	0.9154	
C:\GC-14\Data\2023\091423\091417.D	Calibration	8	x	120030	500.0000	0.9501	
C:\GC-14\Data\2023\091423\091418.D	Calibration	9	x	244417	1000.0000	0.9441	
C:\GC-14\Data\2023\091423\091419.D	Calibration	10	x	615533	2500.0000	0.8890	

Calibration Report

Batch Path	C:\GC-14\Data\2023\091423\QuantResults\ccv.batch.bin		
Analysis Time	9/15/2023 9:55 AM	Analyst Name	FA\GC14
Report Time	9/15/2023 9:58:49 AM	Reporter Name	FA\GC14
Last Calib Update	9/15/2023 9:54 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Benzyl Butyl phthalate %RSE = 23.7

Benzyl Butyl phthalate - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



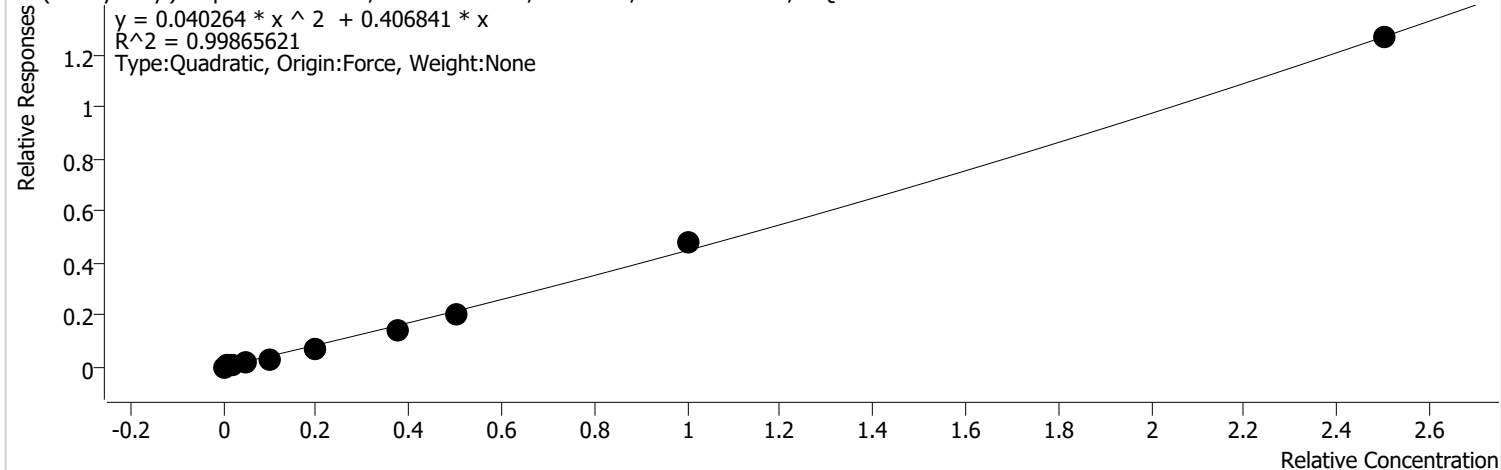
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\091423\091410.D	Calibration	1	x	834	10.0000	0.3580	
C:\GC-14\Data\2023\091423\091411.D	Calibration	2	x	1505	20.0000	0.3379	
C:\GC-14\Data\2023\091423\091412.D	Calibration	3	x	2830	40.0000	0.3269	
C:\GC-14\Data\2023\091423\091413.D	Calibration	4	x	6937	100.0000	0.3164	
C:\GC-14\Data\2023\091423\091414.D	Calibration	5	x	15437	200.0000	0.3421	
C:\GC-14\Data\2023\091423\091415.D	Calibration	6	x	35859	400.0000	0.3915	
C:\GC-14\Data\2023\091423\091416.D	Calibration	7	x	76785	750.0000	0.4298	
C:\GC-14\Data\2023\091423\091417.D	Calibration	8	x	119120	1000.0000	0.4715	
C:\GC-14\Data\2023\091423\091418.D	Calibration	9	x	273992	2000.0000	0.5292	
C:\GC-14\Data\2023\091423\091419.D	Calibration	10	x	812485	5000.0000	0.5867	

Calibration Report

Batch Path	C:\GC-14\Data\2023\091423\QuantResults\ccv.batch.bin		
Analysis Time	9/15/2023 9:55 AM	Analyst Name	FA\GC14
Report Time	9/15/2023 9:58:49 AM	Reporter Name	FA\GC14
Last Calib Update	9/15/2023 9:54 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

bis (2-Ethylhexyl) adipate %RSE = 30.2

bis (2-Ethylhexyl) adipate - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



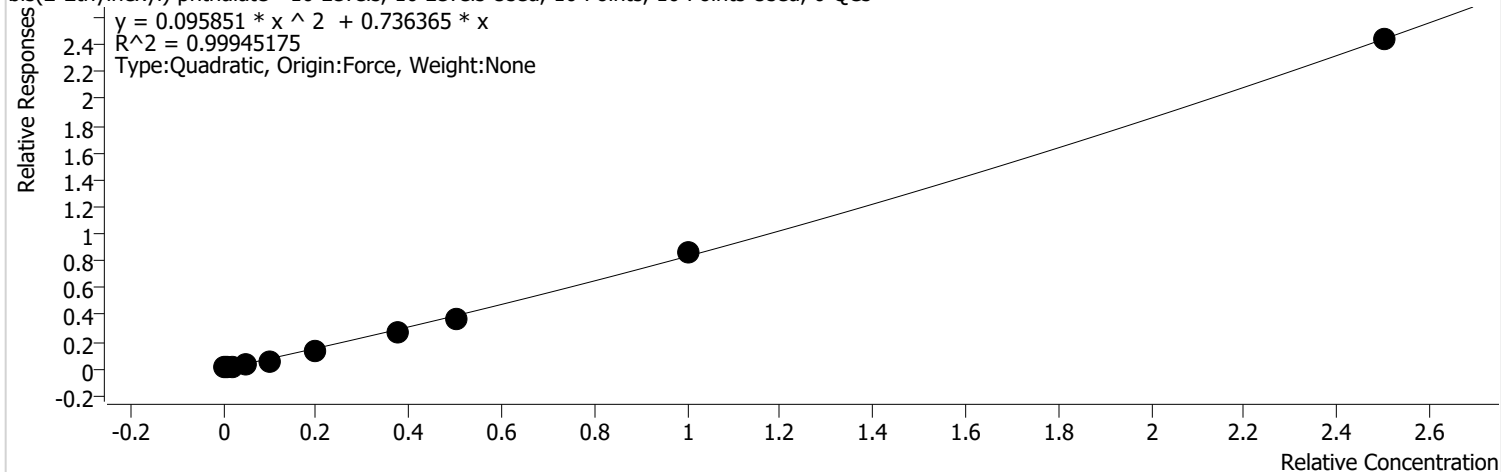
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\091423\091410.D	Calibration	1	x	726	10.0000	0.3119	
C:\GC-14\Data\2023\091423\091411.D	Calibration	2	x	1191	20.0000	0.2675	
C:\GC-14\Data\2023\091423\091412.D	Calibration	3	x	2207	40.0000	0.2550	
C:\GC-14\Data\2023\091423\091413.D	Calibration	4	x	5485	100.0000	0.2502	
C:\GC-14\Data\2023\091423\091414.D	Calibration	5	x	12456	200.0000	0.2761	
C:\GC-14\Data\2023\091423\091415.D	Calibration	6	x	29470	400.0000	0.3217	
C:\GC-14\Data\2023\091423\091416.D	Calibration	7	x	64966	750.0000	0.3636	
C:\GC-14\Data\2023\091423\091417.D	Calibration	8	x	103029	1000.0000	0.4078	
C:\GC-14\Data\2023\091423\091418.D	Calibration	9	x	245294	2000.0000	0.4738	
C:\GC-14\Data\2023\091423\091419.D	Calibration	10	x	701015	5000.0000	0.5062	

Calibration Report

Batch Path	C:\GC-14\Data\2023\091423\QuantResults\ccv.batch.bin		
Analysis Time	9/15/2023 9:55 AM	Analyst Name	FA\GC14
Report Time	9/15/2023 9:58:49 AM	Reporter Name	FA\GC14
Last Calib Update	9/15/2023 9:54 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

bis(2-Ethylhexyl) phthalate %RSE = 17.4

bis(2-Ethylhexyl) phthalate - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



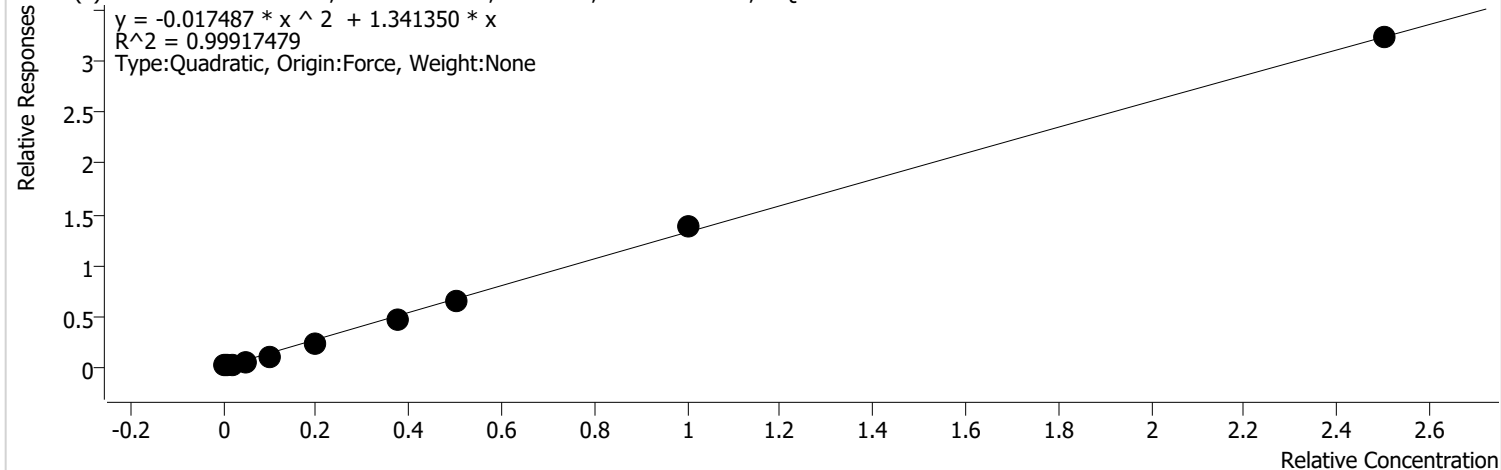
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\091423\091410.D	Calibration	1	x	1663	10.0000	0.8870	
C:\GC-14\Data\2023\091423\091411.D	Calibration	2	x	2533	20.0000	0.7042	
C:\GC-14\Data\2023\091423\091412.D	Calibration	3	x	4403	40.0000	0.6167	
C:\GC-14\Data\2023\091423\091413.D	Calibration	4	x	10059	100.0000	0.5541	
C:\GC-14\Data\2023\091423\091414.D	Calibration	5	x	22060	200.0000	0.5752	
C:\GC-14\Data\2023\091423\091415.D	Calibration	6	x	52360	400.0000	0.6576	
C:\GC-14\Data\2023\091423\091416.D	Calibration	7	x	114565	750.0000	0.7043	
C:\GC-14\Data\2023\091423\091417.D	Calibration	8	x	179284	1000.0000	0.7524	
C:\GC-14\Data\2023\091423\091418.D	Calibration	9	x	426658	2000.0000	0.8660	
C:\GC-14\Data\2023\091423\091419.D	Calibration	10	x	1238960	5000.0000	0.9744	

Calibration Report

Batch Path	C:\GC-14\Data\2023\091423\QuantResults\ccv.batch.bin		
Analysis Time	9/15/2023 9:55 AM	Analyst Name	FA\GC14
Report Time	9/15/2023 9:58:49 AM	Reporter Name	FA\GC14
Last Calib Update	9/15/2023 9:54 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Benzo (a) anthracene %RSE = 18.4

Benzo (a) anthracene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs

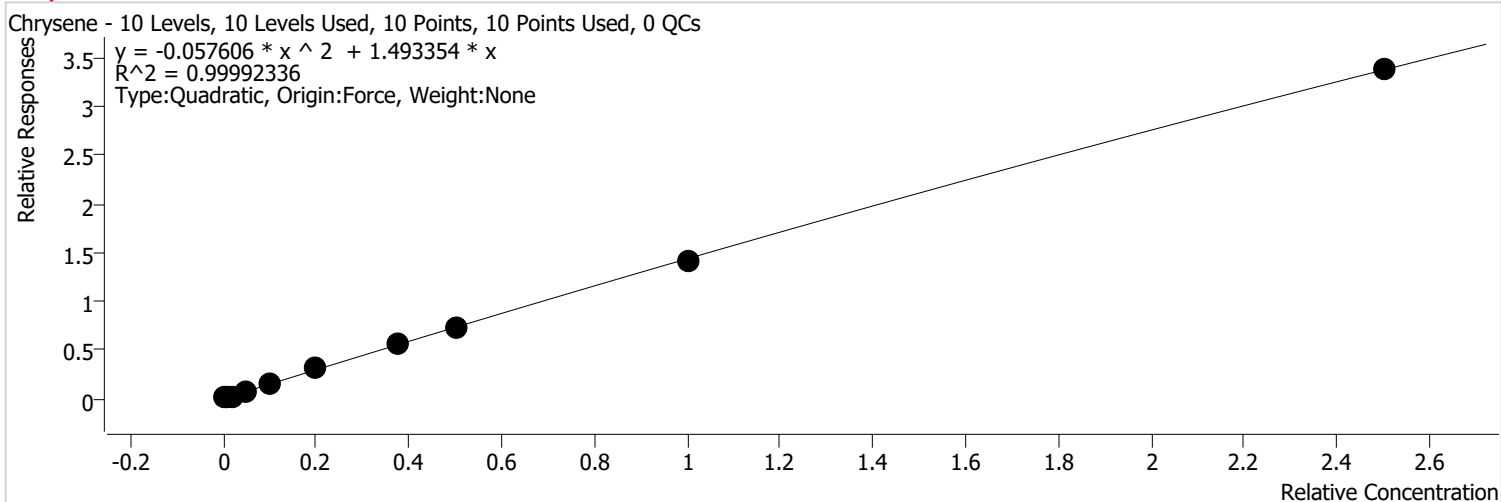


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\091423\091410.D	Calibration	1	x	3361	10.0000	1.4432	
C:\GC-14\Data\2023\091423\091411.D	Calibration	2	x	5222	20.0000	1.1726	
C:\GC-14\Data\2023\091423\091412.D	Calibration	3	x	8959	40.0000	1.0350	
C:\GC-14\Data\2023\091423\091413.D	Calibration	4	x	21231	100.0000	0.9685	
C:\GC-14\Data\2023\091423\091414.D	Calibration	5	x	46202	200.0000	1.0239	
C:\GC-14\Data\2023\091423\091415.D	Calibration	6	x	105218	400.0000	1.1487	
C:\GC-14\Data\2023\091423\091416.D	Calibration	7	x	217647	750.0000	1.2182	
C:\GC-14\Data\2023\091423\091417.D	Calibration	8	x	329010	1000.0000	1.3022	
C:\GC-14\Data\2023\091423\091418.D	Calibration	9	x	712233	2000.0000	1.3756	
C:\GC-14\Data\2023\091423\091419.D	Calibration	10	x	1793487	5000.0000	1.2951	

Calibration Report

Batch Path	C:\GC-14\Data\2023\091423\QuantResults\ccv.batch.bin		
Analysis Time	9/15/2023 9:55 AM	Analyst Name	FA\GC14
Report Time	9/15/2023 9:58:49 AM	Reporter Name	FA\GC14
Last Calib Update	9/15/2023 9:54 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Chrysene %RSE = 4.4

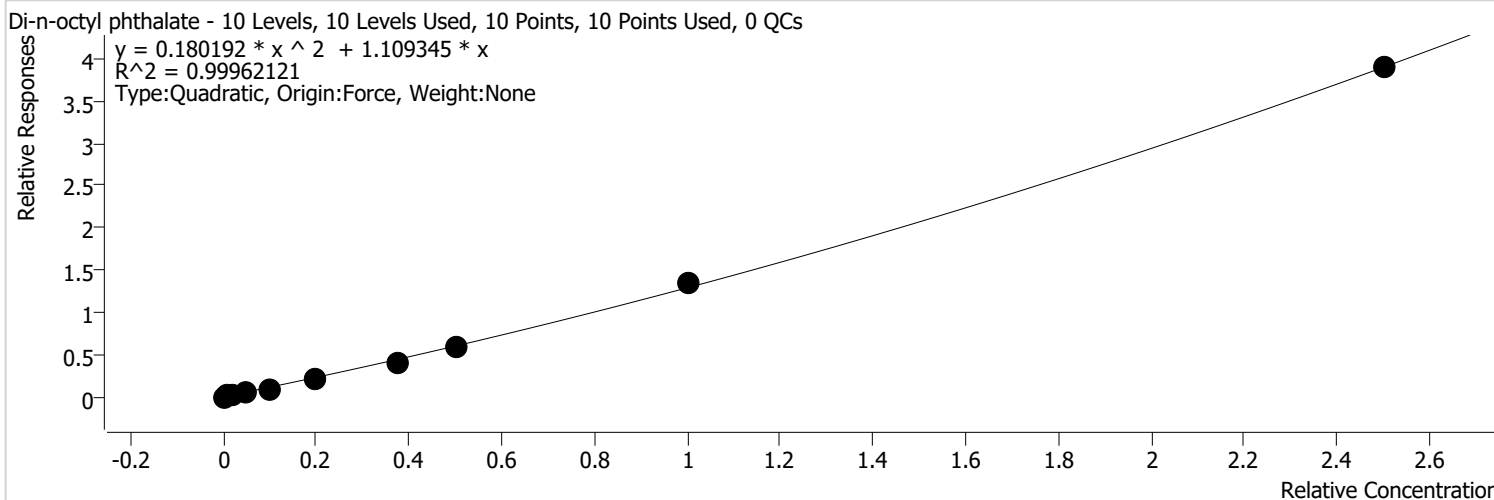


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\091423\091410.D	Calibration	1	x	2796	10.0000	1.4918	
C:\GC-14\Data\2023\091423\091411.D	Calibration	2	x	5193	20.0000	1.4436	
C:\GC-14\Data\2023\091423\091412.D	Calibration	3	x	10109	40.0000	1.4159	
C:\GC-14\Data\2023\091423\091413.D	Calibration	4	x	24960	100.0000	1.3750	
C:\GC-14\Data\2023\091423\091414.D	Calibration	5	x	54944	200.0000	1.4328	
C:\GC-14\Data\2023\091423\091415.D	Calibration	6	x	122590	400.0000	1.5395	
C:\GC-14\Data\2023\091423\091416.D	Calibration	7	x	245680	750.0000	1.5103	
C:\GC-14\Data\2023\091423\091417.D	Calibration	8	x	353528	1000.0000	1.4836	
C:\GC-14\Data\2023\091423\091418.D	Calibration	9	x	699406	2000.0000	1.4196	
C:\GC-14\Data\2023\091423\091419.D	Calibration	10	x	1716662	5000.0000	1.3501	

Calibration Report

Batch Path	C:\GC-14\Data\2023\091423\QuantResults\ccv.batch.bin		
Analysis Time	9/15/2023 9:55 AM	Analyst Name	FA\GC14
Report Time	9/15/2023 9:58:49 AM	Reporter Name	FA\GC14
Last Calib Update	9/15/2023 9:54 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Di-n-octyl phthalate %RSE = 16.9



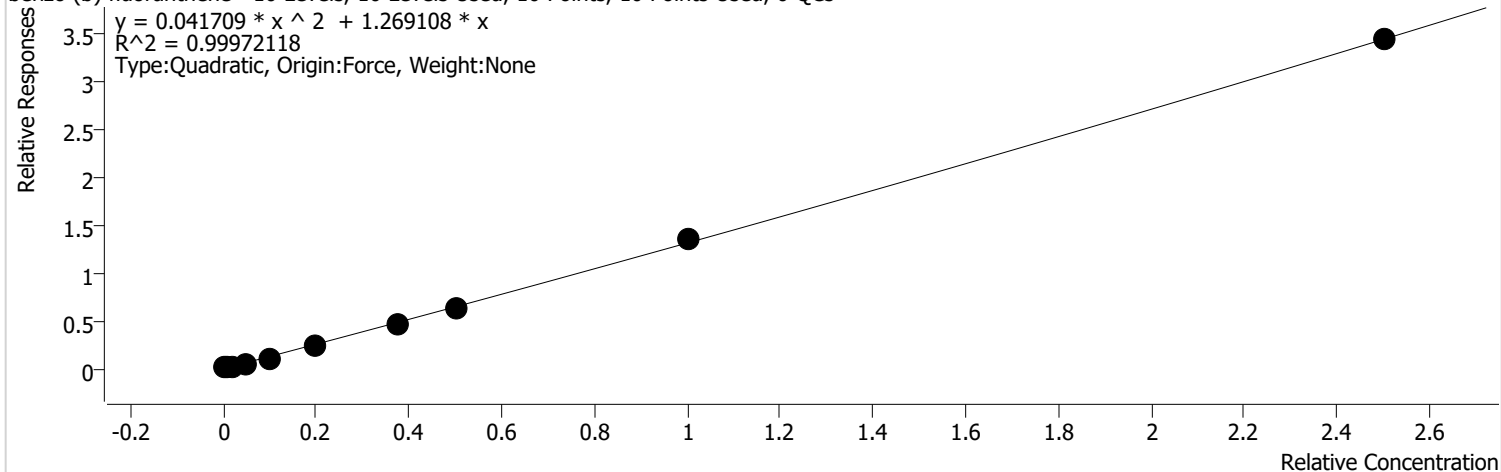
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\091423\091410.D	Calibration	1	x	1780	10.0000	0.9499	
C:\GC-14\Data\2023\091423\091411.D	Calibration	2	x	3293	20.0000	0.9154	
C:\GC-14\Data\2023\091423\091412.D	Calibration	3	x	6396	40.0000	0.8959	
C:\GC-14\Data\2023\091423\091413.D	Calibration	4	x	15513	100.0000	0.8546	
C:\GC-14\Data\2023\091423\091414.D	Calibration	5	x	34835	200.0000	0.9084	
C:\GC-14\Data\2023\091423\091415.D	Calibration	6	x	80790	400.0000	1.0146	
C:\GC-14\Data\2023\091423\091416.D	Calibration	7	x	177641	750.0000	1.0920	
C:\GC-14\Data\2023\091423\091417.D	Calibration	8	x	274744	1000.0000	1.1529	
C:\GC-14\Data\2023\091423\091418.D	Calibration	9	x	657593	2000.0000	1.3347	
C:\GC-14\Data\2023\091423\091419.D	Calibration	10	x	1980648	5000.0000	1.5577	

Calibration Report

Batch Path	C:\GC-14\Data\2023\091423\QuantResults\ccv.batch.bin		
Analysis Time	9/15/2023 9:55 AM	Analyst Name	FA\GC14
Report Time	9/15/2023 9:58:49 AM	Reporter Name	FA\GC14
Last Calib Update	9/15/2023 9:54 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

benzo (b) fluoranthene %RSE = 8.6

benzo (b) fluoranthene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



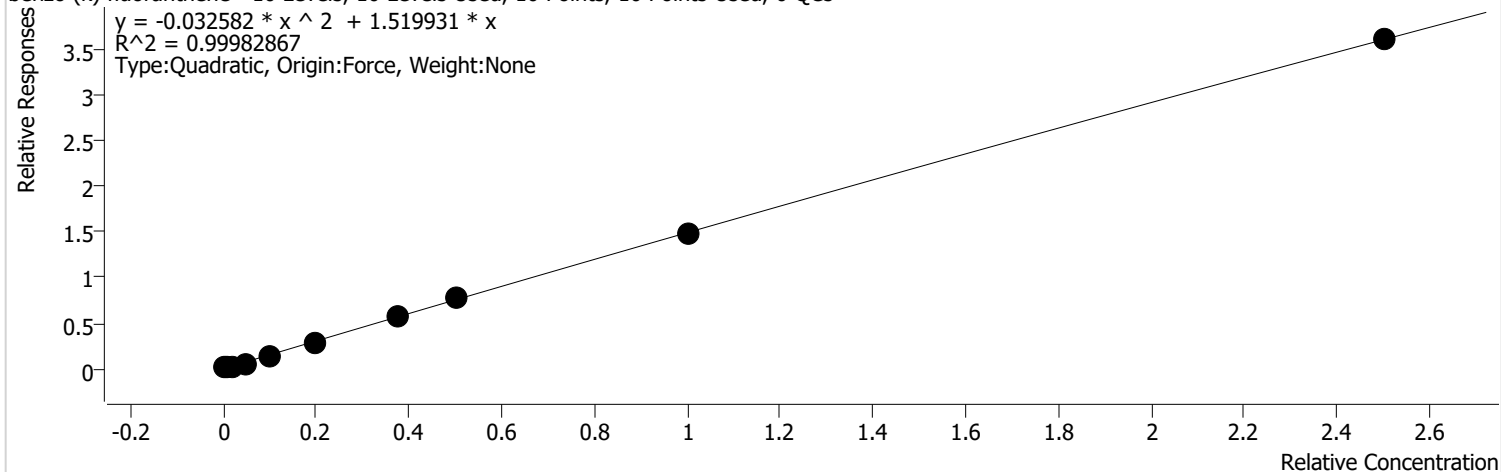
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\091423\091410.D	Calibration	1	x	2332	10.0000	1.2442	
C:\GC-14\Data\2023\091423\091411.D	Calibration	2	x	4218	20.0000	1.1726	
C:\GC-14\Data\2023\091423\091412.D	Calibration	3	x	8070	40.0000	1.1303	
C:\GC-14\Data\2023\091423\091413.D	Calibration	4	x	20118	100.0000	1.1083	
C:\GC-14\Data\2023\091423\091414.D	Calibration	5	x	43995	200.0000	1.1473	
C:\GC-14\Data\2023\091423\091415.D	Calibration	6	x	96847	400.0000	1.2162	
C:\GC-14\Data\2023\091423\091416.D	Calibration	7	x	198600	750.0000	1.2209	
C:\GC-14\Data\2023\091423\091417.D	Calibration	8	x	295620	1000.0000	1.2405	
C:\GC-14\Data\2023\091423\091418.D	Calibration	9	x	663419	2000.0000	1.3466	
C:\GC-14\Data\2023\091423\091419.D	Calibration	10	x	1744229	5000.0000	1.3717	

Calibration Report

Batch Path	C:\GC-14\Data\2023\091423\QuantResults\ccv.batch.bin		
Analysis Time	9/15/2023 9:55 AM	Analyst Name	FA\GC14
Report Time	9/15/2023 9:58:49 AM	Reporter Name	FA\GC14
Last Calib Update	9/15/2023 9:54 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

benzo (k) fluoranthene %RSE = 19.3

benzo (k) fluoranthene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



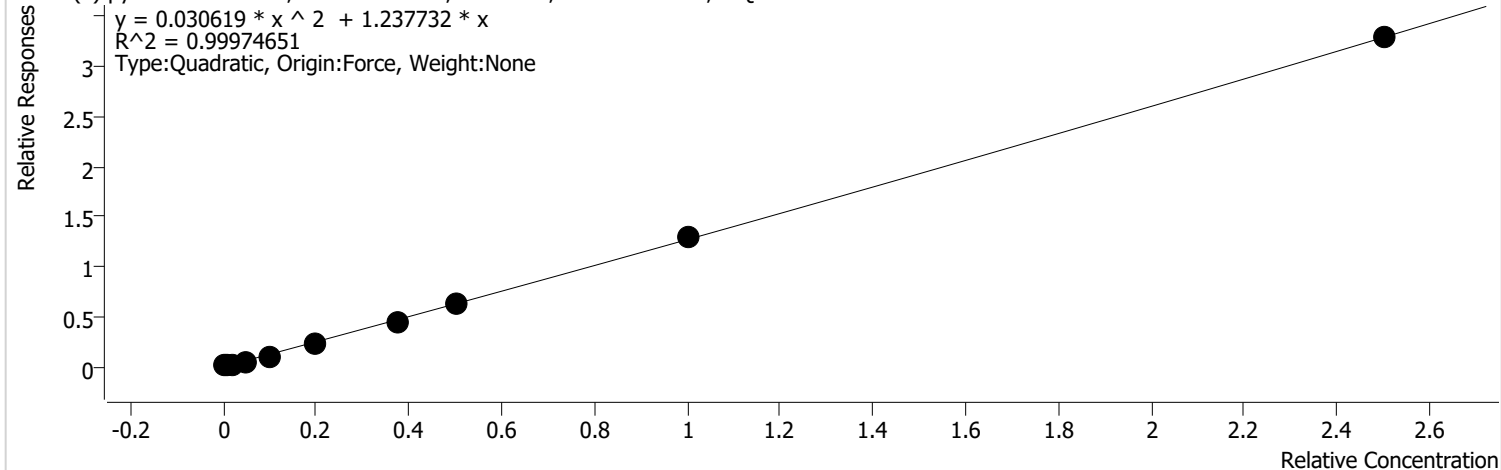
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\091423\091410.D	Calibration	1	x	2187	10.0000	1.1668	
C:\GC-14\Data\2023\091423\091411.D	Calibration	2	x	4105	20.0000	1.1411	
C:\GC-14\Data\2023\091423\091412.D	Calibration	3	x	8493	40.0000	1.1895	
C:\GC-14\Data\2023\091423\091413.D	Calibration	4	x	20874	100.0000	1.1499	
C:\GC-14\Data\2023\091423\091414.D	Calibration	5	x	47674	200.0000	1.2432	
C:\GC-14\Data\2023\091423\091415.D	Calibration	6	x	112568	400.0000	1.4137	
C:\GC-14\Data\2023\091423\091416.D	Calibration	7	x	242837	750.0000	1.4928	
C:\GC-14\Data\2023\091423\091417.D	Calibration	8	x	367382	1000.0000	1.5417	
C:\GC-14\Data\2023\091423\091418.D	Calibration	9	x	734052	2000.0000	1.4899	
C:\GC-14\Data\2023\091423\091419.D	Calibration	10	x	1828639	5000.0000	1.4381	

Calibration Report

Batch Path	C:\GC-14\Data\2023\091423\QuantResults\ccv.batch.bin		
Analysis Time	9/15/2023 9:55 AM	Analyst Name	FA\GC14
Report Time	9/15/2023 9:58:49 AM	Reporter Name	FA\GC14
Last Calib Update	9/15/2023 9:54 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

benzo (a) pyrene %RSE = 16.6

benzo (a) pyrene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs

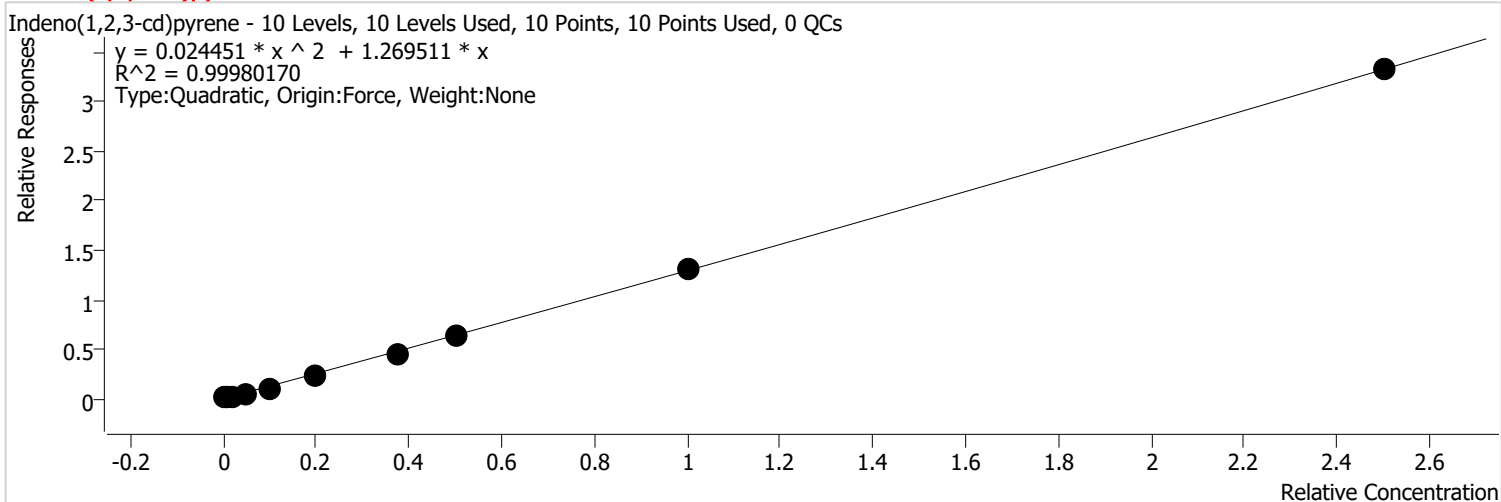


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\091423\091410.D	Calibration	1	x	1977	10.0000	1.0549	
C:\GC-14\Data\2023\091423\091411.D	Calibration	2	x	3627	20.0000	1.0083	
C:\GC-14\Data\2023\091423\091412.D	Calibration	3	x	7034	40.0000	0.9851	
C:\GC-14\Data\2023\091423\091413.D	Calibration	4	x	17408	100.0000	0.9590	
C:\GC-14\Data\2023\091423\091414.D	Calibration	5	x	38952	200.0000	1.0157	
C:\GC-14\Data\2023\091423\091415.D	Calibration	6	x	90158	400.0000	1.1322	
C:\GC-14\Data\2023\091423\091416.D	Calibration	7	x	194186	750.0000	1.1937	
C:\GC-14\Data\2023\091423\091417.D	Calibration	8	x	296180	1000.0000	1.2429	
C:\GC-14\Data\2023\091423\091418.D	Calibration	9	x	637813	2000.0000	1.2946	
C:\GC-14\Data\2023\091423\091419.D	Calibration	10	x	1669458	5000.0000	1.3129	

Calibration Report

Batch Path	C:\GC-14\Data\2023\091423\QuantResults\ccv.batch.bin		
Analysis Time	9/15/2023 9:55 AM	Analyst Name	FA\GC14
Report Time	9/15/2023 9:58:49 AM	Reporter Name	FA\GC14
Last Calib Update	9/15/2023 9:54 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Indeno(1,2,3-cd)pyrene %RSE = 14.2

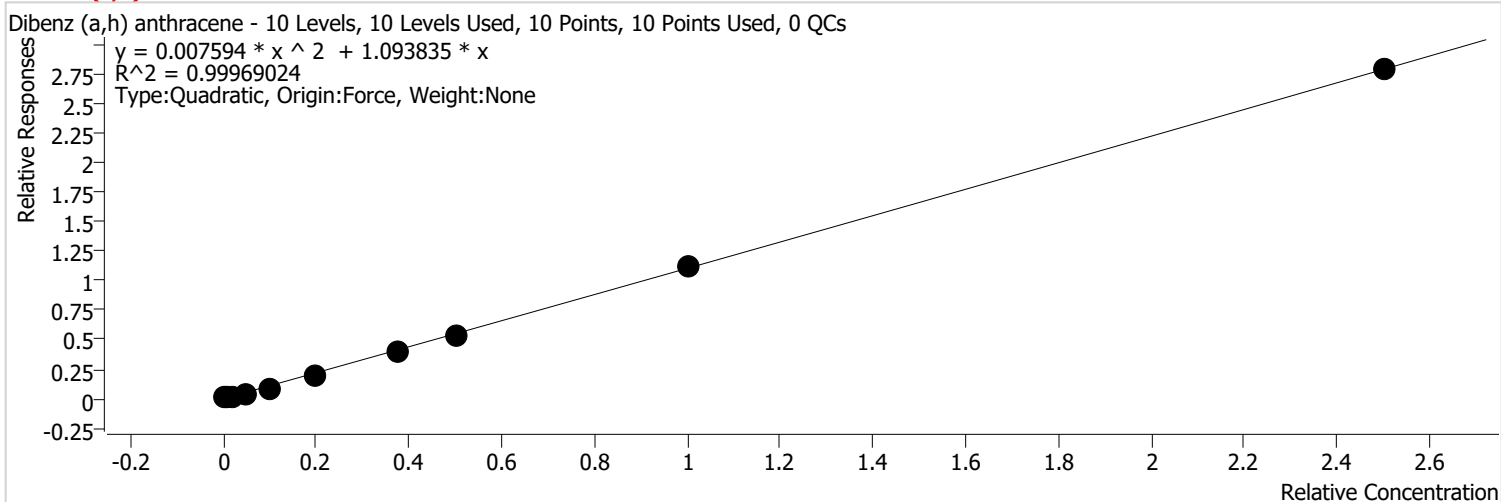


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\091423\091410.D	Calibration	1	x	2720	10.0000	1.1517	
C:\GC-14\Data\2023\091423\091411.D	Calibration	2	x	4723	20.0000	1.0448	
C:\GC-14\Data\2023\091423\091412.D	Calibration	3	x	9279	40.0000	1.0396	
C:\GC-14\Data\2023\091423\091413.D	Calibration	4	x	22981	100.0000	1.0231	
C:\GC-14\Data\2023\091423\091414.D	Calibration	5	x	51022	200.0000	1.0809	
C:\GC-14\Data\2023\091423\091415.D	Calibration	6	x	115026	400.0000	1.1848	
C:\GC-14\Data\2023\091423\091416.D	Calibration	7	x	236690	750.0000	1.2236	
C:\GC-14\Data\2023\091423\091417.D	Calibration	8	x	352767	1000.0000	1.2713	
C:\GC-14\Data\2023\091423\091418.D	Calibration	9	x	745973	2000.0000	1.3182	
C:\GC-14\Data\2023\091423\091419.D	Calibration	10	x	1981804	5000.0000	1.3294	

Calibration Report

Batch Path	C:\GC-14\Data\2023\091423\QuantResults\ccv.batch.bin		
Analysis Time	9/15/2023 9:55 AM	Analyst Name	FA\GC14
Report Time	9/15/2023 9:58:49 AM	Reporter Name	FA\GC14
Last Calib Update	9/15/2023 9:54 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Dibenz (a,h) anthracene %RSE = 17.3

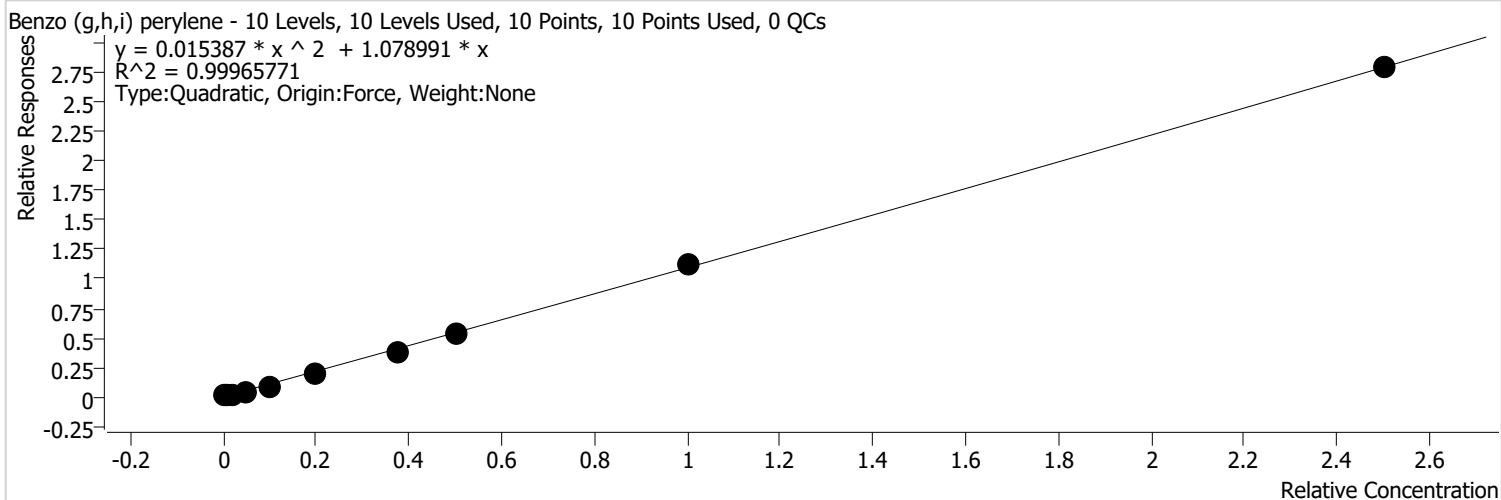


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\091423\091410.D	Calibration	1	x	2197	10.0000	0.9303	
C:\GC-14\Data\2023\091423\091411.D	Calibration	2	x	3868	20.0000	0.8557	
C:\GC-14\Data\2023\091423\091412.D	Calibration	3	x	7634	40.0000	0.8553	
C:\GC-14\Data\2023\091423\091413.D	Calibration	4	x	19149	100.0000	0.8526	
C:\GC-14\Data\2023\091423\091414.D	Calibration	5	x	42563	200.0000	0.9017	
C:\GC-14\Data\2023\091423\091415.D	Calibration	6	x	96426	400.0000	0.9932	
C:\GC-14\Data\2023\091423\091416.D	Calibration	7	x	201355	750.0000	1.0409	
C:\GC-14\Data\2023\091423\091417.D	Calibration	8	x	301308	1000.0000	1.0858	
C:\GC-14\Data\2023\091423\091418.D	Calibration	9	x	637789	2000.0000	1.1270	
C:\GC-14\Data\2023\091423\091419.D	Calibration	10	x	1656996	5000.0000	1.1115	

Calibration Report

Batch Path	C:\GC-14\Data\2023\091423\QuantResults\ccv.batch.bin		
Analysis Time	9/15/2023 9:55 AM	Analyst Name	FA\GC14
Report Time	9/15/2023 9:58:49 AM	Reporter Name	FA\GC14
Last Calib Update	9/15/2023 9:54 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Benzo (g,h,i) perylene %RSE = 15.7



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\091423\091410.D	Calibration	1	x	3384	10.0000	1.4328	
C:\GC-14\Data\2023\091423\091411.D	Calibration	2	x	4995	20.0000	1.1049	
C:\GC-14\Data\2023\091423\091412.D	Calibration	3	x	8839	40.0000	0.9903	
C:\GC-14\Data\2023\091423\091413.D	Calibration	4	x	20424	100.0000	0.9093	
C:\GC-14\Data\2023\091423\091414.D	Calibration	5	x	43720	200.0000	0.9262	
C:\GC-14\Data\2023\091423\091415.D	Calibration	6	x	96095	400.0000	0.9898	
C:\GC-14\Data\2023\091423\091416.D	Calibration	7	x	196116	750.0000	1.0138	
C:\GC-14\Data\2023\091423\091417.D	Calibration	8	x	296206	1000.0000	1.0675	
C:\GC-14\Data\2023\091423\091418.D	Calibration	9	x	635961	2000.0000	1.1238	
C:\GC-14\Data\2023\091423\091419.D	Calibration	10	x	1663696	5000.0000	1.1160	

Semivolatile Calibration

Date: 9/14/23	Cal	ICV
Analyst: SRH	8270 Megamix: 28714	8270 Megamix: 28486
MeCl2: 3017/7684	2,4-DNP: 28791	2,4-DNP: 28196
8270 Surrogate: 28818	Benzoic Acid: 27263	Benzoic Acid: 28493
Internal Standard: 28835	Benzidines: 23501	Benzidines: 28634

	Spike Conc. (ppb)	BN/Acid Surr Conc. (ppb)	2° Spike (uL)	B/N Surr (uL)	Internal Standard (uL)	Remove (uL)	Final Vol. (mL)	Comments
GC-21								For PAH-LL Cal Only
121	2	2/1	0.2	--	10	10.2	1	
122	10	10/5	1	--	10	11	1	
123	20	20/10	2	--	10	12	1	
124	40	40/20	4	--	10	14	1	
125	100	100/50	10	--	10	20	1	
126	200	200/100	20	--	10	30	1	
127	500-400	500/250 ²⁰⁰	40	--	10	50	1	
128	750	750/375	75	--	10	85	1	
129	1000	1000/500	100	--	10	110	1	
130	2000	2000/1000	200	--	10	210	1	
131	5000	5000/2500	500	--	10	510	1	
132	ICB	1000/500		5	10	15	1	
133	ICV (1000 ppb)	1000/500	100 (2° SS)	--	10	110	1	

	Mega Mix (uL)	2,4-DNP (uL)	Benzoic Acid	8270 Surr	Benzidine	Final
2° Intermediate (cal)	100	100	100	500	50	10
2° Intermediate (SS)	10	10	10	50	5	1

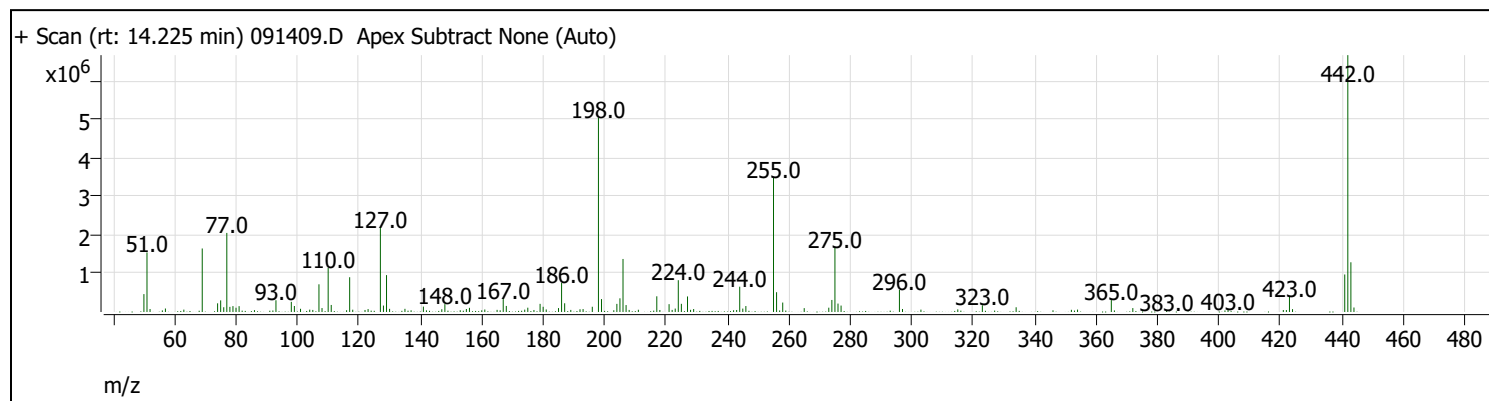
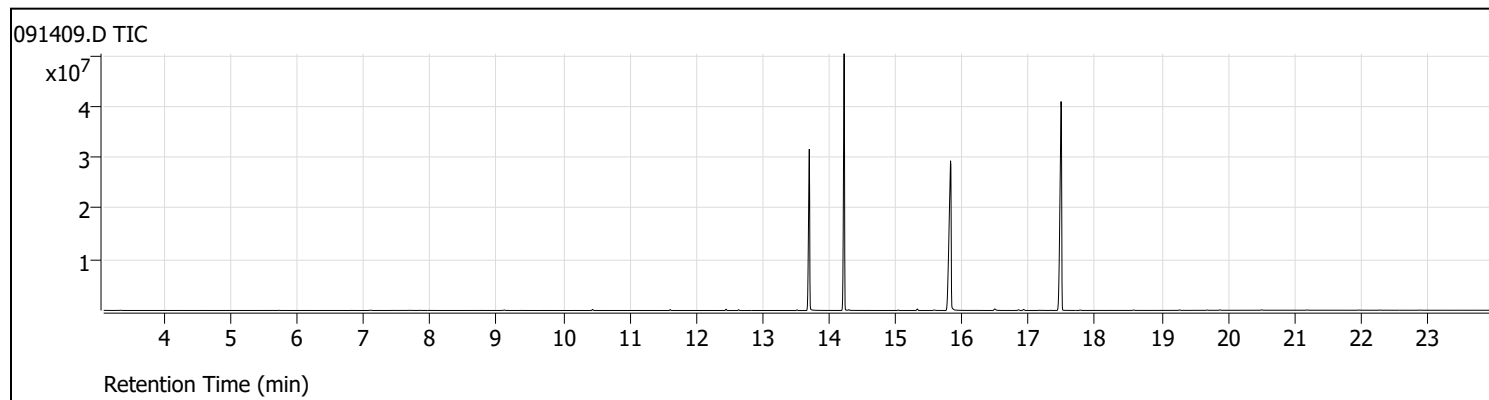
Signature and Date: *[Signature]* 9/14/23



Tunes

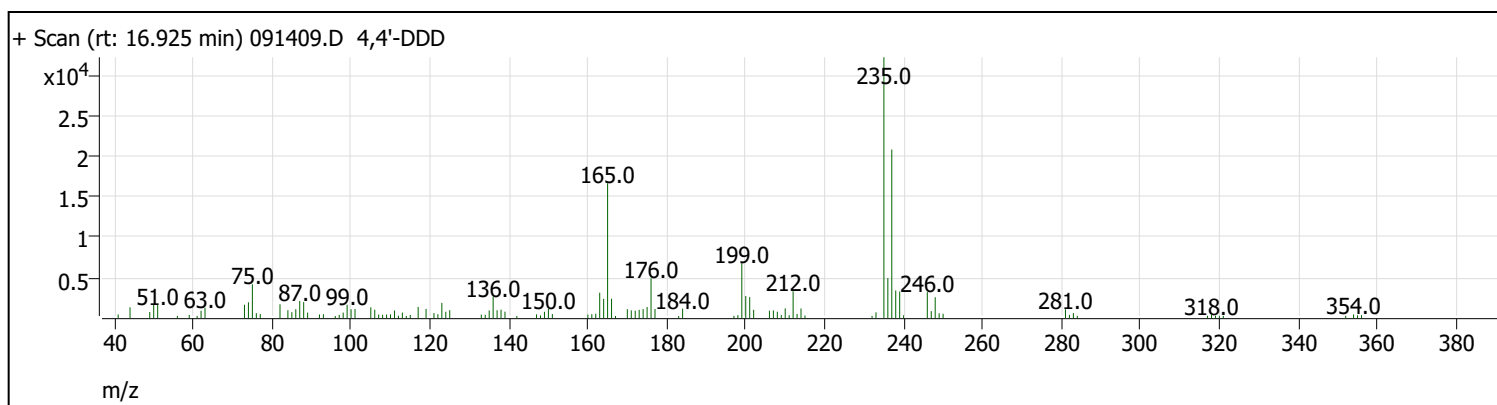
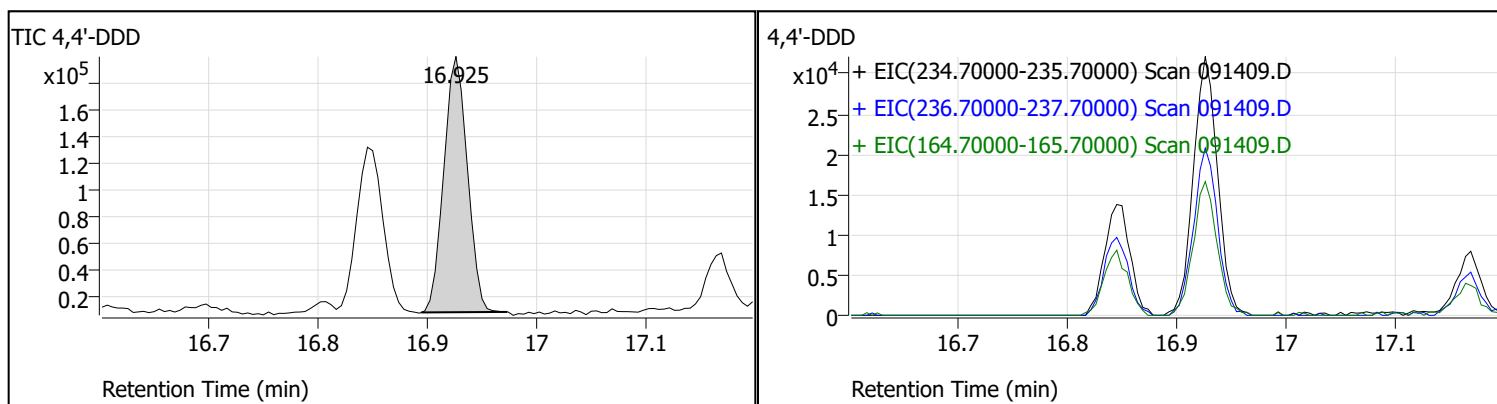
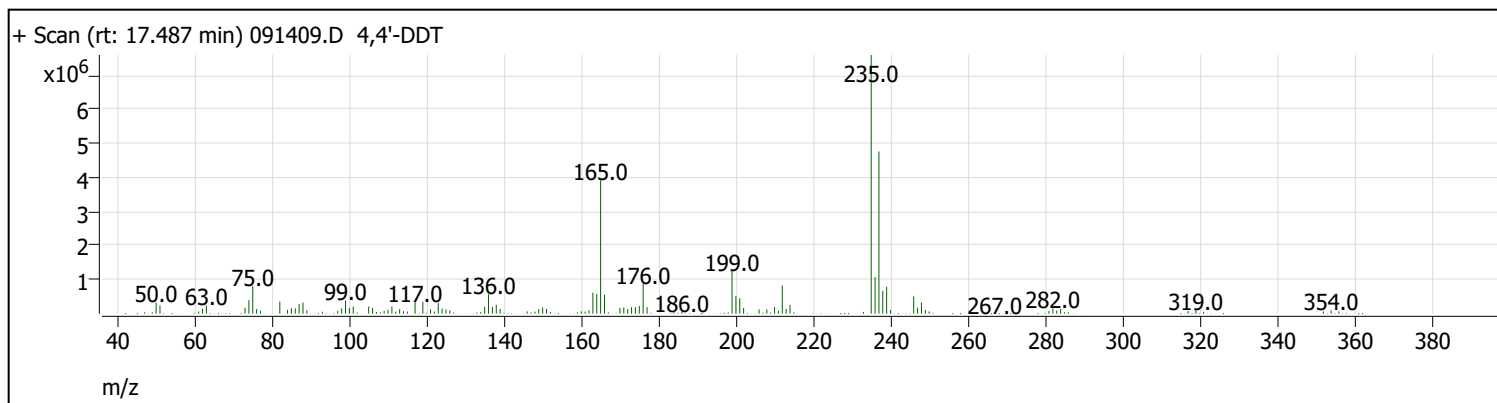
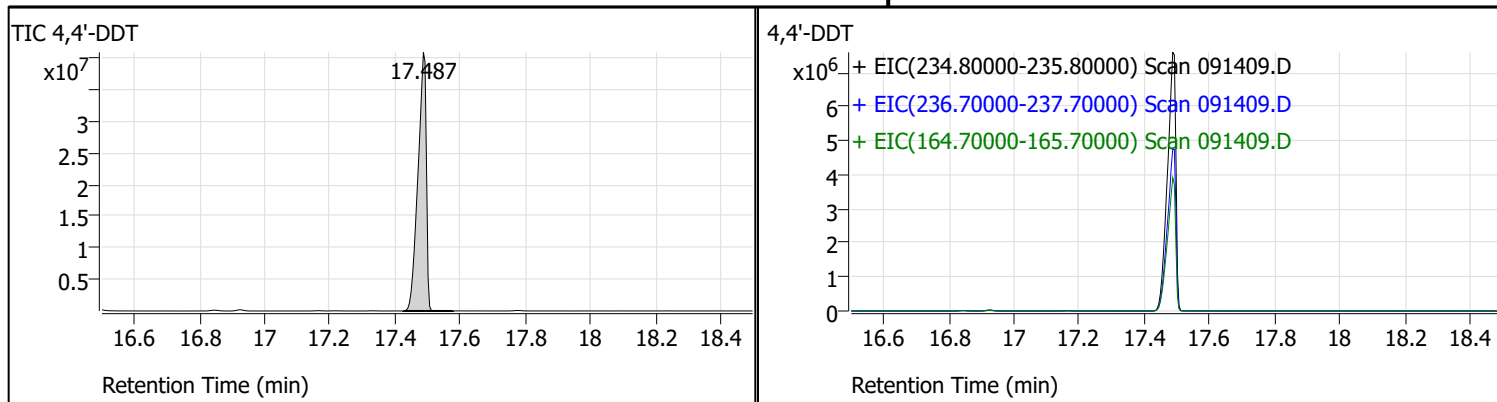
Tune Evaluation Report

Data Path: C:\GC-14\Data\2023\091423\091409.D
 Acq on: 9/14/2023 2:47:59 PM
 Operator: FA\GC14
 Sample: tune
 Inst Name: GC-14
 ALS Vial: 1
 Method: C:\GC-14\Methods\Quant
 Methods\TUNE\DFTPPwBreak&TailingGC218270E.m



Target Mass	Rel. To Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Pass/Fail
68	69	0	2	2.0	32512	Pass
70	69	0	2	0.6	9168	Pass
197	198	0	2	0.0	0	Pass
198	198	100	100	100.0	5041664	Pass
199	198	5	9	6.6	334784	Pass
365	442	1	100	4.6	308672	Pass
441	443	1E-10	150	75.4	972288	Pass
442	442	100	100	100.0	6661120	Pass
443	442	15	24	19.4	1289216	Pass
69	69	100	100	100.0	1647104	Pass

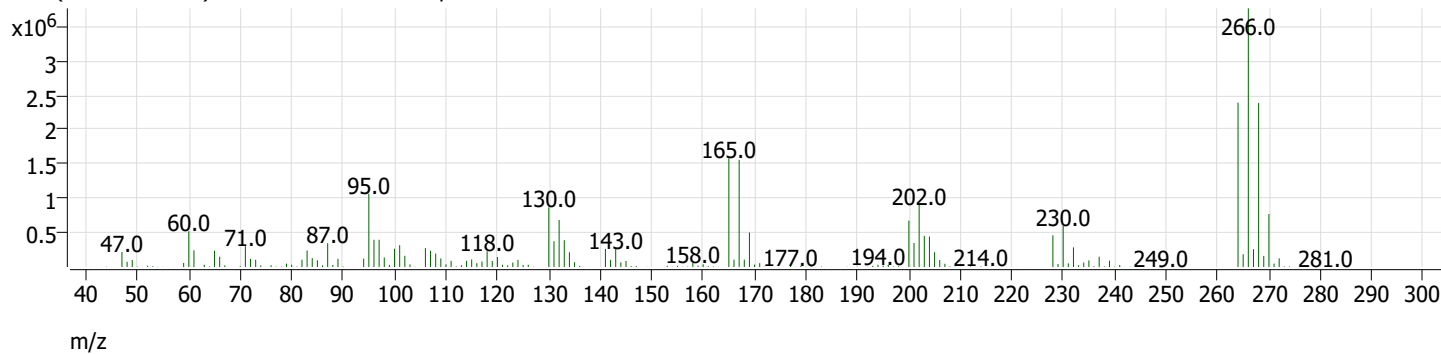
Tune Evaluation Report



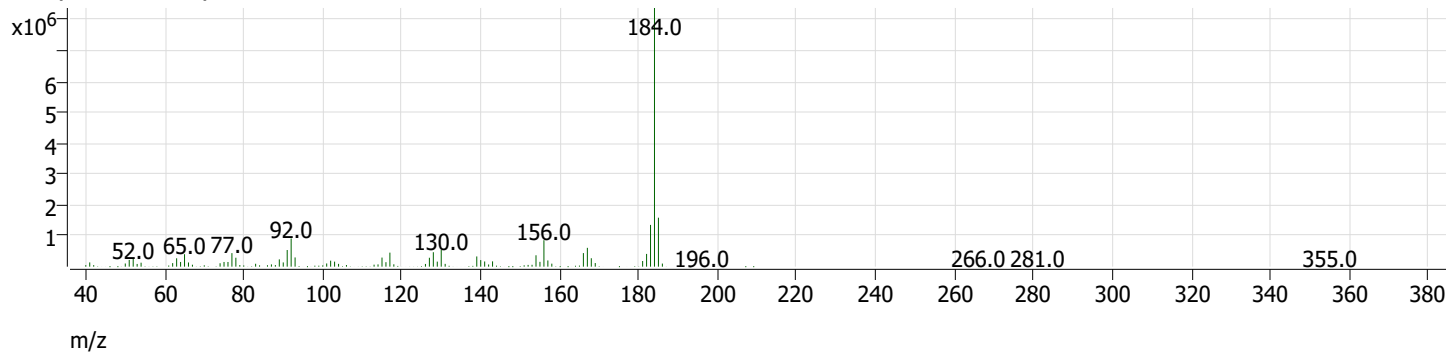
Compound Name	Expected RT	Observed RT	TIC Area	Breakdown %	Pass/Fail
4,4'-DDT	17.500	17.487	72283318	0.4	Pass
4,4'-DDD	16.900	16.925	286183		

Tune Evaluation Report

+ Scan (rt: 13.701 min) 091409.D Pentachlorophenol



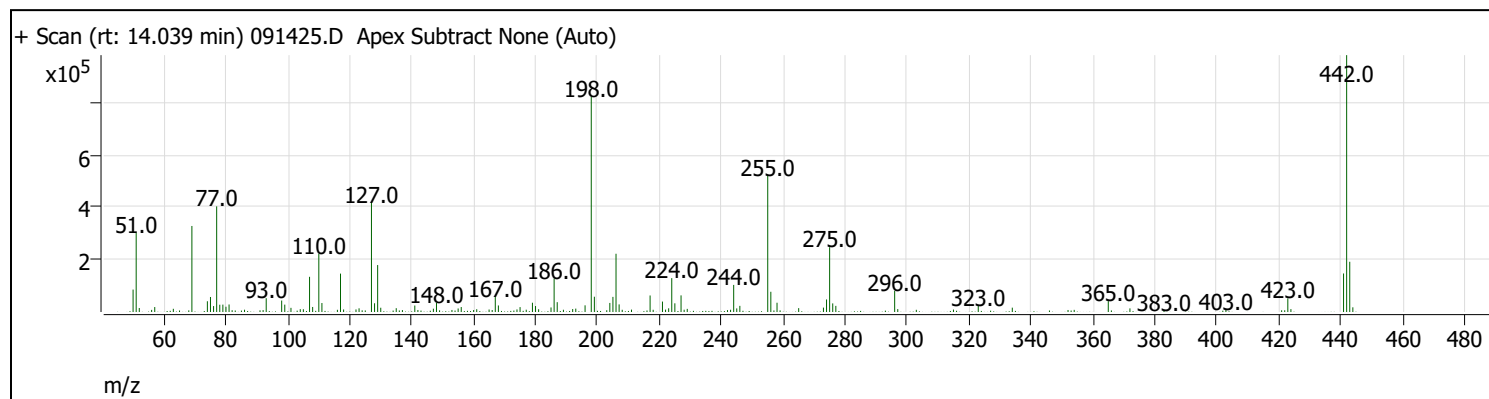
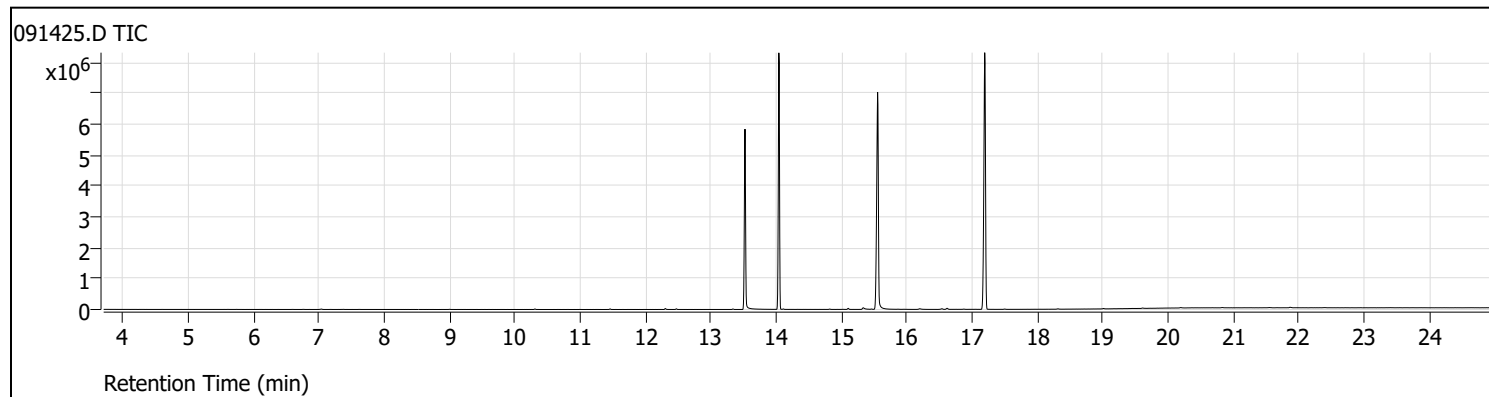
+ Scan (rt: 15.825 min) 091409.D Benzidine



Compound Name	Expected RT	Observed RT	Tailing Factor	PGF	Pass/Fail
Pentachlorophenol	13.700	13.701	0.5	3.1	Pass
Benzidine	15.800	15.825	0.3	1.7	Pass

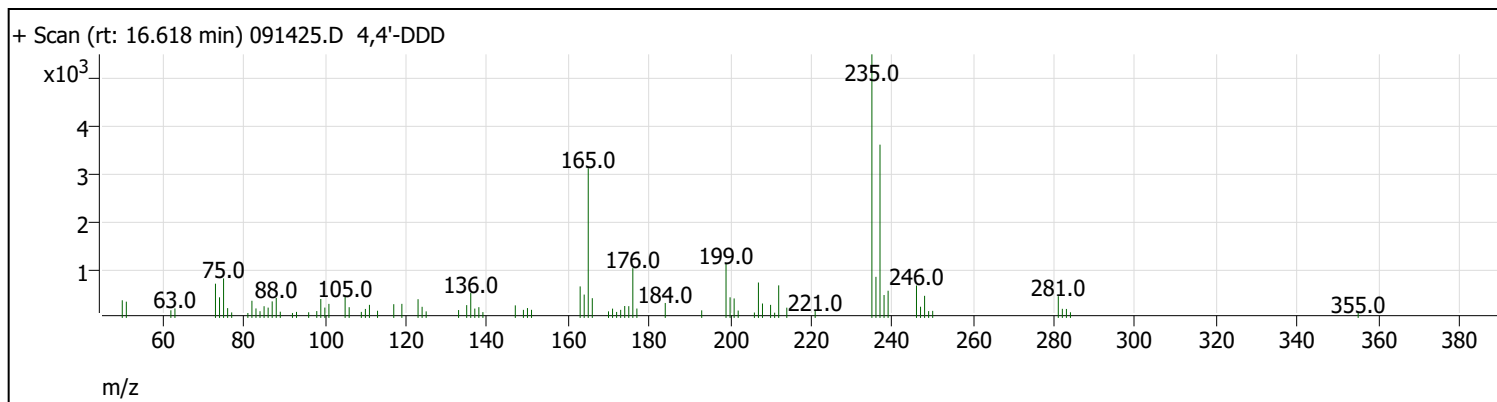
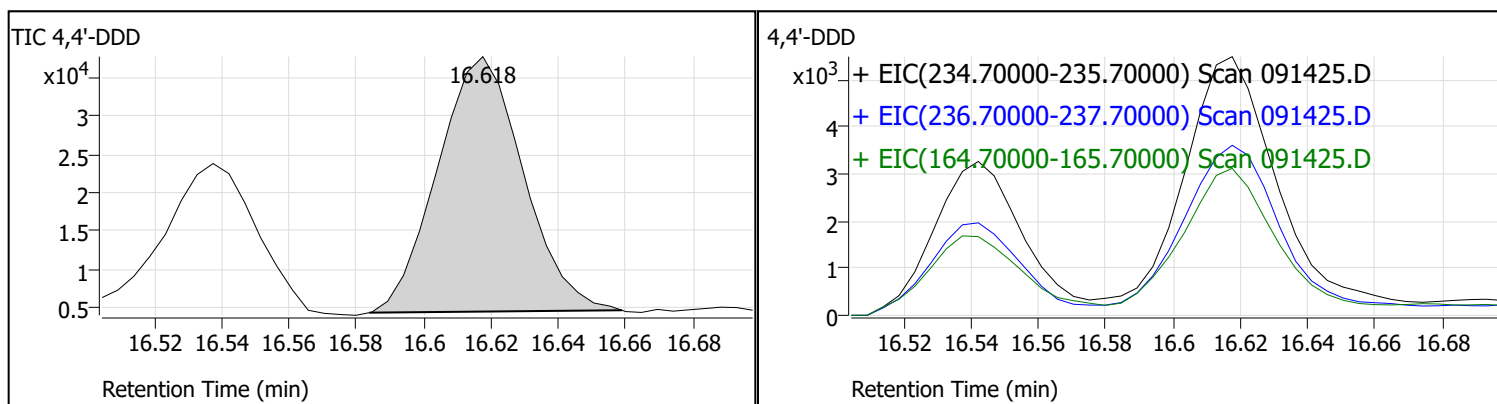
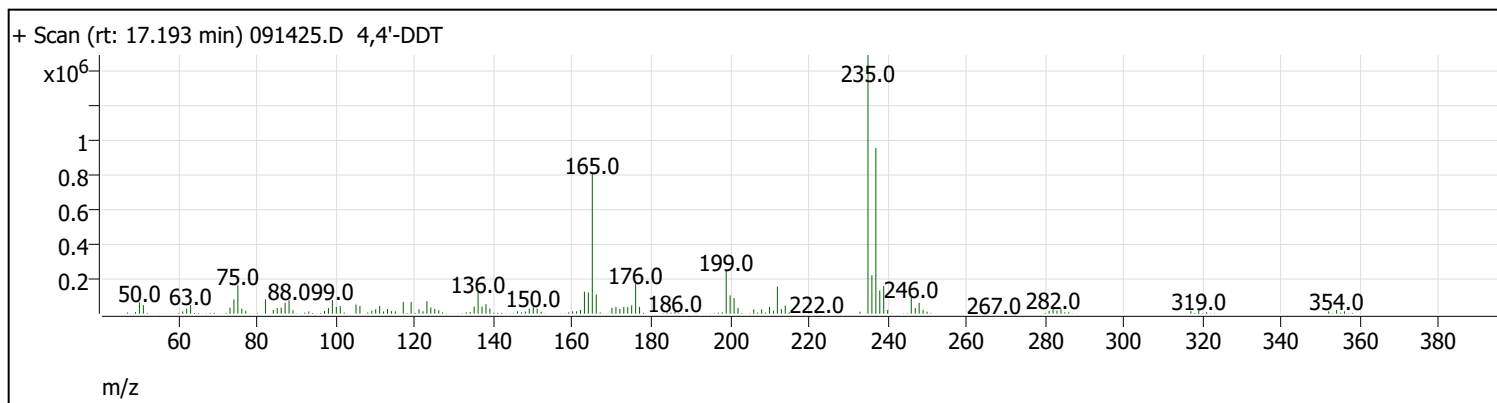
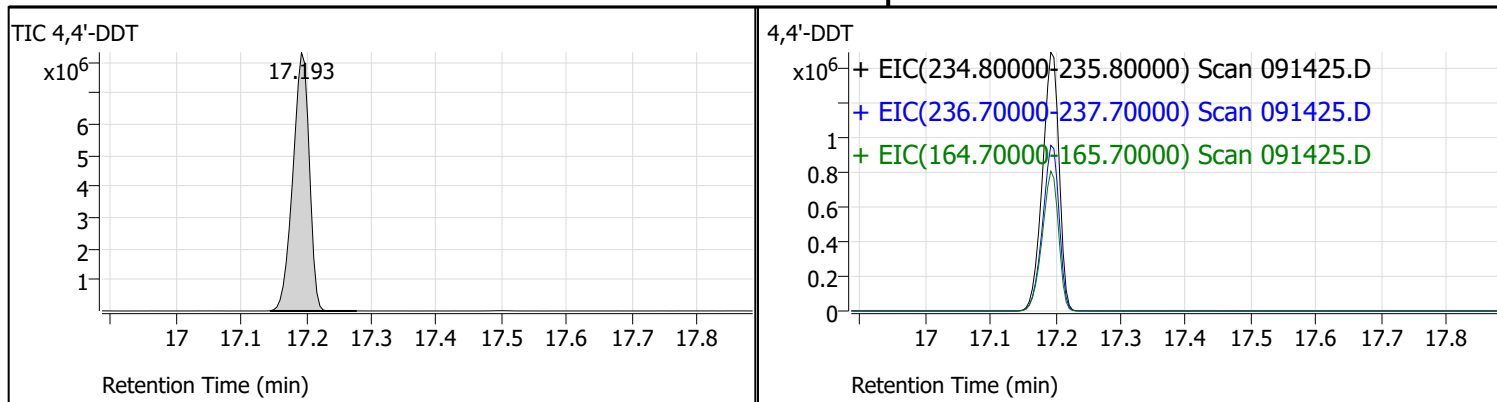
Tune Evaluation Report

Data Path: D:\GC-21\Data\2023\091423\091425.D
 Acq on: 9/14/2023 11:04:24 PM
 Operator: SRH/SNK
 Sample: tune
 Inst Name: GC21
 ALS Vial: 1
 Method: D:\MassHunter\Methods\Quant\DFTPPwBreak&TailingGC218270E.m



Target Mass	Rel. To Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Pass/Fail
68	69	0	2	1.9	6279	Pass
70	69	0	2	0.5	1683	Pass
197	198	0	2	0.0	0	Pass
198	198	100	100	100.0	820442	Pass
199	198	5	9	7.1	58186	Pass
365	442	1	100	4.2	41530	Pass
441	443	1E-10	150	76.7	146780	Pass
442	442	100	100	100.0	978342	Pass
443	442	15	24	19.6	191352	Pass
69	69	100	100	100.0	327699	Pass

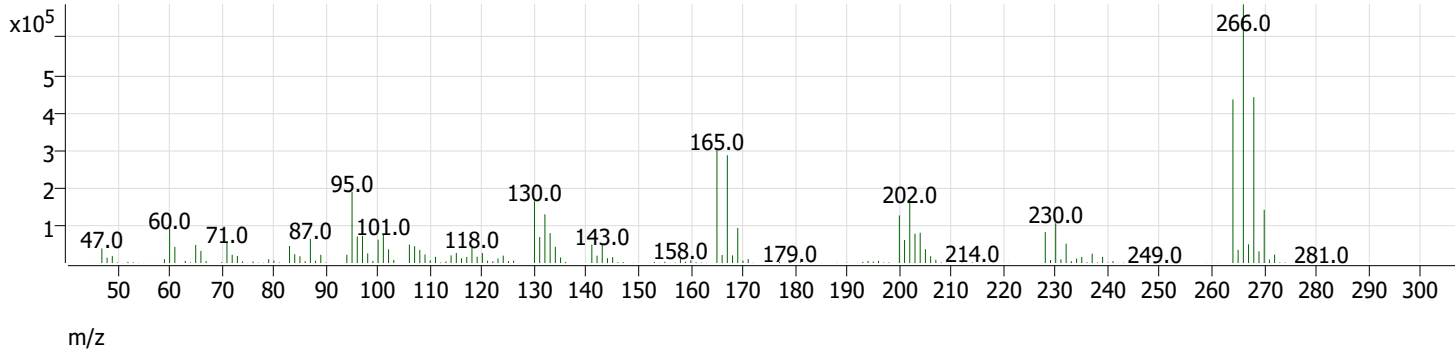
Tune Evaluation Report



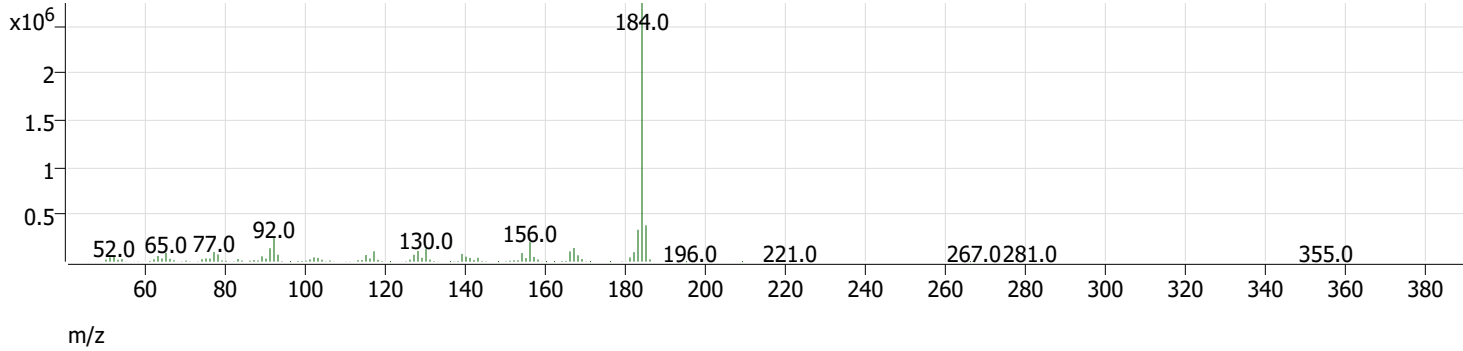
Compound Name	Expected RT	Observed RT	TIC Area	Breakdown %	Pass/Fail
4,4'-DDT	17.386	17.193	14568584	0.4	Pass
4,4'-DDD	16.600	16.618	58709		

Tune Evaluation Report

+ Scan (rt: 13.521 min) 091425.D Pentachlorophenol



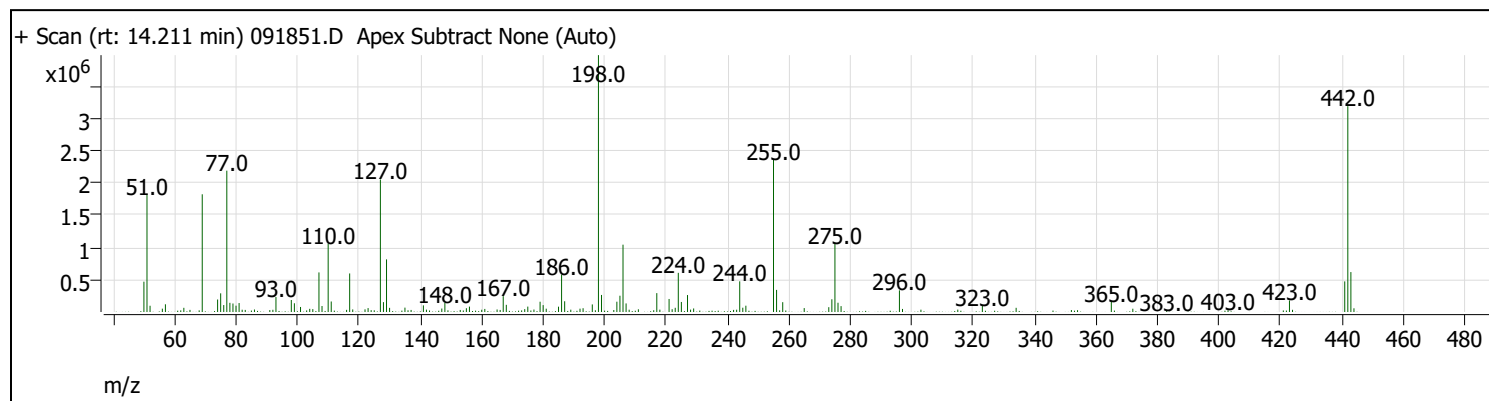
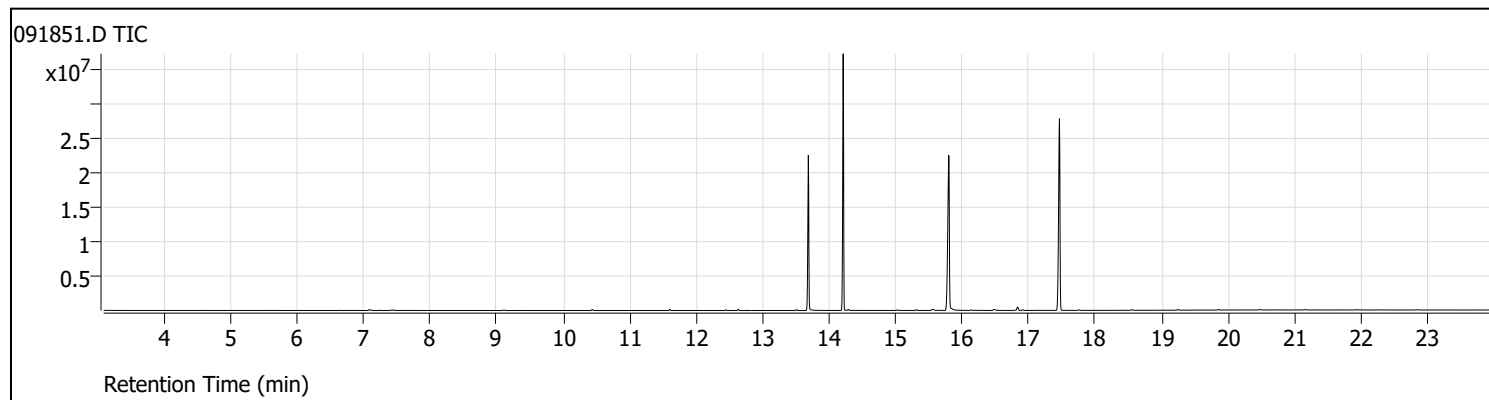
+ Scan (rt: 15.552 min) 091425.D Benzidine



Compound Name	Expected RT	Observed RT	Tailing Factor	PGF	Pass/Fail
Pentachlorophenol	13.800	13.521	0.9	9.3	Pass
Benzidine	15.800	15.552	0.7	6.8	Pass

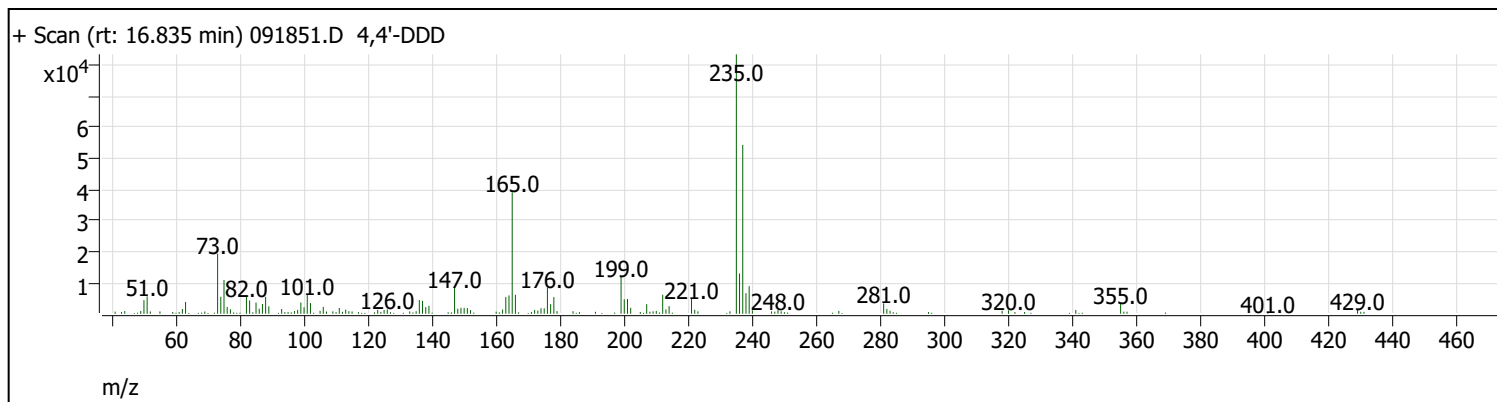
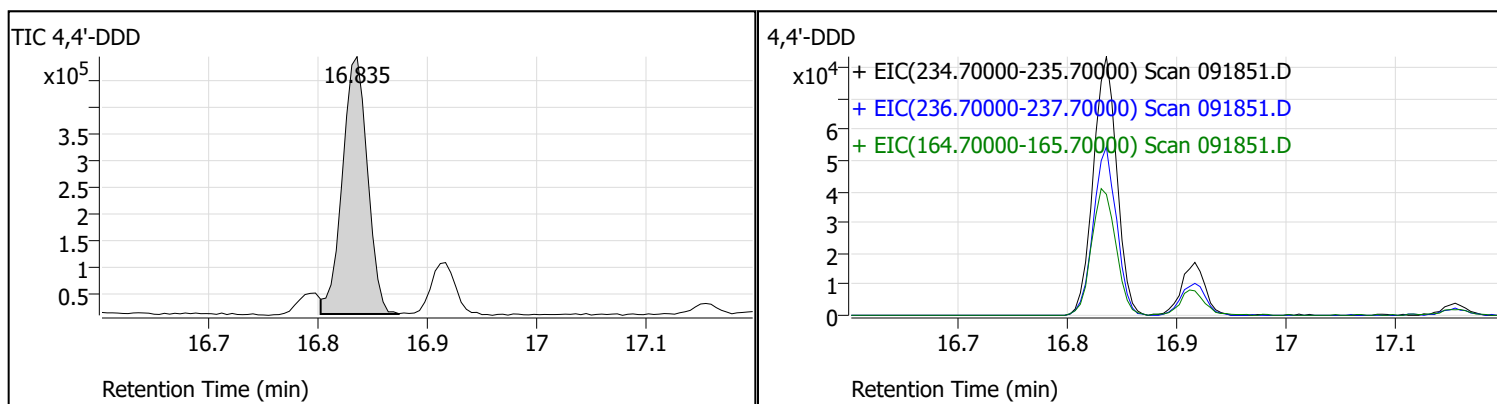
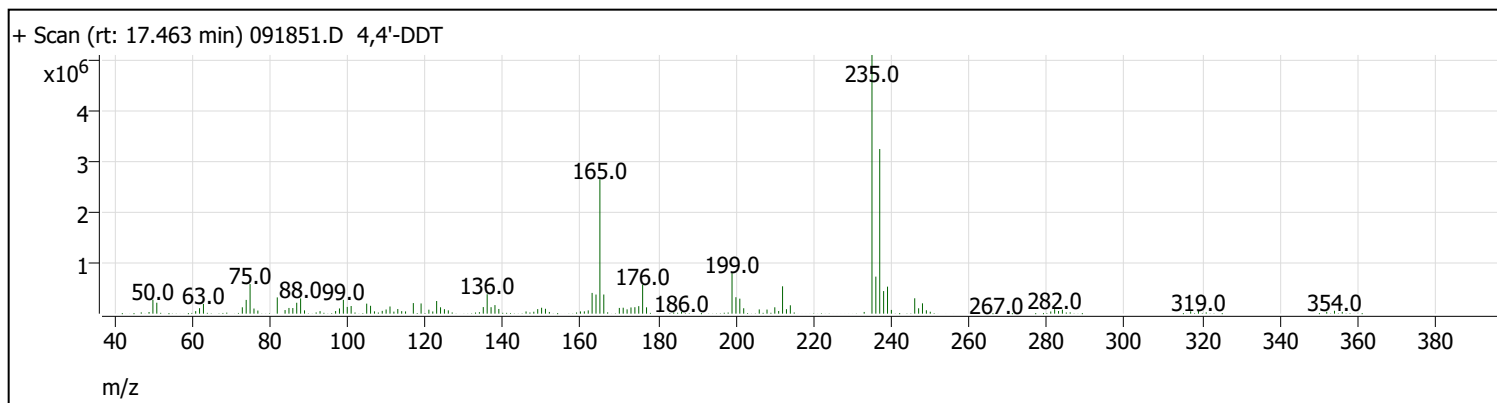
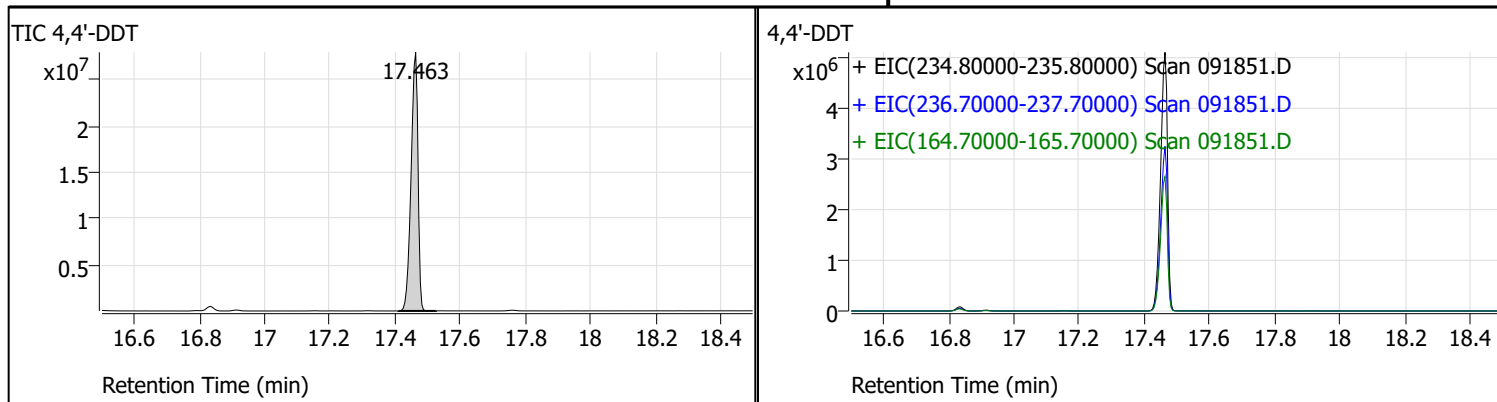
Tune Evaluation Report

Data Path: C:\GC-14\Data\2023\091823\091851.D
 Acq on: 9/19/2023 8:42:28 AM
 Operator: FA\GC14
 Sample: tune
 Inst Name: GC-14
 ALS Vial: 1
 Method: C:\GC-14\Methods\Quant
 Methods\TUNE\DFTPPwBreak&TailingGC218270E.m



Target Mass	Rel. To Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Pass/Fail
68	69	0	2	1.4	25128	Pass
70	69	0	2	0.5	9468	Pass
197	198	0	2	0.7	26512	Pass
198	198	100	100	100.0	3975168	Pass
199	198	5	9	6.6	263936	Pass
365	198	1	100	3.9	156800	Pass
441	443	1E-10	150	76.7	473792	Pass
442	442	100	100	100.0	3185664	Pass
443	442	15	24	19.4	617728	Pass
69	69	100	100	100.0	1821696	Pass

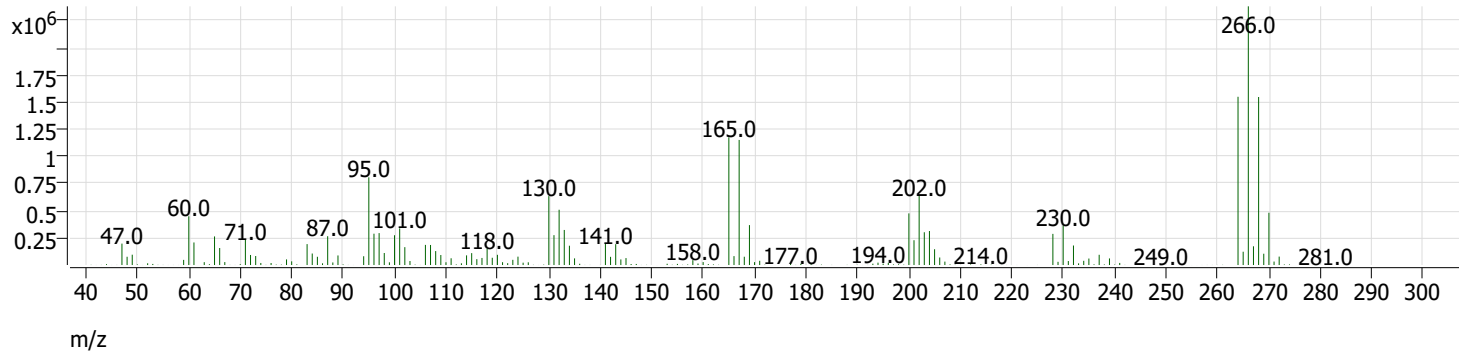
Tune Evaluation Report



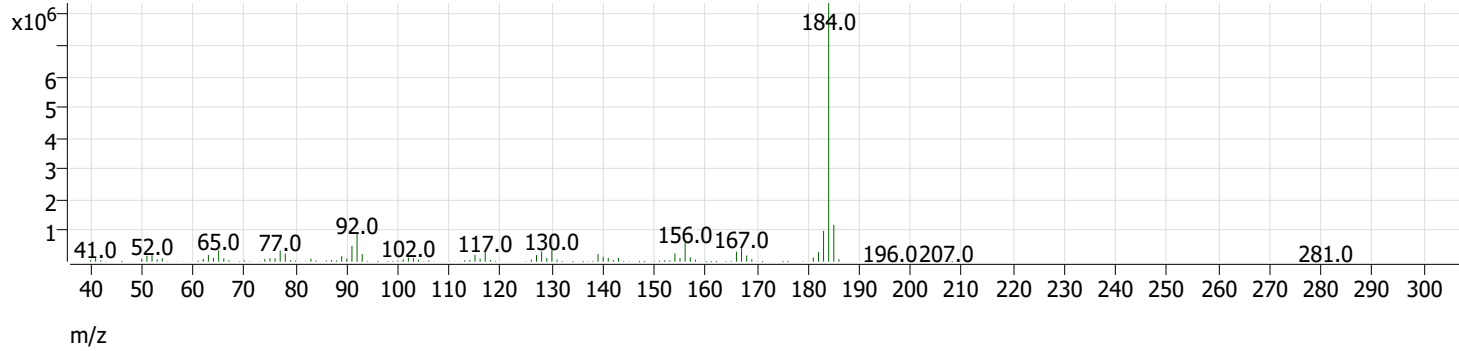
Compound Name	Expected RT	Observed RT	TIC Area	Breakdown %	Pass/Fail
4,4'-DDT	17.500	17.463	41004458	1.8	Pass
4,4'-DDD	16.900	16.835	769055		

Tune Evaluation Report

+ Scan (rt: 13.687 min) 091851.D Pentachlorophenol



+ Scan (rt: 15.797 min) 091851.D Benzidine



Compound Name	Expected RT	Observed RT	Tailing Factor	PGF	Pass/Fail
Pentachlorophenol	13.700	13.687	0.8	10.4	Pass
Benzidine	15.800	15.797	0.6	6.5	Pass



Internal Standards

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-21 230915B CCV Name: PAH-S-SIM MDPT
 Run No: 86543 CCV SeqNo: 1805714
 Lab File ID (Standard): 091433.D Date Analyzed: 9/15/2023
 Instrument ID: GC-21 Time Analyzed: 3:08
 GC Column: ID (mm): Length (M):

	IS1 (14DCBZ)	IS2 Acenaphthene-d10	IS3 Chrysene-d12	IS4 Naphthalene-d8
	AREA #	RT #	AREA #	RT #
12 HOUR STD	0	0.000	467416	11.888
UPPER LIMIT	0	0.500	934832	12.388
LOWER LIMIT	0	-0.500	233708	11.388
SAMPLE NO.				
01 CCV-41453A	0	0	461418	11.888
02 CCV-41453B	0	0	450927	11.891
03 QCS-41453A	0	0	429758	11.888

IS1 (14DCBZ) = 1,4-Dichlorobenzene-d4

IS3 Chrysene-d12 = Chrysene-d12

IS2 Acenaphthene-d10 = Acenaphthene-d10

IS4 Naphthalene-d8 = Naphthalene-d8

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-21 230915B CCV Name: PAH-S-SIM MDPT
 Run No: 86543 CCV SeqNo: 1805714
 Lab File ID (Standard): 091433.D Date Analyzed: 9/15/2023
 Instrument ID: GC-21 Time Analyzed: 3:08
 GC Column: ID (mm): Length (M):

	S5 Perylene-d12		S6 Phenanthrene-d10					
	AREA #	RT #	AREA #	RT #				
12 HOUR STD	705252	20.446	835126	13.753				
UPPER LIMIT	1410504	20.946	1670252	14.253				
LOWER LIMIT	352626	19.946	417563	13.253				
SAMPLE NO.								
01	CCV-41453A	687408	20.446	819282	13.753			
02	CCV-41453B	759350	20.457	822404	13.755			
03	QCS-41453A	715637	20.446	771370	13.753			

IS5 Perylene-d12 = Perylene-d12

IS6 Phenanthrene-d10 = Phenanthrene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-21 230915B CCV Name: CCV-41453A
 Run No: 86543 CCV SeqNo: 1805688
 Lab File ID (Standard): 091436.D Date Analyzed: 9/15/2023
 Instrument ID: GC-21 Time Analyzed: 4:39
 GC Column: ID (mm): Length (M):

	IS1 (14DCBZ)		2 Acenaphthene-d		IS3 Chrysene-d12		IS4 Naphthalene-d8	
	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	0	0.000	461418	11.888	569499	18.120	1022120	9.691
UPPER LIMIT	0	0.500	922836	12.388	1138998	18.620	2044240	10.191
LOWER LIMIT	0	-0.500	230709	11.388	284750	17.620	511060	9.191
SAMPLE NO.								
01 MB-41453	0	0	406684	11.888	494262	18.122	906700	9.695
02 LCS-41453	0	0	407323	11.888	519892	18.12	906354	9.691
03 2309055-001A	0	0	418931	11.888	516105	18.12	919438	9.695
04 2309081-001A	0	0	363945	11.888	453478	18.122	815117	9.695
05 2309081-002A	0	0	388142	11.888	489580	18.12	858757	9.695
06 2309081-004A	0	0	369723	11.888	470359	18.122	825587	9.695
07 2309081-006A	0	0	370063	11.888	468138	18.121	824798	9.695
08 2309081-007A	0	0	355052	11.888	459400	18.12	791210	9.695
09 2309081-010A	0	0	377162	11.888	491981	18.121	838669	9.691
10 2309081-011A	0	0	364234	11.891	481582	18.122	808132	9.694

IS1 (14DCBZ) = 1,4-Dichlorobenzene-d4

IS3 Chrysene-d12 = Chrysene-d12

IS2 Acenaphthene-d10 = Acenaphthene-d10

IS4 Naphthalene-d8 = Naphthalene-d8

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-21 230915B CCV Name: CCV-41453A
 Run No: 86543 CCV SeqNo: 1805688
 Lab File ID (Standard): 091436.D Date Analyzed: 9/15/2023
 Instrument ID: GC-21 Time Analyzed: 4:39
 GC Column: ID (mm): Length (M):

	S5 Perylene-d12		S6 Phenanthrene-d10					
	AREA #	RT #	AREA #	RT #				
12 HOUR STD	687408	20.446	819282	13.753				
UPPER LIMIT	1374816	20.946	1638564	14.253				
LOWER LIMIT	343704	19.946	409641	13.253				
SAMPLE NO.								
01 MB-41453	587113	20.448	696753	13.754				
02 LCS-41453	631641	20.446	737374	13.753				
03 2309055-001A	602293	20.446	722441	13.752				
04 2309081-001A	536527	20.448	632339	13.754				
05 2309081-002A	576319	20.446	676442	13.753				
06 2309081-004A	554035	20.448	644311	13.754				
07 2309081-006A	557764	20.456	639589	13.754				
08 2309081-007A	543063	20.454	623714	13.753				
09 2309081-010A	586562	20.447	661092	13.754				
10 2309081-011A	568404	20.448	640756	13.756				

IS5 Perylene-d12 = Perylene-d12

IS6 Phenanthrene-d10 = Phenanthrene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-21 230915B CCV Name: CCV-41453B
 Run No: 86543 CCV SeqNo: 1806164
 Lab File ID (Standard): 091459.D Date Analyzed: 9/15/2023
 Instrument ID: GC-21 Time Analyzed: 16:57
 GC Column: ID (mm): Length (M):

	IS1 (14DCBZ)		2 Acenaphthene-d		IS3 Chrysene-d12		S4 Naphthalene-d8	
	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	0	0.000	450927	11.891	613400	18.122	966407	9.691
UPPER LIMIT	0	0.500	901854	12.391	1226800	18.622	1932814	10.191
LOWER LIMIT	0	-0.500	225464	11.391	306700	17.622	483204	9.191
SAMPLE NO.								
01 2309055-001AMS	0	0	377561	11.888	519815	18.12	826353	9.695
02 2309055-001AMSD	0	0	401442	11.894	547341	18.12	876678	9.695

IS1 (14DCBZ) = 1,4-Dichlorobenzene-d4

IS3 Chrysene-d12 = Chrysene-d12

IS2 Acenaphthene-d10 = Acenaphthene-d10

IS4 Naphthalene-d8 = Naphthalene-d8

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-21 230915B CCV Name: CCV-41453B
 Run No: 86543 CCV SeqNo: 1806164
 Lab File ID (Standard): 091459.D Date Analyzed: 9/15/2023
 Instrument ID: GC-21 Time Analyzed: 16:57
 GC Column: ID (mm): Length (M):

	S5 Perylene-d12		S6 Phenanthrene-d10					
	AREA #	RT #	AREA #	RT #				
12 HOUR STD	759350	20.457	822404	13.755				
UPPER LIMIT	1518700	20.957	1644808	14.255				
LOWER LIMIT	379675	19.957	411202	13.255				
SAMPLE NO.								
01 2309055-001AMS	646131	20.454	703160	13.753				
02 2309055-001AMSD	665589	20.454	739579	13.752				

IS5 Perylene-d12 = Perylene-d12

IS6 Phenanthrene-d10 = Phenanthrene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-14 230919C CCV Name: CAL MIDPOINT
 Run No: 86595 CCV SeqNo: 1806811
 Lab File ID (Standard): 091417.D Date Analyzed: 9/14/2023
 Instrument ID: GC-14 Time Analyzed: 18:41
 GC Column: ID (mm): Length (M):

	IS1 (14DCBZ)		2 Acenaphthene-d		IS3 Chrysene-d12		S4 Naphthalene-d8		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12 HOUR STD	0	0.000	273179	12.051	476595	18.382	489690	9.821	
UPPER LIMIT	0	0.500	546358	12.551	953190	18.882	979380	10.321	
LOWER LIMIT	0	-0.500	136590	11.551	238298	17.882	244845	9.321	
SAMPLE NO.									
01	CCV-41510	0	0	381859	12.045	577170	18.369	702061	9.812
02	QCS-41510	0	0	442252	12.051	593748	18.375	773548	9.817
03	CCV-41510B	0	0	358148	12.045	569790	18.372	642909	9.817
04	QCS-41510B	0	0	361338	12.045	584833	18.372	643015	9.817
05	CCV-41510C	0	0	364938	12.045	574345	18.376	654054	9.817
06	QCS-41510C	0	0	375979	12.045	602372	18.375	670268	9.812
07	CCV-41510D	0	0	351895	12.045	532750	18.375	639025	9.813
08	QCS-41510D	0	0	350389	12.045	543447	18.376	635965	9.813

IS1 (14DCBZ) = 1,4-Dichlorobenzene-d4

IS3 Chrysene-d12 = Chrysene-d12

IS2 Acenaphthene-d10 = Acenaphthene-d10

IS4 Naphthalene-d8 = Naphthalene-d8

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-14 230919C CCV Name: CAL MIDPOINT
 Run No: 86595 CCV SeqNo: 1806811
 Lab File ID (Standard): 091417.D Date Analyzed: 9/14/2023
 Instrument ID: GC-14 Time Analyzed: 18:41
 GC Column: ID (mm): Length (M):

	S5 Perylene-d12		S6 Phenanthrene-d10					
	AREA #	RT #	AREA #	RT #				
12 HOUR STD	554974	20.776	505333	13.935				
UPPER LIMIT	1109948	21.276	1010666	14.435				
LOWER LIMIT	277487	20.276	252667	13.435				
SAMPLE NO.								
01	CCV-41510	648857	20.764	683482	13.929			
02	QCS-41510	303160	20.767	833753	13.935			
03	CCV-41510B	668902	20.769	657277	13.929			
04	QCS-41510B	682037	20.769	668429	13.929			
05	CCV-41510C	668016	20.769	662332	13.935			
06	QCS-41510C	528137	20.763	698717	13.929			
07	CCV-41510D	622179	20.763	634744	13.929			
08	QCS-41510D	621532	20.765	636188	13.929			

IS5 Perylene-d12 = Perylene-d12

IS6 Phenanthrene-d10 = Phenanthrene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-14 230919C

CCV Name: CCV-41510

Run No: 86595

CCV SeqNo: 1806812

Lab File ID (Standard): 091852.D

Date Analyzed: 9/19/2023

Instrument ID: GC-14

Time Analyzed: 9:11

GC Column:

ID (mm):

Length (M):

	IS1 (14DCBZ)		2 Acenaphthene-d		IS3 Chrysene-d12		S4 Naphthalene-d8	
	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	0	0.000	381859	12.045	577170	18.369	702061	9.812
UPPER LIMIT	0	0.500	763718	12.545	1154340	18.869	1404122	10.312
LOWER LIMIT	0	-0.500	190930	11.545	288585	17.869	351031	9.312
SAMPLE NO.								
01 MB-41510	0	0	307882	12.045	430075	18.382	632436	9.813
02 LCS-41510	0	0	362278	12.045	582273	18.375	650064	9.813
03 2309195-001A	0	0	463334	12.057	727397	18.383	777224	9.817
04 2309081-012A	0	0	352978	12.045	612724	18.375	686621	9.812
05 2309081-012AMS	0	0	394846	12.045	636967	18.379	693661	9.817
06 2309081-012AMSD	0	0	391142	12.045	624704	18.376	692211	9.817
07 2309182-001A	0	0	352136	12.051	653954	18.389	695518	9.817
08 2309182-002A	0	0	397300	12.051	602415	18.393	748378	9.817
09 2309182-003A	0	0	408931	12.051	599113	18.387	781578	9.817

IS1 (14DCBZ) = 1,4-Dichlorobenzene-d4

IS3 Chrysene-d12 = Chrysene-d12

IS2 Acenaphthene-d10 = Acenaphthene-d10

IS4 Naphthalene-d8 = Naphthalene-d8

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-14 230919C CCV Name: CCV-41510
 Run No: 86595 CCV SeqNo: 1806812
 Lab File ID (Standard): 091852.D Date Analyzed: 9/19/2023
 Instrument ID: GC-14 Time Analyzed: 9:11
 GC Column: ID (mm): Length (M):

	S5 Perylene-d12		S6 Phenanthrene-d10					
	AREA #	RT #	AREA #	RT #				
12 HOUR STD	648857	20.764	683482	13.929				
UPPER LIMIT	1297714	21.264	1366964	14.429				
LOWER LIMIT	324429	20.264	341741	13.429				
SAMPLE NO.								
01 MB-41510	500880	20.776	575963	13.935				
02 LCS-41510	646737	20.772	670843	13.929				
03 2309195-001A	765872	20.782	873358	13.949				
04 2309081-012A	700296	20.772	706966	13.928				
05 2309081-012AMS	710032	20.768	737902	13.929				
06 2309081-012AMSD	694143	20.769	720750	13.929				
07 2309182-001A	411297	20.798	723979	13.935				
08 2309182-002A	254091 *	20.8	806456	13.936				
09 2309182-003A	291237 *	20.791	839072	13.935				

IS5 Perylene-d12 = Perylene-d12

IS6 Phenanthrene-d10 = Phenanthrene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-14 230919C CCV Name: CCV-41510B
 Run No: 86595 CCV SeqNo: 1807536
 Lab File ID (Standard): 092003.D Date Analyzed: 9/20/2023
 Instrument ID: GC-14 Time Analyzed: 9:03
 GC Column: ID (mm): Length (M):

	IS1 (14DCBZ)		2 Acenaphthene-d		IS3 Chrysene-d12		S4 Naphthalene-d8	
	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	0	0.000	358148	12.045	569790	18.372	642909	9.817
UPPER LIMIT	0	0.500	716296	12.545	1139580	18.872	1285818	10.317
LOWER LIMIT	0	-0.500	179074	11.545	284895	17.872	321455	9.317
SAMPLE NO.								
01 2309182-002A	0	0	346768	12.045	672579	18.379	702260	9.817
02 2309182-003A	0	0	375150	12.045	708969	18.379	757279	9.817

IS1 (14DCBZ) = 1,4-Dichlorobenzene-d4

IS3 Chrysene-d12 = Chrysene-d12

IS2 Acenaphthene-d10 = Acenaphthene-d10

IS4 Naphthalene-d8 = Naphthalene-d8

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-14 230919C CCV Name: CCV-41510B
 Run No: 86595 CCV SeqNo: 1807536
 Lab File ID (Standard): 092003.D Date Analyzed: 9/20/2023
 Instrument ID: GC-14 Time Analyzed: 9:03
 GC Column: ID (mm): Length (M):

	S5 Perylene-d12		S6 Phenanthrene-d10					
	AREA #	RT #	AREA #	RT #				
12 HOUR STD	668902	20.769	657277	13.929				
UPPER LIMIT	1337804	21.269	1314554	14.429				
LOWER LIMIT	334451	20.269	328639	13.429				
SAMPLE NO.								
01 2309182-002A	787026	20.773	683619	13.936				
02 2309182-003A	822046	20.773	721063	13.935				

IS5 Perylene-d12 = Perylene-d12

IS6 Phenanthrene-d10 = Phenanthrene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-14 230919C

CCV Name: CCV-41510C

Run No: 86595

CCV SeqNo: 1807808

Lab File ID (Standard): 092009.D

Date Analyzed: 9/20/2023

Instrument ID: GC-14

Time Analyzed: 17:52

GC Column:

ID (mm):

Length (M):

	IS1 (14DCBZ)		2 Acenaphthene-d		IS3 Chrysene-d12		IS4 Naphthalene-d8	
	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	0	0.000	364938	12.045	574345	18.376	654054	9.817
UPPER LIMIT	0	0.500	729876	12.545	1148690	18.876	1308108	10.317
LOWER LIMIT	0	-0.500	182469	11.545	287173	17.876	327027	9.317
SAMPLE NO.								
01	2309204-001A	0	390194	12.045	588102	18.372	704395	9.817
02	2309187-005A	0	365551	12.045	538376	18.376	729036	9.813
03	2309187-007A	0	366220	12.045	533422	18.375	732425	9.812
04	2309187-012A	0	388799	12.045	702731	18.376	723438	9.813
05	2309187-014A	0	368609	12.045	610867	18.375	725780	9.812
06	2309187-016A	0	369295	12.045	668625	18.376	726157	9.813
07	2309187-018A	0	355484	12.045	544712	18.375	706501	9.813
08	2309187-033A	0	377427	12.045	601401	18.376	734966	9.812
09	2309187-035A	0	348524	12.045	627023	18.372	680217	9.812
10	2309187-045A	0	365633	12.045	606738	18.372	724353	9.812
11	2309187-065A	0	357154	12.045	557317	18.376	718458	9.812
12	2309187-067A	0	361061	12.045	664810	18.376	709226	9.813
13	2309187-047A	0	413265	12.045	728224	18.376	793850	9.812

IS1 (14DCBZ) = 1,4-Dichlorobenzene-d4

IS3 Chrysene-d12 = Chrysene-d12

IS2 Acenaphthene-d10 = Acenaphthene-d10

IS4 Naphthalene-d8 = Naphthalene-d8

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-14 230919C CCV Name: CCV-41510C
 Run No: 86595 CCV SeqNo: 1807808
 Lab File ID (Standard): 092009.D Date Analyzed: 9/20/2023
 Instrument ID: GC-14 Time Analyzed: 17:52
 GC Column: ID (mm): Length (M):

	S5 Perylene-d12		S6 Phenanthrene-d10					
	AREA #	RT #	AREA #	RT #				
12 HOUR STD	668016	20.769	662332	13.935				
UPPER LIMIT	1336032	21.269	1324664	14.435				
LOWER LIMIT	334008	20.269	331166	13.435				
SAMPLE NO.								
01	2309204-001A	698206	20.769	744482	13.929			
02	2309187-005A	661361	20.769	706747	13.929			
03	2309187-007A	659285	20.767	708266	13.929			
04	2309187-012A	819500	20.773	778562	13.935			
05	2309187-014A	733512	20.767	724174	13.935			
06	2309187-016A	782564	20.769	726492	13.929			
07	2309187-018A	685219	20.767	694869	13.929			
08	2309187-033A	717768	20.769	752966	13.929			
09	2309187-035A	739135	20.765	681004	13.929			
10	2309187-045A	742312	20.765	701720	13.928			
11	2309187-065A	692278	20.764	697739	13.929			
12	2309187-067A	765357	20.764	726190	13.929			
13	2309187-047A	545079	20.764	830537	13.929			

IS5 Perylene-d12 = Perylene-d12

IS6 Phenanthrene-d10 = Phenanthrene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-14 230919C

CCV Name: CCV-41510D

Run No: 86595

CCV SeqNo: 1807823

Lab File ID (Standard): 092103.D

Date Analyzed: 9/21/2023

Instrument ID: GC-14

Time Analyzed: 9:30

GC Column:

ID (mm):

Length (M):

	IS1 (14DCBZ)		2 Acenaphthene-d		IS3 Chrysene-d12		S4 Naphthalene-d	
	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	0	0.000	351895	12.045	532750	18.375	639025	9.813
UPPER LIMIT	0	0.500	703790	12.545	1065500	18.875	1278050	10.313
LOWER LIMIT	0	-0.500	175948	11.545	266375	17.875	319513	9.313
SAMPLE NO.								
01 2309204-001A	0	0	361162	12.045	500746	18.379	706873	9.813

IS1 (14DCBZ) = 1,4-Dichlorobenzene-d4

IS3 Chrysene-d12 = Chrysene-d12

IS2 Acenaphthene-d10 = Acenaphthene-d10

IS4 Naphthalene-d8 = Naphthalene-d8

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-14 230919C CCV Name: CCV-41510D
 Run No: 86595 CCV SeqNo: 1807823
 Lab File ID (Standard): 092103.D Date Analyzed: 9/21/2023
 Instrument ID: GC-14 Time Analyzed: 9:30
 GC Column: ID (mm): Length (M):

	S5 Perylene-d12		S6 Phenanthrene-d10				
	AREA #	RT #	AREA #	RT #			
12 HOUR STD	622179	20.763	634744	13.929			
UPPER LIMIT	1244358	21.263	1269488	14.429			
LOWER LIMIT	311090	20.263	317372	13.429			
SAMPLE NO.							
01 2309204-001A	625783	20.769	667152	13.929			

IS5 Perylene-d12 = Perylene-d12

IS6 Phenanthrene-d10 = Phenanthrene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

DATA SET for Review - Deliverable Requirements

Volatile Organic Compounds by EPA Method 8260D

Fremont Analytical Work Order No. 2309081

GeoEngineers

Project Name: South Jackson Street

Project Number: 24504-001-01

This data set contains the following:

- Analytical Sequence Summary
- Calibration Information
- Tune Information
- Internal Standards Report

Data Directory: D:\GC-19\Data\090723\

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) 090701.D R	8260.M O-VOC-W		1.000	07 Sep 2023 08:38
2) 090702.D VOC W CCV C	8260.M O-VOC-W	28	1.000	07 Sep 2023 09:08
3) 090703.D GX CCV C	8260.M O-VOC-GX-W	29	1.000	07 Sep 2023 09:38
4) 090704.D R	8260.M O-VOC-W		1.000	07 Sep 2023 10:07
5) 090705.D 2309033-001A	8260.M O-VOC-W	30	1.000	07 Sep 2023 10:37
6) 090706.D 2309034-001A	8260.M O-VOC-W	31	1.000	07 Sep 2023 11:08
7) 090707.D 2309034-002A	8260.M O-VOC-W	32	1.000	07 Sep 2023 11:38
8) 090708.D 2309033-001AMS VOC	8260.M O-VOC-W	33	1.000	07 Sep 2023 12:08
9) 090709.D 2309034-001AMS GX	8260.M O-VOC-GX-W	34	1.000	07 Sep 2023 12:38
10) 090710.D R	8260.M O-VOC-W		1.000	07 Sep 2023 13:07
11) 090711.D R	8260.M O-VOC-W		1.000	07 Sep 2023 13:36
12) 090712.D 2309030-001A	8260.M O-VOC-W	35	1.000	07 Sep 2023 14:06
13) 090713.D R	8260.M O-VOC-W		1.000	07 Sep 2023 14:35
14) 090714.D R	8260.M O-VOC-W		1.000	07 Sep 2023 15:04
15) 090715.D 23089042-001A 100X	8260.M O-VOC-W	38	1.000	07 Sep 2023 15:34
16) 090716.D 23089042-002A 10X	8260.M O-VOC-W	39	1.000	07 Sep 2023 16:04
17) 090717.D 23089042-002A	8260.M O-VOC-W	40	1.000	07 Sep 2023 16:35
18) 090718.D R	8260.M O-VOC-W		1.000	07 Sep 2023 17:04
19) 090722.D 2309034-002A RR	8260.M O-VOC-W	42	1.000	07 Sep 2023 17:34
20) 090723.D 2309034-001A 10X	8260.M O-VOC-W	43	1.000	07 Sep 2023 18:04
21) 090724.D 2309030-001A 10X	8260.M O-VOC-W	44	1.000	07 Sep 2023 18:34

22)	090725.D		8260.M						
R		O-VOC-W		1.000	07 Sep 2023	19:03			

23)	090726.D		8260.M						
R		O-VOC-W		1.000	07 Sep 2023	19:32			

24)	090727.D		8260.M						
VOC W	CCV D	O-VOC-W	36	1.000	07 Sep 2023	20:02			

25)	090728.D		8260.M						
GX	CCV D	O-VOC-GX-W	37	1.000	07 Sep 2023	20:32			

26)	090729.D		8260.M						
R		O-VOC-W		1.000	07 Sep 2023	21:01			

27)	090730.D		8260.M						
R		O-VOC-W		1.000	07 Sep 2023	21:30			

28)	090731.D		8260.M						
R		O-VOC-W		1.000	07 Sep 2023	21:59			

29)	090732.D		8260.M						
R		O-VOC-W		1.000	07 Sep 2023	22:28			

30)	090733.D		8260.M						
R		O-VOC-W		1.000	07 Sep 2023	22:57			

31)	090734.D		8260.M						
VOC S	CAL 1	O-VOC-S	45	1.000	07 Sep 2023	23:28			

32)	090735.D		8260.M						
VOC S	CAL 2	O-VOC-S	46	1.000	07 Sep 2023	23:58			

33)	090736.D		8260.M						
VOC S	CAL 3	O-VOC-S	47	1.000	08 Sep 2023	00:28			

34)	090737.D		8260.M						
VOC S	CAL 4	O-VOC-S	48	1.000	08 Sep 2023	00:58			

35)	090738.D		8260.M						
VOC S	CAL 5	O-VOC-S	49	1.000	08 Sep 2023	01:28			

36)	090739.D		8260.M						
VOC S	CAL 6	O-VOC-S	50	1.000	08 Sep 2023	01:58			

37)	090740.D		8260.M						
VOC S	CAL 7	O-VOC-S	51	1.000	08 Sep 2023	02:29			

38)	090741.D		8260.M						
VOC S	CAL 8	O-VOC-S	52	1.000	08 Sep 2023	02:59			

39)	090742.D		8260.M						
R		O-VOC-S		1.000	08 Sep 2023	03:28			

40)	090743.D		8260.M						
R		O-VOC-S		1.000	08 Sep 2023	03:57			

41)	090744.D		8260.M						
VOC S	ICB	O-VOC-S	53	1.000	08 Sep 2023	04:27			

42)	090745.D		8260.M						
VOC S	ICV	O-VOC-S	54	1.000	08 Sep 2023	04:57			

43)	090746.D		8260.M						
0		O-VOC-S		1.000	08 Sep 2023	05:26			

44)	090747.D		8260.M						
MB S		O-VOC-S	55	1.000	08 Sep 2023	05:56			

45)	090748.D		8260.M						

VOC S MDL 0.1	O-VOC-S	56	1.000	08 Sep 2023	06:26
46) 090749.D	8260.M				
VOC S MDL 0.2	O-VOC-S	57	1.000	08 Sep 2023	06:57
47) 090750.D	8260.M				
VOC S MDL 0.5	O-VOC-S	58	1.000	08 Sep 2023	07:27
48) 090751.D	8260.M				
VOC S MDL 1.0	O-VOC-S	59	1.000	08 Sep 2023	07:57
49) 090752.D	8260.M				
VOC S MDL 2.0	O-VOC-S	60	1.000	08 Sep 2023	08:27
50) 090753.D	8260.M				
R	O-VOC-S		1.000	08 Sep 2023	08:56
51) 090754.D	8260.M				
GX CCV E	O-VOC-S	62	1.000	08 Sep 2023	10:42
52) 090755.D	8260.M				
R	O-VOC-S		1.000	08 Sep 2023	11:11
53) 090756.D	8260.M				
R	O-VOC-S		1.000	08 Sep 2023	11:40
54) 090757.D	8260.M				
R	O-VOC-S		1.000	08 Sep 2023	12:09
55) 090759.D	8260.M				
MB S	O-VOC-S	63	1.000	08 Sep 2023	12:39
56) 090760.D	8260.M				
VOC S MDL 0.1	O-VOC-S	64	1.000	08 Sep 2023	13:09
57) 090761.D	8260.M				
VOC S MDL 0.2	O-VOC-S	65	1.000	08 Sep 2023	13:39
58) 090762.D	8260.M				
VOC S MDL 0.5	O-VOC-S	66	1.000	08 Sep 2023	14:09
59) 090763.D	8260.M				
VOC S MDL 1.0	O-VOC-S	67	1.000	08 Sep 2023	14:39
60) 090764.D	8260.M				
VOC S MDL 2.0	O-VOC-S	68	1.000	08 Sep 2023	15:10
61) 090765.D	8260.M				
R	O-VOC-S		1.000	08 Sep 2023	15:39
62) 090766.D	8260.M				
GX S 25	O-VOC-S	69	1.000	08 Sep 2023	16:09
63) 090767.D	8260.M				
GX S 50	O-VOC-S	70	1.000	08 Sep 2023	16:39
64) 090768.D	8260.M				
VOC S CCV A	O-VOC-S	71	1.000	08 Sep 2023	17:09
65) 090769.D	8260.M				
GX CCV F	O-VOC-S	72	1.000	08 Sep 2023	17:39
66) 090770.D	8260.M				
R	O-VOC-S		1.000	08 Sep 2023	18:08
67) 090771.D	8260.M				
R	O-VOC-S		1.000	08 Sep 2023	18:37
68) 090772.D	8260.M				
2309081-014A TB	O-VOC-S	73	1.000	08 Sep 2023	19:07

69)	090773.D		8260.M				
2309081-001B		O-VOC-S		74	1.000	08 Sep 2023	19:38
70)	090774.D		8260.M				
2309081-002B		O-VOC-S		75	1.000	08 Sep 2023	20:08
71)	090775.D		8260.M				
2309081-002BDUP		O-VOC-S		76	1.000	08 Sep 2023	20:38
72)	090776.D		8260.M				
2309081-004B		O-VOC-S		77	1.000	08 Sep 2023	21:08
73)	090777.D		8260.M				
2309081-006B		O-VOC-S		78	1.000	08 Sep 2023	21:38
74)	090778.D		8260.M				
2309081-007B		O-VOC-S		79	1.000	08 Sep 2023	22:09
75)	090779.D		8260.M				
2309081-009B		O-VOC-S		80	1.000	08 Sep 2023	22:39
76)	090780.D		8260.M				
2309081-010B		O-VOC-S		81	1.000	08 Sep 2023	23:09
77)	090781.D		8260.M				
2309081-011B		O-VOC-S		82	1.000	08 Sep 2023	23:39
78)	090782.D		8260.M				
2309081-013B 10X		O-VOC-S		83	1.000	09 Sep 2023	00:09
79)	090783.D		8260.M				
R		O-VOC-S			1.000	09 Sep 2023	00:38
80)	090784.D		8260.M				
R		O-VOC-S			1.000	09 Sep 2023	01:07
81)	090785.D		8260.M				
2309081-004BMS VOC		O-VOC-S		84	1.000	09 Sep 2023	01:38
82)	090786.D		8260.M				
2309081-006BMS GX		O-VOC-GX-S		1	1.000	09 Sep 2023	02:08
83)	090787.D		8260.M				
R		O-VOC-S			1.000	09 Sep 2023	02:37
84)	090788.D		8260.M				
R		O-VOC-S			1.000	09 Sep 2023	03:06
85)	090789.D		8260.M				
R		O-VOC-S			1.000	09 Sep 2023	03:35
86)	090790.D		8260.M				
VOC S CCV B		O-VOC-S		2	1.000	09 Sep 2023	04:05
87)	090791.D		8260.M				
GX CCV G		O-VOC-GX-S		3	1.000	09 Sep 2023	04:35
88)	090792.D		8260.M				
R		O-VOC-S			1.000	09 Sep 2023	05:04
89)	090793.D		8260.M				
R		O-VOC-S			1.000	09 Sep 2023	05:33
90)	090794.D		8260.M				
R		O-VOC-S			1.000	09 Sep 2023	06:02
91)	090795.D		8260.M				
R		O-VOC-S			1.000	09 Sep 2023	06:31

Data Directory: D:\GC-19\Data\091123\

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) 091210.D No data found	8260.M		0.000	N/A
2) 091101.D R	8260.M O-VOC-W		1.000	11 Sep 2023 09:11
3) 091102.D VOC W CCV A	8260.M O-VOC-W	1	1.000	11 Sep 2023 09:41
4) 091103.D VOC S CCV A	8260.M O-VOC-S	2	1.000	11 Sep 2023 10:11
5) 091104.D GX CCV A	8260.M O-VOC-GX-W	3	1.000	11 Sep 2023 10:42
6) 091105.D 1122 tetra breakdown	8260.M O-VOC-W	4	1.000	11 Sep 2023 11:12
7) 091106.D VOC S CCV B	8260.M O-VOC-S	7	1.000	11 Sep 2023 11:42
8) 091107.D R	8260.M O-VOC-S		1.000	11 Sep 2023 12:11
9) 091109.D 2309081-010B 1X RR	8260.M O-VOC-S	5	1.000	11 Sep 2023 12:40
10) 091110.D 2309081-009B 10X	8260.M O-VOC-S	6	1.000	11 Sep 2023 13:10
11) 091111.D 2309081-013B 1000X	8260.M O-VOC-GX-S	8	1.000	11 Sep 2023 13:40
12) 091112.D 2309081-013B 100X	8260.M O-VOC-S	9	1.000	11 Sep 2023 14:10
13) 091113.D R	8260.M O-VOC-S		1.000	11 Sep 2023 14:41
14) 091114.D R	8260.M O-VOC-S		1.000	11 Sep 2023 15:10
15) 091115.D GX CCV B	8260.M O-VOC-GX-S	10	1.000	11 Sep 2023 15:40
16) 091116.D VOC S CCV C	8260.M O-VOC-S	11	1.000	11 Sep 2023 16:10
17) 091117.D R	8260.M O-VOC-S		1.000	11 Sep 2023 16:39
18) 091118.D MB S	8260.M O-VOC-S	12	1.000	11 Sep 2023 17:09
19) 091119.D 2309051-013B	8260.M O-VOC-S	13	1.000	11 Sep 2023 17:39
20) 091120.D 2309051-017B	8260.M O-VOC-S	14	1.000	11 Sep 2023 18:09
21) 091121.D 2309051-017BDUP	8260.M O-VOC-S	15	1.000	11 Sep 2023 18:40

22)	091122.D		8260.M						
	2309051-018B	O-VOC-S		16	1.000	11 Sep 2023	19:10		

	23)	091123.D	8260.M						
R		O-VOC-S			1.000	11 Sep 2023	19:39		

	24)	091124.D	8260.M						
	2309085-001B	O-VOC-S		17	1.000	11 Sep 2023	20:09		

	25)	091125.D	8260.M						
	2309085-001BDUP	O-VOC-S		18	1.000	11 Sep 2023	20:39		

	26)	091126.D	8260.M						
	2309085-002B	O-VOC-S		19	1.000	11 Sep 2023	21:09		

	27)	091127.D	8260.M						
	2309085-003B	O-VOC-S		20	1.000	11 Sep 2023	21:39		

	28)	091128.D	8260.M						
	2309085-004B	O-VOC-S		21	1.000	11 Sep 2023	22:09		

	29)	091129.D	8260.M						
	2309085-005B	O-VOC-S		22	1.000	11 Sep 2023	22:40		

	30)	091130.D	8260.M						
	2309085-006B	O-VOC-S		23	1.000	11 Sep 2023	23:10		

	31)	091131.D	8260.M						
	2309085-007B	O-VOC-S		24	1.000	11 Sep 2023	23:40		

	32)	091132.D	8260.M						
	2309085-008B	O-VOC-S		25	1.000	12 Sep 2023	00:10		

	33)	091133.D	8260.M						
	2309085-009B	O-VOC-S		26	1.000	12 Sep 2023	00:40		

	34)	091134.D	8260.M						
R		O-VOC-S			1.000	12 Sep 2023	01:09		

	35)	091135.D	8260.M						
	2309051-013BMS VOC	O-VOC-S		27	1.000	12 Sep 2023	01:39		

	36)	091136.D	8260.M						
	2309051-018BMS GX	O-VOC-GX-S		28	1.000	12 Sep 2023	02:09		

	37)	091137.D	8260.M						
R		O-VOC-S			1.000	12 Sep 2023	02:38		

	38)	091138.D	8260.M						
VOC S CCV D		O-VOC-S		29	1.000	12 Sep 2023	03:09		

	39)	091139.D	8260.M						
GX CCV C		O-VOC-GX-S		30	1.000	12 Sep 2023	03:39		

	40)	091140.D	8260.M						
R		O-VOC-S			1.000	12 Sep 2023	04:08		

	41)	091141.D	8260.M						
VOC S MDL 0.1		O-DOD-VOC-S		38	1.000	12 Sep 2023	04:38		

	42)	091142.D	8260.M						
VOC S MDL 0.2		O-DOD-VOC-S		39	1.000	12 Sep 2023	05:08		

	43)	091143.D	8260.M						
VOC S MDL 0.5		O-DOD-VOC-S		40	1.000	12 Sep 2023	05:38		

	44)	091144.D	8260.M						
VOC S MDL 1.0		O-DOD-VOC-S		41	1.000	12 Sep 2023	06:08		

	45)	091145.D	8260.M						

VOC S MDL 2.0	O-DOD-VOC-S	42	1.000	12 Sep 2023	06:39
46) 091146.D	8260.M				
GX S MDL 25	O-DOD-VOC-GX-S	43	1.000	12 Sep 2023	07:09
47) 091147.D	8260.M				
GX S MDL 50	O-DOD-VOC-GX-S	44	1.000	12 Sep 2023	07:39
48) 091148.D	8260.M				
R	O-DOD-VOC-GX-S		1.000	12 Sep 2023	08:08
49) 091149.D	8260.M				
2309051-010B	O-VOC-S	31	1.000	12 Sep 2023	08:38
50) 091150.D	8260.M				
2309055-001B	O-VOC-S	32	1.000	12 Sep 2023	09:08
51) 091151.D	8260.M				
2309051-009B	O-VOC-S	33	1.000	12 Sep 2023	09:38
52) 091152.D	8260.M				
R	O-VOC-S		1.000	12 Sep 2023	10:07
53) 091153.D	8260.M				
2309051-019B	O-VOC-S	34	1.000	12 Sep 2023	10:38
54) 091154.D	8260.M				
2309051-020B	O-VOC-S	35	1.000	12 Sep 2023	11:08
55) 091155.D	8260.M				
2309096-002B	O-VOC-S	45	1.000	12 Sep 2023	11:38
56) 091156.D	8260.M				
R	O-VOC-S		1.000	12 Sep 2023	12:07
57) 091157.D	8260.M				
2309096-002B RR	O-VOC-S	50	1.000	12 Sep 2023	12:37
58) 091158.D	8260.M				
2309096-001B 10X	O-VOC-S	51	1.000	12 Sep 2023	13:07
59) 091159.D	8260.M				
R	O-VOC-S		1.000	12 Sep 2023	13:36
60) 091160.D	8260.M				
2309096-001B	O-VOC-S	46	1.000	12 Sep 2023	14:06
61) 091161.D	8260.M				
R	O-VOC-S		1.000	12 Sep 2023	14:35
62) 091162.D	8260.M				
GX CCV D	O-VOC-GX-S	37	1.000	12 Sep 2023	15:05
63) 091163.D	8260.M				
VOC S CCV E	O-VOC-S	36	1.000	12 Sep 2023	15:36
64) 091164.D	8260.M				
R	O-VOC-S		1.000	12 Sep 2023	16:25
65) 091165.D	8260.M				
R	O-VOC-S		1.000	12 Sep 2023	16:54
66) 091166.D	8260.M				
R	O-VOC-S		1.000	12 Sep 2023	17:23
67) 091167.D	8260.M				
MB S	O-VOC-S	52	1.000	12 Sep 2023	17:53
68) 091168.D	8260.M				
GX W MDL 25	O-VOC-GX-W	53	1.000	12 Sep 2023	18:24

69)	091169.D		8260.M						
GX S	MDL 25		O-VOC-GX-S	54	1.000	12 Sep 2023	18:54		
70)	091170.D		8260.M						
GX W	MDL 50		O-VOC-GX-W	55	1.000	12 Sep 2023	19:24		
71)	091171.D		8260.M						
GX S	MDL 50		O-VOC-GX-S	56	1.000	12 Sep 2023	19:54		
72)	091172.D		8260.M						
2309107-001B			O-VOC-S	57	1.000	12 Sep 2023	20:24		
73)	091173.D		8260.M						
2309107-002B			O-VOC-S	58	1.000	12 Sep 2023	20:54		
74)	091174.D		8260.M						
R			O-VOC-S		1.000	12 Sep 2023	21:23		
75)	091175.D		8260.M						
2309081-012B			O-VOC-S	59	1.000	12 Sep 2023	21:54		
76)	091176.D		8260.M						
2309081-012BDUP			O-VOC-S	60	1.000	12 Sep 2023	22:24		
77)	091177.D		8260.M						
2309099-001B			O-VOC-S	61	1.000	12 Sep 2023	22:54		
78)	091178.D		8260.M						
2309099-002B			O-VOC-S	62	1.000	12 Sep 2023	23:24		
79)	091179.D		8260.M						
R			O-VOC-S		1.000	12 Sep 2023	23:53		
80)	091180.D		8260.M						
2309081-008B	10X		O-VOC-S	63	1.000	13 Sep 2023	00:23		
81)	091181.D		8260.M						
R			O-VOC-S		1.000	13 Sep 2023	00:52		
82)	091182.D		8260.M						
2309099-001BMS	VOC		O-VOC-S	64	1.000	13 Sep 2023	01:22		
83)	091183.D		8260.M						
2309099-002BMS	GX		O-VOC-S	65	1.000	13 Sep 2023	01:53		
84)	091185.D		8260.M						
R			O-VOC-S		1.000	13 Sep 2023	02:22		
85)	091186.D		8260.M						
VOC S	CCV AA		O-VOC-S	66	1.000	13 Sep 2023	02:52		
86)	091187.D		8260.M						
GX	CCV AA		O-VOC-S	67	1.000	13 Sep 2023	03:22		
87)	091188.D		8260.M						
R			O-VOC-S		1.000	13 Sep 2023	03:51		
88)	091190.D		8260.M						
2309051-019B	RR		O-VOC-S	68	1.000	13 Sep 2023	04:21		
89)	091191.D		8260.M						
2309051-008B	20X		O-VOC-S	69	1.000	13 Sep 2023	04:51		
90)	091192.D		8260.M						
2309051-018B	20X		O-VOC-S	70	1.000	13 Sep 2023	05:22		
91)	091193.D		8260.M						
2309051-020B	10X		O-VOC-S	71	1.000	13 Sep 2023	05:52		

92) 091194.D	8260.M				
R	O-VOC-S		1.000	13 Sep 2023	06:21

93) 091197.D	8260.M				
2309099-003B	O-VOC-S	72	1.000	13 Sep 2023	06:51

94) 091198.D	8260.M				
2309099-004B	O-VOC-S	73	1.000	13 Sep 2023	07:21

95) 091199.D	8260.M				
2309099-005B	O-VOC-S	74	1.000	13 Sep 2023	07:51

96) 091200.D	8260.M				
R	O-VOC-S		1.000	13 Sep 2023	08:20

97) 091201.D	8260.M				
2309081-008B	O-VOC-S	75	1.000	13 Sep 2023	08:50

98) 091202.D	8260.M				
R	O-VOC-S		1.000	13 Sep 2023	09:19

99) 091204.D	8260.M				
R	O-VOC-S		1.000	13 Sep 2023	09:49

100) 091205.D	8260.M				
VOC S CCV BB	O-VOC-S	76	1.000	13 Sep 2023	10:19

101) 091206.D	8260.M				
GX CCV BB	O-VOC-S	77	1.000	13 Sep 2023	10:49

102) 091207.D	8260.M				
R	O-VOC-S		1.000	13 Sep 2023	11:18

103) 091209.D	8260.M				
2309060-001B 100X	O-VOC-S	78	1.000	13 Sep 2023	11:48



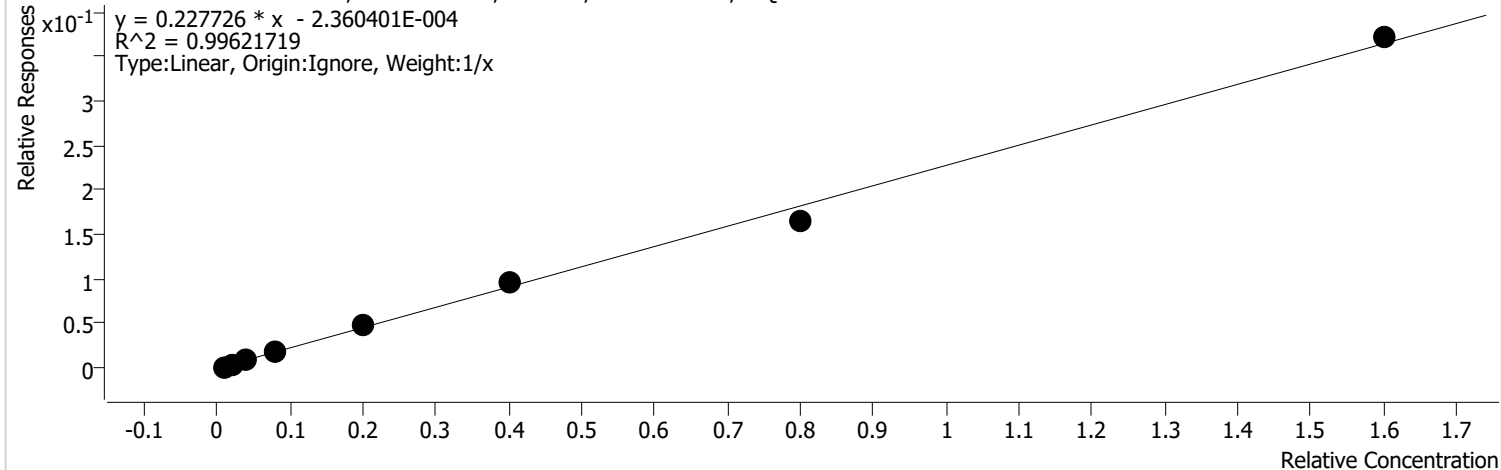
Calibration

Calibration Report

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Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:11 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Dichlorodifluoromethane %RSE = 10.8

Dichlorodifluoromethane - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



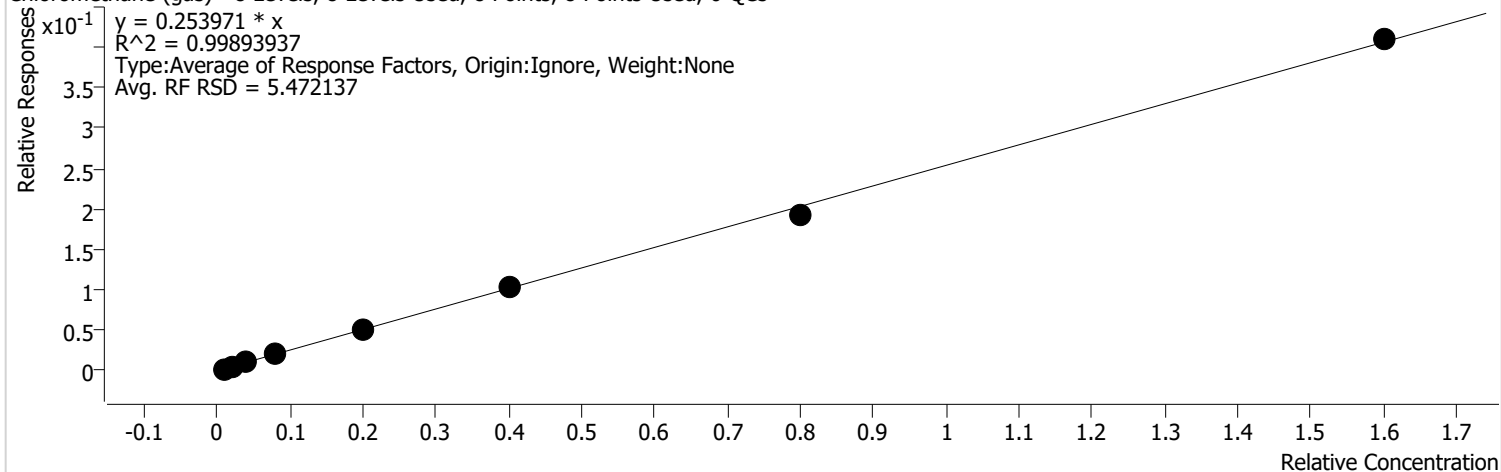
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1	x	2043	0.2000	0.1640	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	6019	0.5000	0.1945	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	15382	1.0000	0.2519	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	30121	2.0000	0.2422	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	72918	5.0000	0.2362	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	150330	10.0000	0.2422	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	263069	20.0000	0.2066	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	604398	40.0000	0.2318	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:12 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Chloromethane (gas) %RSE = 5.5

Chloromethane (gas) - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

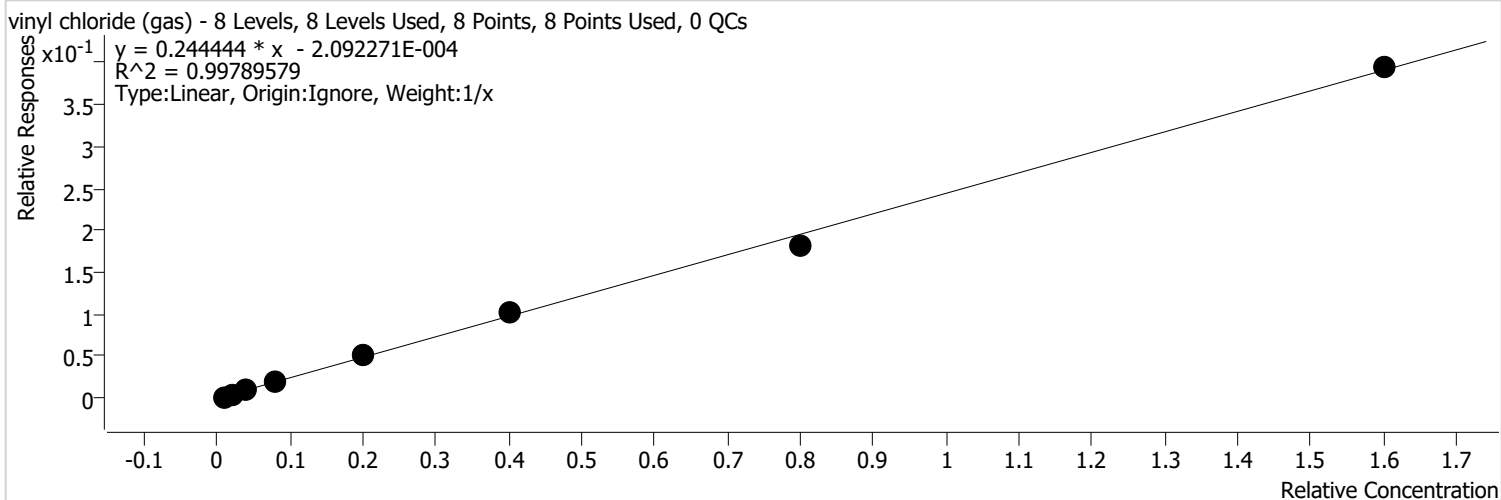


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1	x	3436	0.2000	0.2758	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	7107	0.5000	0.2296	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	15723	1.0000	0.2575	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	32254	2.0000	0.2594	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	78636	5.0000	0.2547	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	161004	10.0000	0.2594	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	304931	20.0000	0.2395	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	667154	40.0000	0.2559	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:12 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

vinyl chloride (gas) %RSE = 8.9



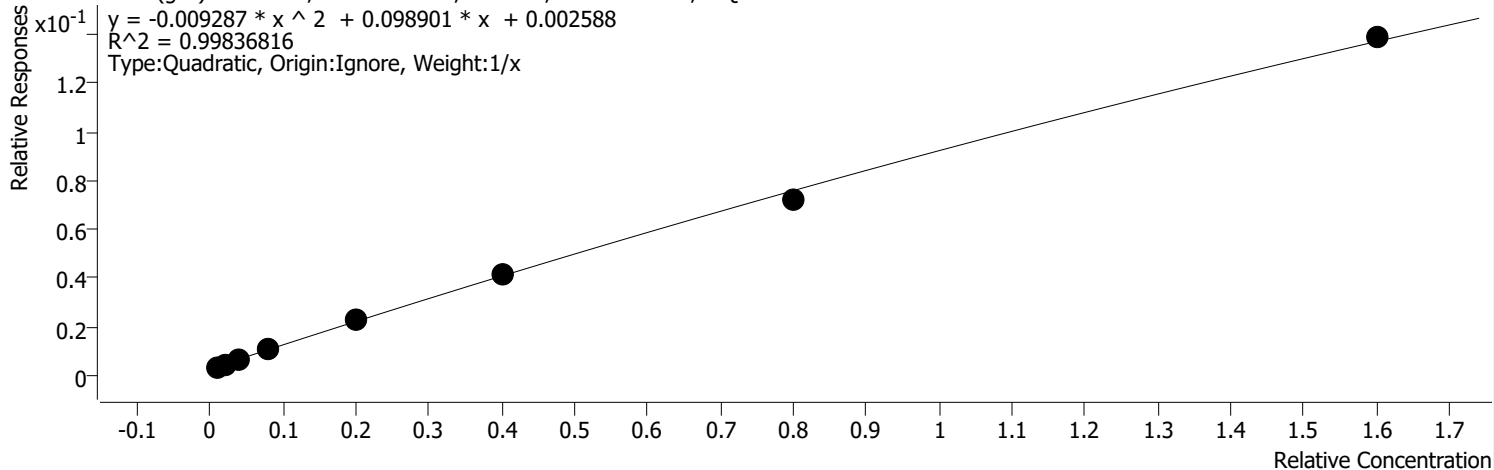
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1	x	2430	0.2000	0.1950	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	6357	0.5000	0.2054	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	16234	1.0000	0.2659	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	31649	2.0000	0.2545	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	79042	5.0000	0.2560	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	159679	10.0000	0.2573	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	291295	20.0000	0.2288	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	642044	40.0000	0.2462	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:12 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Bromomethane (gas) %RSE = 7.8

Bromomethane (gas) - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

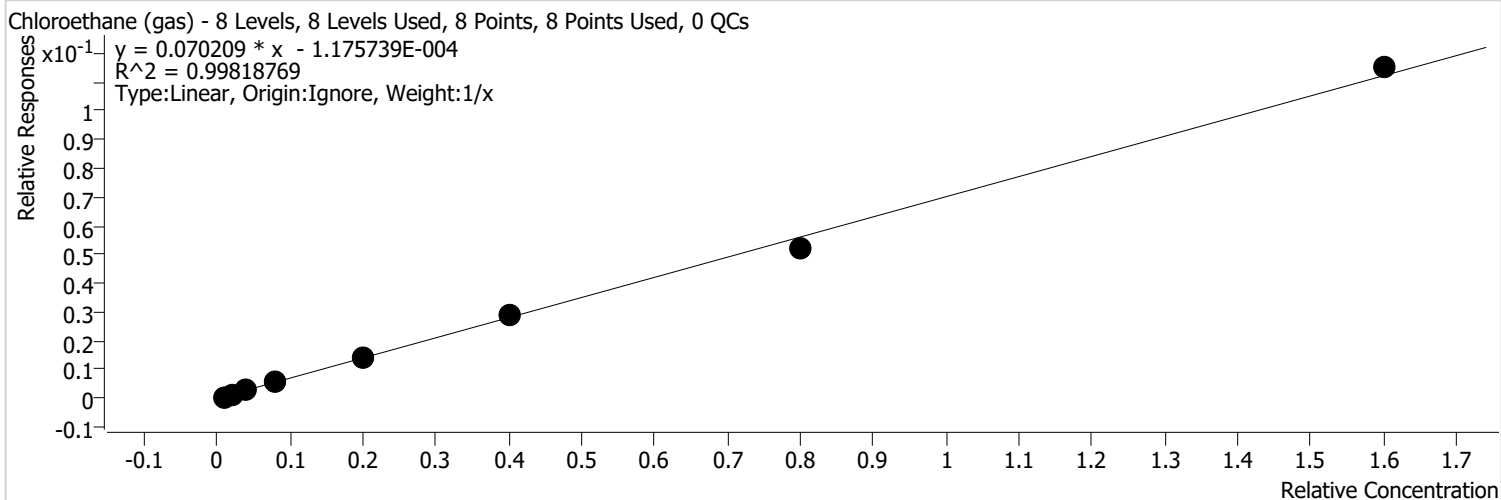


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1	x	5270	0.2000	0.4229	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	6701	0.5000	0.2165	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	9874	1.0000	0.1617	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	17451	2.0000	0.1403	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	35236	5.0000	0.1141	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	64620	10.0000	0.1041	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	114426	20.0000	0.0899	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	225858	40.0000	0.0866	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:12 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Chloroethane (gas) %RSE = 5.0



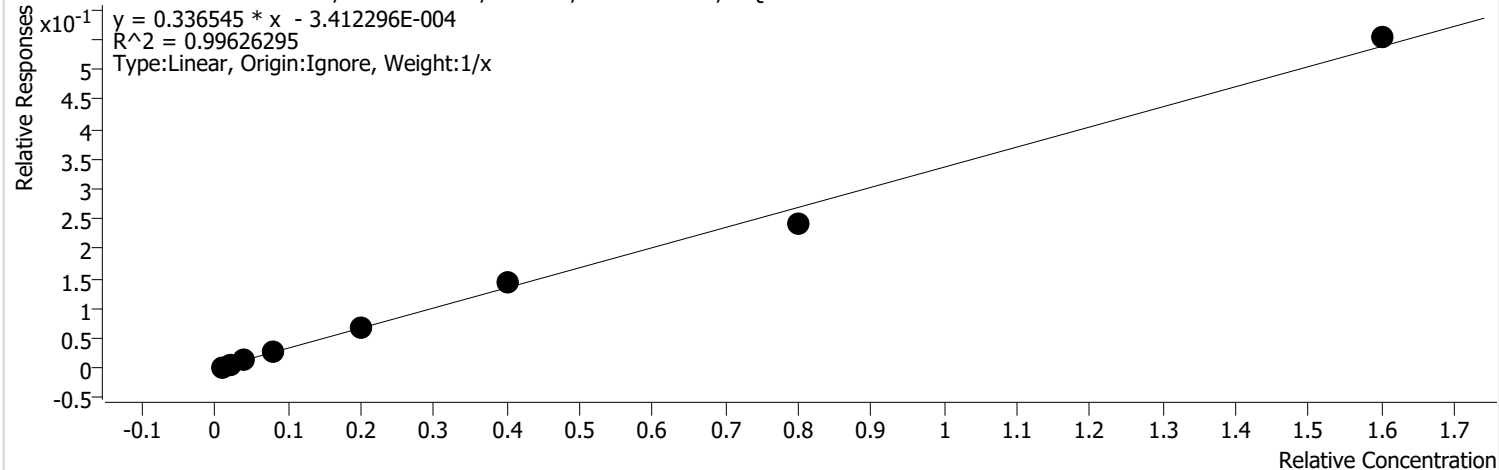
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1	x	630	0.2000	0.0506	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	2064	0.5000	0.0667	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	4206	1.0000	0.0689	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	8943	2.0000	0.0719	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	21031	5.0000	0.0681	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	44752	10.0000	0.0721	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	83303	20.0000	0.0654	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	187424	40.0000	0.0719	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:12 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Trichlorofluoromethane %RSE = 8.2

Trichlorofluoromethane - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



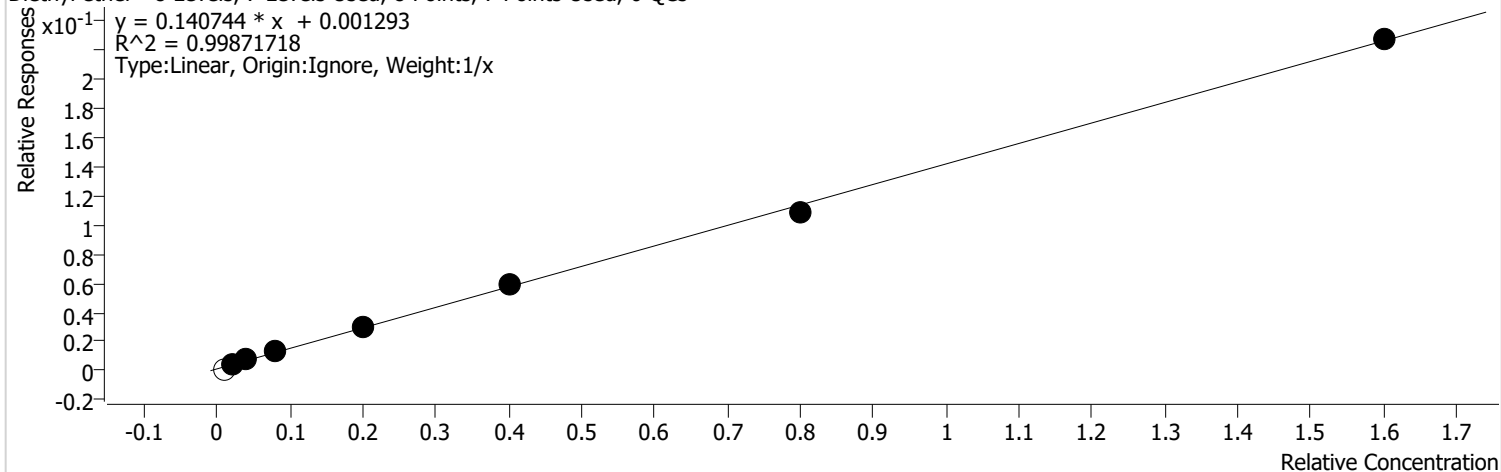
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1	x	3424	0.2000	0.2747	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	8790	0.5000	0.2840	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	21787	1.0000	0.3568	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	44343	2.0000	0.3566	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	104965	5.0000	0.3400	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	220262	10.0000	0.3549	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	387155	20.0000	0.3041	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	900798	40.0000	0.3455	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:12 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Diethyl ether %RSE = 8.8

Diethyl ether - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 0 QCs

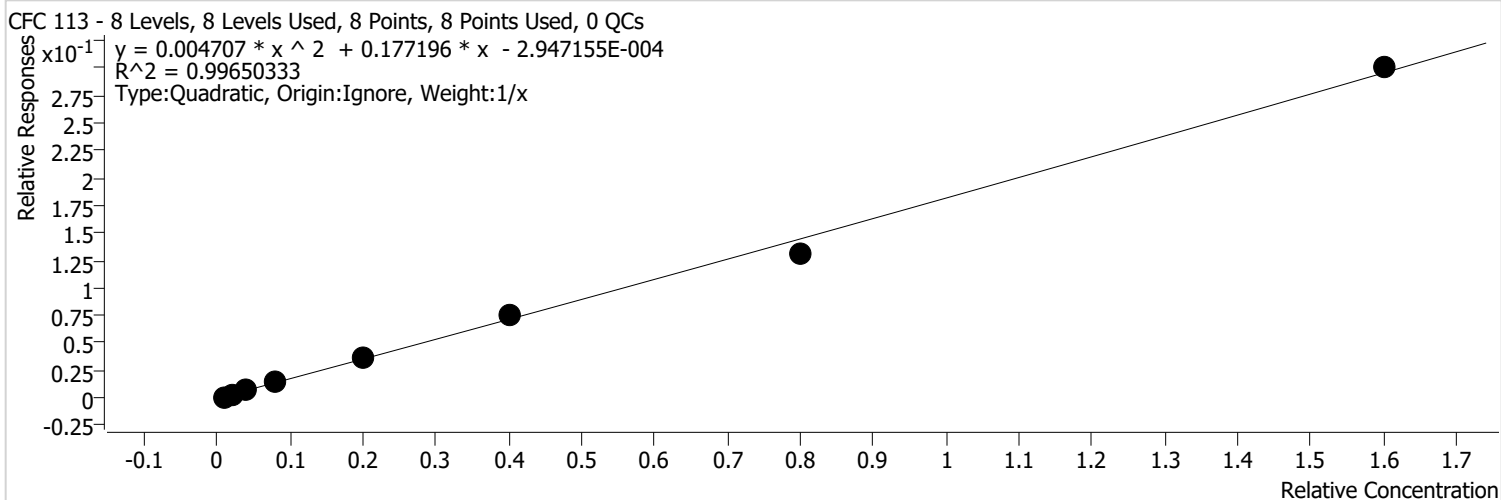


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1		2102	0.2000	0.1687	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	5659	0.5000	0.1828	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	11016	1.0000	0.1804	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	20813	2.0000	0.1674	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	46772	5.0000	0.1515	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	93007	10.0000	0.1499	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	173707	20.0000	0.1365	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	370438	40.0000	0.1421	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin	Analyst Name	FA\GC19
Analysis Time	9/11/2023 9:40 AM	Reporter Name	FA\GC19
Report Time	9/11/2023 9:58:12 AM	Batch State	Processed
Last Calib Update	9/11/2023 7:57 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

CFC 113 %RSE = 8.4

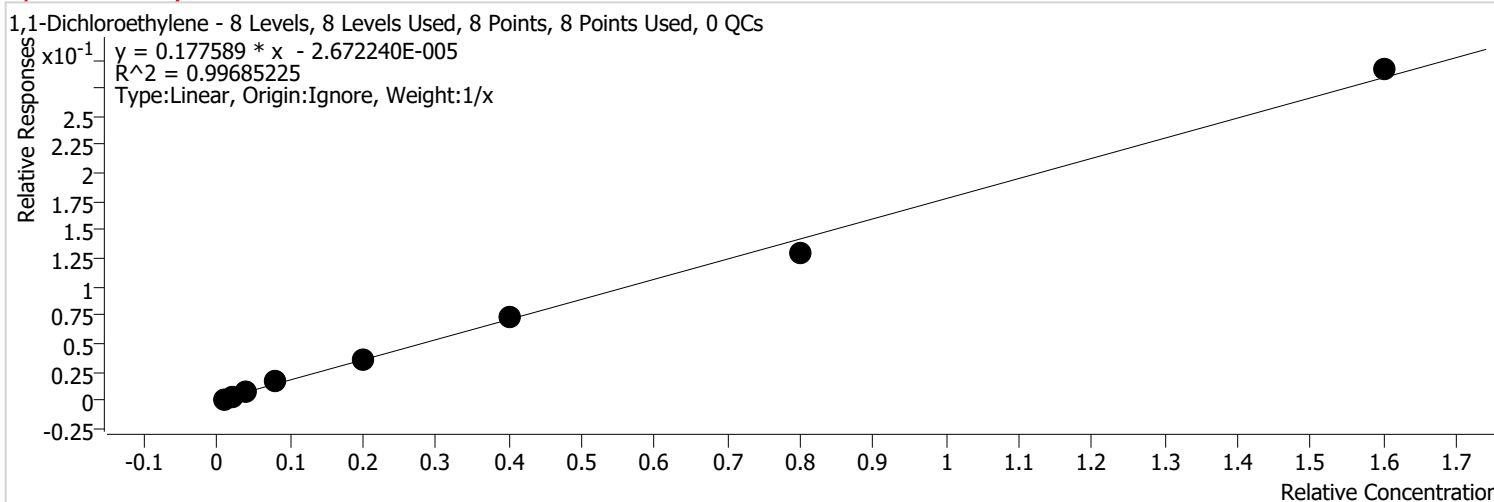


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1	x	1654	0.2000	0.1327	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	4680	0.5000	0.1512	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	9817	1.0000	0.1608	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	23959	2.0000	0.1927	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	57425	5.0000	0.1860	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	118778	10.0000	0.1914	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	209749	20.0000	0.1648	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	488875	40.0000	0.1875	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:12 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,1-Dichloroethylene %RSE = 10.1



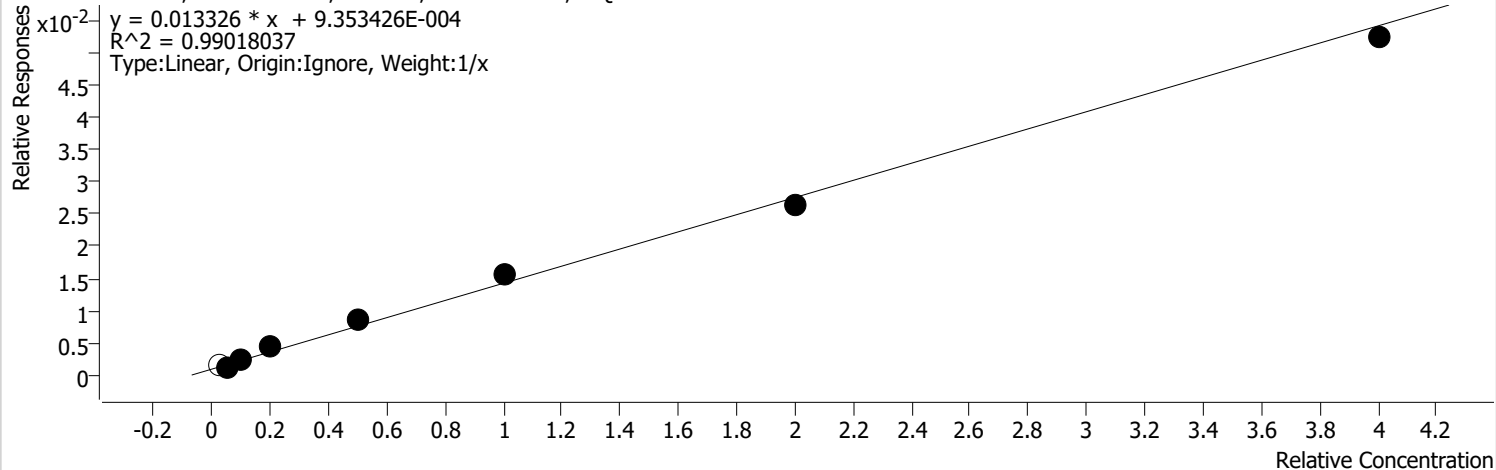
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1	x	1849	0.2000	0.1484	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	5146	0.5000	0.1663	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	12161	1.0000	0.1992	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	24416	2.0000	0.1963	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	53694	5.0000	0.1739	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	115257	10.0000	0.1857	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	207570	20.0000	0.1631	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	474435	40.0000	0.1820	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:12 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Acetone %RSE = 26.9

Acetone - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 0 QCs



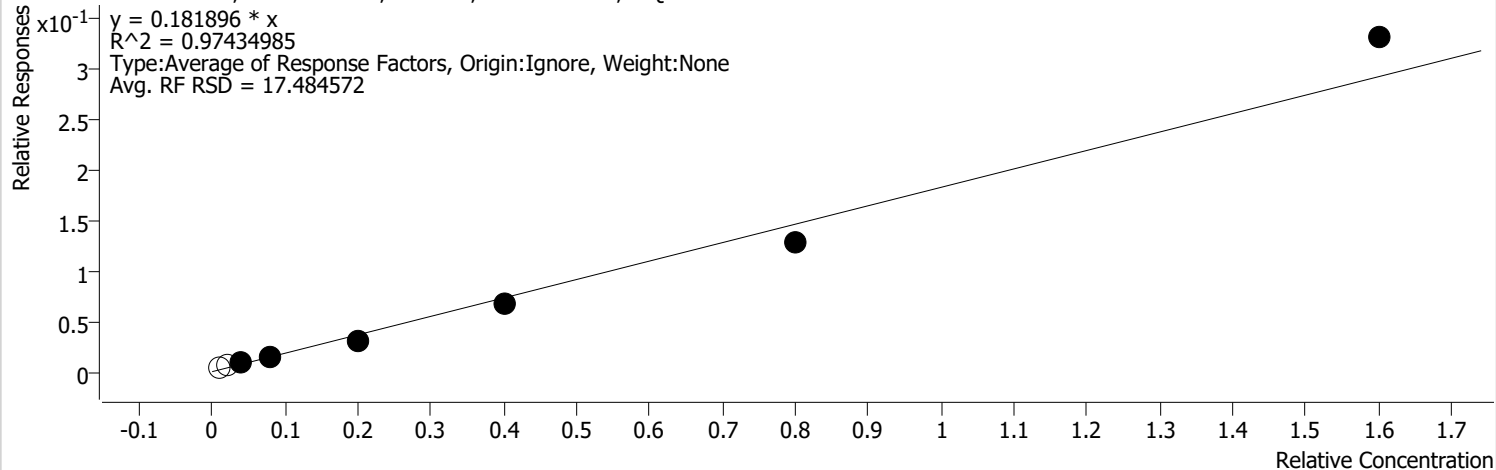
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1		2194	0.5000	0.0704	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	1989	1.2500	0.0257	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	3402	2.5000	0.0223	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	6838	5.0000	0.0220	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	13553	12.5000	0.0176	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	24338	25.0000	0.0157	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	42006	50.0000	0.0132	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	85357	100.0000	0.0131	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:12 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Iodomethane %RSE = 17.5

Iodomethane - 8 Levels, 6 Levels Used, 8 Points, 6 Points Used, 0 QCs



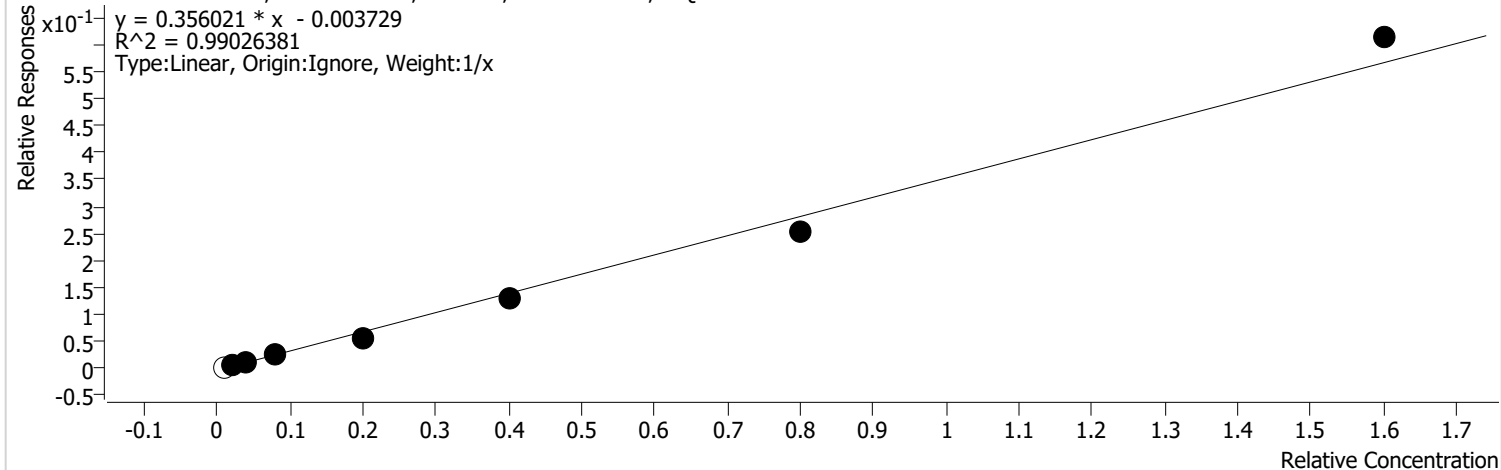
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1		7520	0.2000	0.6035	
D:\GC-19\Data\090723\090735.D	Calibration	2		10198	0.5000	0.3295	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	14377	1.0000	0.2355	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	21121	2.0000	0.1698	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	48593	5.0000	0.1574	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	102204	10.0000	0.1647	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	201217	20.0000	0.1581	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	536918	40.0000	0.2059	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:12 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Carbon disulfide %RSE = 13.5

Carbon disulfide - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 0 QCs



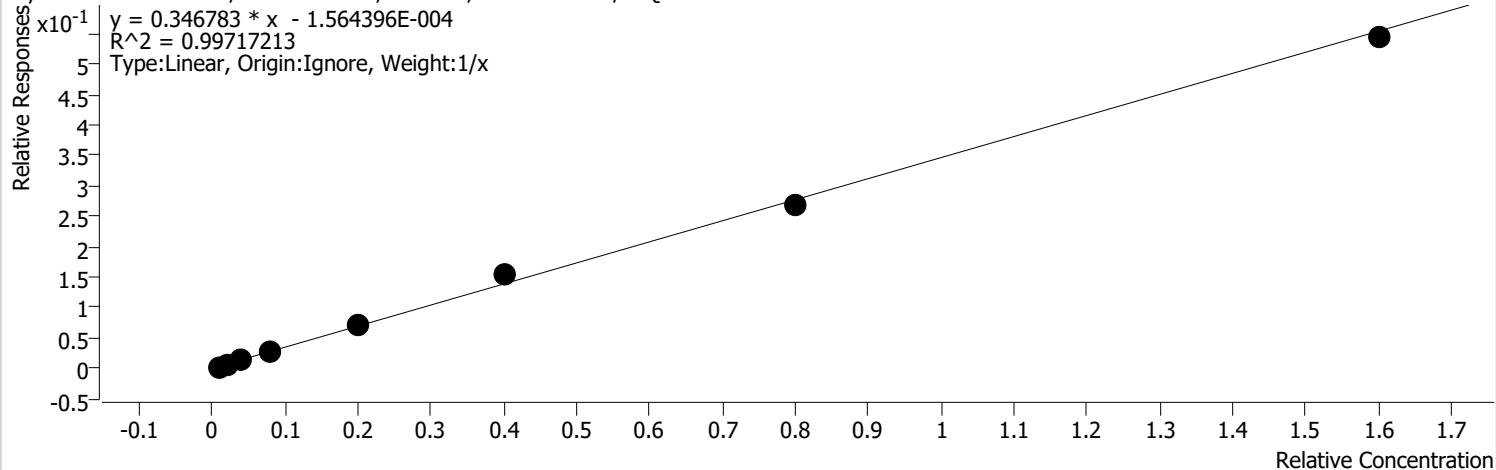
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1		4100	0.2000	0.3290	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	7378	0.5000	0.2384	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	17639	1.0000	0.2889	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	37657	2.0000	0.3028	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	86004	5.0000	0.2786	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	199214	10.0000	0.3210	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	405580	20.0000	0.3186	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	997738	40.0000	0.3827	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:12 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Allyl Chloride %RSE = 8.4

Allyl Chloride - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

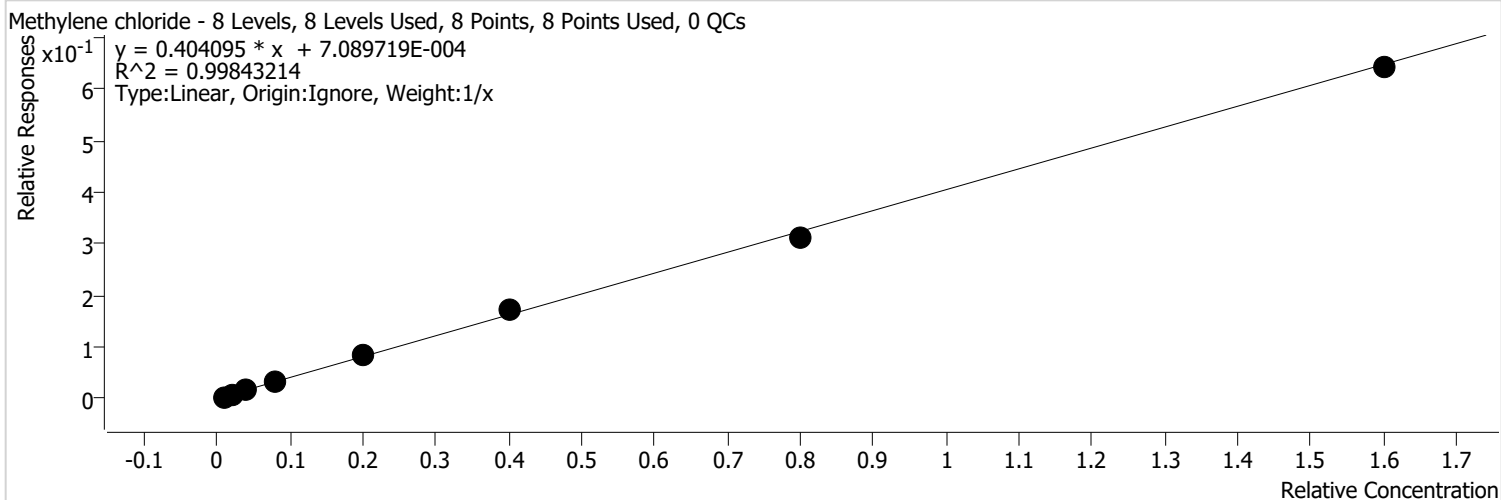


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1	x	3500	0.2000	0.2808	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	9953	0.5000	0.3216	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	22182	1.0000	0.3633	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	43129	2.0000	0.3468	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	112795	5.0000	0.3654	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	240356	10.0000	0.3873	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	425774	20.0000	0.3345	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	886353	40.0000	0.3399	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:12 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Methylene chloride %RSE = 8.4

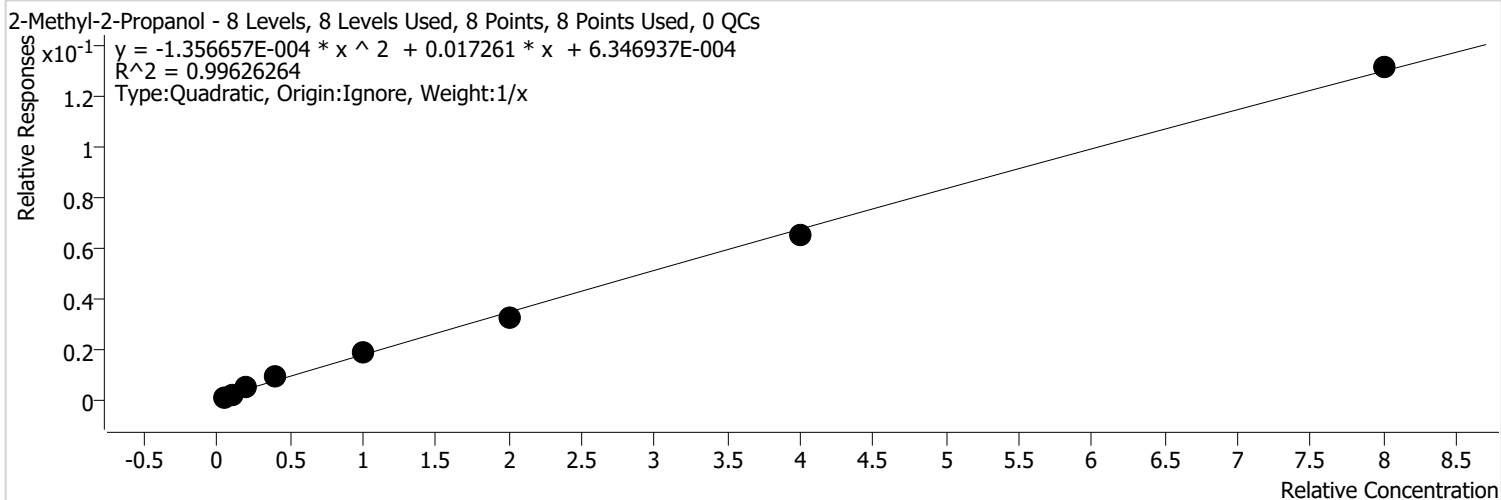


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1	x	5786	0.2000	0.4643	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	11849	0.5000	0.3828	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	27581	1.0000	0.4517	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	54213	2.0000	0.4359	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	132607	5.0000	0.4295	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	269264	10.0000	0.4339	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	498138	20.0000	0.3913	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	1044488	40.0000	0.4006	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:12 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

2-Methyl-2-Propanol %RSE = 19.4



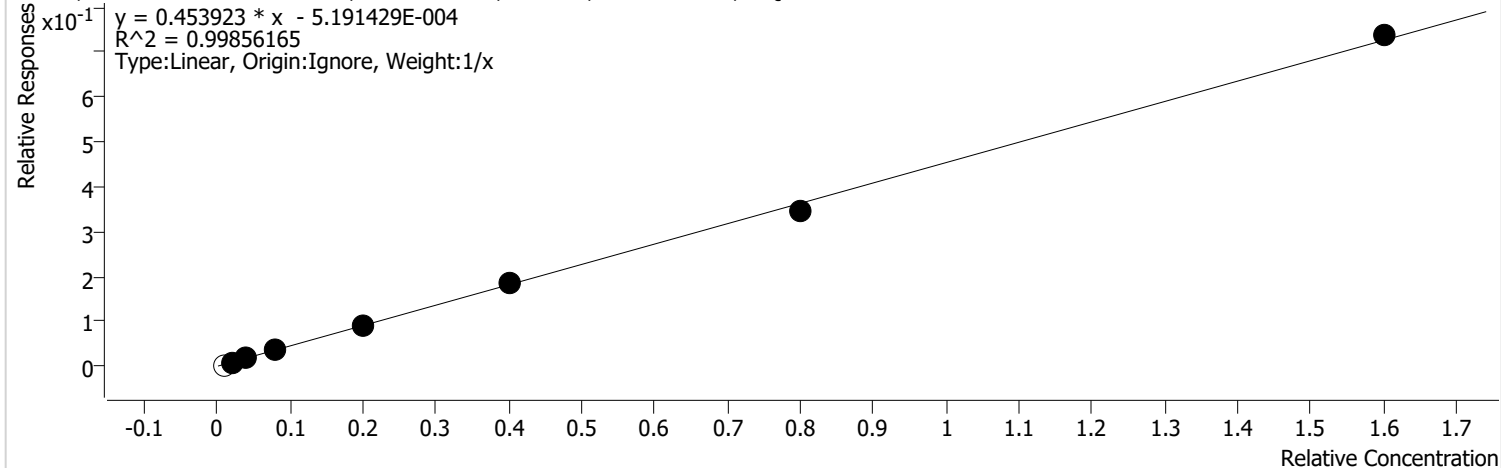
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1	x	1761	1.0000	0.0283	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	3416	2.5000	0.0221	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	6934	5.0000	0.0227	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	14652	10.0000	0.0236	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	28257	25.0000	0.0183	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	51010	50.0000	0.0164	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	103938	100.0000	0.0163	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	214121	200.0000	0.0164	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:12 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

trans-1,2-Dichloroethene %RSE = 6.9

trans-1,2-Dichloroethene - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 0 QCs



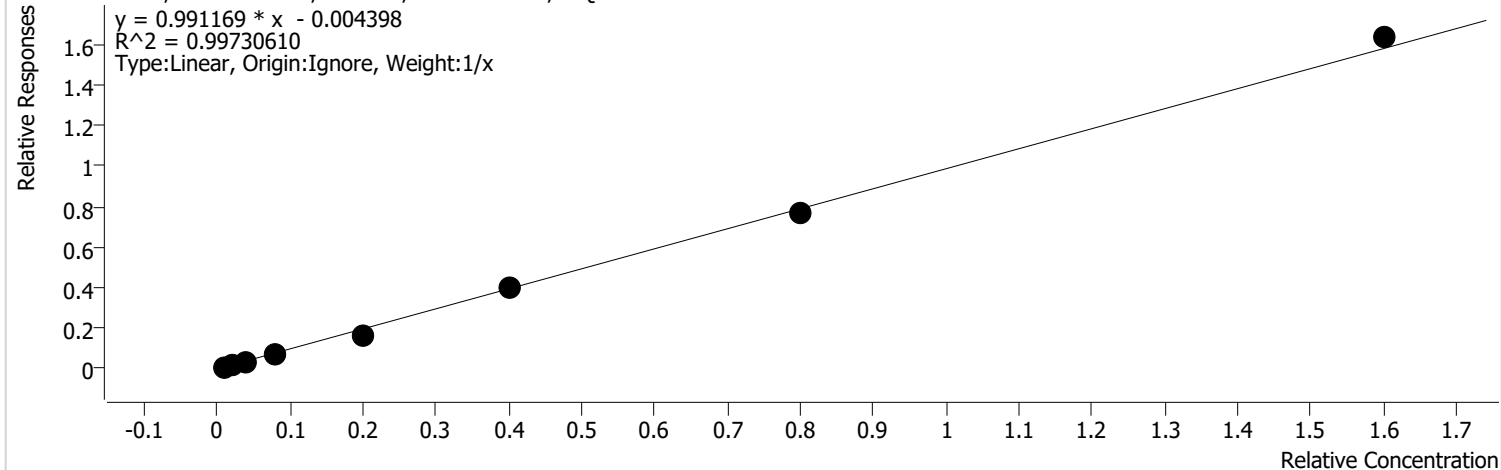
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1		4498	0.2000	0.3610	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	11639	0.5000	0.3760	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	28678	1.0000	0.4697	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	58137	2.0000	0.4675	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	140680	5.0000	0.4557	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	291365	10.0000	0.4695	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	545870	20.0000	0.4288	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	1199390	40.0000	0.4600	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:12 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

MTBE %RSE = 15.6

MTBE - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



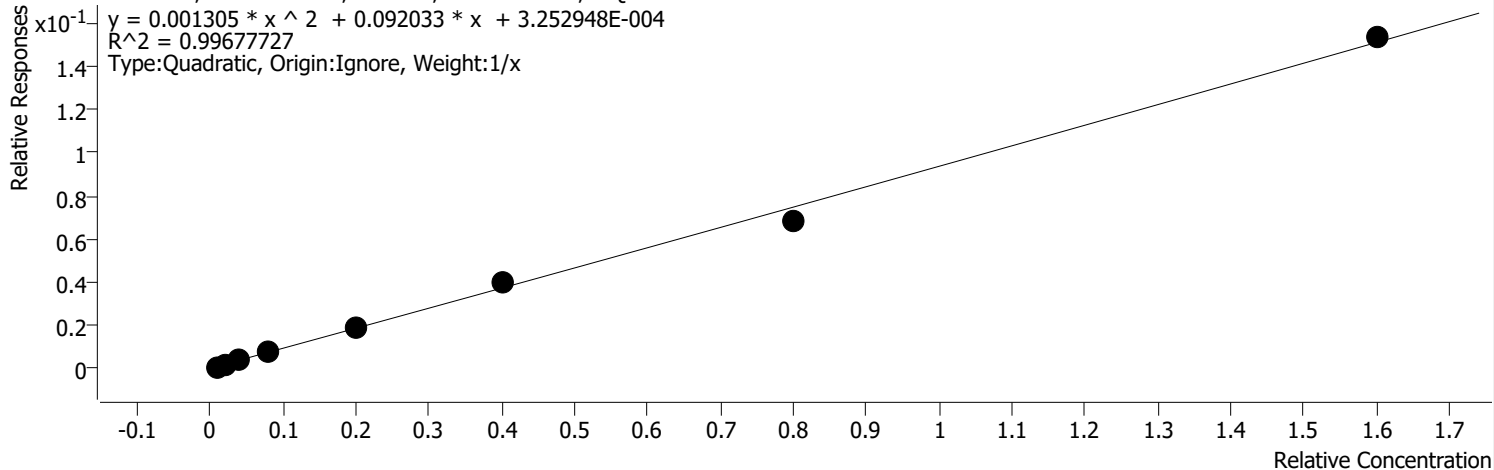
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1	x	9599	0.2000	0.7703	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	21283	0.5000	0.6876	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	49369	1.0000	0.8086	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	111432	2.0000	0.8960	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	256007	5.0000	0.8292	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	608033	10.0000	0.9798	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	1222293	20.0000	0.9601	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	2664727	40.0000	1.0220	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:12 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

n-Hexane %RSE = 10.9

n-Hexane - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs
 $y = 0.001305 * x^2 + 0.092033 * x + 3.252948E-004$
 $R^2 = 0.99677727$
 Type: Quadratic, Origin: Ignore, Weight: 1/x

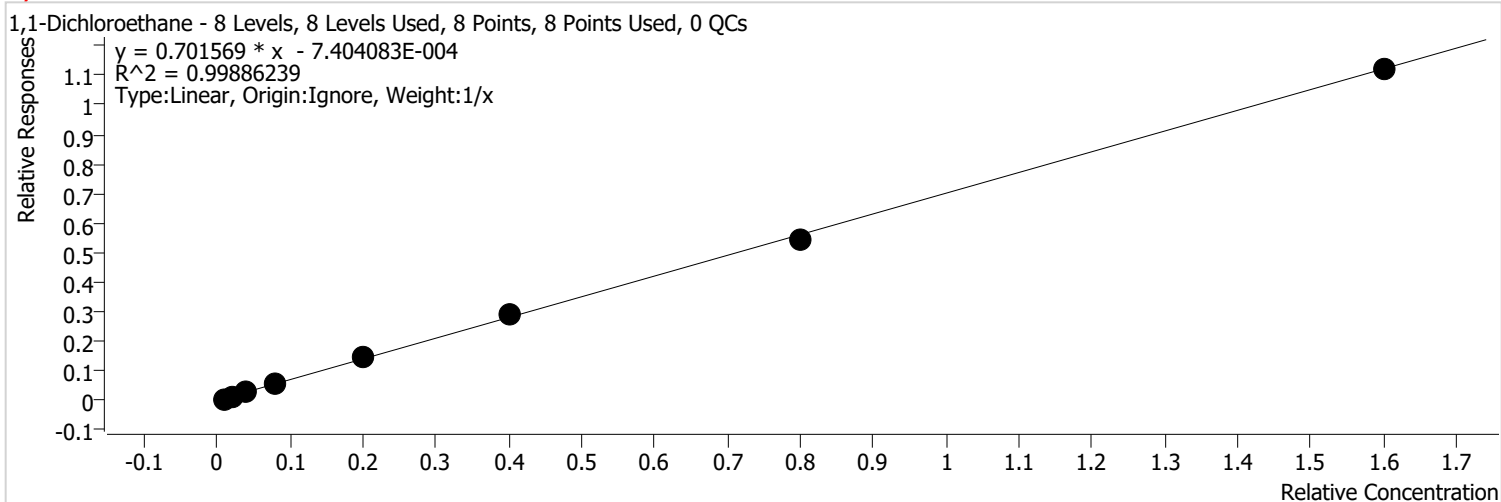


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1	x	1503	0.2000	0.1206	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	3112	0.5000	0.1005	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	6856	1.0000	0.1123	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	12739	2.0000	0.1024	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	29030	5.0000	0.0940	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	62604	10.0000	0.1009	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	109562	20.0000	0.0861	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	249485	40.0000	0.0957	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:12 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,1-Dichloroethane %RSE = 8.2



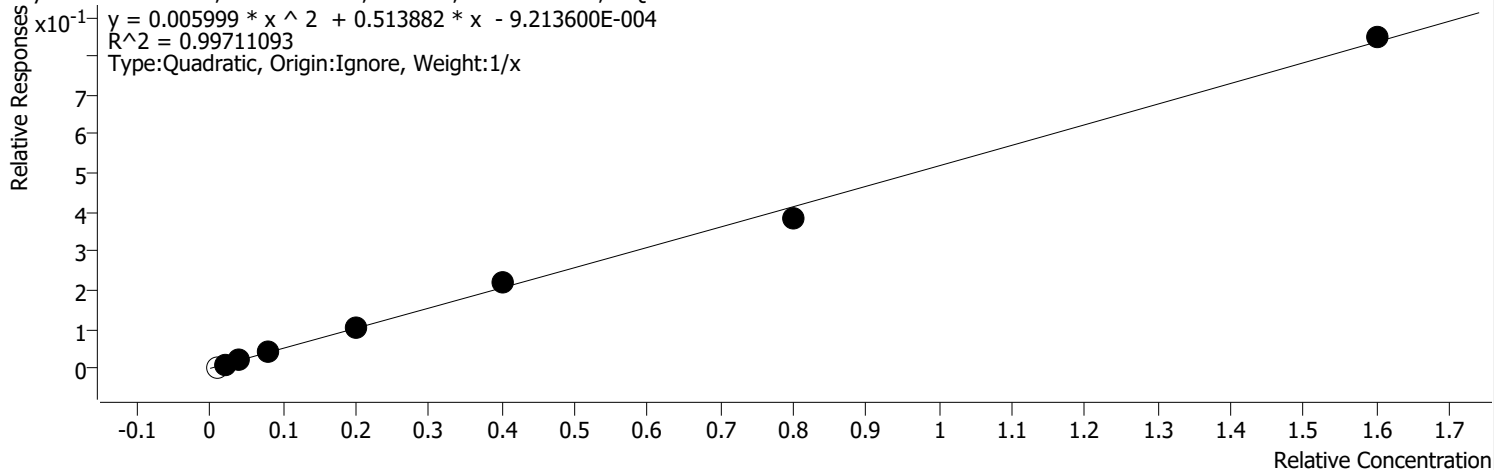
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1	x	7116	0.2000	0.5710	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	17465	0.5000	0.5642	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	45271	1.0000	0.7415	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	92427	2.0000	0.7432	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	221414	5.0000	0.7172	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	456309	10.0000	0.7353	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	861408	20.0000	0.6767	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	1823139	40.0000	0.6992	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:12 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Acrylonitrile %RSE = 9.5

Acrylonitrile - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 0 QCs

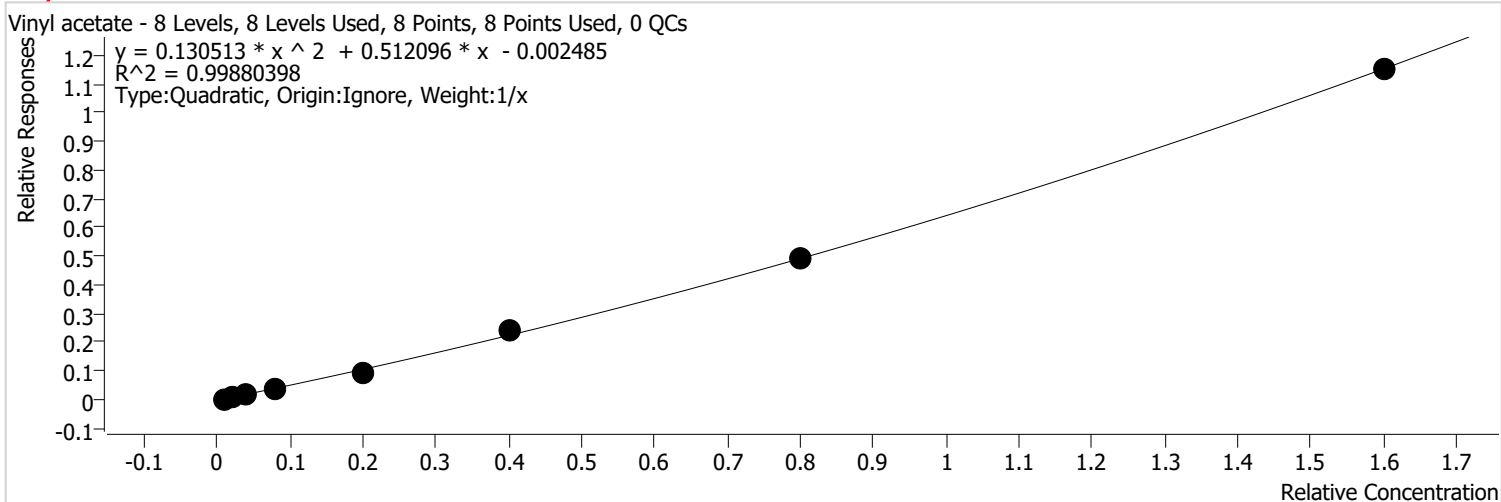


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1		5008	0.2000	0.4019	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	12308	0.5000	0.3976	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	32172	1.0000	0.5269	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	63954	2.0000	0.5142	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	162325	5.0000	0.5258	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	343317	10.0000	0.5532	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	610054	20.0000	0.4792	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	1381250	40.0000	0.5298	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:12 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Vinyl acetate %RSE = 14.6



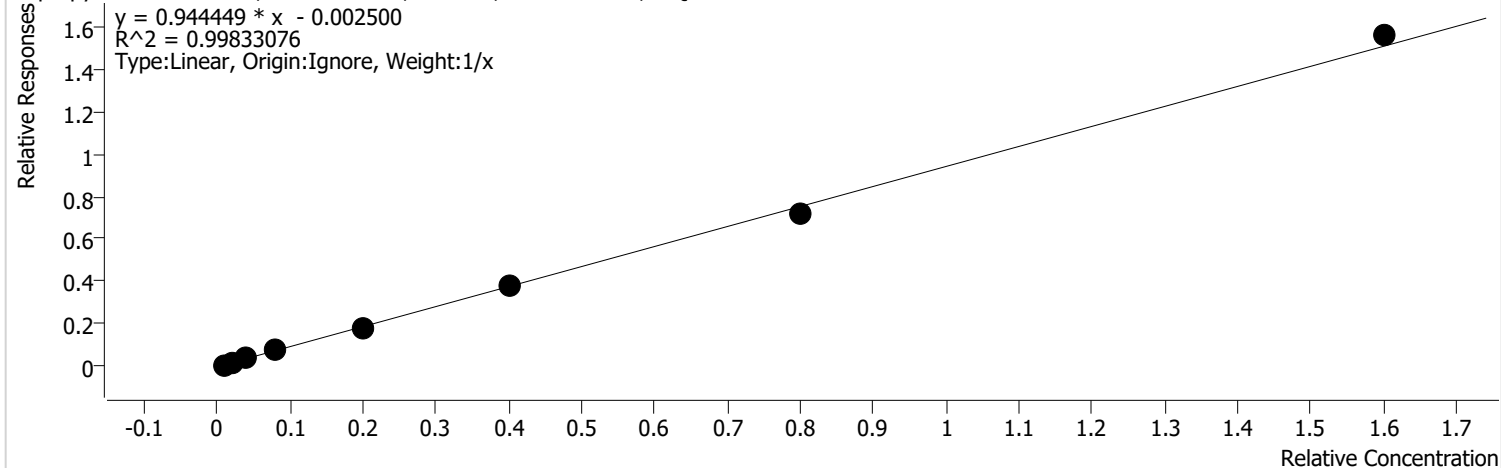
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1	x	4249	0.2000	0.3409	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	10314	0.5000	0.3332	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	25246	1.0000	0.4135	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	57363	2.0000	0.4613	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	147206	5.0000	0.4768	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	371807	10.0000	0.5991	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	781548	20.0000	0.6139	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	1870882	40.0000	0.7175	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:12 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Isopropyl ether %RSE = 8.2

Isopropyl ether - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



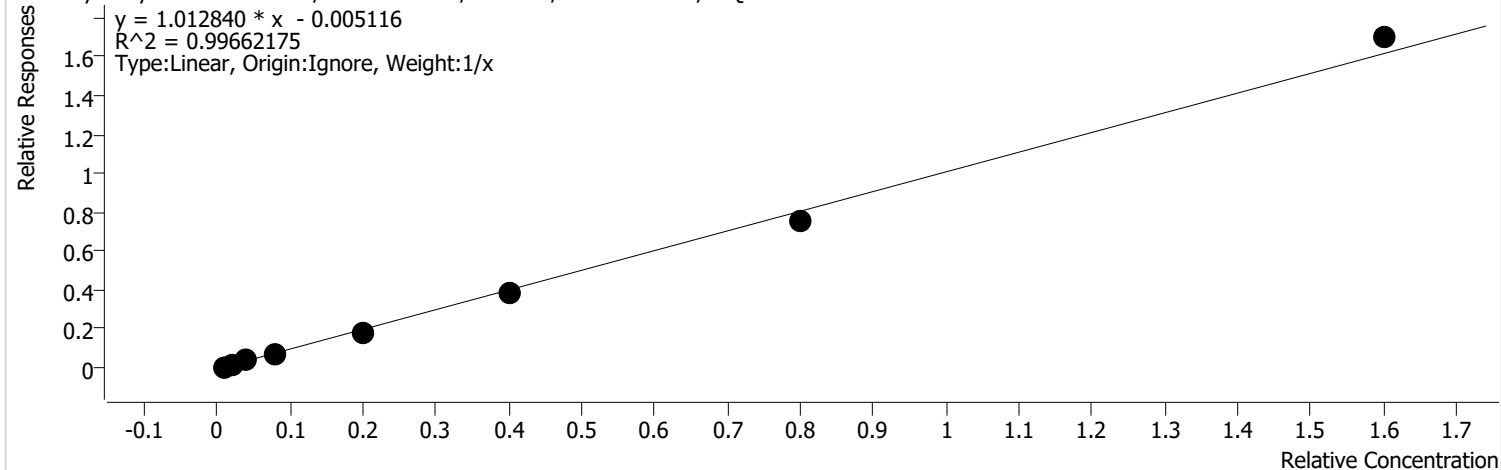
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1	x	9788	0.2000	0.7854	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	23121	0.5000	0.7470	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	54024	1.0000	0.8848	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	113384	2.0000	0.9117	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	267340	5.0000	0.8659	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	579940	10.0000	0.9345	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	1142575	20.0000	0.8975	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	2539833	40.0000	0.9741	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:12 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

tert-Butyl Ethyl Ether %RSE = 11.9

tert-Butyl Ethyl Ether - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

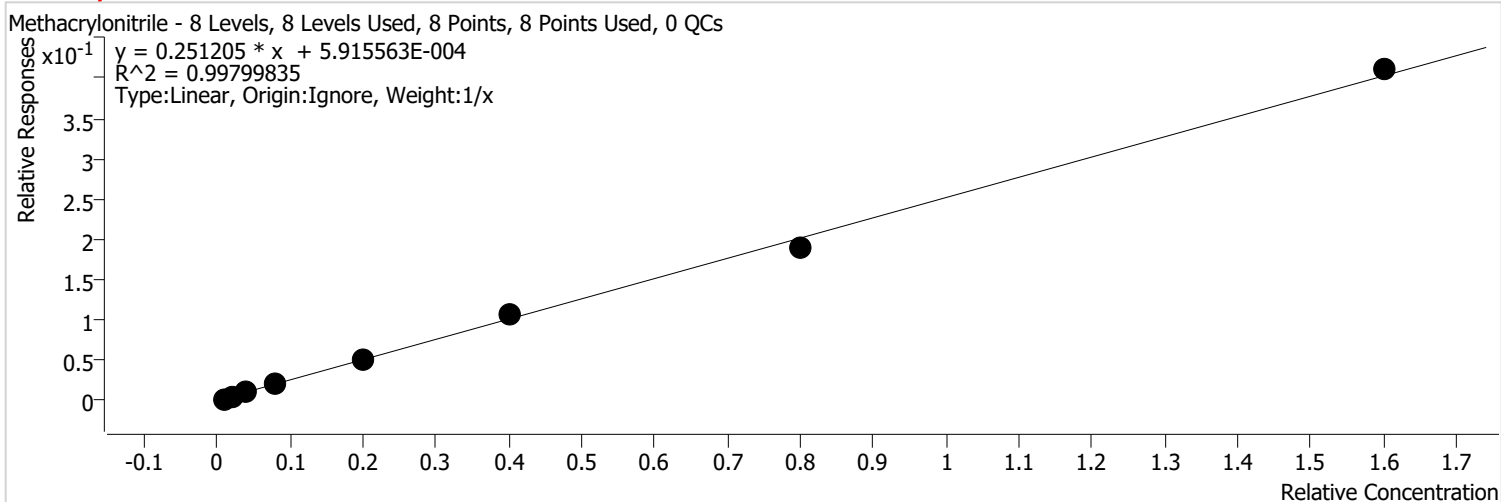


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1	x	7837	0.2000	0.6289	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	21525	0.5000	0.6954	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	53181	1.0000	0.8710	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	111804	2.0000	0.8990	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	276468	5.0000	0.8955	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	602261	10.0000	0.9705	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	1204630	20.0000	0.9463	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	2766207	40.0000	1.0609	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:12 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Methacrylonitrile %RSE = 8.1



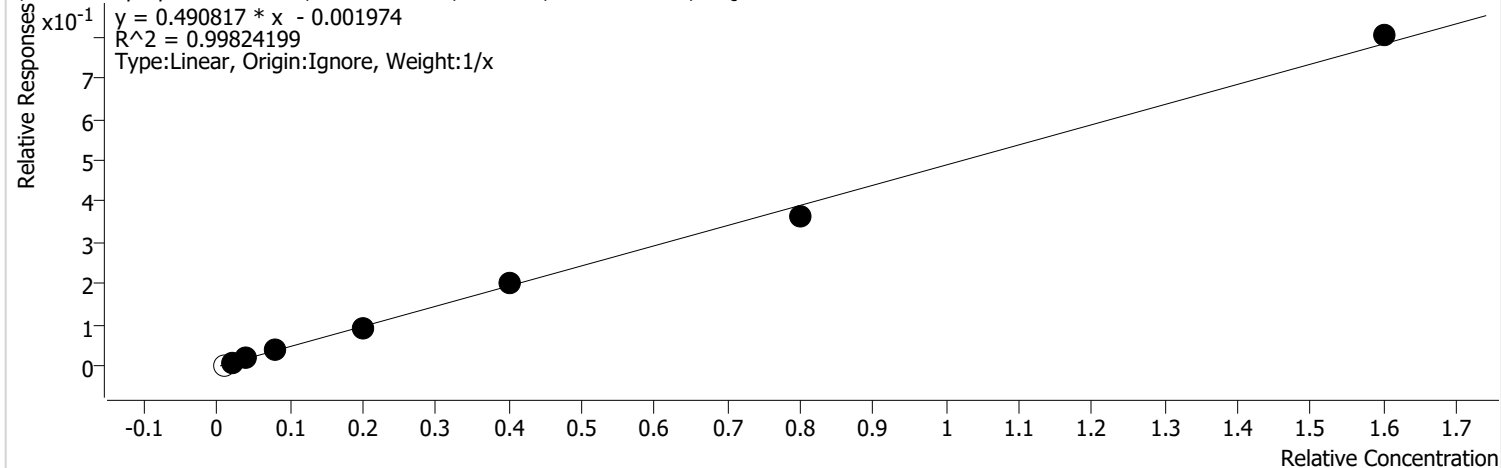
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1	x	3620	0.2000	0.2905	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	8978	0.5000	0.2900	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	17866	1.0000	0.2926	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	32155	2.0000	0.2586	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	77858	5.0000	0.2522	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	164620	10.0000	0.2653	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	299567	20.0000	0.2353	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	668484	40.0000	0.2564	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:12 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

2,2-Dichloropropane %RSE = 4.3

2,2-Dichloropropane - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 0 QCs



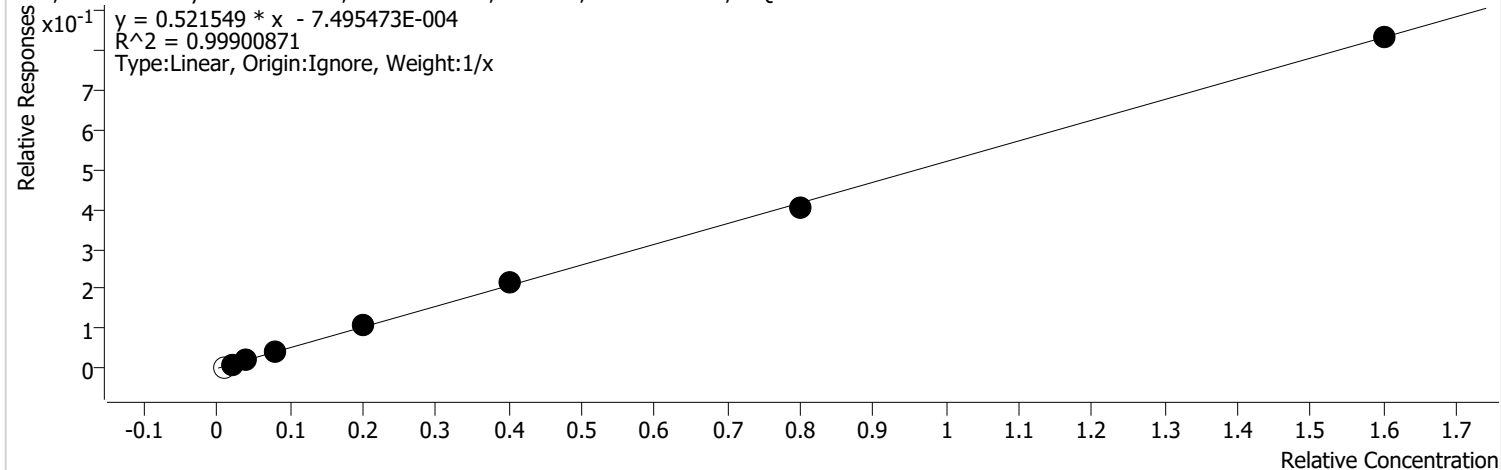
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1		4370	0.2000	0.3506	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	11690	0.5000	0.3777	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	28519	1.0000	0.4671	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	58400	2.0000	0.4696	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	145405	5.0000	0.4710	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	309746	10.0000	0.4991	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	582857	20.0000	0.4579	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	1309243	40.0000	0.5021	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:12 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

cis-1,2-Dichloroethylene %RSE = 7.9

cis-1,2-Dichloroethylene - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 0 QCs



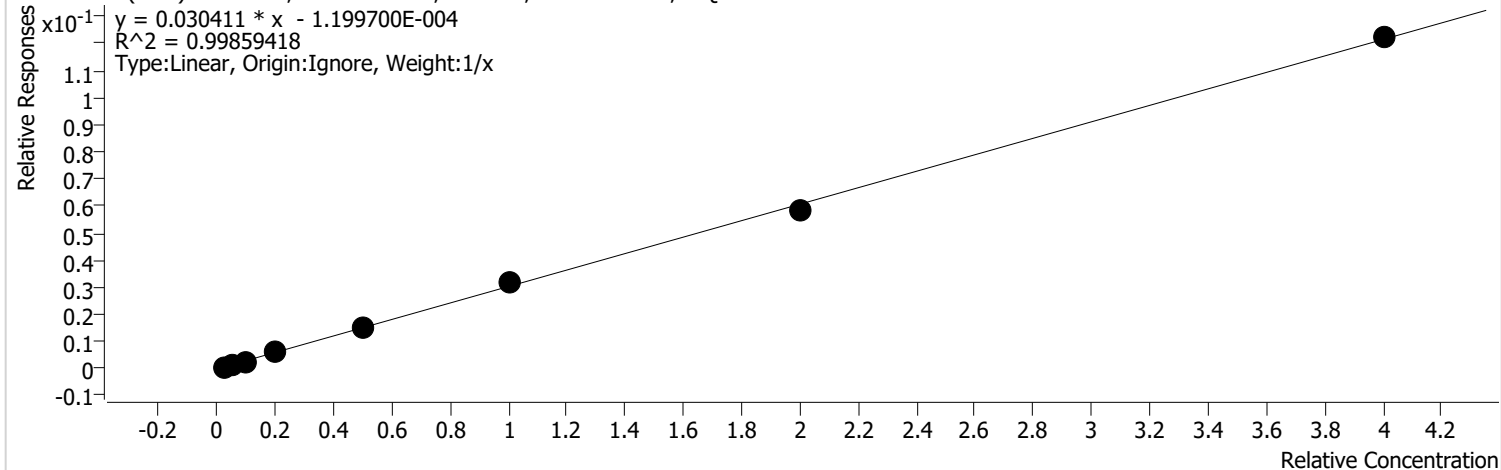
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1		5267	0.2000	0.4226	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	12643	0.5000	0.4085	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	32139	1.0000	0.5264	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	68006	2.0000	0.5468	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	162859	5.0000	0.5275	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	337793	10.0000	0.5443	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	641824	20.0000	0.5042	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	1357262	40.0000	0.5206	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin	Analyst Name	FA\GC19
Analysis Time	9/11/2023 9:40 AM	Reporter Name	FA\GC19
Report Time	9/11/2023 9:58:12 AM	Batch State	Processed
Last Calib Update	9/11/2023 7:57 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

2-Butanone (MEK) %RSE = 14.1

2-Butanone (MEK) - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



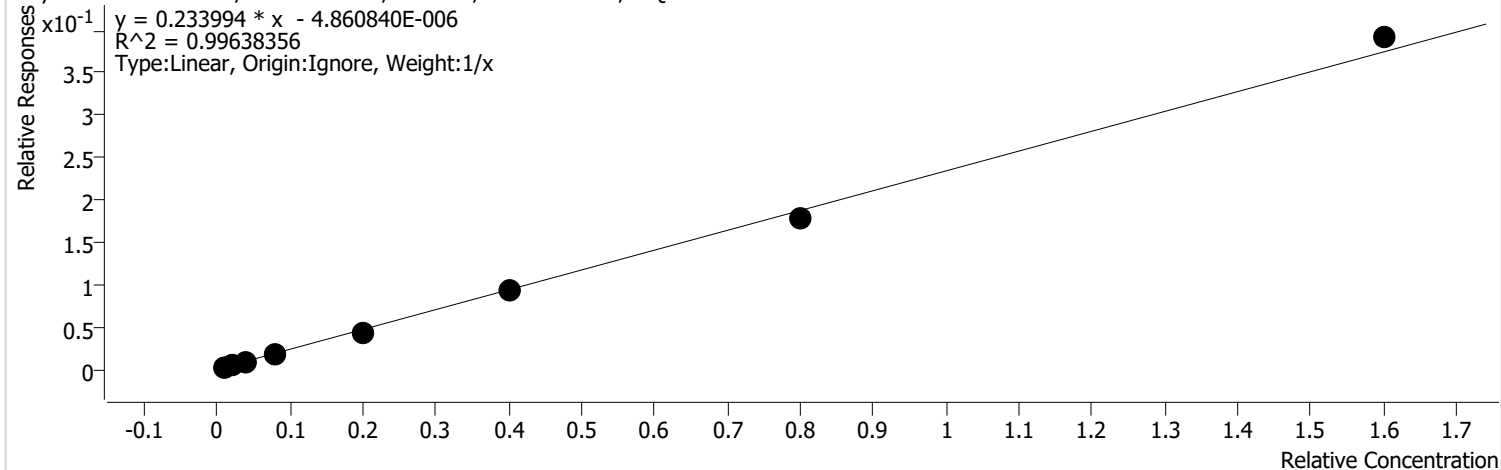
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1	x	980	0.5000	0.0315	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	1607	1.2500	0.0208	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	4207	2.5000	0.0276	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	9384	5.0000	0.0302	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	24005	12.5000	0.0311	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	49354	25.0000	0.0318	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	92998	50.0000	0.0292	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	198988	100.0000	0.0305	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:12 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Ethyl acetate %RSE = 22.1

Ethyl acetate - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

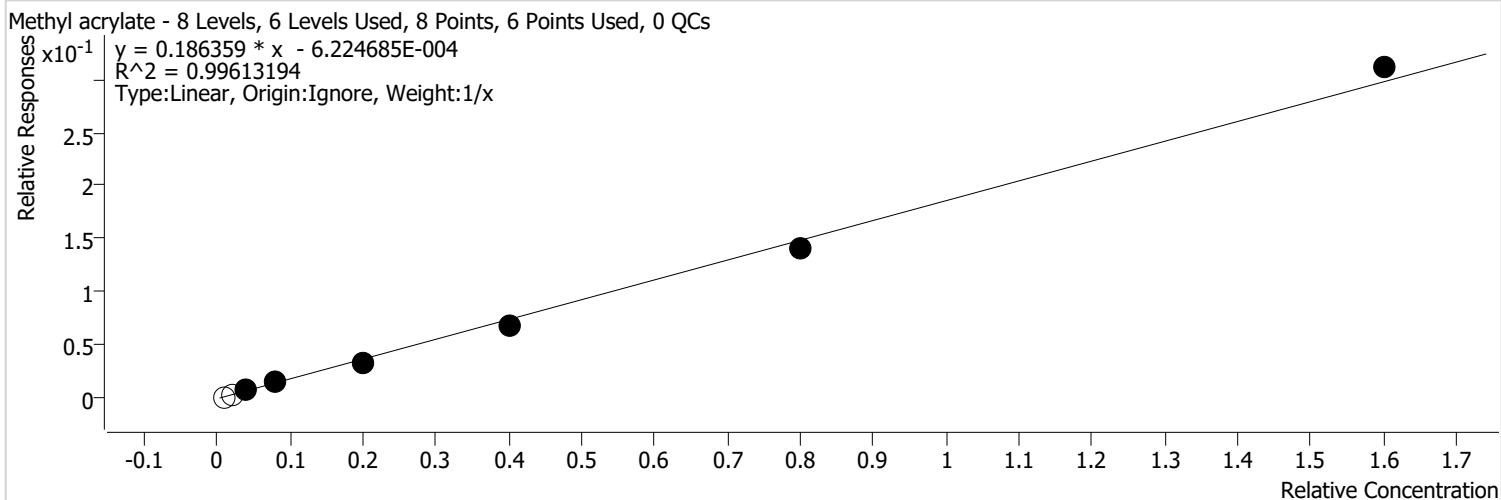


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1	x	4198	0.2000	0.3368	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	5156	0.5000	0.1666	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	14469	1.0000	0.2370	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	27169	2.0000	0.2185	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	66631	5.0000	0.2158	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	142905	10.0000	0.2303	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	281913	20.0000	0.2215	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	637427	40.0000	0.2445	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:12 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Methyl acrylate %RSE = 8.6



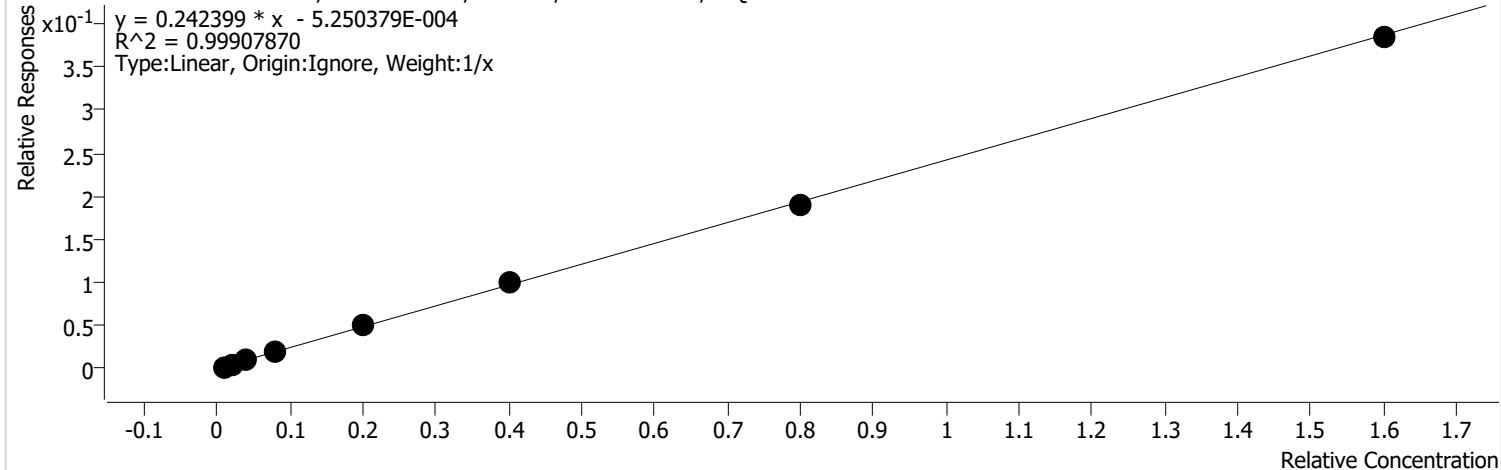
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1		1851	0.2000	0.1486	
D:\GC-19\Data\090723\090735.D	Calibration	2		4813	0.5000	0.1555	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	11185	1.0000	0.1832	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	24352	2.0000	0.1958	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	51232	5.0000	0.1659	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	107235	10.0000	0.1728	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	225275	20.0000	0.1770	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	506538	40.0000	0.1943	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:12 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Bromochloromethane %RSE = 7.0

Bromochloromethane - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



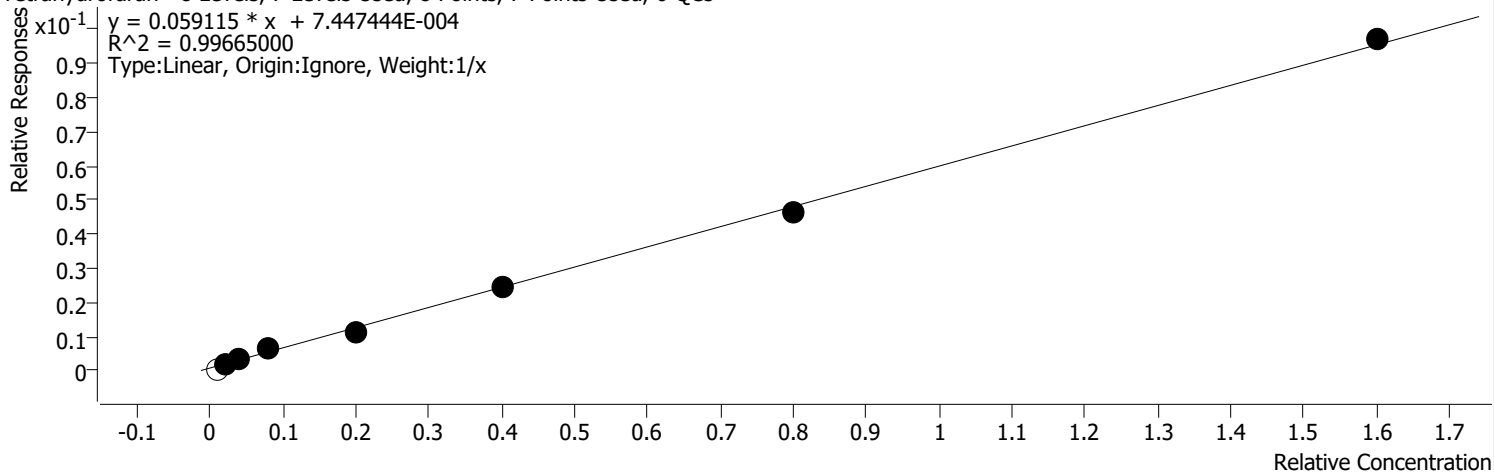
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1	x	2093	0.2000	0.1680	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	5697	0.5000	0.1841	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	14695	1.0000	0.2407	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	31201	2.0000	0.2509	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	77204	5.0000	0.2501	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	156979	10.0000	0.2530	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	300381	20.0000	0.2360	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	626071	40.0000	0.2401	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:12 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Tetrahydrofuran %RSE = 13.5

Tetrahydrofuran - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 0 QCs



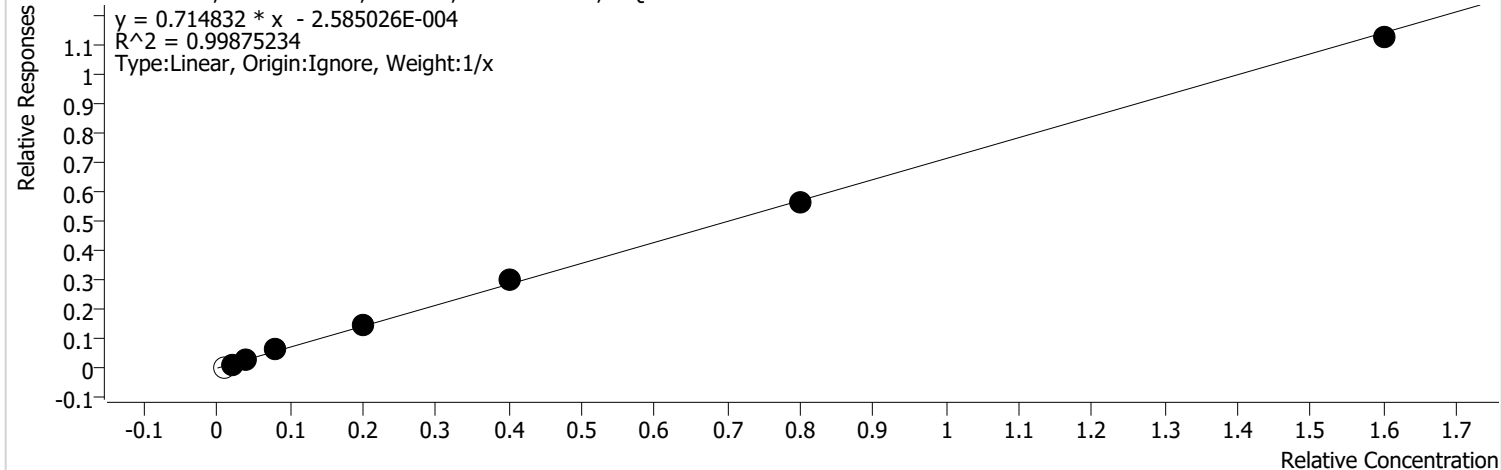
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1		801	0.2000	0.0643	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	2728	0.5000	0.0881	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	4749	1.0000	0.0778	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	10301	2.0000	0.0828	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	17525	5.0000	0.0568	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	38500	10.0000	0.0620	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	73697	20.0000	0.0579	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	157831	40.0000	0.0605	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:12 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

chloroform %RSE = 9.0

chloroform - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 0 QCs

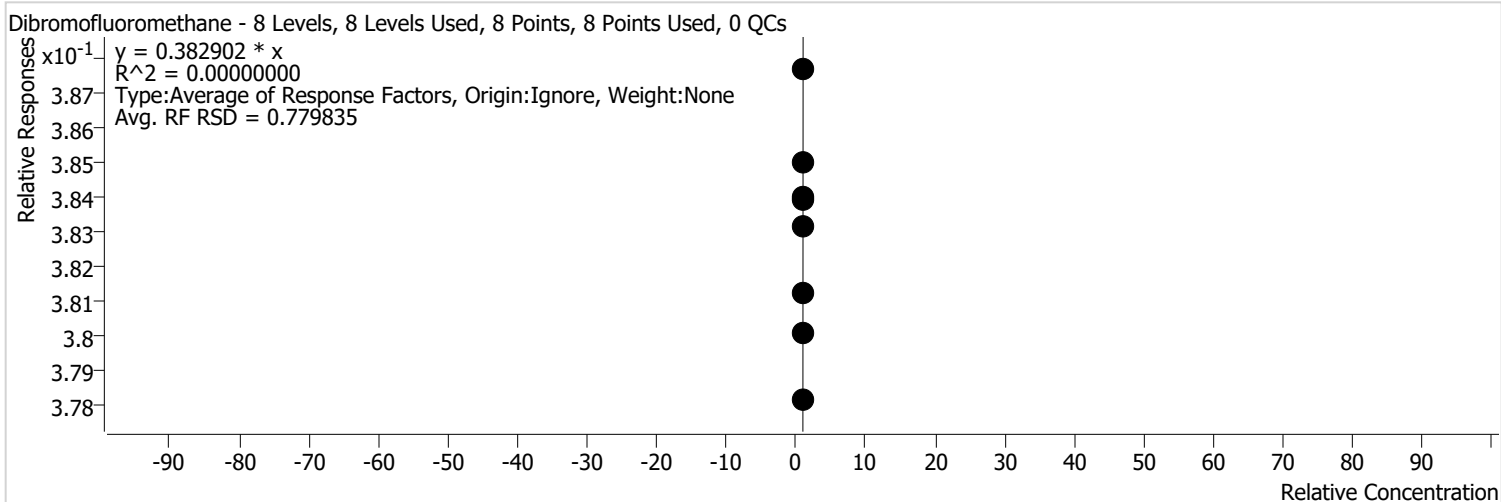


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1		6827	0.2000	0.5478	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	17941	0.5000	0.5796	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	44831	1.0000	0.7343	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	94498	2.0000	0.7599	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	227936	5.0000	0.7383	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	470685	10.0000	0.7585	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	896416	20.0000	0.7042	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	1835972	40.0000	0.7042	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin	Analyst Name	FA\GC19
Analysis Time	9/11/2023 9:40 AM	Reporter Name	FA\GC19
Report Time	9/11/2023 9:58:12 AM	Batch State	Processed
Last Calib Update	9/11/2023 7:57 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Dibromofluoromethane %RSE =



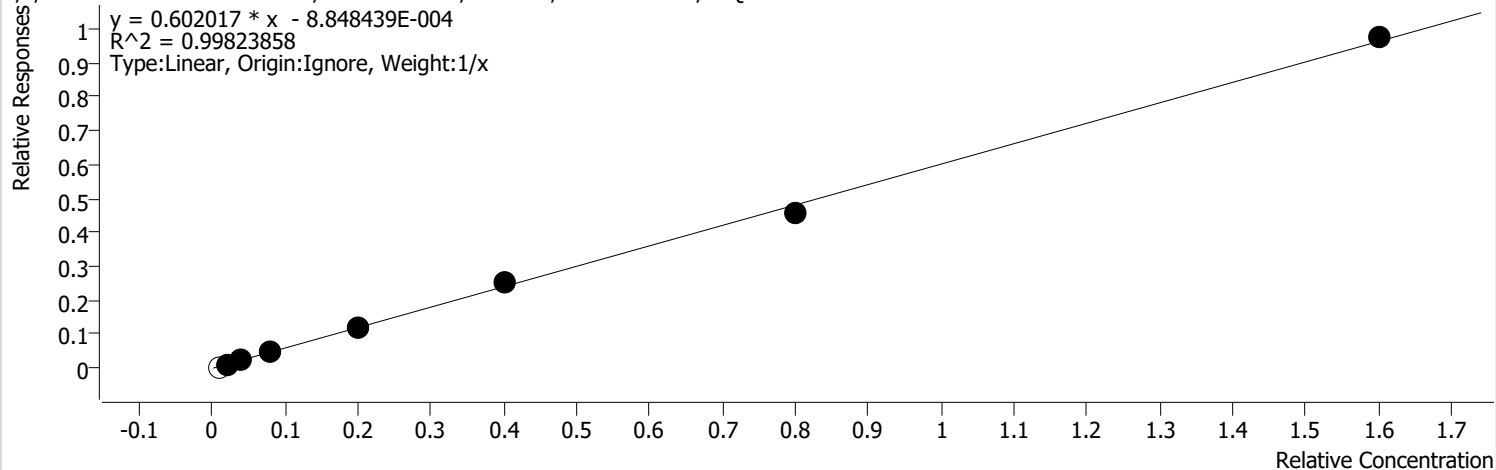
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090741.D	Calibration	8	x	616277	25.0000	0.3782	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	604851	25.0000	0.3801	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	597342	25.0000	0.3850	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	591429	25.0000	0.3831	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	592595	25.0000	0.3812	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	586184	25.0000	0.3840	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	594145	25.0000	0.3839	
D:\GC-19\Data\090723\090734.D	Calibration	1	x	603869	25.0000	0.3877	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:13 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,1,1-Trichloroethane %RSE = 7.2

1,1,1-Trichloroethane - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 0 QCs



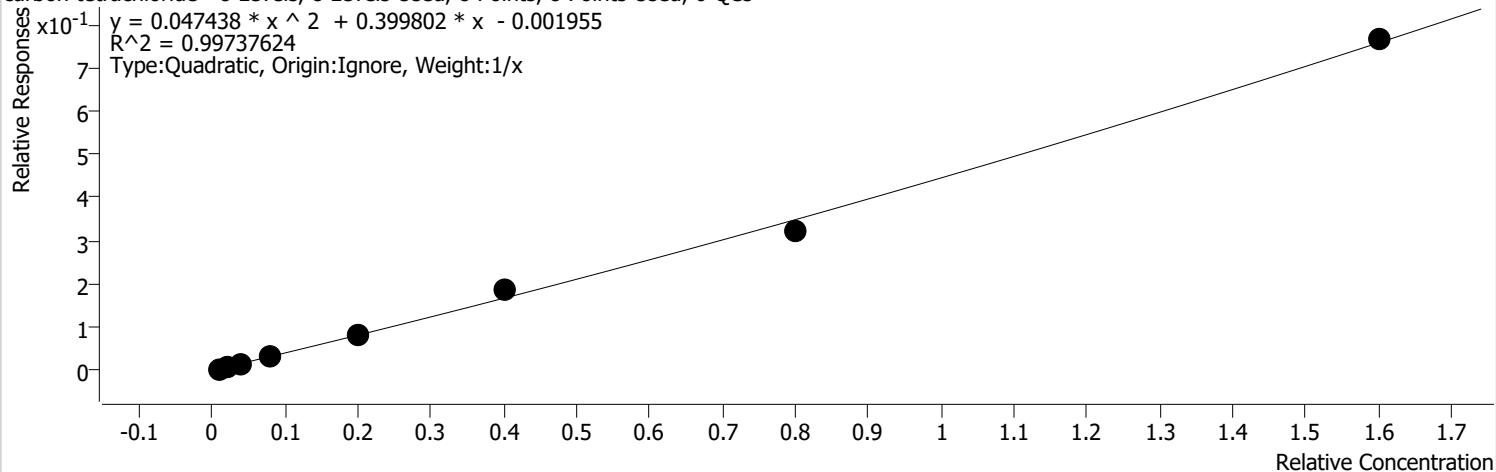
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1		6328	0.2000	0.5078	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	15052	0.5000	0.4863	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	37434	1.0000	0.6131	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	77289	2.0000	0.6215	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	184727	5.0000	0.5984	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	393367	10.0000	0.6339	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	721734	20.0000	0.5669	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	1586253	40.0000	0.6084	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:13 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

carbon tetrachloride %RSE = 11.3

carbon tetrachloride - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



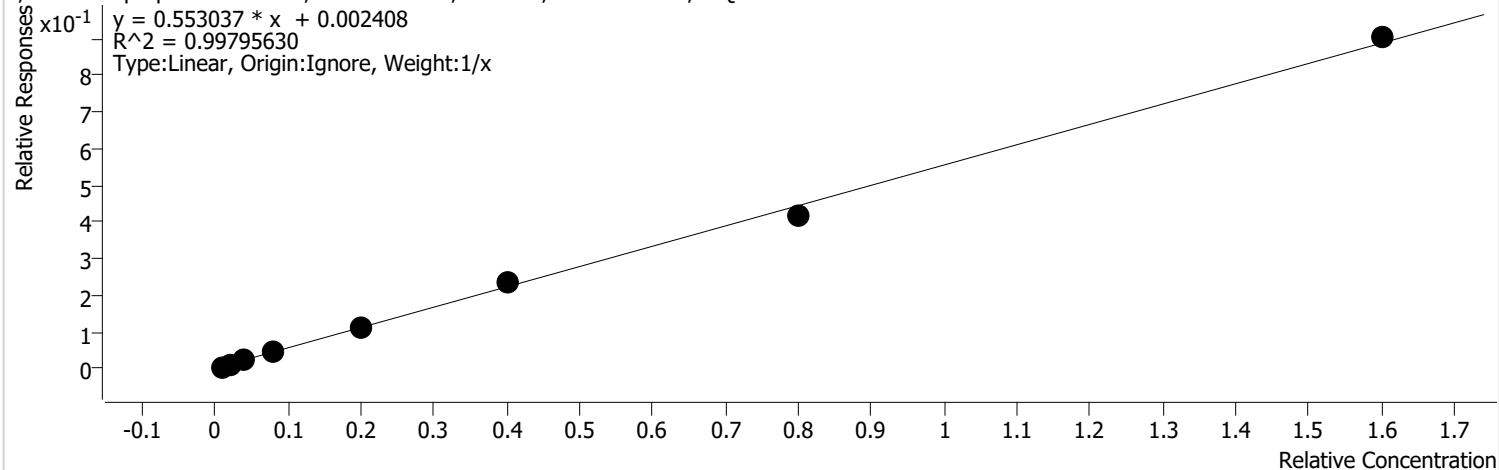
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1	x	2671	0.2000	0.2144	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	7284	0.5000	0.2353	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	21295	1.0000	0.3488	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	46304	2.0000	0.3723	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	123799	5.0000	0.4010	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	283428	10.0000	0.4567	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	517372	20.0000	0.4064	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	1249013	40.0000	0.4790	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:13 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,1-Dichloropropene %RSE = 10.5

1,1-Dichloropropene - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

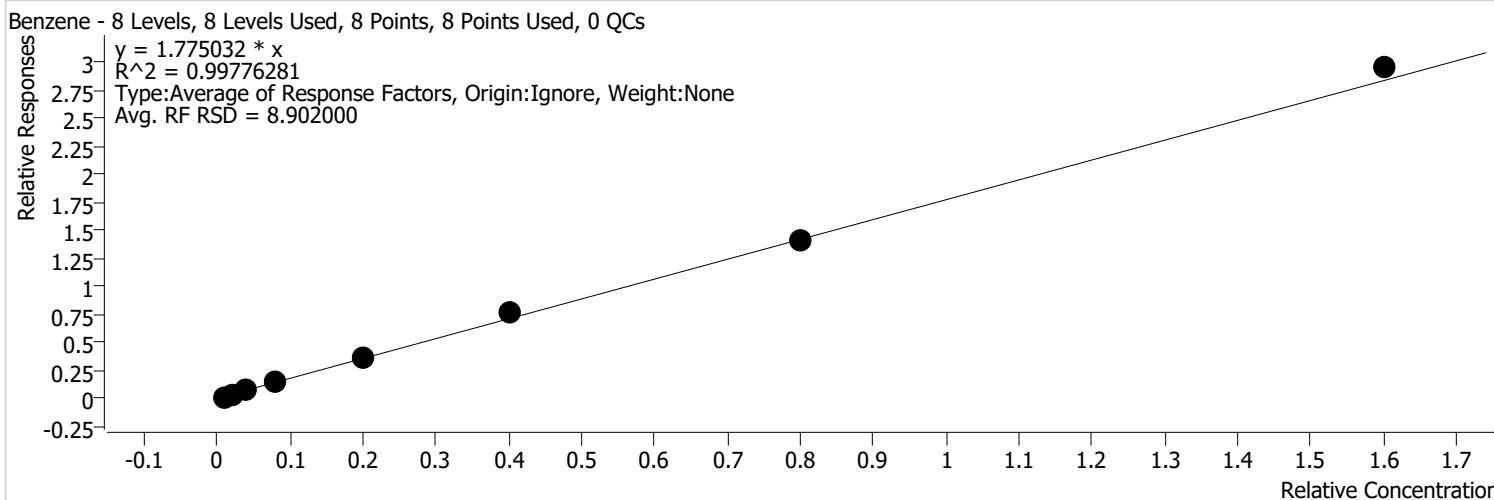


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1	x	9380	0.2000	0.7527	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	20574	0.5000	0.6647	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	42574	1.0000	0.6973	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	76647	2.0000	0.6163	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	173183	5.0000	0.5610	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	361213	10.0000	0.5821	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	663152	20.0000	0.5209	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	1469834	40.0000	0.5637	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:13 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Benzene %RSE = 8.9

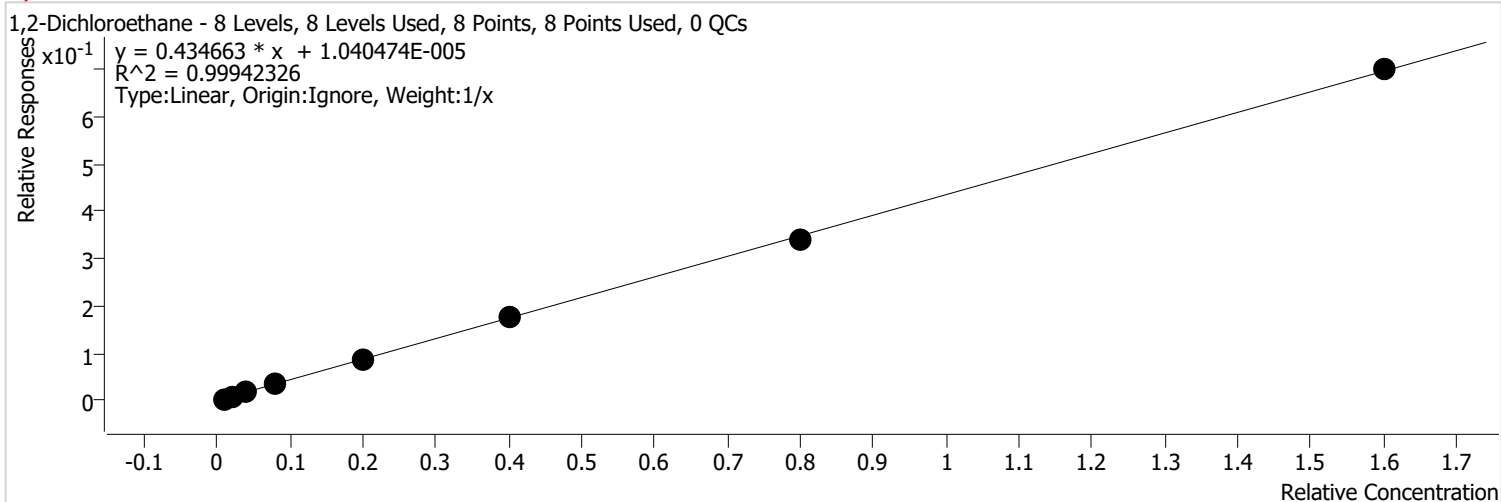


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1	x	19383	0.2000	1.5553	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	46714	0.5000	1.5092	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	115411	1.0000	1.8902	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	237446	2.0000	1.9093	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	566543	5.0000	1.8351	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	1178419	10.0000	1.8989	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	2234286	20.0000	1.7551	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	4816223	40.0000	1.8472	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:13 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,2-Dichloroethane %RSE = 7.5



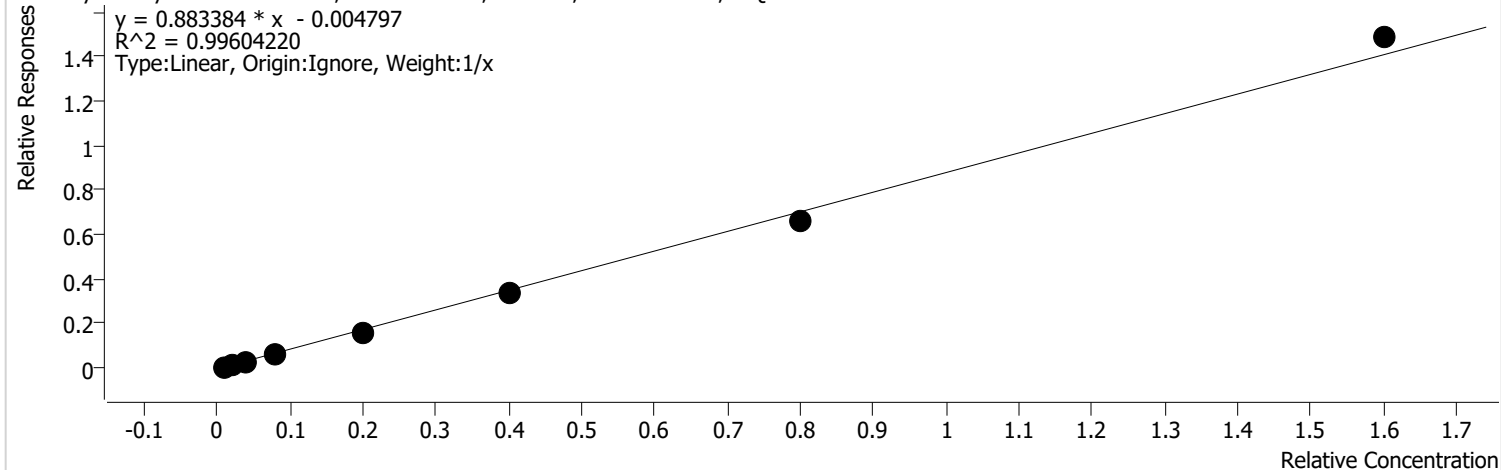
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1	x	5041	0.2000	0.4045	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	12164	0.5000	0.3930	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	29377	1.0000	0.4811	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	58730	2.0000	0.4722	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	132361	5.0000	0.4287	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	271167	10.0000	0.4370	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	542794	20.0000	0.4264	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	1138517	40.0000	0.4367	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:13 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

tert-Amyl Methyl Ether %RSE = 13.4

tert-Amyl Methyl Ether - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

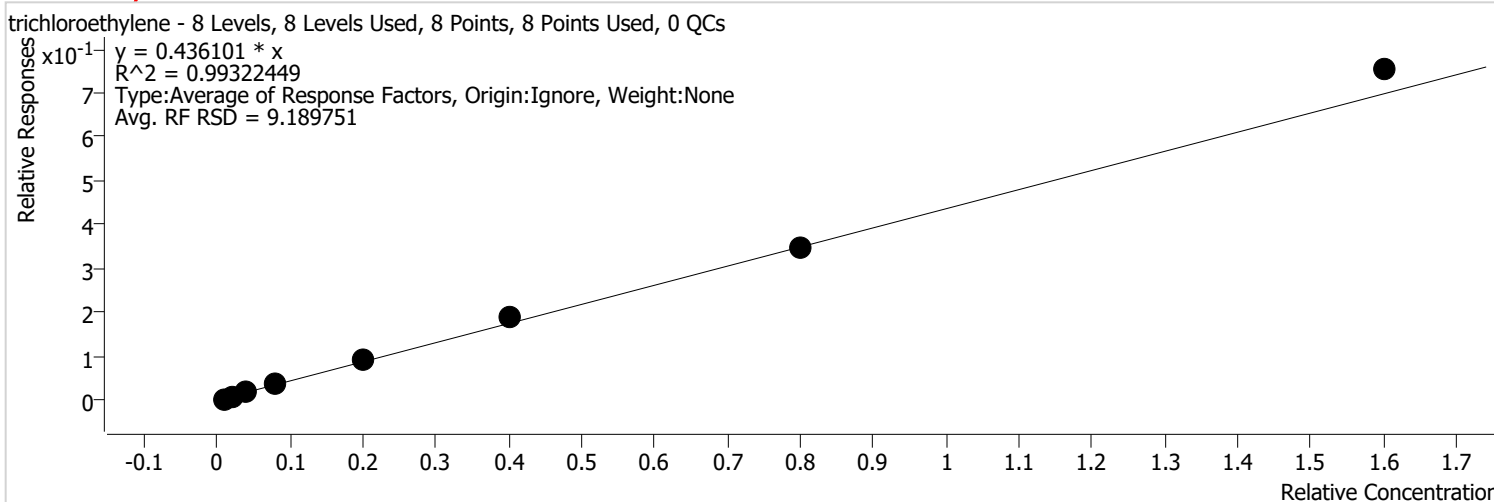


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1	x	6690	0.2000	0.5368	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	18730	0.5000	0.6051	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	44178	1.0000	0.7236	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	96643	2.0000	0.7771	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	235616	5.0000	0.7632	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	524087	10.0000	0.8445	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	1049079	20.0000	0.8241	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	2420448	40.0000	0.9283	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:13 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

trichloroethylene %RSE = 9.2

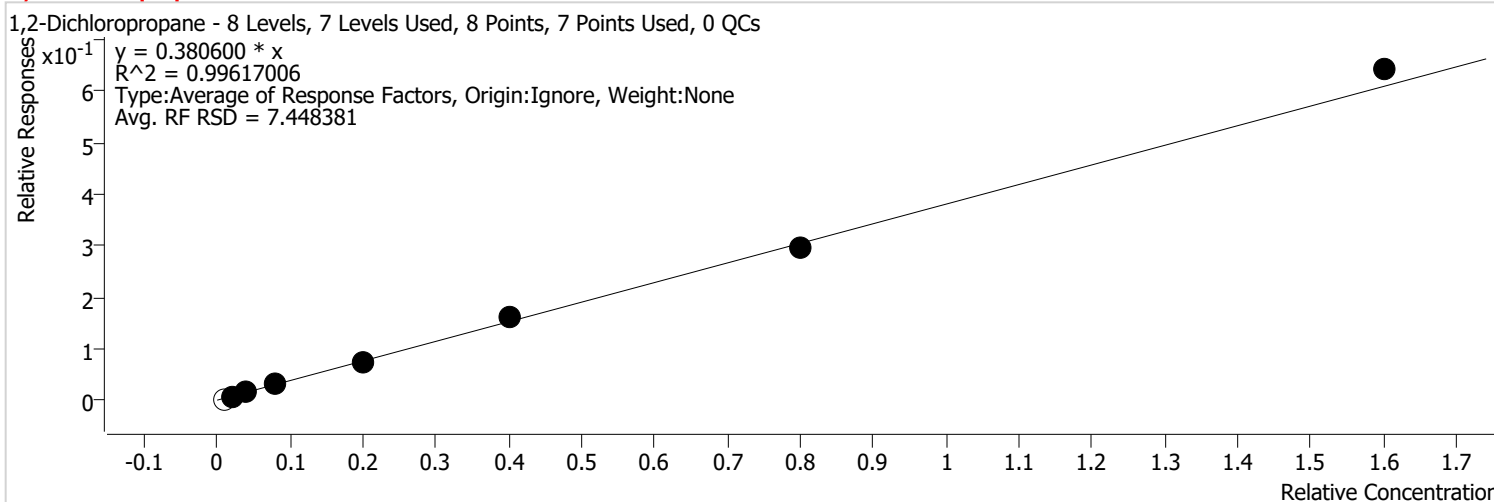


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1	x	4571	0.2000	0.3668	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	11769	0.5000	0.3802	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	27852	1.0000	0.4562	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	57179	2.0000	0.4598	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	139123	5.0000	0.4506	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	289818	10.0000	0.4670	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	557180	20.0000	0.4377	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	1226862	40.0000	0.4705	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin	Analyst Name	FA\GC19
Analysis Time	9/11/2023 9:40 AM	Reporter Name	FA\GC19
Report Time	9/11/2023 9:58:13 AM	Batch State	Processed
Last Calib Update	9/11/2023 7:57 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

1,2-Dichloropropane %RSE = 7.4



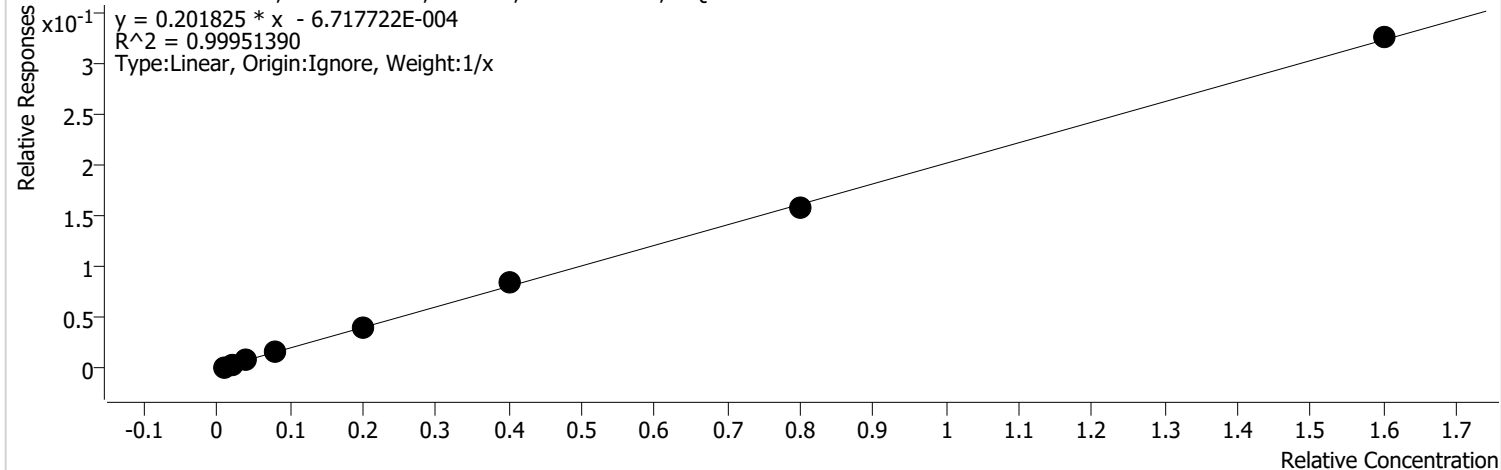
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1		4261	0.2000	0.3419	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	10006	0.5000	0.3233	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	23757	1.0000	0.3891	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	49771	2.0000	0.4002	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	116237	5.0000	0.3765	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	250655	10.0000	0.4039	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	471465	20.0000	0.3703	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	1045265	40.0000	0.4009	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:13 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Dibromomethane %RSE = 4.6

Dibromomethane - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

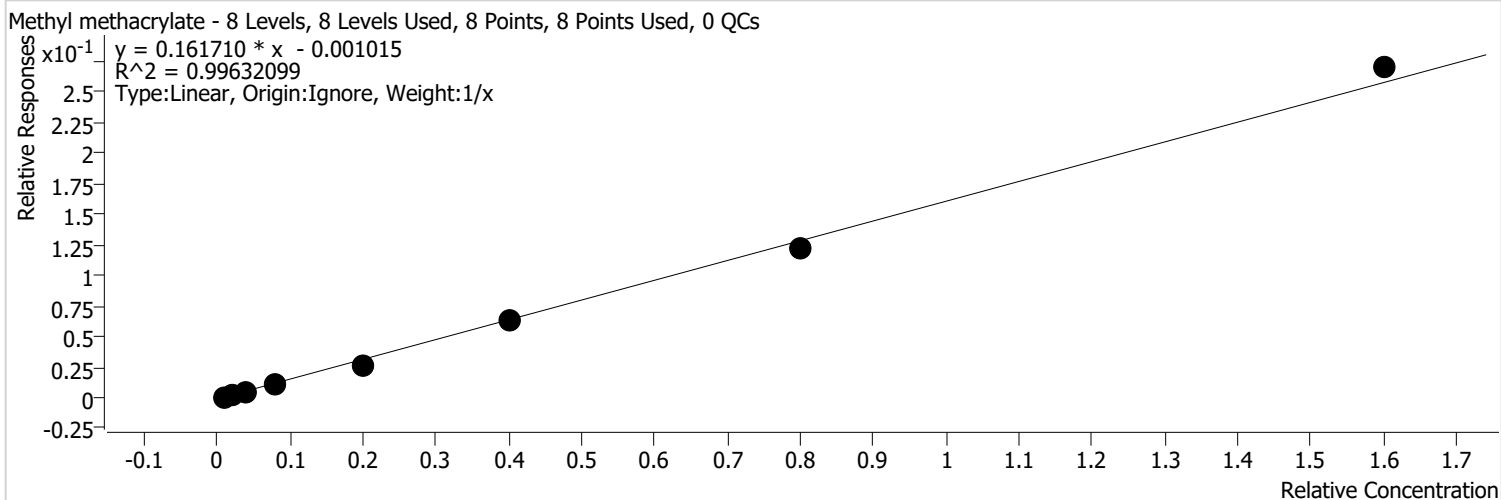


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1	x	1615	0.2000	0.1296	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	4696	0.5000	0.1517	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	11487	1.0000	0.1881	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	24441	2.0000	0.1965	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	59930	5.0000	0.1941	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	128473	10.0000	0.2070	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	249031	20.0000	0.1956	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	528842	40.0000	0.2028	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:13 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Methyl methacrylate %RSE = 15.1

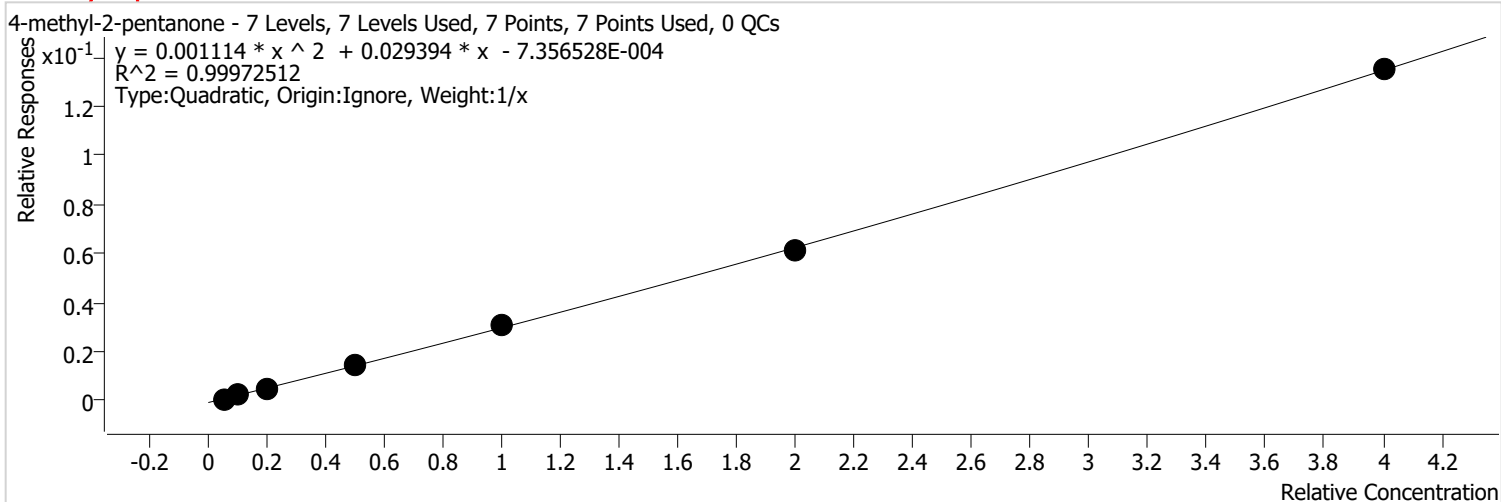


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1	x	1080	0.2000	0.0867	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	3181	0.5000	0.1028	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	7870	1.0000	0.1289	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	17255	2.0000	0.1387	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	41050	5.0000	0.1330	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	96580	10.0000	0.1556	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	196060	20.0000	0.1540	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	439799	40.0000	0.1687	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:13 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

4-methyl-2-pentanone %RSE = 3.7



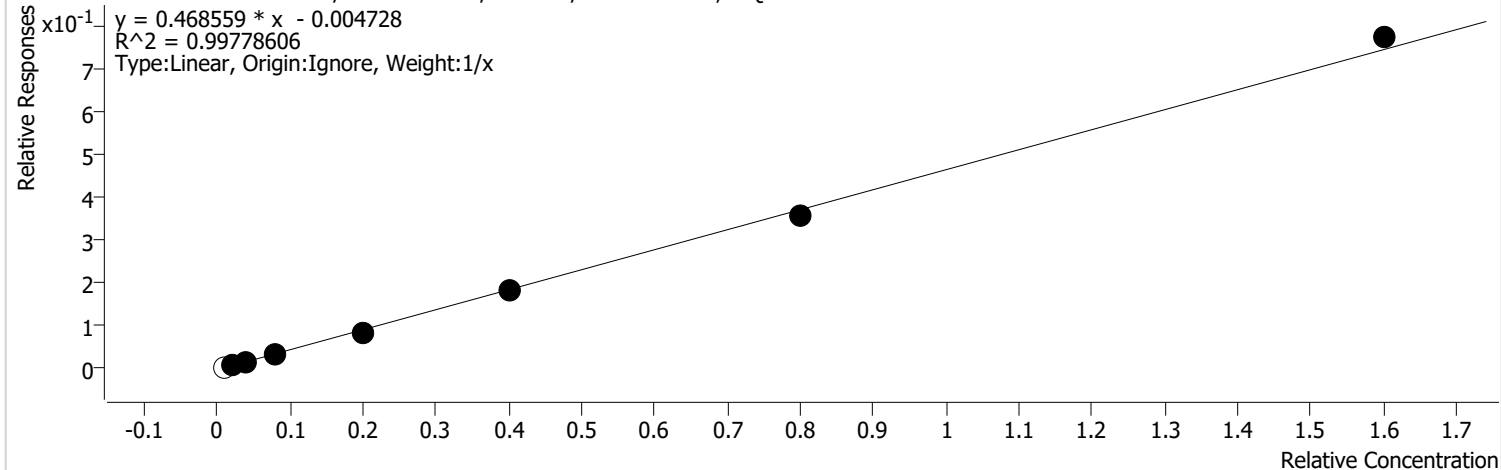
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090735.D	Calibration	2	x	1246	1.2500	0.0161	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	3204	2.5000	0.0210	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	7927	5.0000	0.0255	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	21666	12.5000	0.0281	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	47826	25.0000	0.0308	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	97927	50.0000	0.0308	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	219851	100.0000	0.0337	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:13 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

bromodichloromethane %RSE = 7.7

bromodichloromethane - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 0 QCs



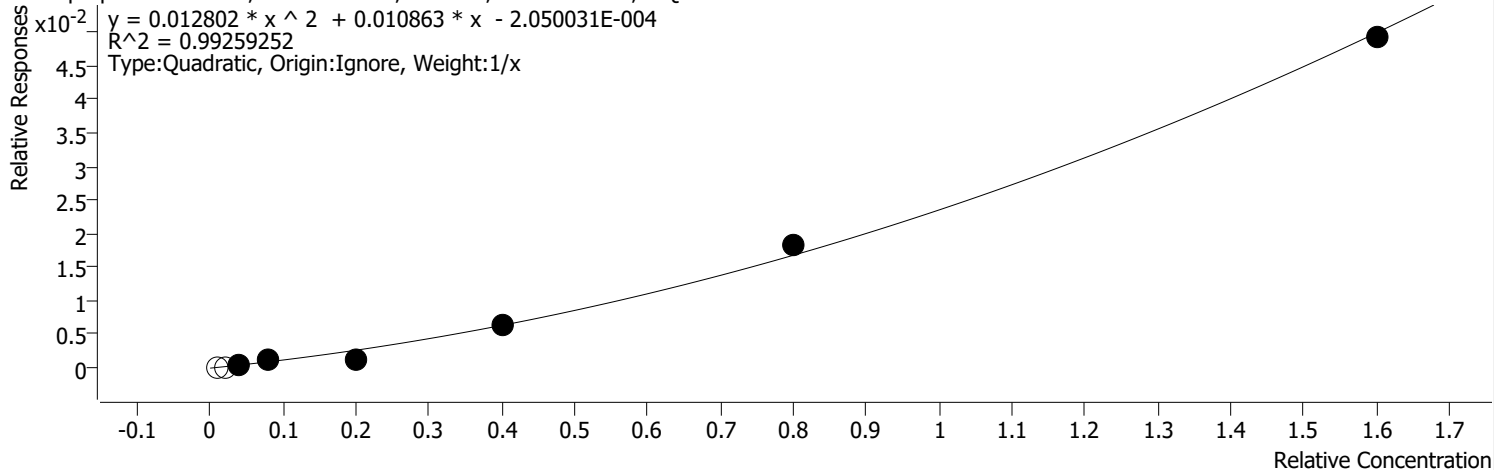
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1		3450	0.2000	0.2769	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	8940	0.5000	0.2888	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	22587	1.0000	0.3699	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	48006	2.0000	0.3860	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	125016	5.0000	0.4049	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	276859	10.0000	0.4461	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	563973	20.0000	0.4430	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	1259469	40.0000	0.4830	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:13 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

2-Nitropropane %RSE = 31.6

2-Nitropropane - 8 Levels, 6 Levels Used, 8 Points, 6 Points Used, 0 QCs



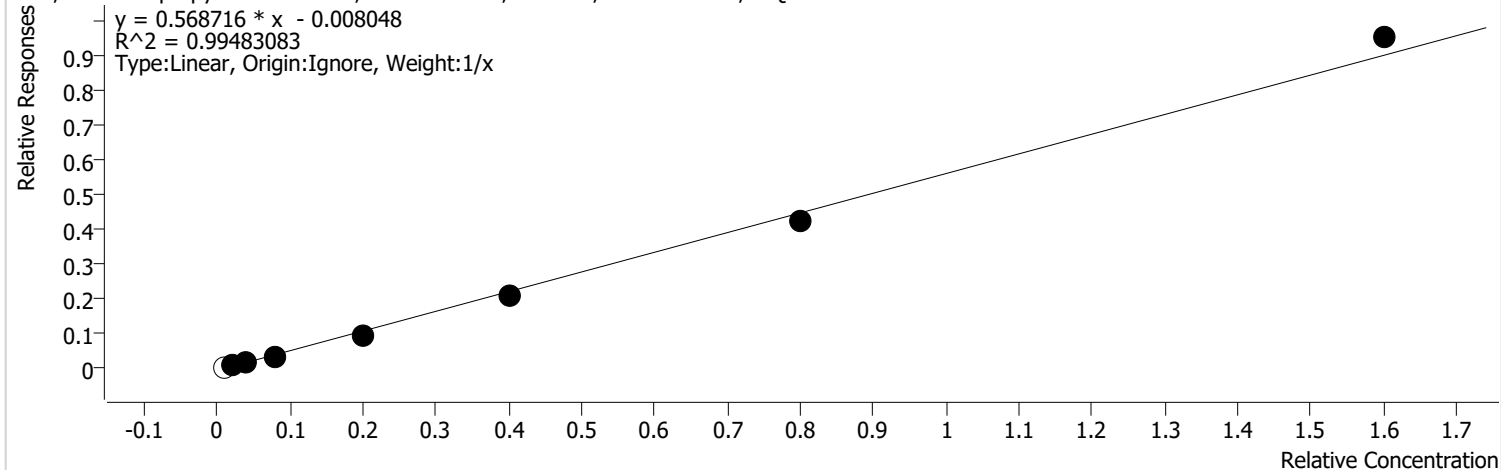
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1		0	0.2000	0.0000	
D:\GC-19\Data\090723\090735.D	Calibration	2		0	0.5000	0.0000	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	575	1.0000	0.0094	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	1363	2.0000	0.0110	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	1737	5.0000	0.0056	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	9775	10.0000	0.0158	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	29256	20.0000	0.0230	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	80223	40.0000	0.0308	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:13 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

cis-1,3-Dichloropropylene %RSE = 13.6

cis-1,3-Dichloropropylene - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 0 QCs

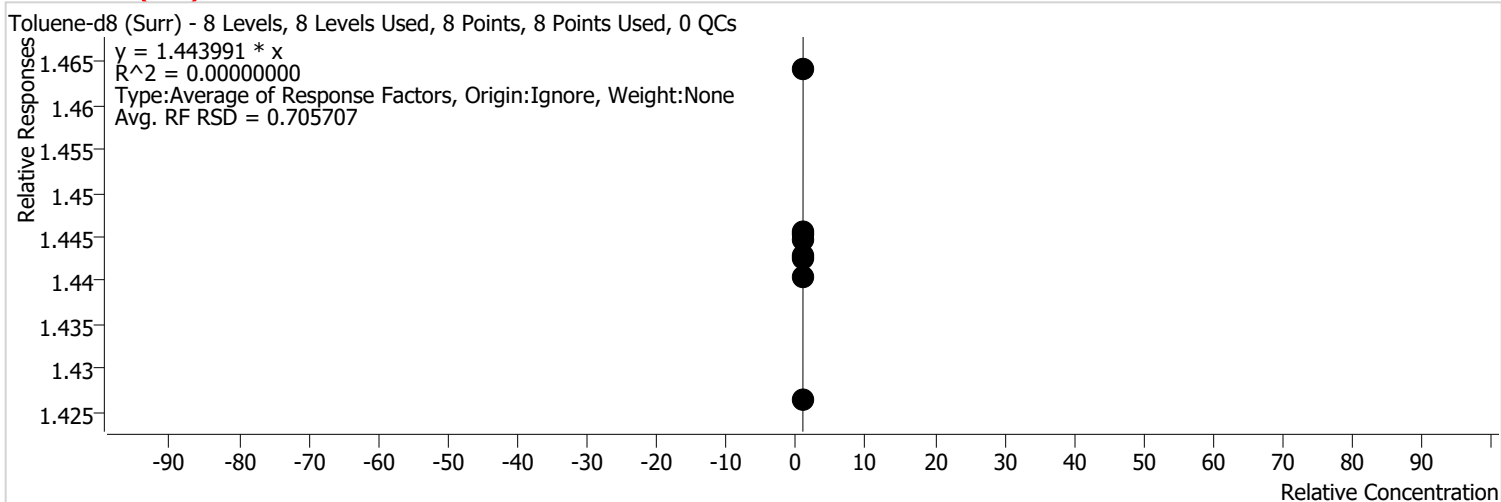


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1		3705	0.2000	0.2973	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	9327	0.5000	0.3013	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	23602	1.0000	0.3866	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	51659	2.0000	0.4154	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	139554	5.0000	0.4520	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	324262	10.0000	0.5225	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	672074	20.0000	0.5279	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	1552932	40.0000	0.5956	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin	Analyst Name	FA\GC19
Analysis Time	9/11/2023 9:40 AM	Reporter Name	FA\GC19
Report Time	9/11/2023 9:58:13 AM	Batch State	Processed
Last Calib Update	9/11/2023 7:57 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Toluene-d8 (Surr) %RSE =



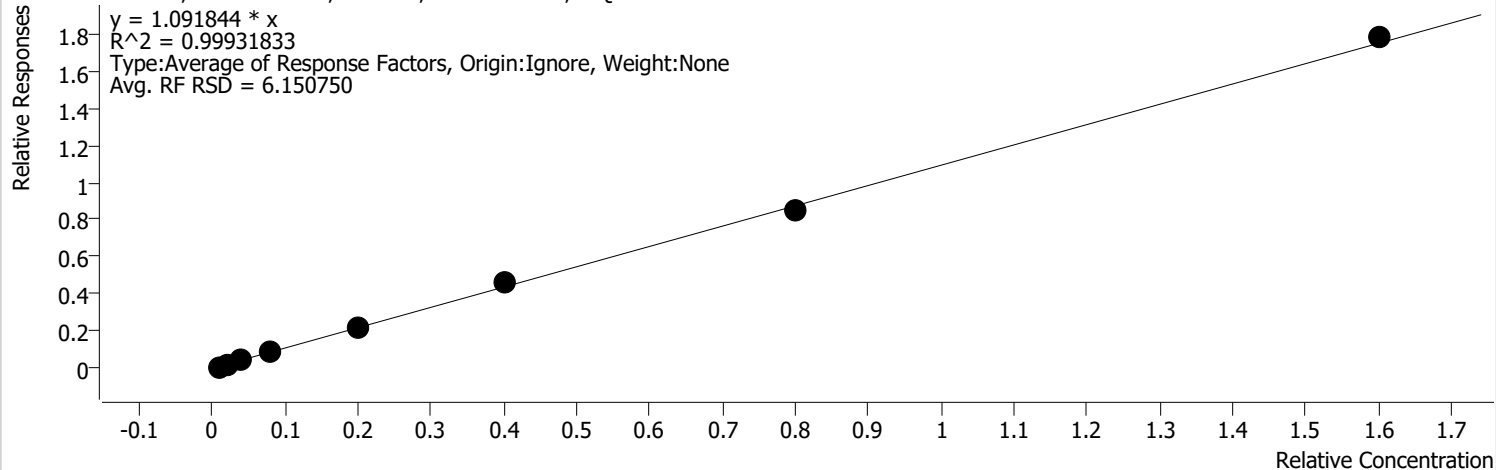
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090741.D	Calibration	8	x	2354032	25.0000	1.4445	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	2296139	25.0000	1.4429	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	2213240	25.0000	1.4266	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	2226959	25.0000	1.4427	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	2239104	25.0000	1.4404	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	2206677	25.0000	1.4456	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	2236609	25.0000	1.4452	
D:\GC-19\Data\090723\090734.D	Calibration	1	x	2280632	25.0000	1.4640	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:13 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Toluene %RSE = 6.2

Toluene - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



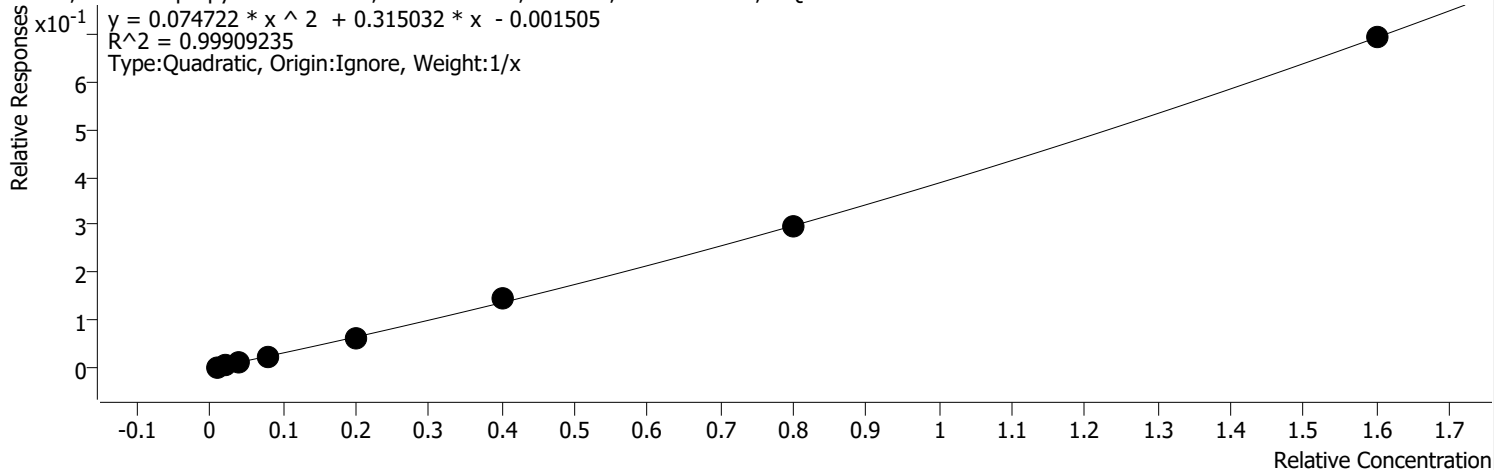
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1	x	12853	0.2000	1.0314	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	29942	0.5000	0.9673	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	69908	1.0000	1.1450	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	145255	2.0000	1.1680	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	340418	5.0000	1.1027	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	709637	10.0000	1.1435	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	1357419	20.0000	1.0663	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	2895866	40.0000	1.1107	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:13 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

trans-1,3-Dichloropropylene %RSE = 15.5

trans-1,3-Dichloropropylene - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



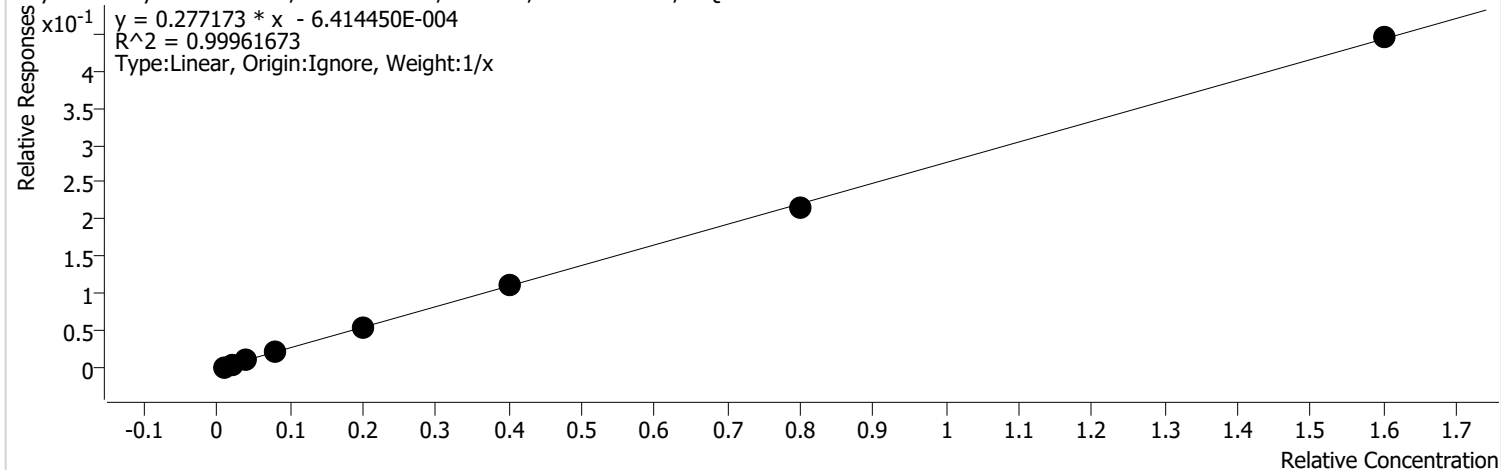
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1	x	2716	0.2000	0.2179	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	6022	0.5000	0.1946	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	15698	1.0000	0.2571	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	34115	2.0000	0.2743	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	96296	5.0000	0.3119	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	225422	10.0000	0.3632	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	469820	20.0000	0.3691	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	1130257	40.0000	0.4335	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:13 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Ethyl methacrylate %RSE = 4.0

Ethyl methacrylate - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



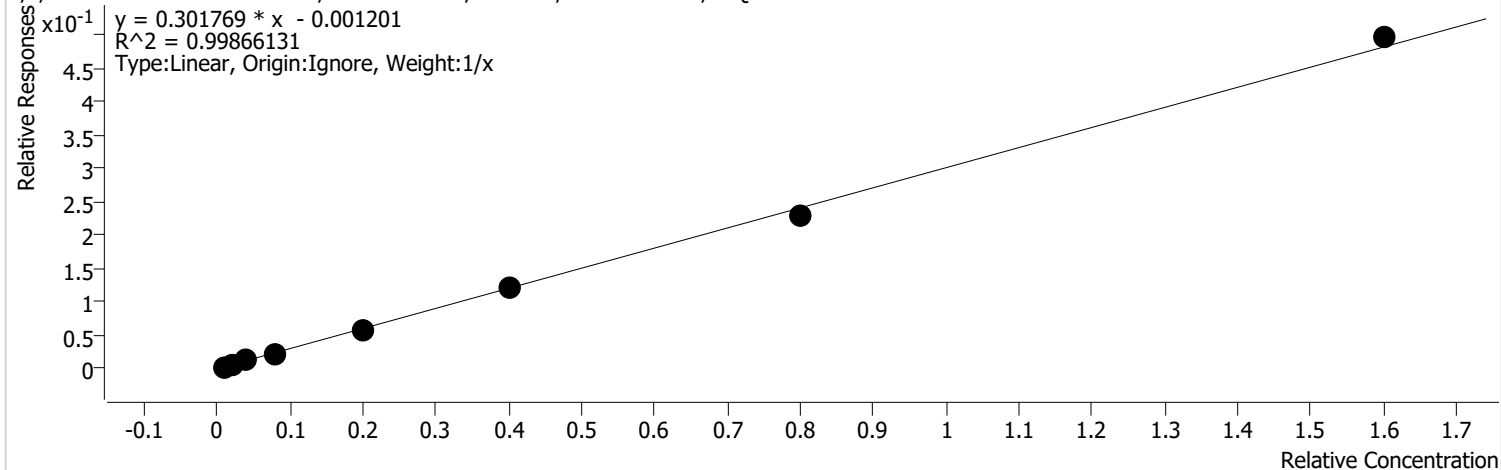
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1	x	2423	0.2000	0.1944	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	6948	0.5000	0.2245	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	16628	1.0000	0.2723	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	34564	2.0000	0.2779	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	85222	5.0000	0.2760	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	175481	10.0000	0.2828	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	342709	20.0000	0.2692	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	724444	40.0000	0.2778	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:13 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,1,2-Trichloroethane %RSE = 9.0

1,1,2-Trichloroethane - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

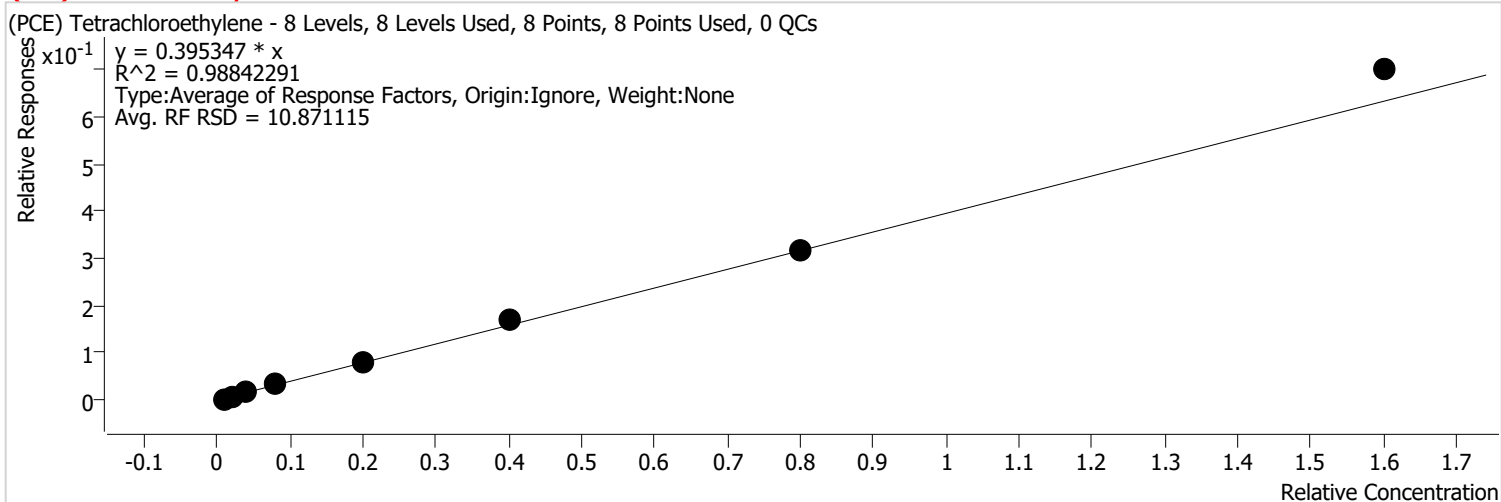


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1	x	2576	0.2000	0.2067	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	6539	0.5000	0.2112	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	16561	1.0000	0.2712	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	34020	2.0000	0.2736	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	90033	5.0000	0.2916	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	184787	10.0000	0.2978	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	363916	20.0000	0.2859	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	807677	40.0000	0.3098	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:13 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

(PCE) Tetrachloroethylene %RSE = 10.9

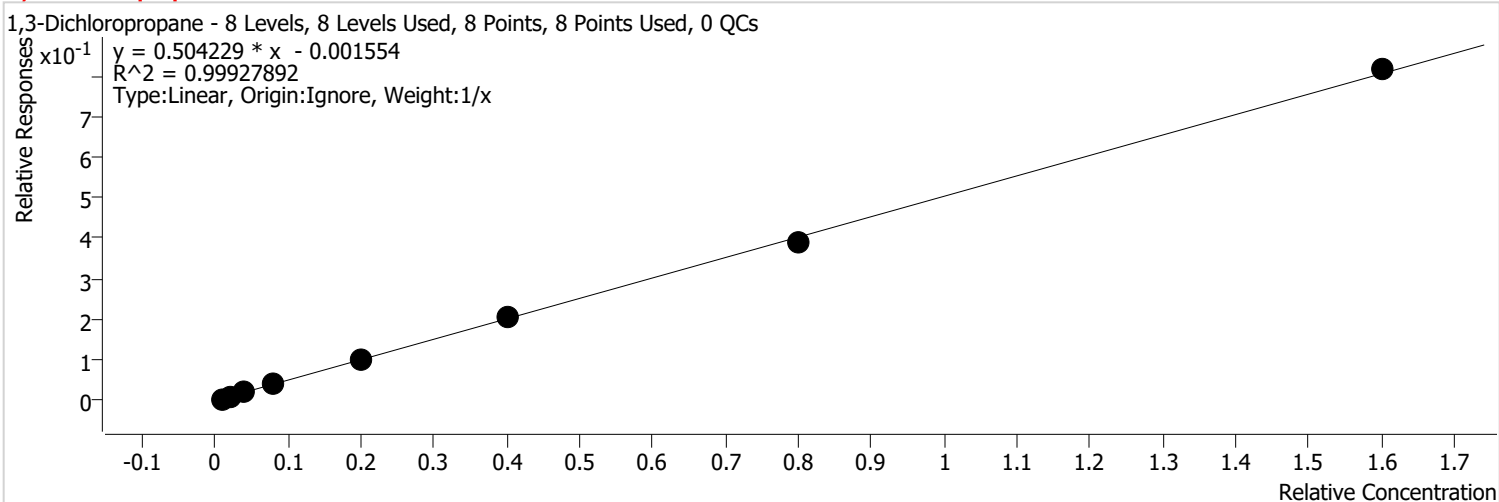


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1	x	4125	0.2000	0.3310	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	10145	0.5000	0.3277	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	25722	1.0000	0.4213	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	51500	2.0000	0.4141	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	125639	5.0000	0.4070	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	267788	10.0000	0.4315	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	500331	20.0000	0.3930	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	1139816	40.0000	0.4372	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:13 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,3-Dichloropropane %RSE = 6.5



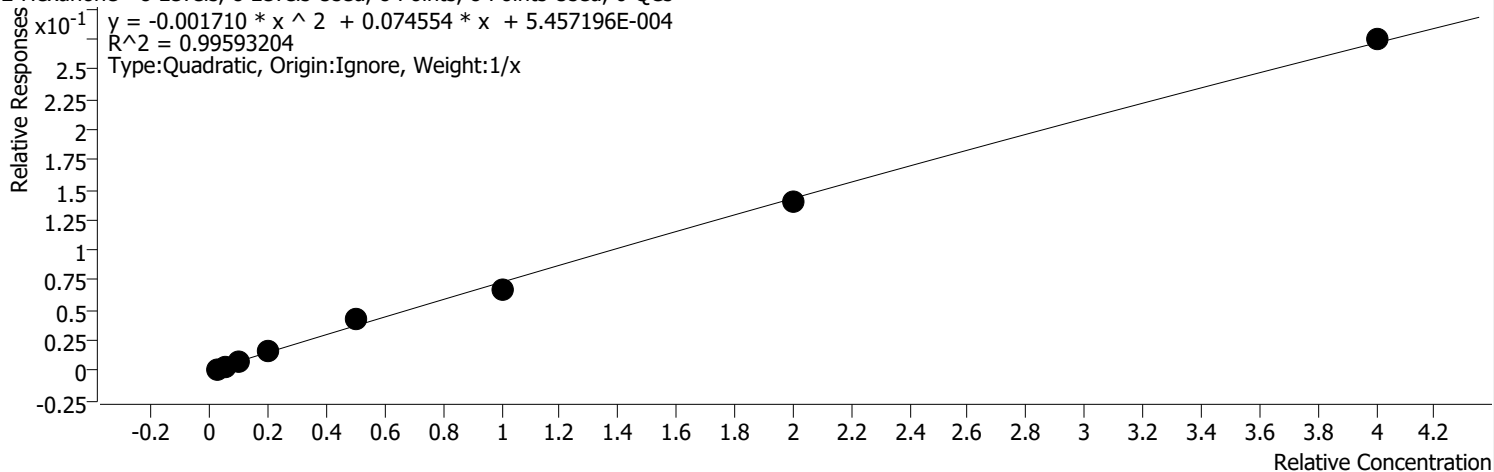
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1	x	4305	0.2000	0.3454	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	11218	0.5000	0.3624	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	29378	1.0000	0.4812	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	62378	2.0000	0.5016	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	152232	5.0000	0.4931	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	318023	10.0000	0.5125	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	615653	20.0000	0.4836	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	1328132	40.0000	0.5094	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:13 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

2-Hexanone %RSE = 13.9

2-Hexanone - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



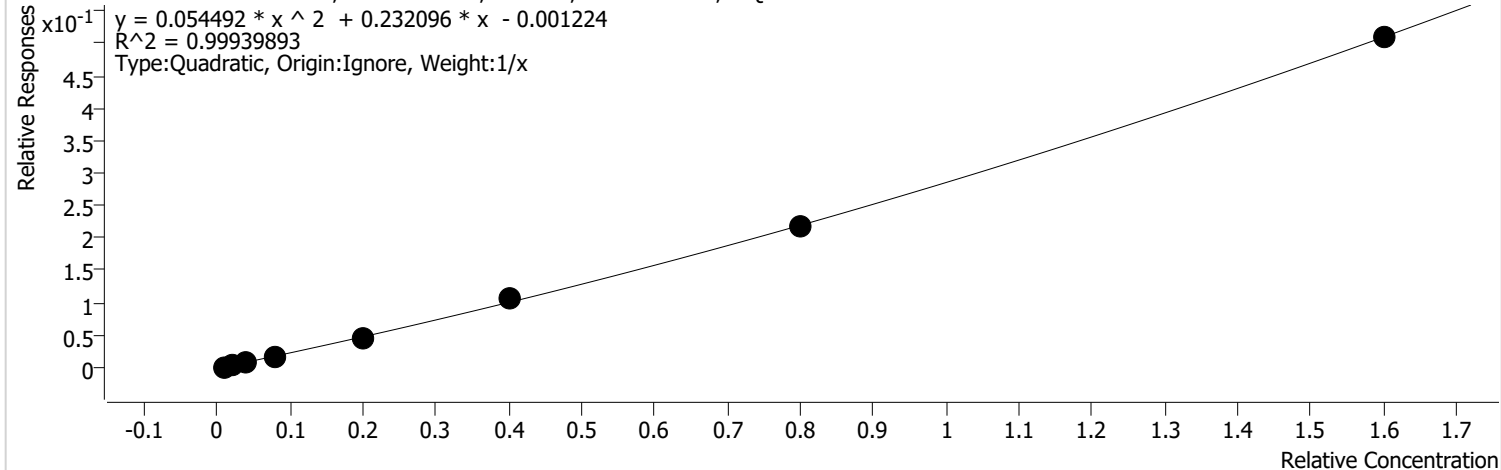
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1	x	2718	0.5000	0.0873	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	6287	1.2500	0.0812	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	13062	2.5000	0.0856	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	26904	5.0000	0.0865	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	66338	12.5000	0.0859	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	103466	25.0000	0.0667	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	221710	50.0000	0.0697	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	446545	100.0000	0.0685	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:13 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

dibromochloromethane %RSE = 13.1

dibromochloromethane - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



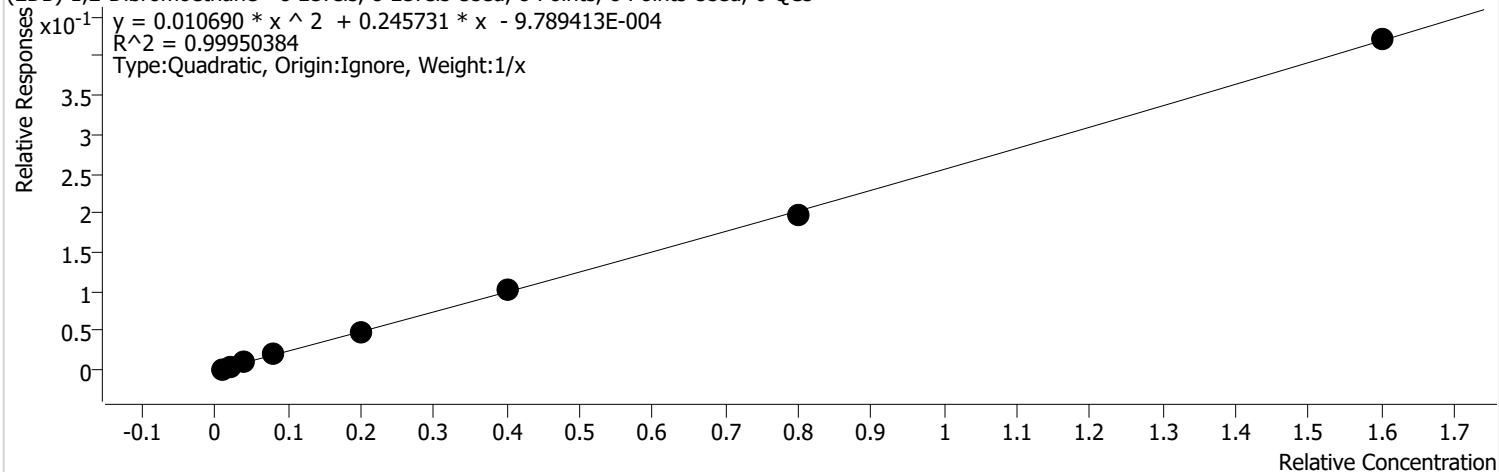
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1	x	1695	0.2000	0.1360	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	4390	0.5000	0.1418	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	11445	1.0000	0.1874	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	26390	2.0000	0.2122	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	69205	5.0000	0.2242	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	163106	10.0000	0.2628	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	349295	20.0000	0.2744	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	829004	40.0000	0.3179	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:13 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

(EDB) 1,2-Dibromoethane %RSE = 7.9

(EDB) 1,2-Dibromoethane - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

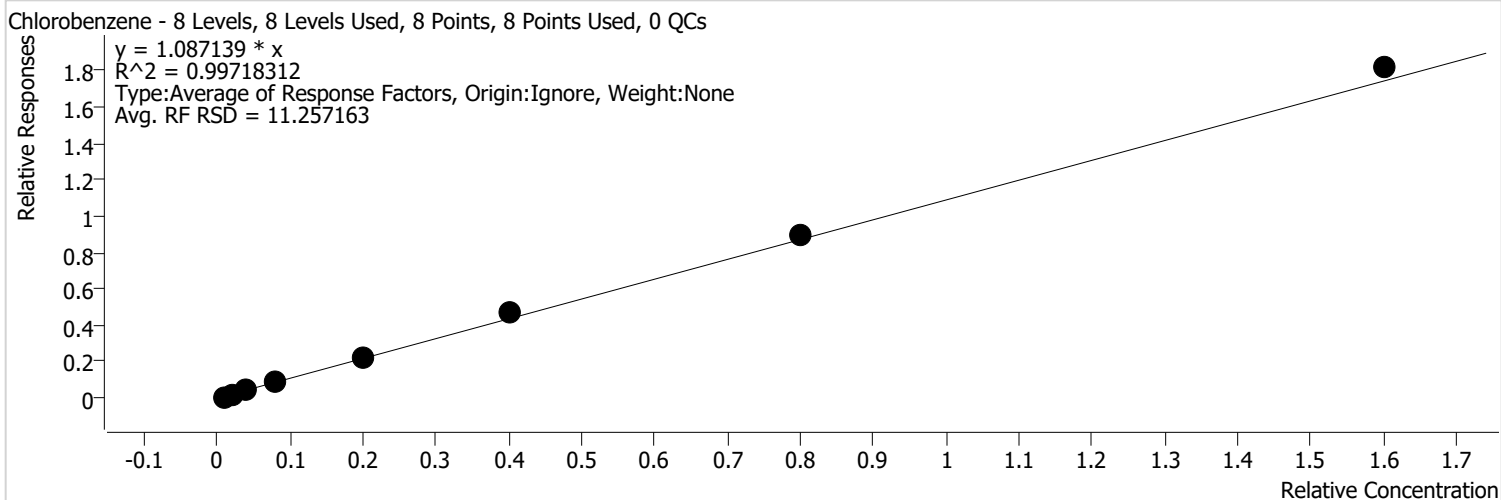


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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D:\GC-19\Data\090723\090735.D	Calibration	2	x	5075	0.5000	0.1639	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	13737	1.0000	0.2250	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	29722	2.0000	0.2390	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	73500	5.0000	0.2381	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	159683	10.0000	0.2573	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	315490	20.0000	0.2478	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	685708	40.0000	0.2630	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:13 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Chlorobenzene %RSE = 11.3

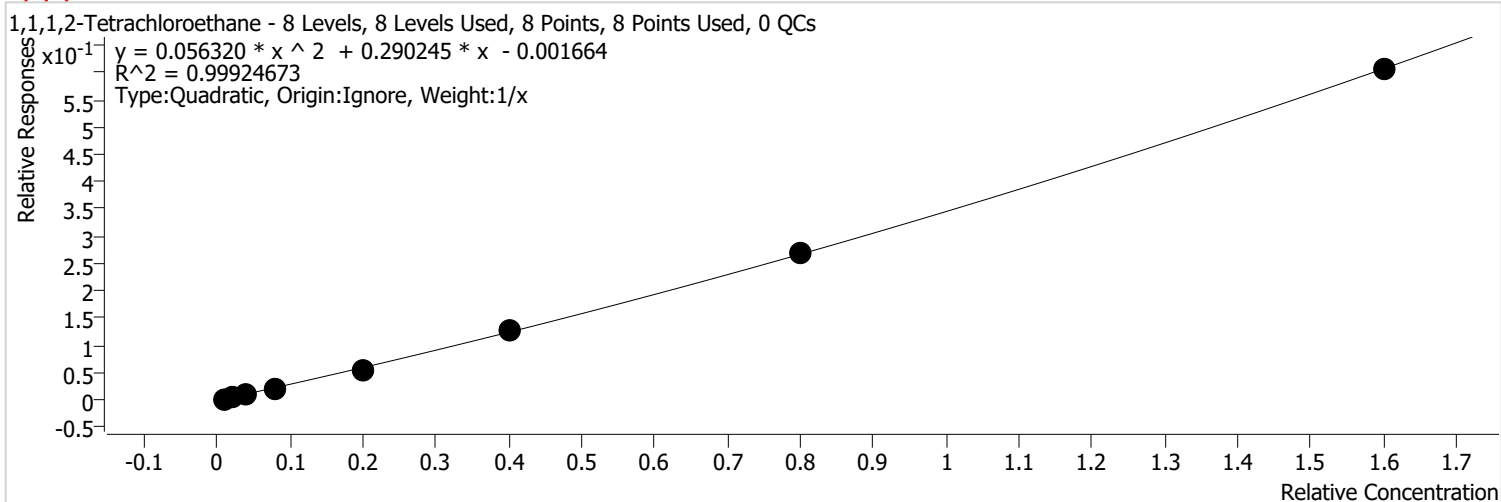


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1	x	12526	0.2000	0.9016	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	30030	0.5000	0.8852	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	74664	1.0000	1.1430	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	158309	2.0000	1.1950	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	363918	5.0000	1.1335	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	759366	10.0000	1.1841	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	1455962	20.0000	1.1218	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	3065536	40.0000	1.1330	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:13 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,1,1,2-Tetrachloroethane %RSE = 15.0



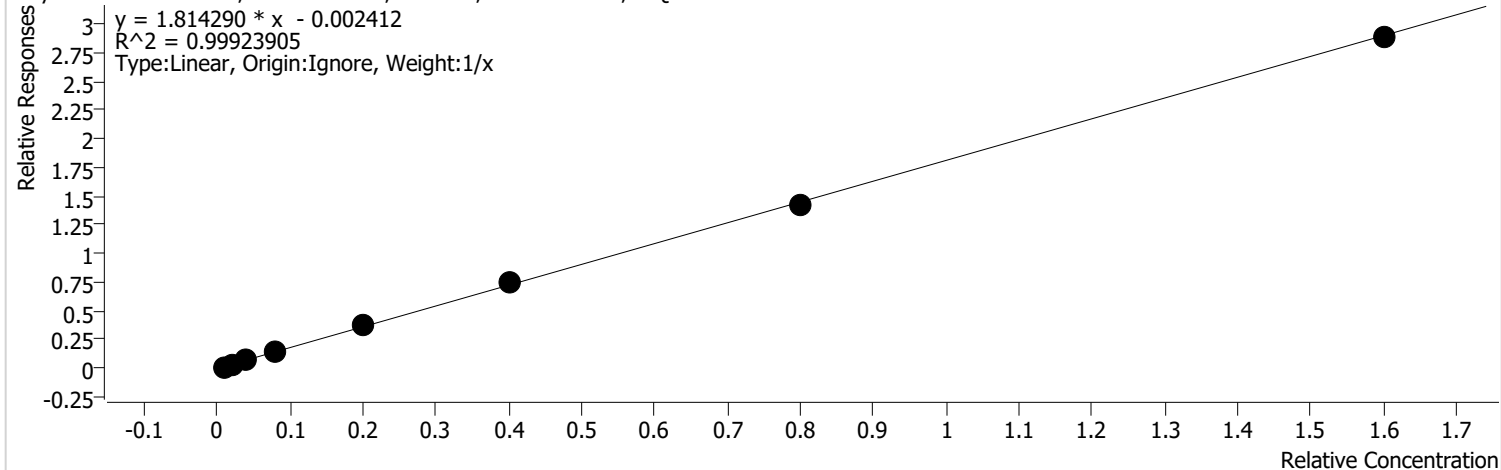
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1	x	2274	0.2000	0.1637	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	5530	0.5000	0.1630	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	15449	1.0000	0.2365	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	33475	2.0000	0.2527	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	89192	5.0000	0.2778	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	207204	10.0000	0.3231	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	434993	20.0000	0.3352	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	1023432	40.0000	0.3782	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:13 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Ethylbenzene %RSE = 6.3

Ethylbenzene - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



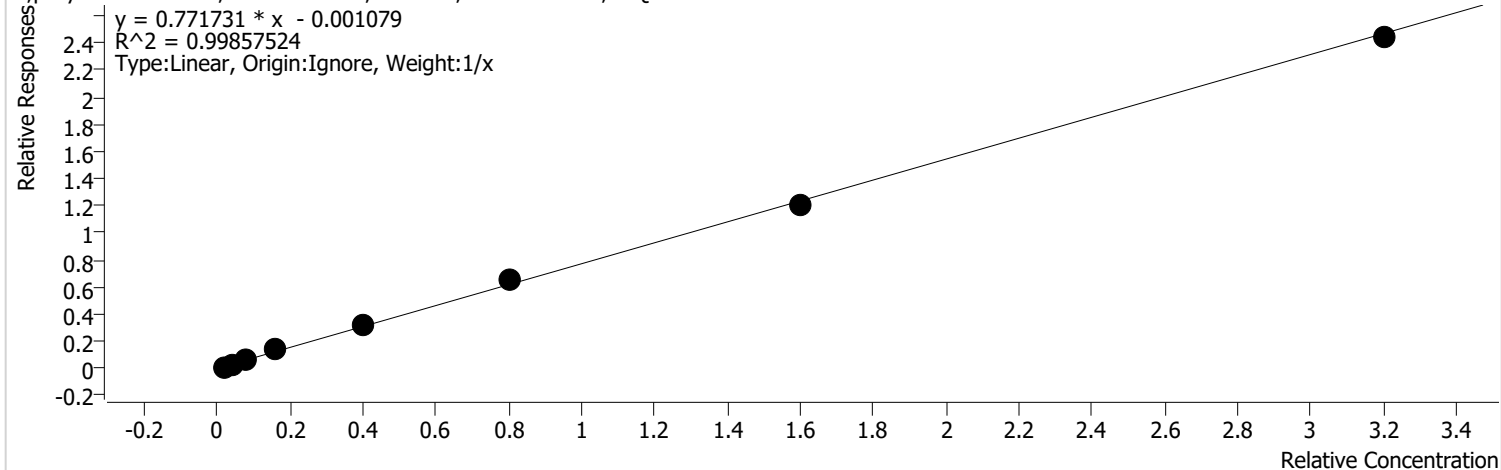
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1	x	20090	0.2000	1.4460	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	50398	0.5000	1.4855	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	121219	1.0000	1.8557	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	249429	2.0000	1.8829	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	589844	5.0000	1.8372	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	1218088	10.0000	1.8994	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	2298836	20.0000	1.7712	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	4873455	40.0000	1.8011	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:13 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

m,p-Xylene %RSE = 9.1

m,p-Xylene - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

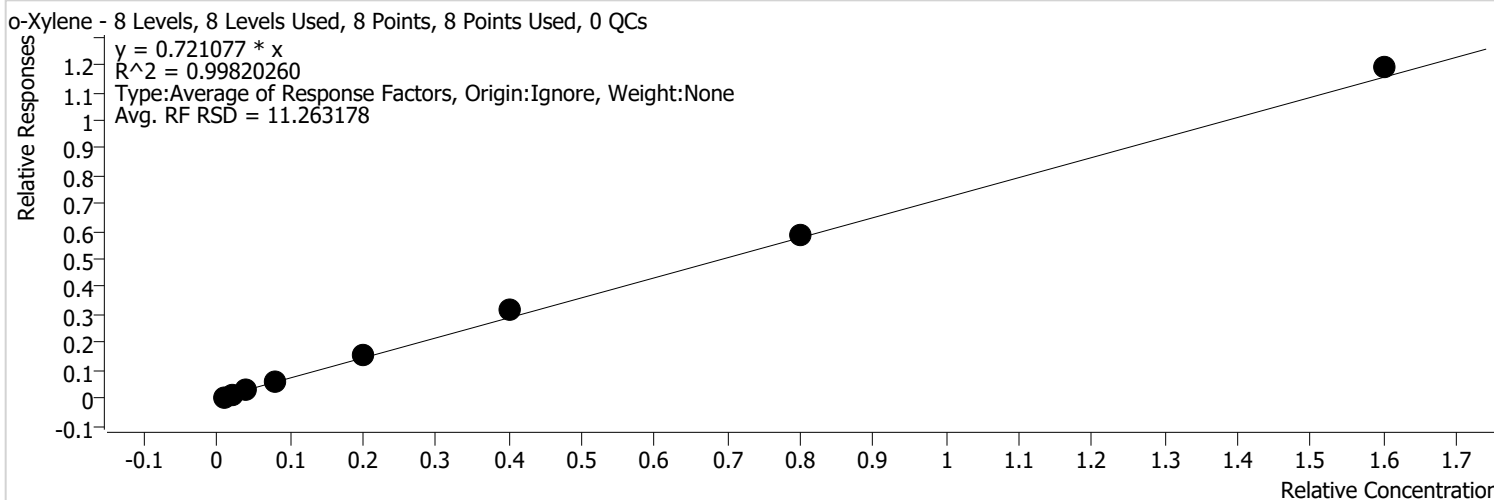


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1	x	17955	0.4000	0.6462	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	42423	1.0000	0.6252	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	106012	2.0000	0.8115	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	221528	4.0000	0.8361	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	516111	10.0000	0.8038	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	1049158	20.0000	0.8180	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	1951045	40.0000	0.7516	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	4122371	80.0000	0.7618	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:13 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

o-Xylene %RSE = 11.3



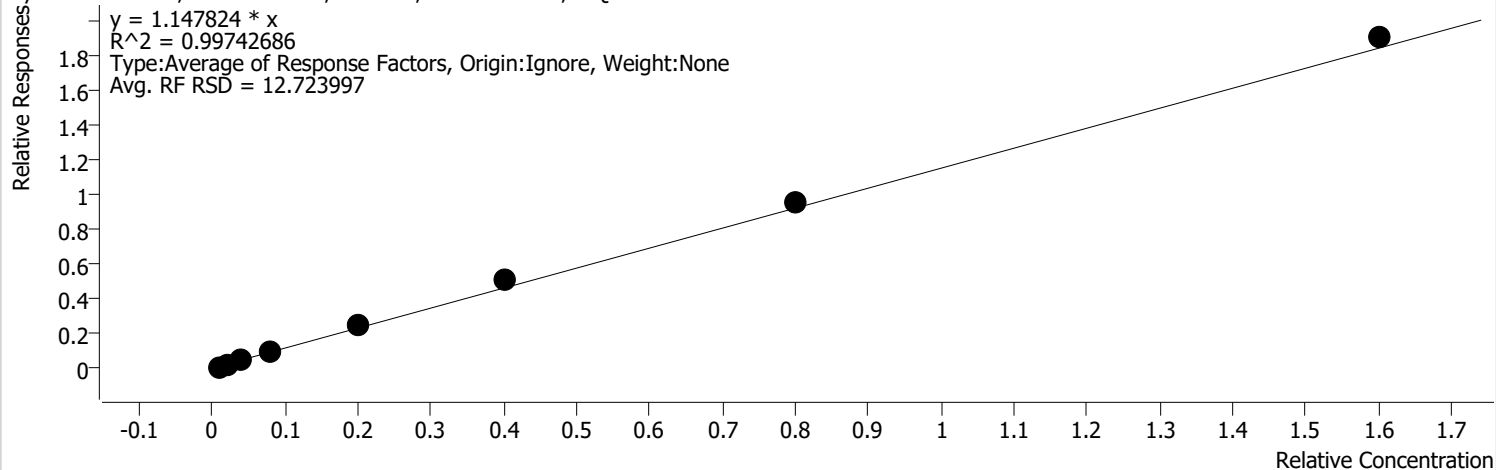
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1	x	8086	0.2000	0.5820	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	20497	0.5000	0.6042	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	50362	1.0000	0.7710	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	102777	2.0000	0.7758	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	247672	5.0000	0.7714	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	505560	10.0000	0.7884	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	951651	20.0000	0.7332	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	2009474	40.0000	0.7427	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:13 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Styrene %RSE = 12.7

Styrene - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



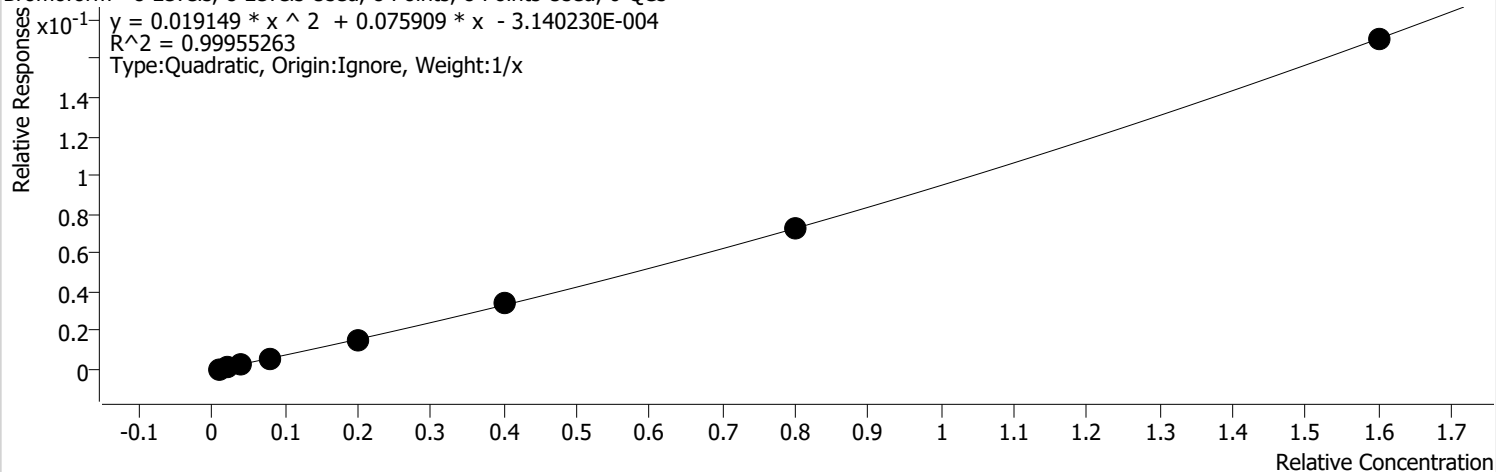
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1	x	12689	0.2000	0.9133	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	31225	0.5000	0.9204	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	79042	1.0000	1.2100	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	164076	2.0000	1.2386	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	401104	5.0000	1.2493	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	820448	10.0000	1.2794	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	1539376	20.0000	1.1860	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	3207895	40.0000	1.1856	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:13 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Bromoform %RSE = 12.7

Bromoform - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



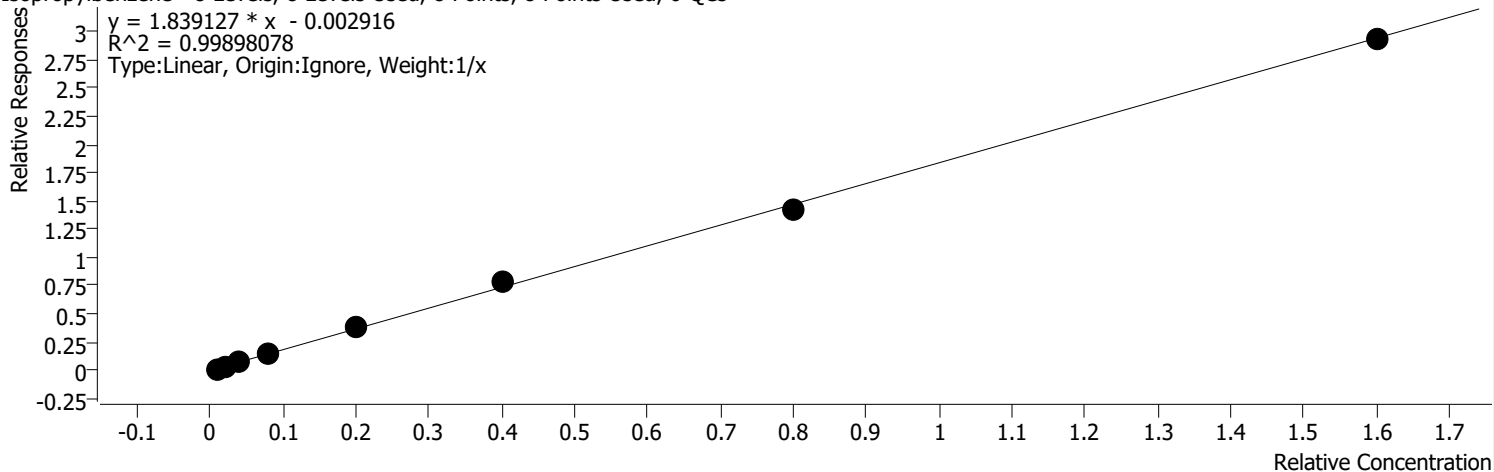
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1	x	759	0.2000	0.0546	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	1684	0.5000	0.0497	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	4324	1.0000	0.0662	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	9260	2.0000	0.0699	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	23890	5.0000	0.0744	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	54720	10.0000	0.0853	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	119018	20.0000	0.0917	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	286942	40.0000	0.1060	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:13 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Isopropylbenzene %RSE = 7.1

Isopropylbenzene - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

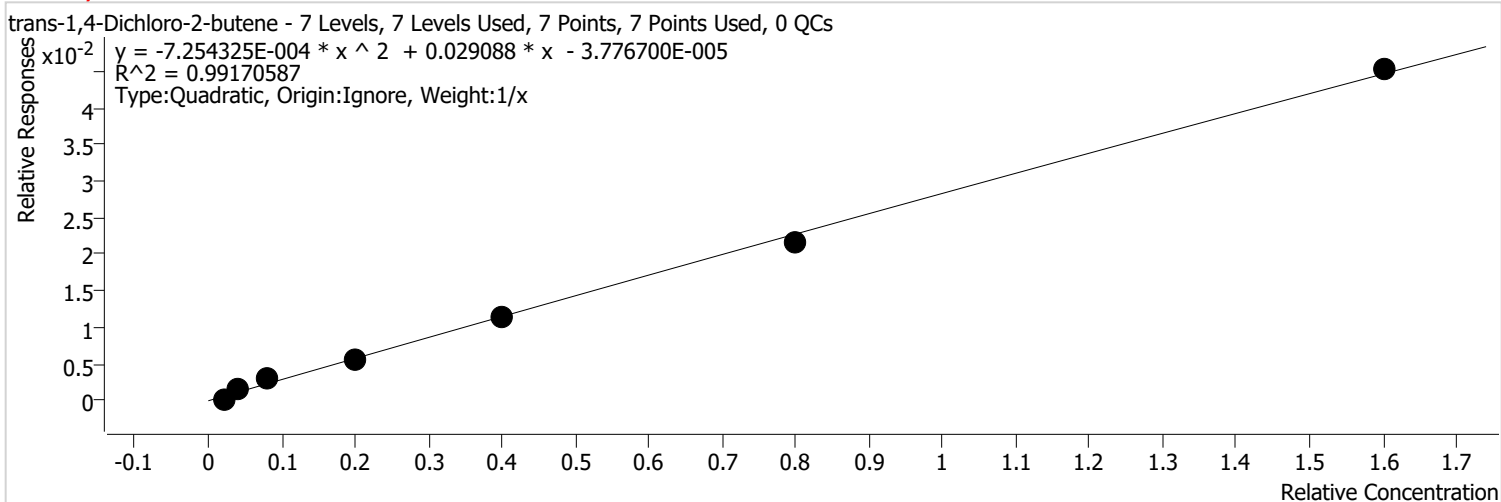


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1	x	20207	0.2000	1.4544	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	48635	0.5000	1.4336	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	120935	1.0000	1.8514	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	252059	2.0000	1.9027	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	603914	5.0000	1.8810	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	1240497	10.0000	1.9344	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	2310312	20.0000	1.7800	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	4947700	40.0000	1.8286	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:13 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

trans-1,4-Dichloro-2-butene %RSE = 34.4

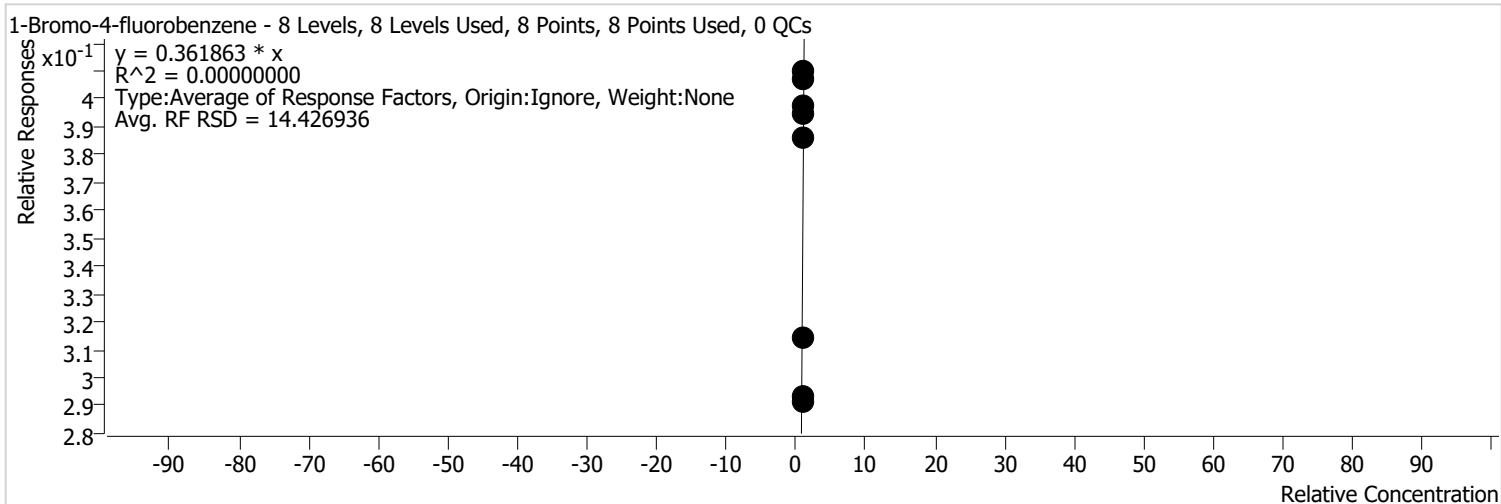


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090735.D	Calibration	2	x	401	0.5000	0.0118	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	2280	1.0000	0.0349	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	5189	2.0000	0.0392	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	8996	5.0000	0.0280	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	18261	10.0000	0.0285	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	35087	20.0000	0.0270	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	76459	40.0000	0.0283	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin	Analyst Name	FA\GC19
Analysis Time	9/11/2023 9:40 AM	Reporter Name	FA\GC19
Report Time	9/11/2023 9:58:13 AM	Batch State	Processed
Last Calib Update	9/11/2023 7:57 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

1-Bromo-4-fluorobenzene %RSE =

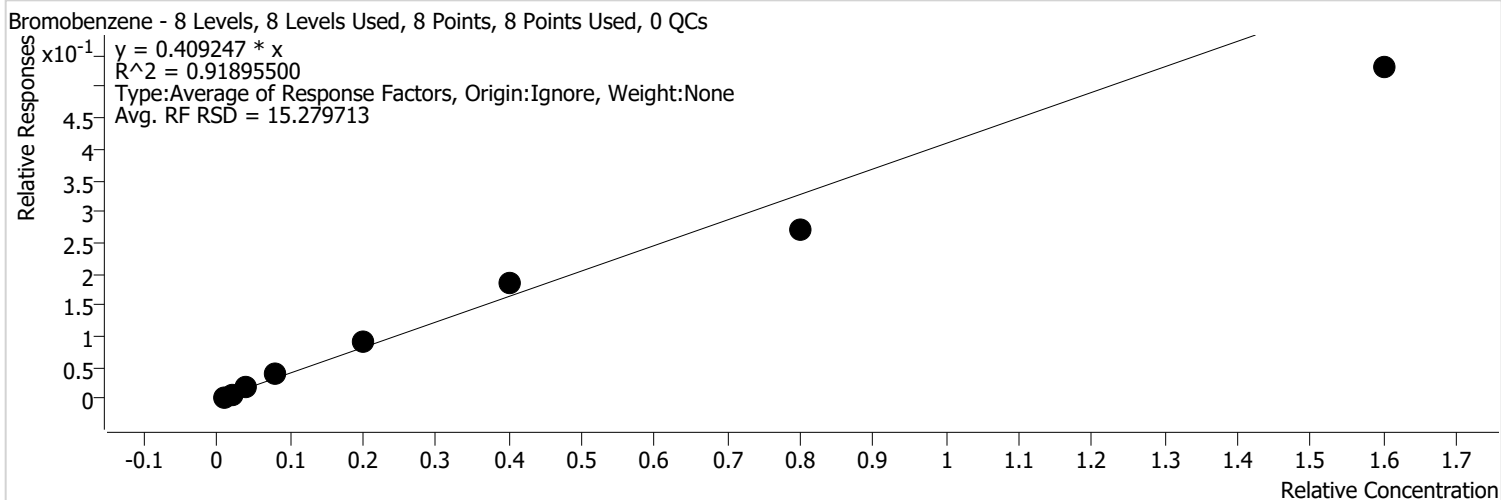


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090741.D	Calibration	8	x	493323	25.0000	0.2917	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	476558	25.0000	0.2937	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	619593	25.0000	0.3865	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	633823	25.0000	0.3948	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	520499	25.0000	0.3143	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	648942	25.0000	0.3974	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	694984	25.0000	0.4097	
D:\GC-19\Data\090723\090734.D	Calibration	1	x	706367	25.0000	0.4067	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:13 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Bromobenzene %RSE = 15.3

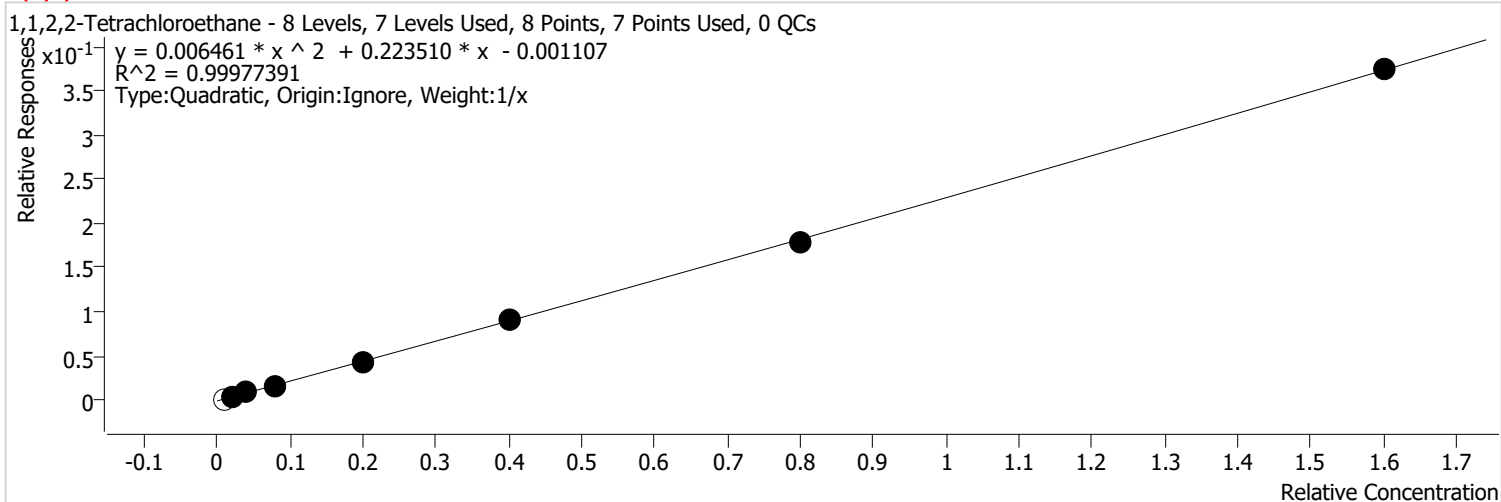


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1	x	5237	0.2000	0.3769	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	12207	0.5000	0.3598	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	30329	1.0000	0.4643	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	62954	2.0000	0.4752	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	147709	5.0000	0.4601	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	298530	10.0000	0.4655	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	442029	20.0000	0.3406	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	897093	40.0000	0.3315	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin	Analyst Name	FA\GC19
Analysis Time	9/11/2023 9:40 AM	Reporter Name	FA\GC19
Report Time	9/11/2023 9:58:13 AM	Batch State	Processed
Last Calib Update	9/11/2023 7:57 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

1,1,2,2-Tetrachloroethane %RSE = 2.5



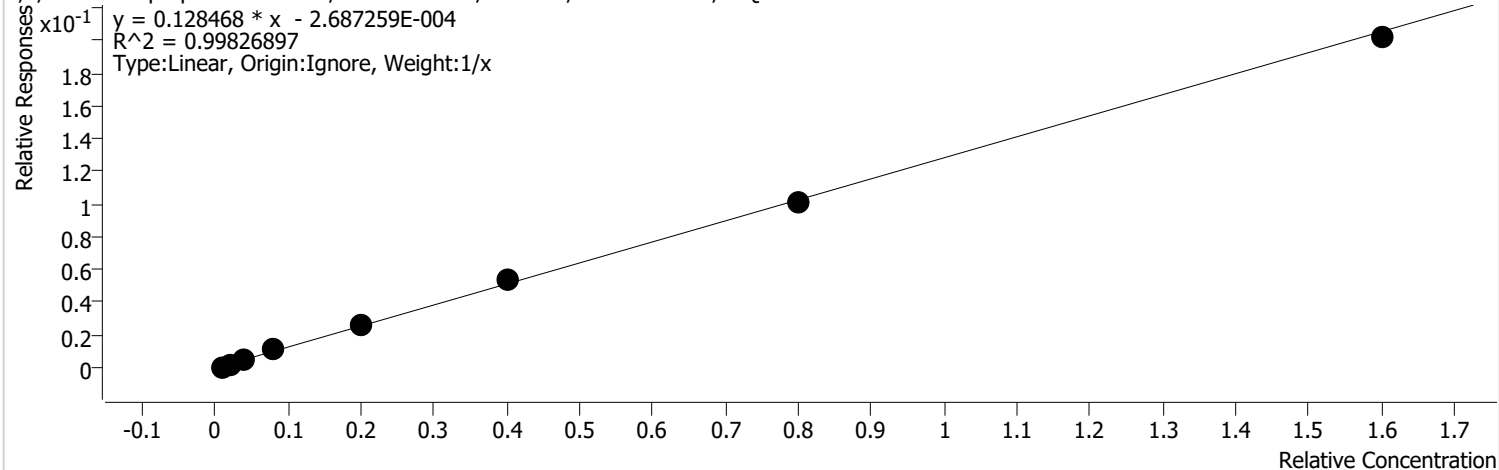
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1		2299	0.2000	0.1655	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	5553	0.5000	0.1637	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	13134	1.0000	0.2011	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	28002	2.0000	0.2114	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	68608	5.0000	0.2137	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	147395	10.0000	0.2298	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	291197	20.0000	0.2244	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	631974	40.0000	0.2336	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:13 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,2,3-Trichloropropane %RSE = 13.7

1,2,3-Trichloropropane - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



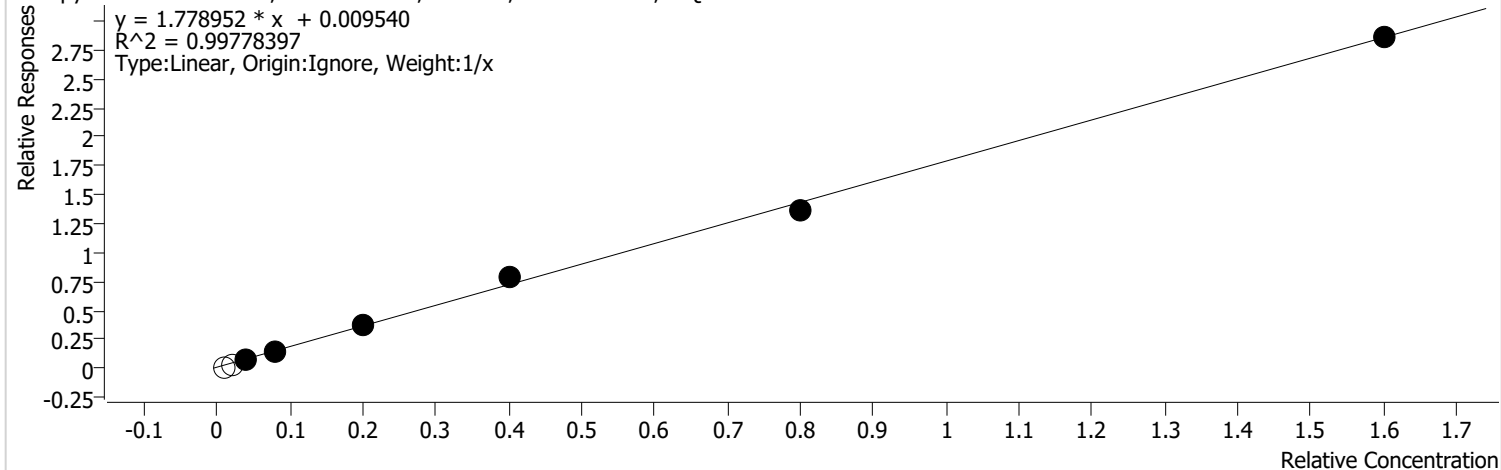
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1	x	917	0.2000	0.0660	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	3381	0.5000	0.0997	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	9198	1.0000	0.1408	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	19084	2.0000	0.1441	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	42164	5.0000	0.1313	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	85646	10.0000	0.1336	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	164477	20.0000	0.1267	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	340798	40.0000	0.1260	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:13 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

n-Propylbenzene %RSE = 6.4

n-Propylbenzene - 8 Levels, 6 Levels Used, 8 Points, 6 Points Used, 0 QCs



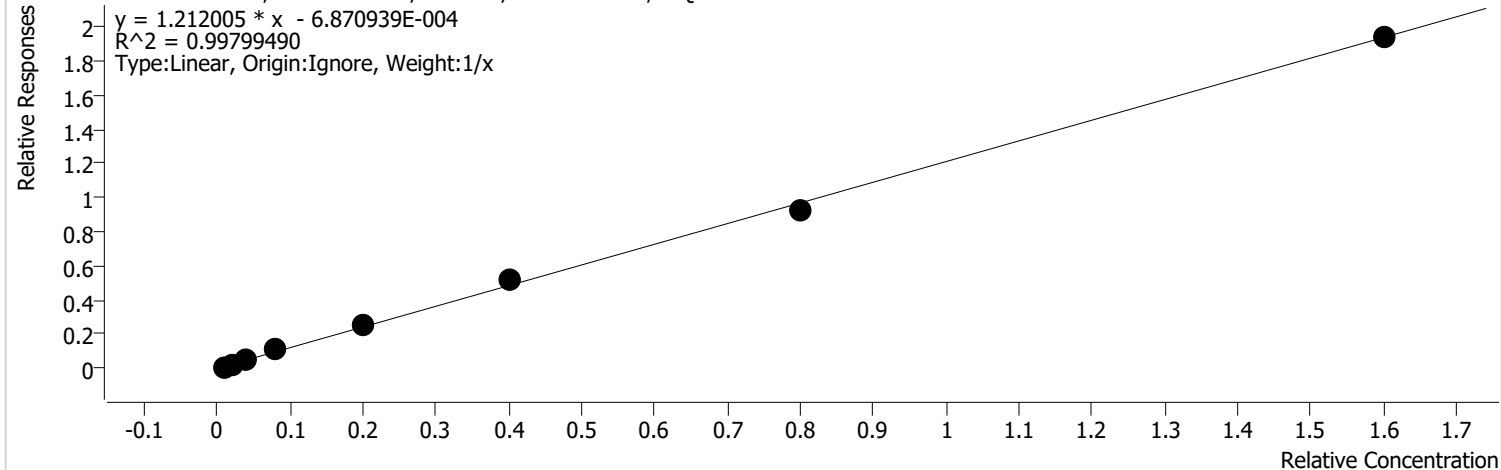
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1		21549	0.2000	1.5510	
D:\GC-19\Data\090723\090735.D	Calibration	2		51102	0.5000	1.5063	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	123118	1.0000	1.8848	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	252456	2.0000	1.9057	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	603547	5.0000	1.8798	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	1256272	10.0000	1.9590	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	2216793	20.0000	1.7080	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	4826090	40.0000	1.7836	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:13 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

2-Chlorotoluene %RSE = 9.2

2-Chlorotoluene - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



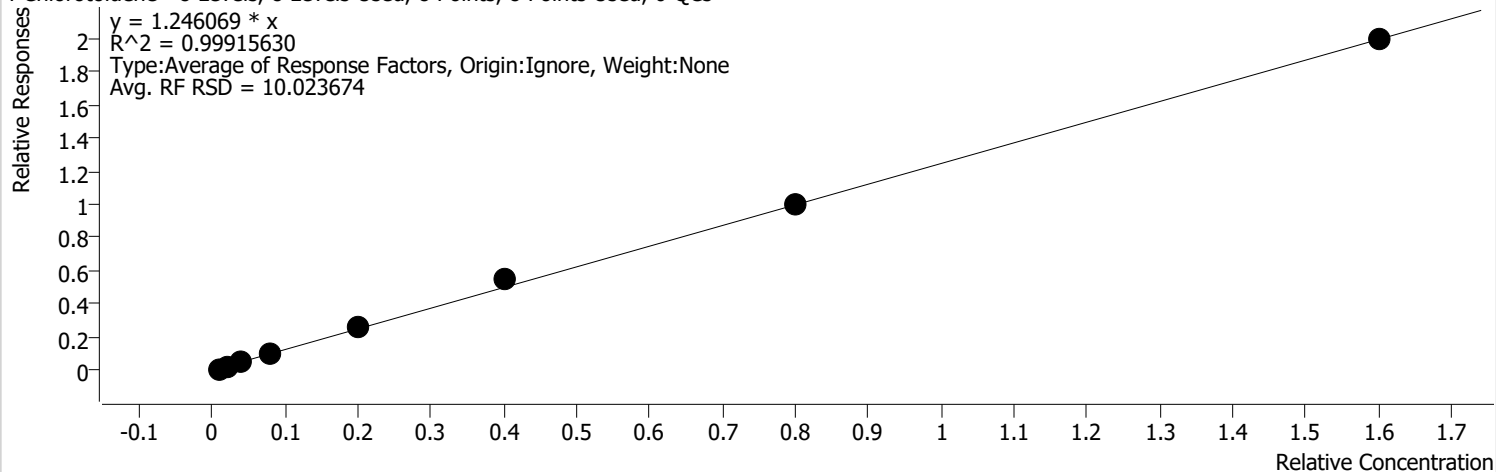
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1	x	14648	0.2000	1.0543	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	33514	0.5000	0.9879	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	83180	1.0000	1.2734	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	175623	2.0000	1.3257	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	399729	5.0000	1.2450	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	831515	10.0000	1.2966	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	1492667	20.0000	1.1501	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	3275715	40.0000	1.2106	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:13 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

4-Chlorotoluene %RSE = 10.0

4-Chlorotoluene - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

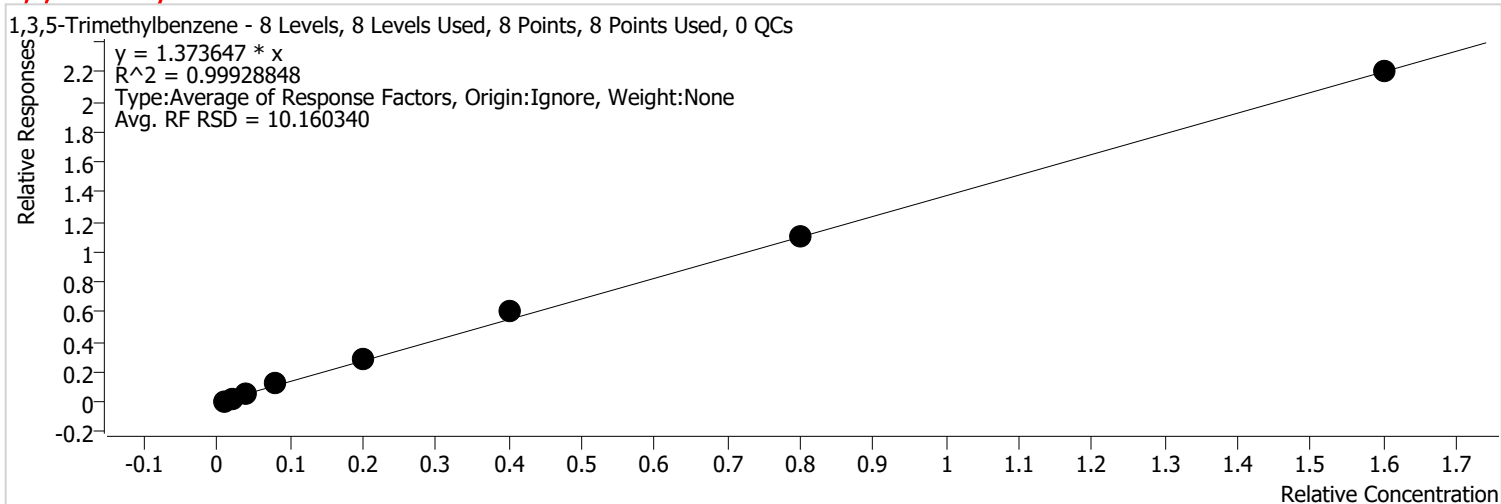


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1	x	15204	0.2000	1.0943	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	34736	0.5000	1.0239	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	86291	1.0000	1.3210	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	177455	2.0000	1.3395	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	427124	5.0000	1.3303	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	878532	10.0000	1.3699	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	1615226	20.0000	1.2445	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	3368766	40.0000	1.2450	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:13 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,3,5-Trimethylbenzene %RSE = 10.2

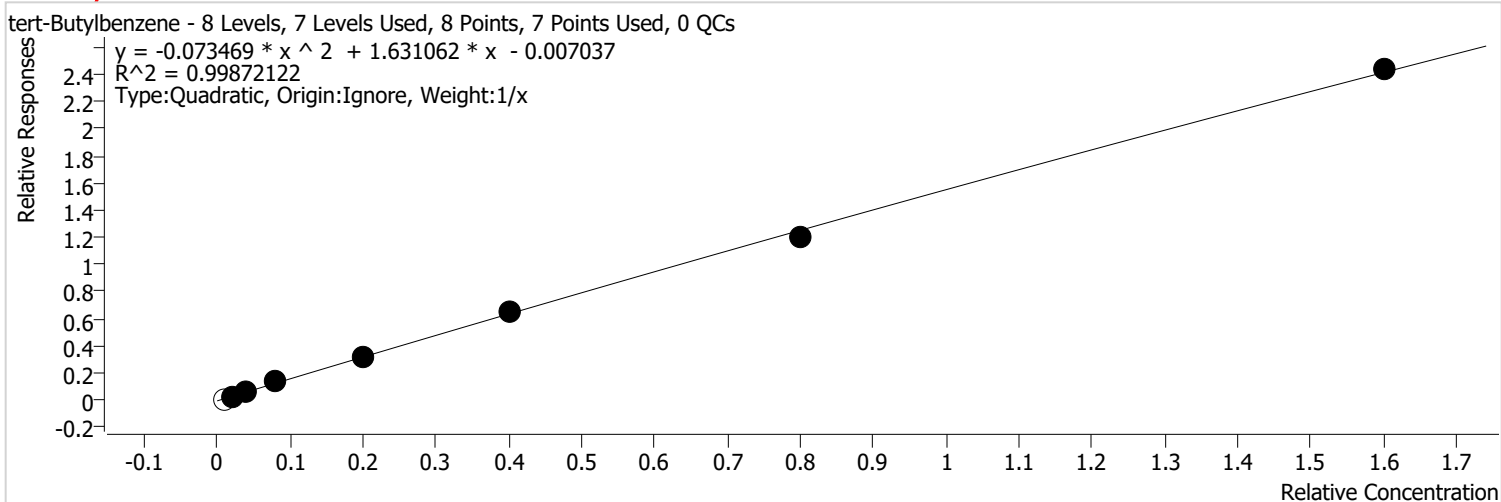


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1	x	16242	0.2000	1.1690	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	39216	0.5000	1.1560	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	95484	1.0000	1.4617	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	199113	2.0000	1.5030	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	468251	5.0000	1.4584	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	960442	10.0000	1.4977	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	1777064	20.0000	1.3692	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	3718082	40.0000	1.3741	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:13 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

tert-Butylbenzene %RSE = 9.0

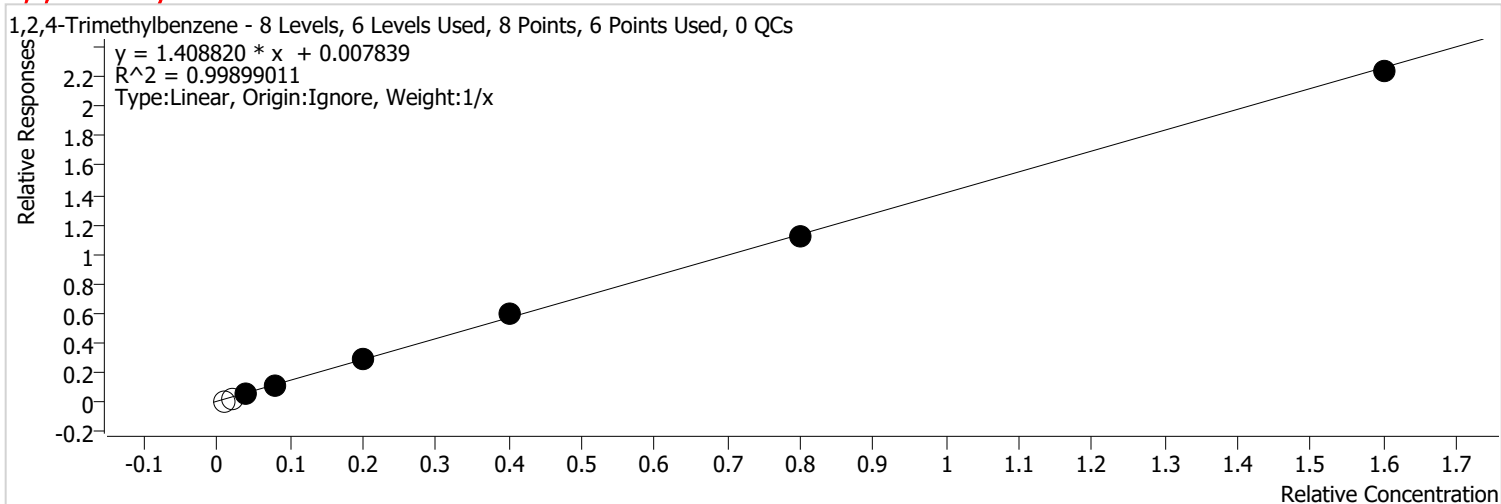


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1		14739	0.2000	1.0609	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	35678	0.5000	1.0517	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	103126	1.0000	1.5787	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	215056	2.0000	1.6234	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	508622	5.0000	1.5842	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	1058329	10.0000	1.6503	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	1940306	20.0000	1.4950	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	4117688	40.0000	1.5218	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:13 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,2,4-Trimethylbenzene %RSE = 5.2



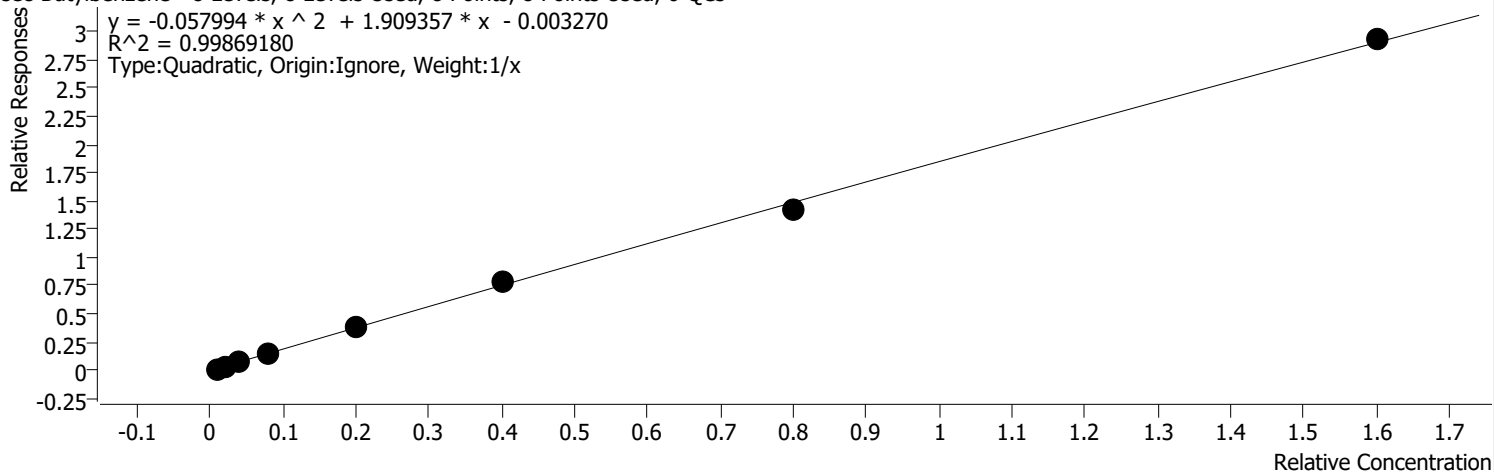
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1		18280	0.2000	1.3157	
D:\GC-19\Data\090723\090735.D	Calibration	2		40156	0.5000	1.1837	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	97896	1.0000	1.4987	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	200496	2.0000	1.5135	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	478878	5.0000	1.4915	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	973327	10.0000	1.5178	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	1820556	20.0000	1.4027	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	3777900	40.0000	1.3962	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:13 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

sec-Butylbenzene %RSE = 8.0

sec-Butylbenzene - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

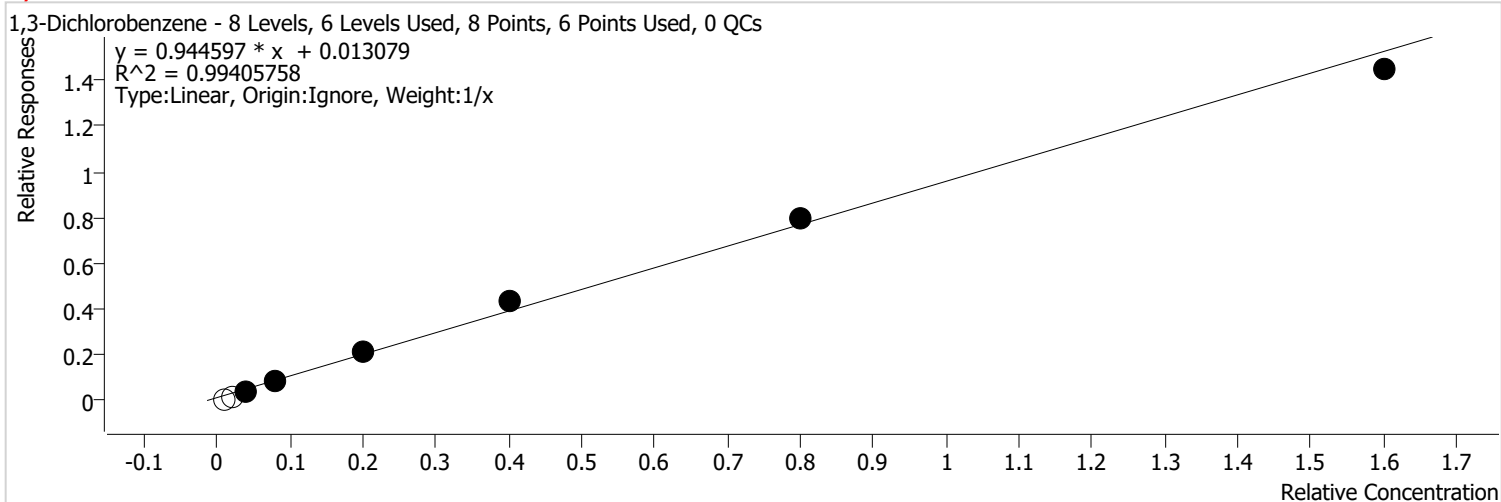


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1	x	21947	0.2000	1.5797	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	49793	0.5000	1.4677	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	124871	1.0000	1.9116	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	257318	2.0000	1.9424	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	606231	5.0000	1.8882	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	1267011	10.0000	1.9757	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	2299022	20.0000	1.7713	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	4951566	40.0000	1.8300	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin	Analyst Name	FA\GC19
Analysis Time	9/11/2023 9:40 AM	Reporter Name	FA\GC19
Report Time	9/11/2023 9:58:13 AM	Batch State	Processed
Last Calib Update	9/11/2023 7:57 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

1,3-Dichlorobenzene %RSE = 12.2

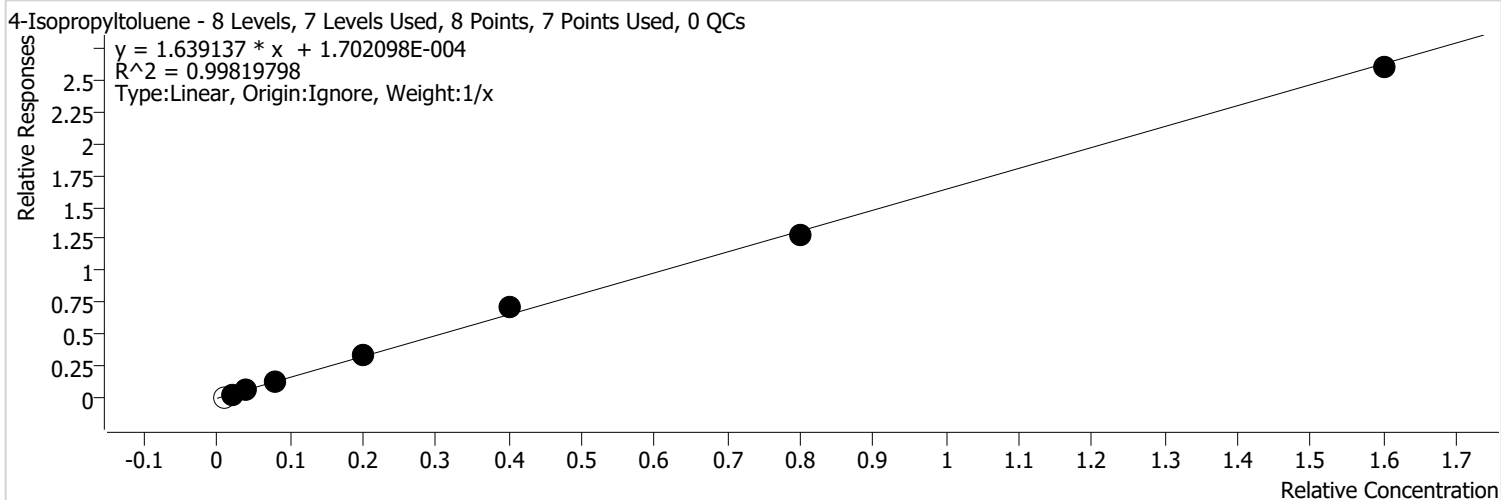


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1		10528	0.2000	0.9621	
D:\GC-19\Data\090723\090735.D	Calibration	2		23964	0.5000	0.8936	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	55049	1.0000	1.0977	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	114855	2.0000	1.1094	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	276183	5.0000	1.0838	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	558852	10.0000	1.0951	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	1056183	20.0000	0.9915	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	2185238	40.0000	0.9031	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:13 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

4-Isopropyltoluene %RSE = 9.2

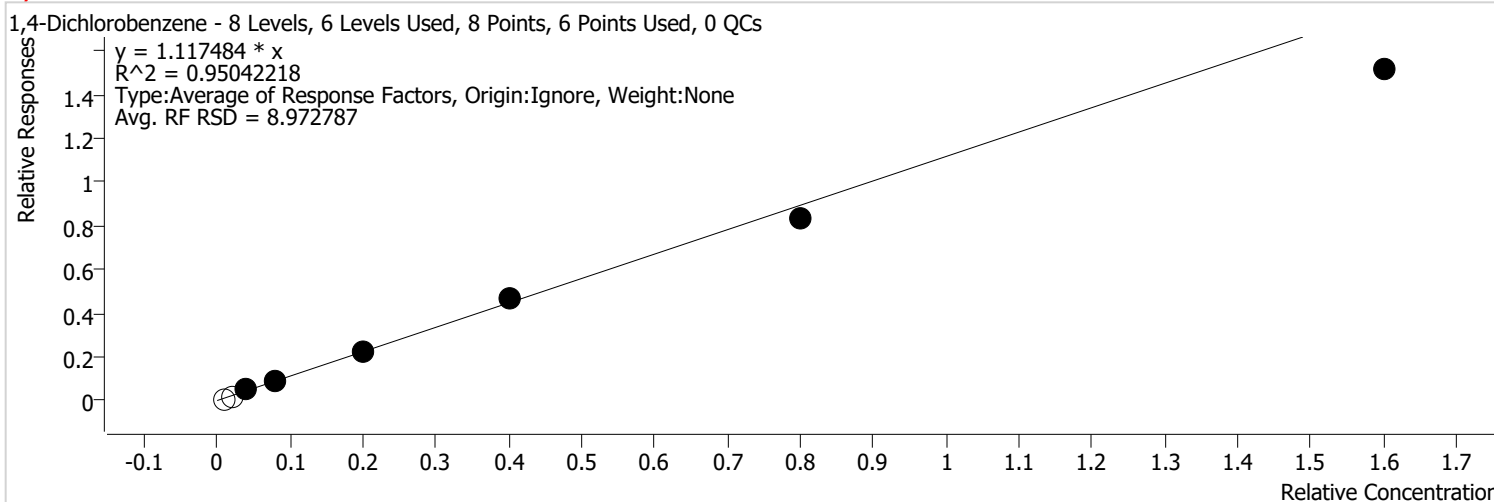


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1		20894	0.2000	1.5038	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	46402	0.5000	1.3678	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	111554	1.0000	1.7078	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	228966	2.0000	1.7284	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	546796	5.0000	1.7031	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	1137056	10.0000	1.7731	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	2064184	20.0000	1.5904	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	4383355	40.0000	1.6200	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:13 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,4-Dichlorobenzene %RSE = 9.0

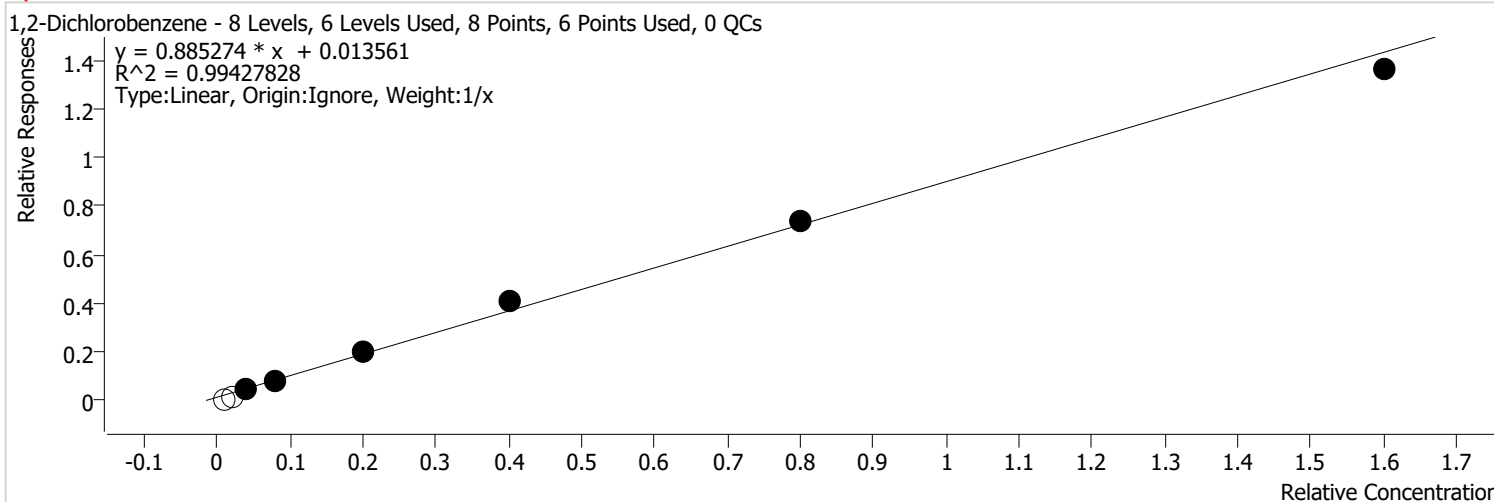


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1		11091	0.2000	1.0136	
D:\GC-19\Data\090723\090735.D	Calibration	2		24804	0.5000	0.9250	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	60636	1.0000	1.2091	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	122347	2.0000	1.1818	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	292423	5.0000	1.1476	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	597696	10.0000	1.1712	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	1117093	20.0000	1.0487	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	2290427	40.0000	0.9466	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin	Analyst Name	FA\GC19
Analysis Time	9/11/2023 9:40 AM	Reporter Name	FA\GC19
Report Time	9/11/2023 9:58:13 AM	Batch State	Processed
Last Calib Update	9/11/2023 7:57 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

1,2-Dichlorobenzene %RSE = 11.8



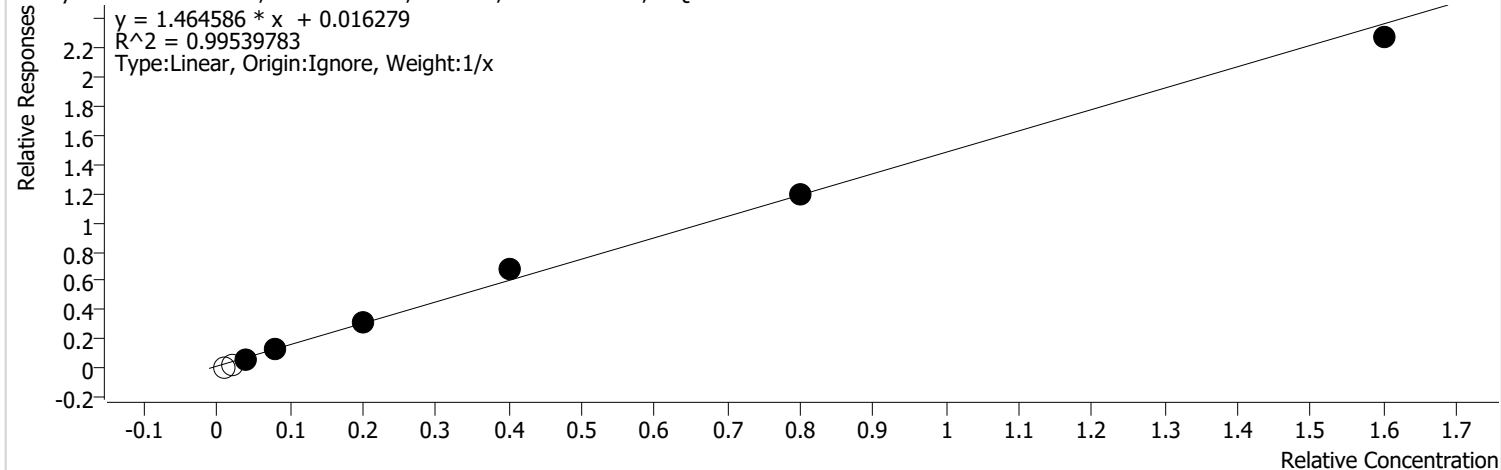
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1		9586	0.2000	0.8760	
D:\GC-19\Data\090723\090735.D	Calibration	2		21558	0.5000	0.8039	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	53636	1.0000	1.0695	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	108518	2.0000	1.0482	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	260629	5.0000	1.0228	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	526349	10.0000	1.0314	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	986616	20.0000	0.9262	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	2054813	40.0000	0.8492	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:13 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

n-Butylbenzene %RSE = 10.5

n-Butylbenzene - 8 Levels, 6 Levels Used, 8 Points, 6 Points Used, 0 QCs

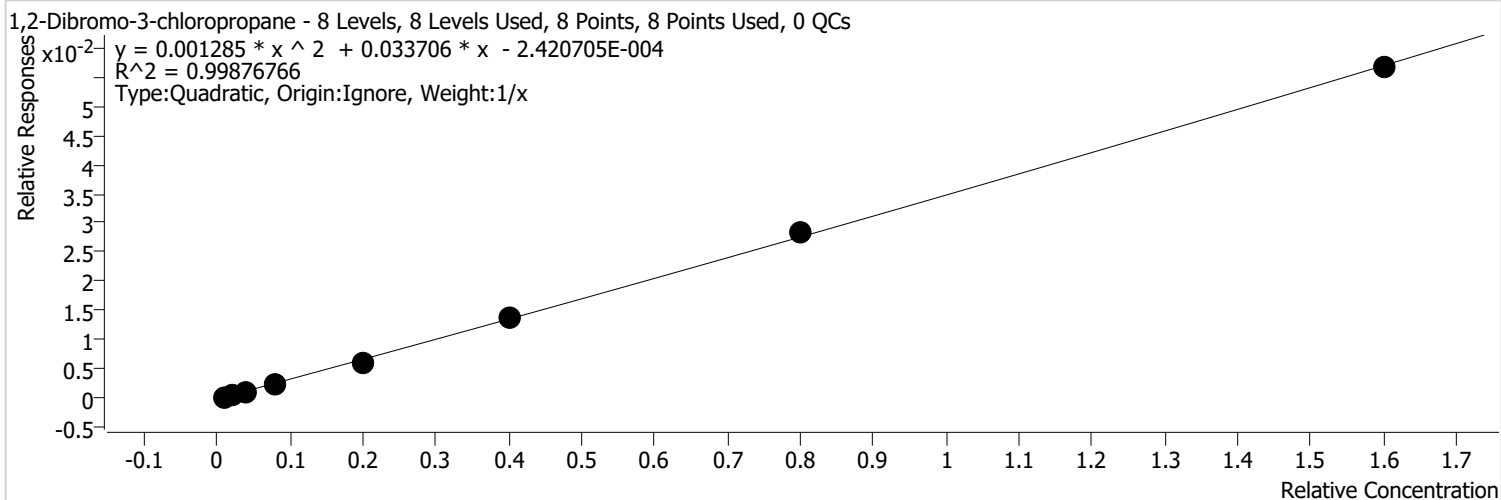


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1		15600	0.2000	1.4257	
D:\GC-19\Data\090723\090735.D	Calibration	2		33845	0.5000	1.2621	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	82636	1.0000	1.6478	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	173942	2.0000	1.6801	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	409801	5.0000	1.6082	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	866098	10.0000	1.6972	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	1599580	20.0000	1.5016	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	3425520	40.0000	1.4157	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:13 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,2-Dibromo-3-chloropropane %RSE = 17.2

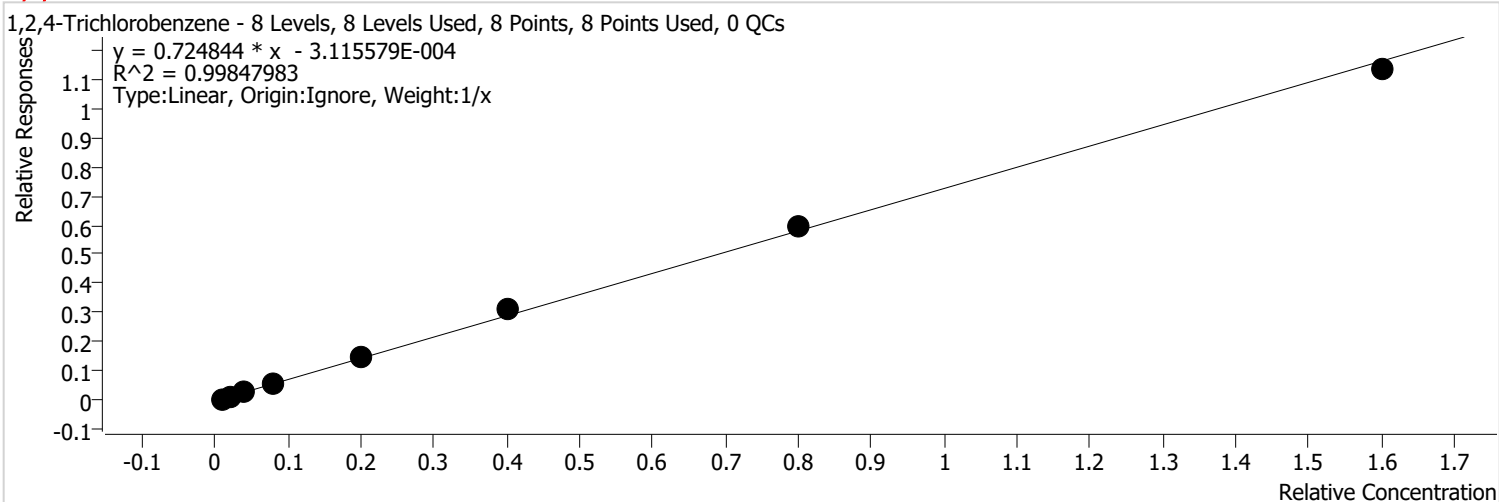


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1	x	155	0.2000	0.0142	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	416	0.5000	0.0155	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	1287	1.0000	0.0257	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	2981	2.0000	0.0288	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	7755	5.0000	0.0304	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	17763	10.0000	0.0348	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	37516	20.0000	0.0352	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	85619	40.0000	0.0354	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:13 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,2,4-Trichlorobenzene %RSE = 11.4



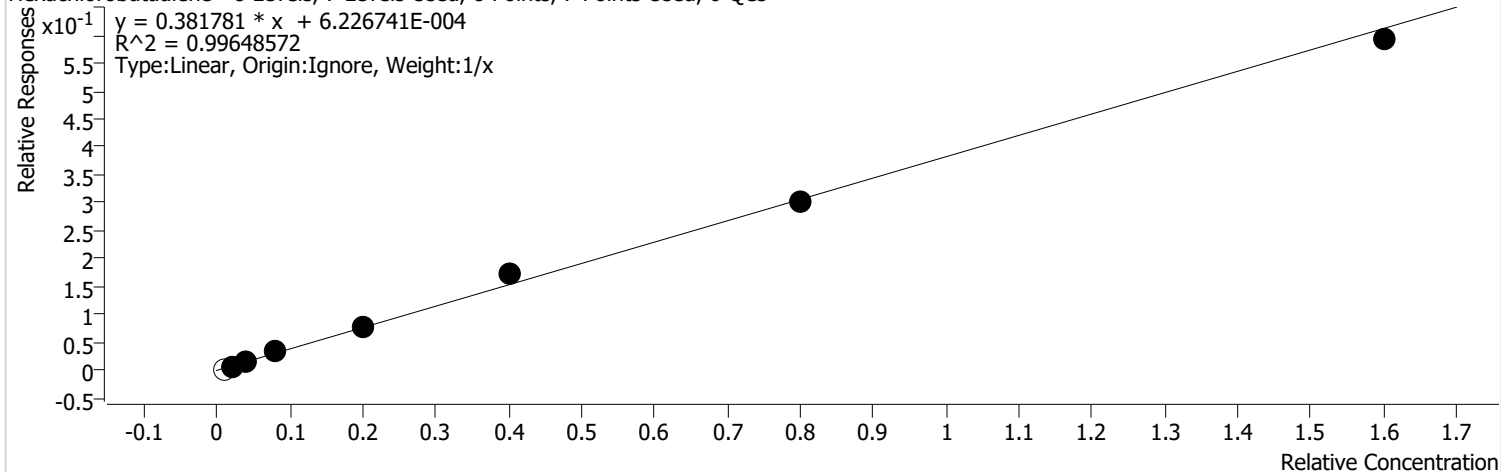
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1	x	8809	0.2000	0.8050	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	14880	0.5000	0.5549	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	35460	1.0000	0.7071	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	74150	2.0000	0.7162	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	185401	5.0000	0.7276	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	394677	10.0000	0.7734	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	787390	20.0000	0.7391	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	1708922	40.0000	0.7063	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:13 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Hexachlorobutadiene %RSE = 13.3

Hexachlorobutadiene - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 0 QCs



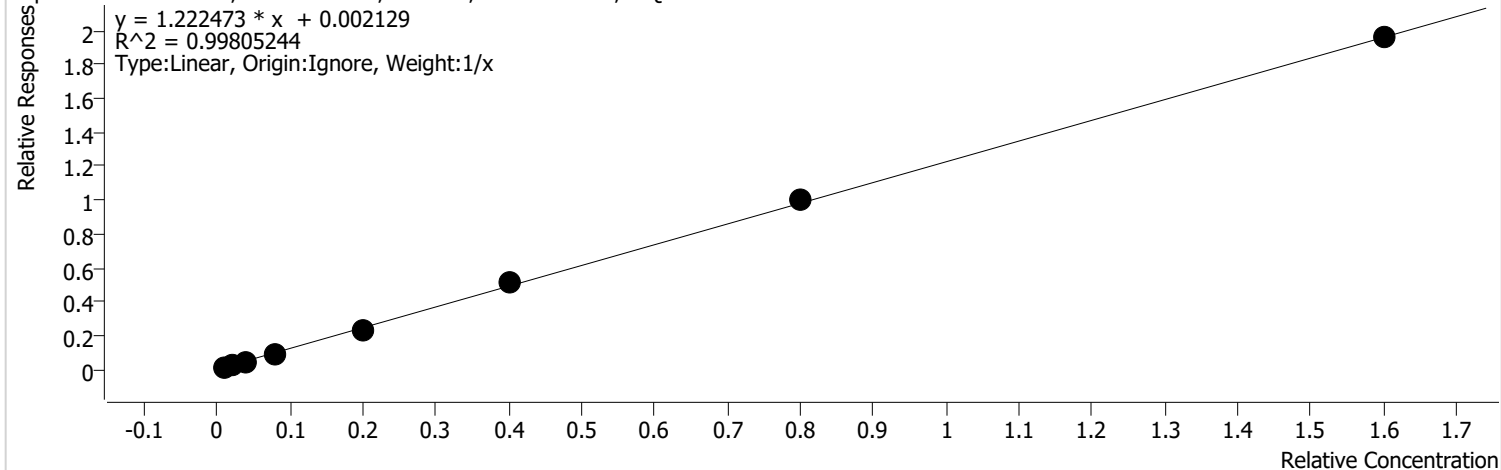
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1		4428	0.2000	0.4047	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	8513	0.5000	0.3174	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	21397	1.0000	0.4267	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	42411	2.0000	0.4097	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	102275	5.0000	0.4014	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	218388	10.0000	0.4279	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	404847	20.0000	0.3800	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	894503	40.0000	0.3697	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:13 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Naphthalene %RSE = 20.4

Naphthalene - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

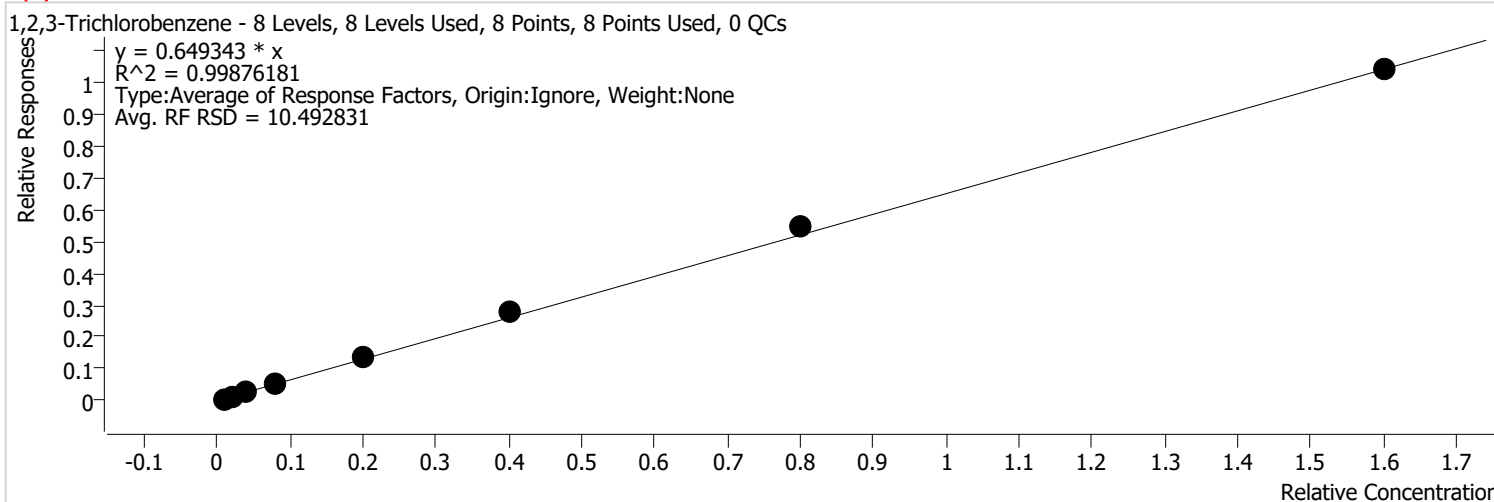


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1	x	21988	0.2000	2.0095	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	29305	0.5000	1.0928	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	57495	1.0000	1.1465	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	115428	2.0000	1.1149	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	291238	5.0000	1.1429	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	651380	10.0000	1.2764	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	1328010	20.0000	1.2466	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	2957963	40.0000	1.2224	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:13 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,2,3-Trichlorobenzene %RSE = 10.5



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1	x	7885	0.2000	0.7206	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	13632	0.5000	0.5084	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	31133	1.0000	0.6208	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	64046	2.0000	0.6186	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	177937	5.0000	0.6983	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	356168	10.0000	0.6979	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	725902	20.0000	0.6814	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	1569714	40.0000	0.6487	

VOC Soil Calibration




Date: 9/7/23
 Analyst: CC
 Instrument: GC-19

Cal	ICV
8260 Standard: <u>28806</u>	8260 Standard: <u>28805</u>

IS/Surrogate 28847

Cal Level	Spike Conc. (ppb)	Cal 8260 Spike (uL)	ICV 8260 Spike (uL)	Amount MeOH (mL)	Final Vol. (mL)	Comments
1	0.2	0.50	--	1.00	50	
2	0.5	1.25	--	1.00	50	
3	1	2.50	--	1.00	50	
4	2	5.00	--	1.00	50	
5	5	12.50	--	1.00	50	
6	10	25.00	--	1.00	50	
7	20	50.00	--	1.00	50	
8	40	100.00	--	1.00	50	
	ICV (20 ppb)	--	50.00	1.00	50	

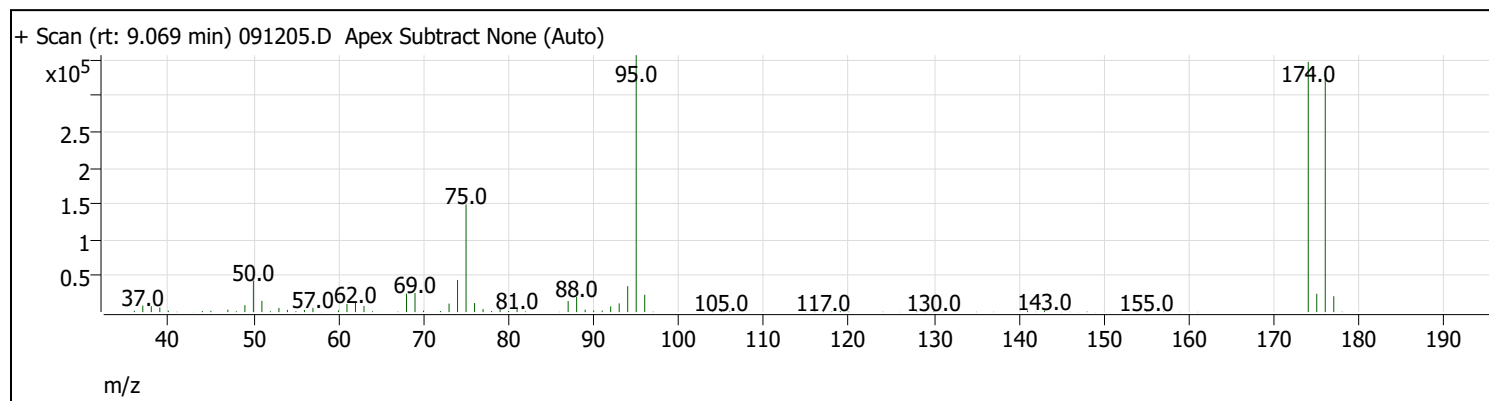
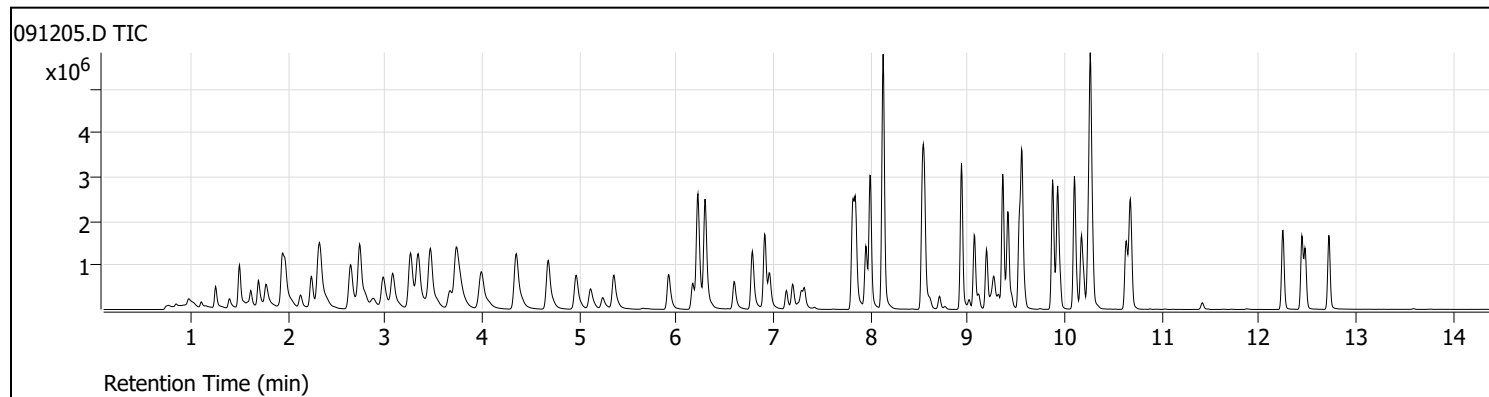
Signature and Date:  9/7/23



Tunes

Tune Evaluation Report

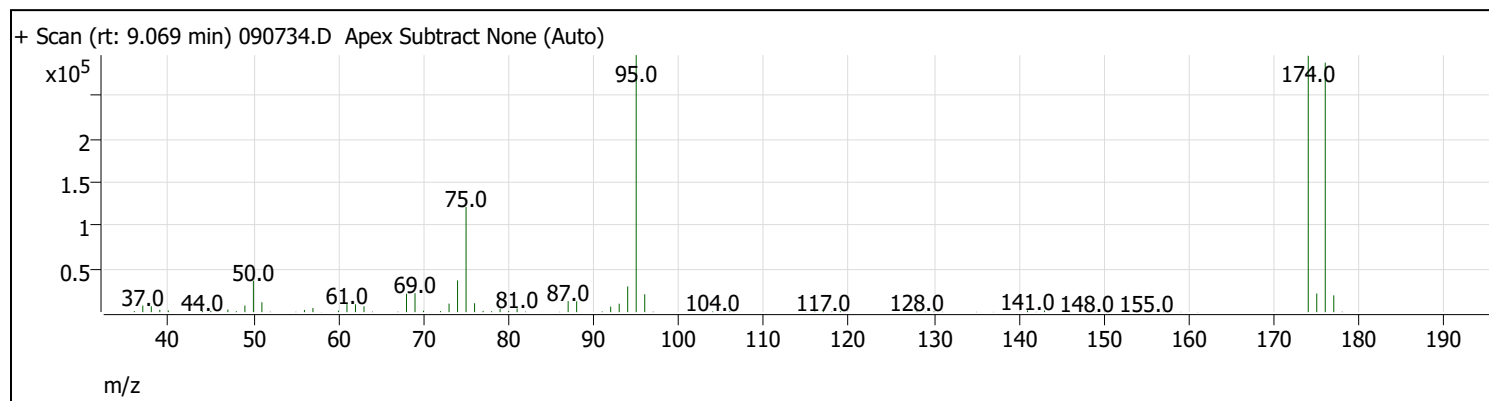
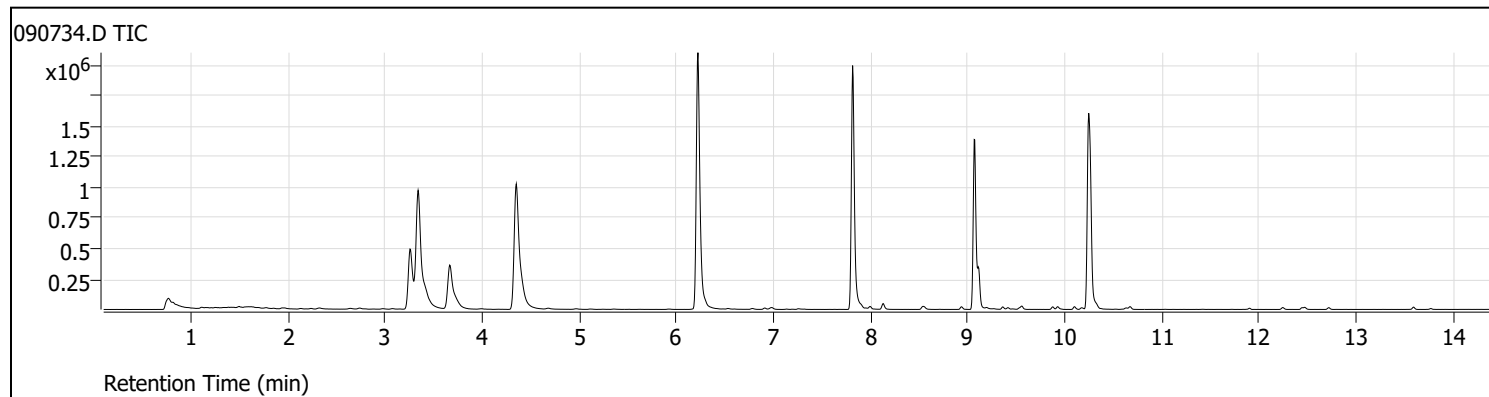
Data Path: D:\GC-19\Data\091123\091205.D
 Acq on: 9/13/2023 10:19:14 AM
 Operator: FA\GC19
 Sample: VOC S CCV BB
 Inst Name: GC19
 ALS Vial: 76
 Method: D:\MassHunter\Methods\Quant\BFB2021.m



Target Mass	Rel. To Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Pass/Fail
95	174	50	200	102.7	356281	Pass
96	95	5	9	6.8	24122	Pass
173	174	0	2	0.0	0	Pass
174	95	50	200	97.4	346964	Pass
175	174	5	9	7.3	25441	Pass
176	174	95	105	96.4	334412	Pass
177	176	5	10	6.6	22097	Pass

Tune Evaluation Report

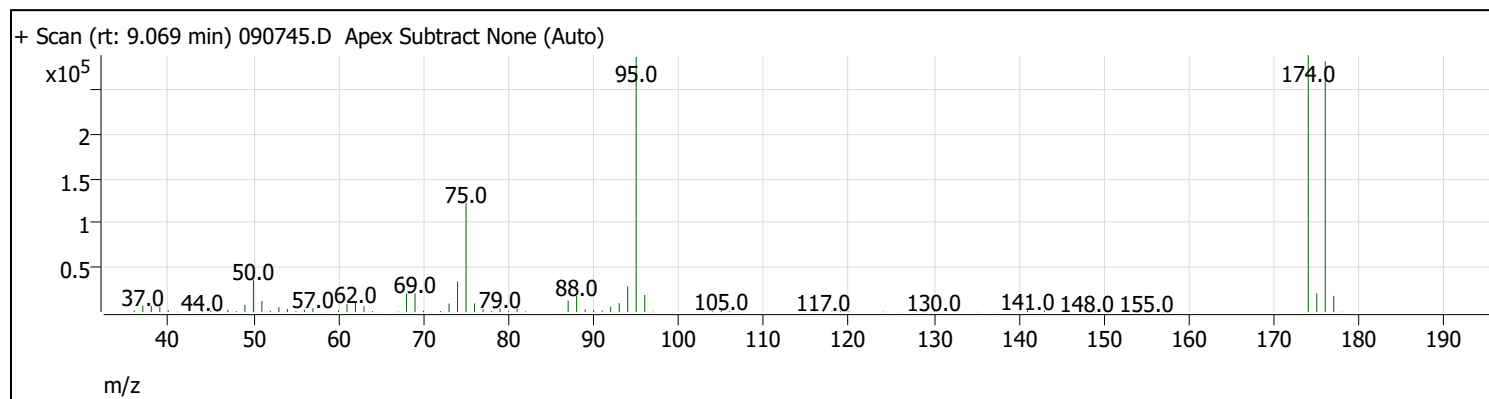
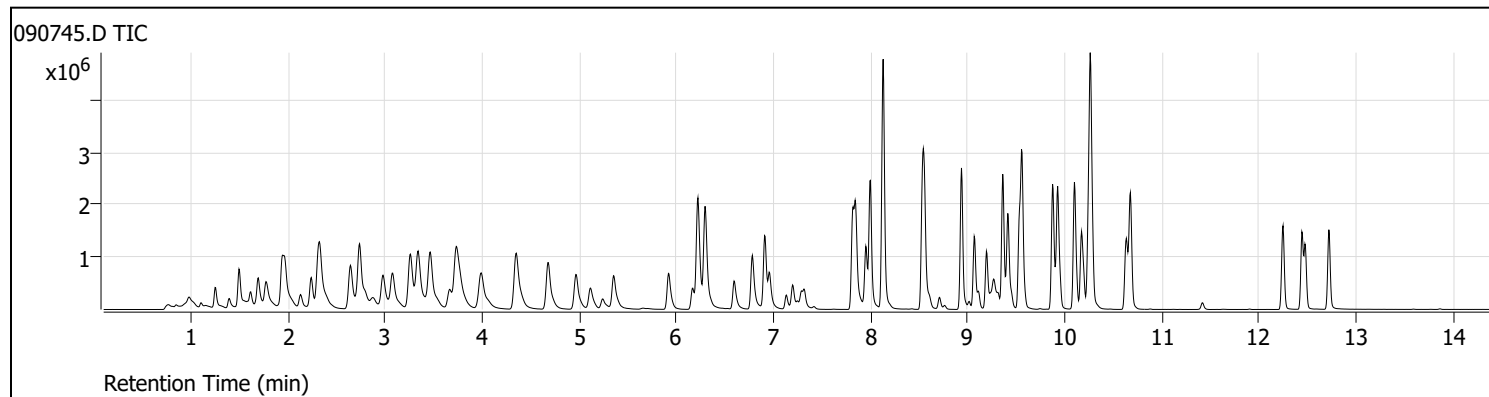
Data Path: D:\GC-19\Data\090723\090734.D
 Acq on: 9/7/2023 11:28:12 PM
 Operator: FA\GC19
 Sample: VOC S CAL 1
 Inst Name: GC19
 ALS Vial: 45
 Method: D:\MassHunter\Methods\Quant\BFB2021.m



Target Mass	Rel. To Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Pass/Fail
95	174	50	200	100.3	296624	Pass
96	95	5	9	7.0	20640	Pass
173	174	0	2	0.0	0	Pass
174	95	50	200	99.7	295880	Pass
175	174	5	9	7.3	21480	Pass
176	174	95	105	97.3	287975	Pass
177	176	5	10	6.7	19419	Pass

Tune Evaluation Report

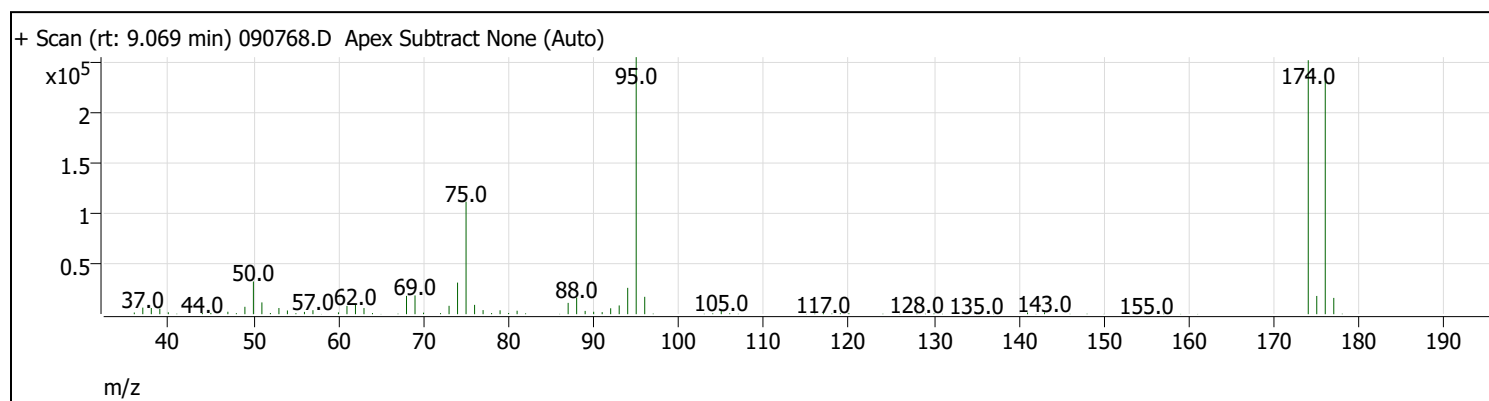
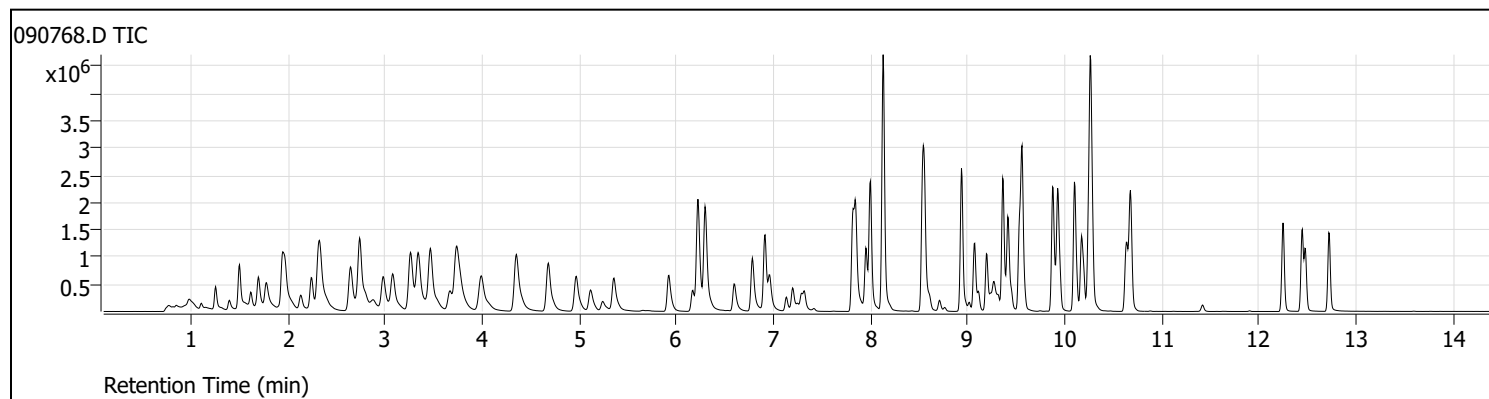
Data Path: D:\GC-19\Data\090723\090745.D
 Acq on: 9/8/2023 4:57:35 AM
 Operator: FA\GC19
 Sample: VOC S ICV
 Inst Name: GC19
 ALS Vial: 54
 Method: D:\MassHunter\Methods\Quant\BFB2021.m



Target Mass	Rel. To Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Pass/Fail
95	174	50	200	99.3	286313	Pass
96	95	5	9	6.8	19384	Pass
173	174	0	2	0.0	0	Pass
174	95	50	200	100.7	288203	Pass
175	174	5	9	7.4	21246	Pass
176	174	95	105	97.6	281158	Pass
177	176	5	10	6.5	18366	Pass

Tune Evaluation Report

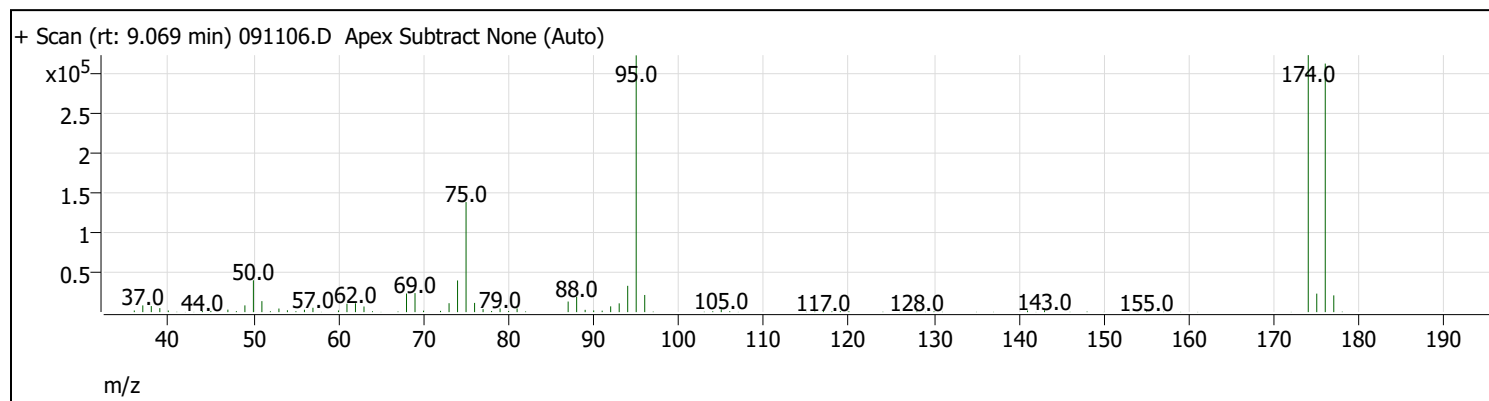
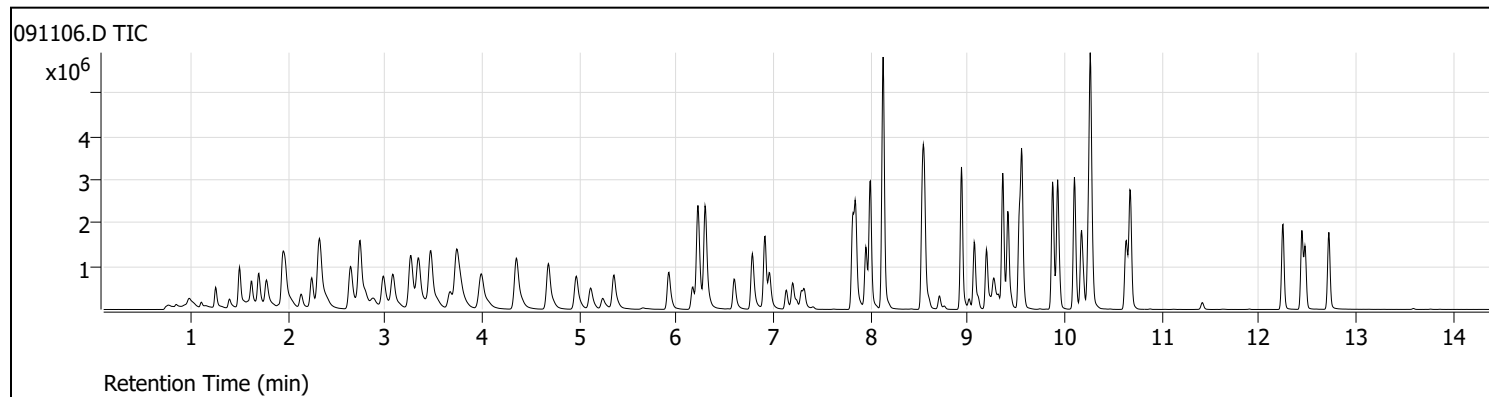
Data Path: D:\GC-19\Data\090723\090768.D
 Acq on: 9/8/2023 5:09:42 PM
 Operator: FA\GC19
 Sample: VOC S CCV A
 Inst Name: GC19
 ALS Vial: 71
 Method: D:\MassHunter\Methods\Quant\BFB2021.m



Target Mass	Rel. To Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Pass/Fail
95	174	50	200	101.2	256019	Pass
96	95	5	9	6.8	17307	Pass
173	174	0	2	0.0	0	Pass
174	95	50	200	98.8	252966	Pass
175	174	5	9	7.2	18186	Pass
176	174	95	105	95.9	242681	Pass
177	176	5	10	6.7	16227	Pass

Tune Evaluation Report

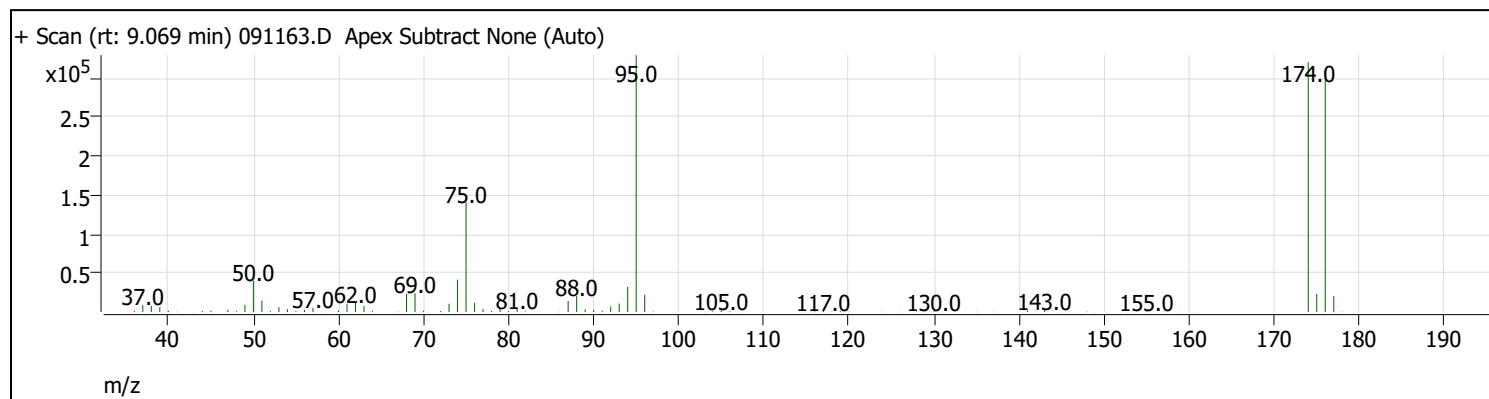
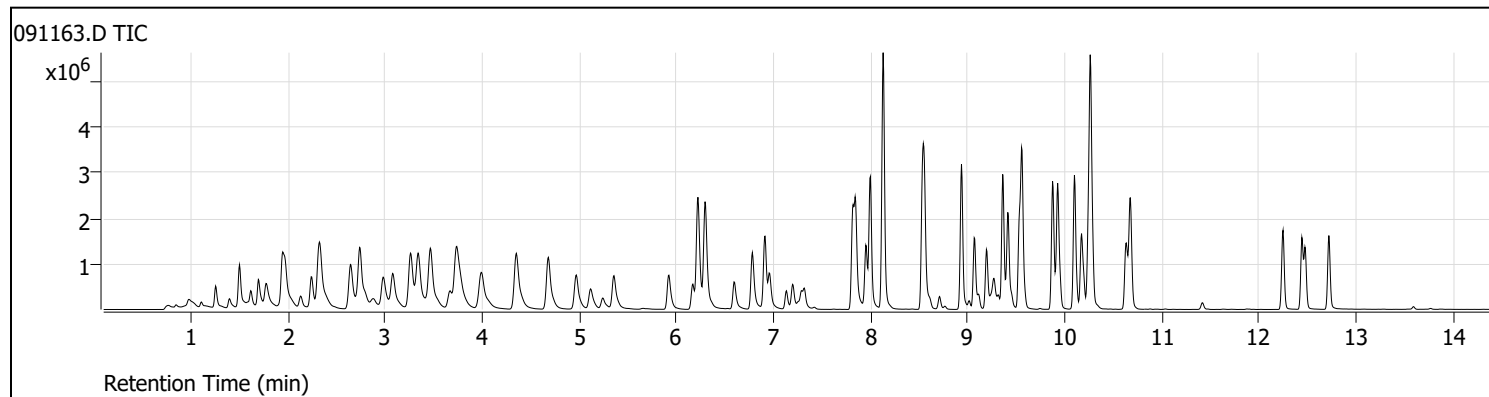
Data Path: D:\GC-19\Data\091123\091106.D
 Acq on: 9/11/2023 11:42:28 AM
 Operator: FA\GC19
 Sample: VOC S CCV B
 Inst Name: GC19
 ALS Vial: 7
 Method: D:\MassHunter\Methods\Quant\BFB2021.m



Target Mass	Rel. To Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Pass/Fail
95	174	50	200	99.9	323729	Pass
96	95	5	9	6.7	21639	Pass
173	174	0	2	0.0	0	Pass
174	95	50	200	100.1	323995	Pass
175	174	5	9	7.2	23354	Pass
176	174	95	105	96.7	313391	Pass
177	176	5	10	6.7	21136	Pass

Tune Evaluation Report

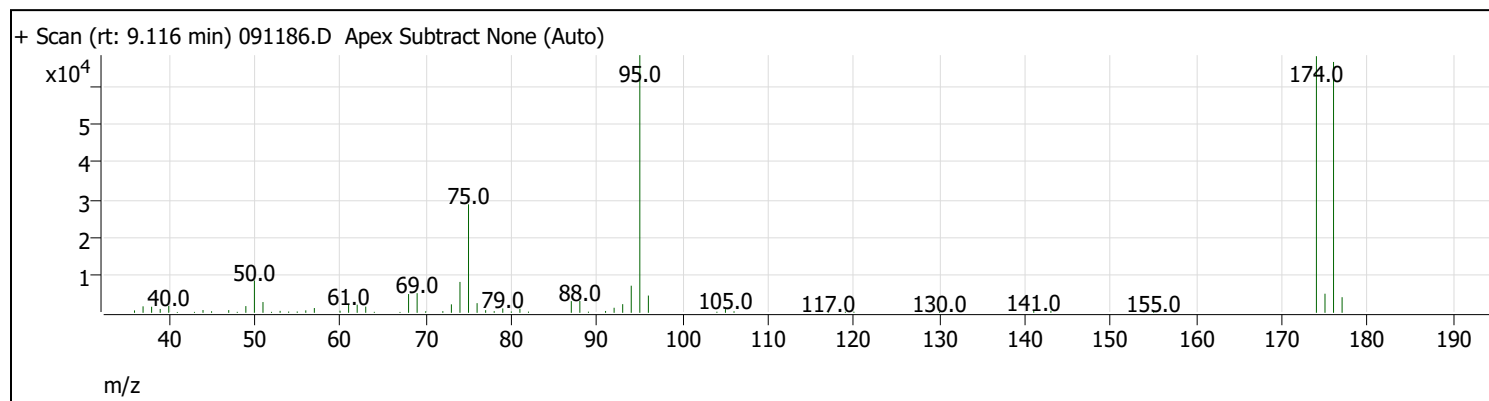
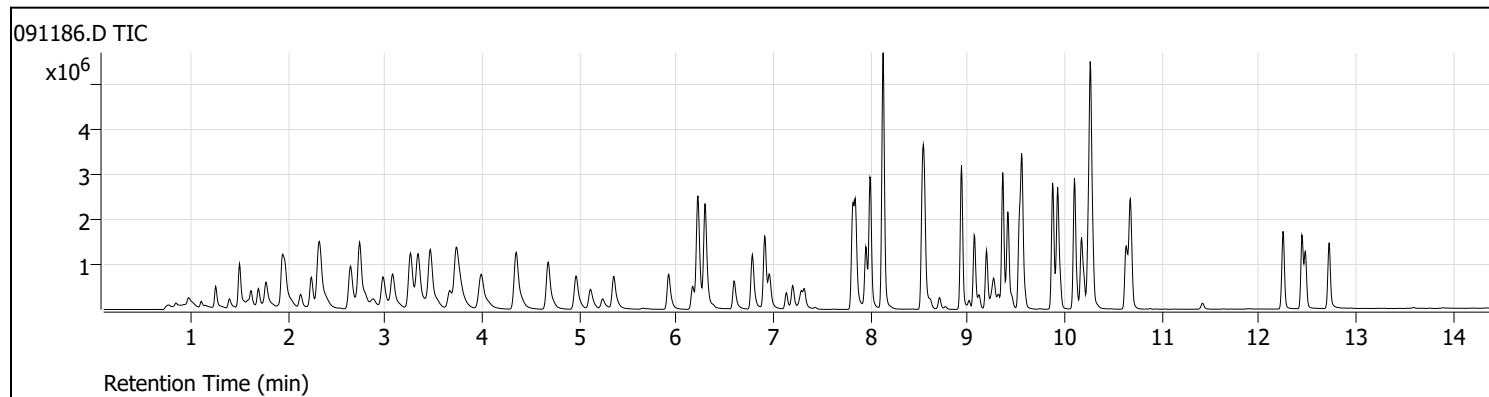
Data Path: D:\GC-19\Data\091123\091163.D
 Acq on: 9/12/2023 3:36:08 PM
 Operator: FA\GC19
 Sample: VOC S CCV E
 Inst Name: GC19
 ALS Vial: 36
 Method: D:\MassHunter\Methods\Quant\BFB2021.m



Target Mass	Rel. To Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Pass/Fail
95	174	50	200	102.8	329049	Pass
96	95	5	9	6.8	22284	Pass
173	174	0	2	0.0	0	Pass
174	95	50	200	97.2	319997	Pass
175	174	5	9	7.3	23398	Pass
176	174	95	105	97.0	310286	Pass
177	176	5	10	6.7	20808	Pass

Tune Evaluation Report

Data Path: D:\GC-19\Data\091123\091186.D
 Acq on: 9/13/2023 2:52:18 AM
 Operator: FA\GC19
 Sample: VOC S CCV AA
 Inst Name: GC19
 ALS Vial: 66
 Method: D:\MassHunter\Methods\Quant\BFB2021.m



Target Mass	Rel. To Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Pass/Fail
95	174	50	200	100.4	68236	Pass
96	95	5	9	6.7	4562	Pass
173	174	0	2	0.0	0	Pass
174	95	50	200	99.6	67956	Pass
175	174	5	9	7.4	5053	Pass
176	174	95	105	97.8	66436	Pass
177	176	5	10	6.2	4127	Pass



Internal Standards

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-19 230911A CCV Name: VOC S 86405
 Run No: 86422 CCV SeqNo: 1803635
 Lab File ID (Standard): 090740.D Date Analyzed: 9/8/2023
 Instrument ID: GC-19 Time Analyzed: 2:29
 GC Column: ID (mm): Length (M):

	IS1 FBZ AREA #	RT #	IS2 (CBZ) AREA #	RT #	IS3 (14DCBZ) AREA #	RT #		
12 HOUR STD	1591288	3.338	1622378	7.816	1331585	10.249		
UPPER LIMIT	3182576	3.838	3244756	8.316	2663170	10.749		
LOWER LIMIT	795644	2.838	811189	7.316	665793	9.749		
SAMPLE NO.								
01	CCV-41436A	1.63222e+006	3.339	1.72869e+006	7.816	1.45835e+006	10.249	
02	CCV-41436B	1.56621e+006	3.343	1.64372e+006	7.816	1.38647e+006	10.249	
03	CCV-41436C	1.70439e+006	3.344	1.82452e+006	7.816	1.51509e+006	10.249	

IS1 FBZ = Fluorobenzene

IS3 (14DCBZ) = 1,4-Dichlorobenzene-d4

IS2 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-19 230911A

CCV Name: CCV-41436A

Run No: 86422

CCV SeqNo: 1803628

Lab File ID (Standard): 090745.D

Date Analyzed: 9/8/2023

Instrument ID: GC-19

Time Analyzed: 4:57

GC Column: ID (mm):

Length (M):

	IS1 FBZ AREA #	RT #	IS2 (CBZ) AREA #	RT #	IS3 (14DCBZ) AREA #	RT #		
12 HOUR STD	1632224	3.339	1728692	7.816	1458345	10.249		
UPPER LIMIT	3264448	3.839	3457384	8.316	2916690	10.749		
LOWER LIMIT	816112	2.839	864346	7.316	729173	9.749		
SAMPLE NO.								
01	LCS-41436	1.63222e+006	3.339	1.72869e+006	7.816	1.45835e+006	10.249	
02	MB-41436	1.56165e+006	3.339	1.69859e+006	7.816	1.31752e+006	10.249	
03	2307101-036B	1.52051e+006	3.344	1.65467e+006	7.816	1.25979e+006	10.249	
04	2307101-036B	1.55025e+006	3.344	1.76211e+006	7.816	1.38086e+006	10.249	
05	2307101-036B	1.5445e+006	3.343	1.67562e+006	7.816	1.28881e+006	10.249	
06	2307101-036B	1.53003e+006	3.344	1.67812e+006	7.816	1.31753e+006	10.249	
07	2307101-036B	1.51402e+006	3.344	1.70662e+006	7.816	1.35028e+006	10.249	

IS1 FBZ = Fluorobenzene

IS3 (14DCBZ) = 1,4-Dichlorobenzene-d4

IS2 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-19 230911A

CCV Name: CCV-41436B

Run No: 86422

CCV SeqNo: 1803627

Lab File ID (Standard): 090768.D

Date Analyzed: 9/8/2023

Instrument ID: GC-19

Time Analyzed: 17:09

GC Column: ID (mm):

Length (M):

	IS1 FBZ AREA #	RT #	IS2 (CBZ) AREA #	RT #	IS3 (14DCBZ) AREA #	RT #		
12 HOUR STD	1566206	3.343	1643723	7.816	1386470	10.249		
UPPER LIMIT	3132412	3.843	3287446	8.316	2772940	10.749		
LOWER LIMIT	783103	2.843	821862	7.316	693235	9.749		
SAMPLE NO.								
01 2309081-014A	1.56091e+006	3.344	1.72285e+006	7.816	1.29783e+006	10.249		
02 2309081-001B	1.53259e+006	3.344	1.71934e+006	7.816	1.34149e+006	10.249		
03 2309081-002B	1.54294e+006	3.344	1.77222e+006	7.816	1.35499e+006	10.249		
04 2309081-002BDUP	1.55293e+006	3.344	1.78034e+006	7.816	1.37196e+006	10.249		
05 2309081-004B	1.57039e+006	3.344	1.74436e+006	7.816	1.28971e+006	10.249		
06 2309081-006B	1.53533e+006	3.344	1.71024e+006	7.816	1.28497e+006	10.249		
07 2309081-007B	1.52165e+006	3.344	1.71038e+006	7.816	1.31335e+006	10.249		
08 2309081-009B	1.58131e+006	3.344	1.67562e+006	7.816	1.25976e+006	10.249		
09 2309081-010B	1.60399e+006	3.344	1.74633e+006	7.816	1.36234e+006	10.249		
10 2309081-011B	1.53357e+006	3.344	1.74681e+006	7.816	1.34883e+006	10.249		
11 2309081-013B	1.70614e+006	3.365	1.84113e+006	7.827	1.40702e+006	10.254		
12 2309081-004BMS	1.76261e+006	3.344	1.90191e+006	7.816	1.4966e+006	10.249		

IS1 FBZ = Fluorobenzene

IS3 (14DCBZ) = 1,4-Dichlorobenzene-d4

IS2 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-19 230911A CCV Name: CCV-41436C
 Run No: 86422 CCV SeqNo: 1803909
 Lab File ID (Standard): 091106.D Date Analyzed: 9/11/2023
 Instrument ID: GC-19 Time Analyzed: 11:42
 GC Column: ID (mm): Length (M):

	IS1 FBZ AREA #	RT #	IS2 (CBZ) AREA #	RT #	IS3 (14DCBZ) AREA #	RT #		
12 HOUR STD	1704393	3.344	1824515	7.816	1515092	10.249		
UPPER LIMIT	3408786	3.844	3649030	8.316	3030184	10.749		
LOWER LIMIT	852197	2.844	912258	7.316	757546	9.749		
SAMPLE NO.								
01 2309081-010B	1.74282e+006	3.344	1.9097e+006	7.821	1.41418e+006	10.249		
02 2309081-009B	1.68827e+006	3.354	1.89023e+006	7.821	1.37195e+006	10.244		
03 2309081-013B	1.74129e+006	3.359	1.95516e+006	7.821	1.44428e+006	10.244		

IS1 FBZ = Fluorobenzene
 IS2 (CBZ) = Chlorobenzene-d5

IS3 (14DCBZ) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = -50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-19 230913B CCV Name: VOC S 86405
 Run No: 86478 CCV SeqNo: 1804717
 Lab File ID (Standard): 090740.D Date Analyzed: 9/8/2023
 Instrument ID: GC-19 Time Analyzed: 2:29
 GC Column: ID (mm): Length (M):

	IS1 FBZ AREA #	RT #	IS2 (CBZ) AREA #	RT #	IS3 (14DCBZ) AREA #	RT #		
12 HOUR STD	1591288	3.338	1622378	7.816	1331585	10.249		
UPPER LIMIT	3182576	3.838	3244756	8.316	2663170	10.749		
LOWER LIMIT	795644	2.838	811189	7.316	665793	9.749		
SAMPLE NO.								
01	CCV-41458A	1.73287e+006	3.344	1.91411e+006	7.816	1.57225e+006	10.249	
02	CCV-41458B	1.7321e+006	3.339	1.94059e+006	7.816	1.61944e+006	10.249	
03	CCV-41458C	1.78915e+006	3.338	2.03707e+006	7.816	1.67025e+006	10.249	

IS1 FBZ = Fluorobenzene
 IS2 (CBZ) = Chlorobenzene-d5

IS3 (14DCBZ) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = -50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-19 230913B CCV Name: CCV-41458A
 Run No: 86478 CCV SeqNo: 1804715
 Lab File ID (Standard): 091163.D Date Analyzed: 9/12/2023
 Instrument ID: GC-19 Time Analyzed: 15:36
 GC Column: ID (mm): Length (M):

	IS1 FBZ AREA #	RT #	IS2 (CBZ) AREA #	RT #	IS3 (14DCBZ) AREA #	RT #		
12 HOUR STD	1732868	3.344	1914114	7.816	1572248	10.249		
UPPER LIMIT	3465736	3.844	3828228	8.316	3144496	10.749		
LOWER LIMIT	866434	2.844	957057	7.316	786124	9.749		
SAMPLE NO.								
01 LCS-41458	1.73287e+006	3.344	1.91411e+006	7.816	1.57225e+006	10.249		
02 MB-41458	1.67106e+006	3.339	1.92456e+006	7.816	1.48711e+006	10.249		
03 2309107-001B	1.63947e+006	3.344	1.89288e+006	7.816	1.44887e+006	10.249		
04 2309107-002B	1.68432e+006	3.343	1.93878e+006	7.816	1.44787e+006	10.249		
05 2309081-012B	1.71003e+006	3.344	1.98204e+006	7.816	1.48945e+006	10.249		
06 2309081-012BDUP	1.69541e+006	3.344	1.99809e+006	7.816	1.53838e+006	10.249		
07 2309099-001B	1.69301e+006	3.344	1.98856e+006	7.821	1.50779e+006	10.249		
08 2309099-002B	1.66747e+006	3.344	1.89645e+006	7.816	1.40437e+006	10.249		
09 2309081-008B	1.66267e+006	3.354	2.04178e+006	7.821	1.54609e+006	10.244		
10 2309099-001BMS	1.7443e+006	3.344	1.9608e+006	7.816	1.60361e+006	10.249		

IS1 FBZ = Fluorobenzene

IS3 (14DCBZ) = 1,4-Dichlorobenzene-d4

IS2 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-19 230913B CCV Name: CCV-41458B
 Run No: 86478 CCV SeqNo: 1804713
 Lab File ID (Standard): 091186.D Date Analyzed: 9/13/2023
 Instrument ID: GC-19 Time Analyzed: 2:52
 GC Column: ID (mm): Length (M):

	IS1 FBZ AREA #	RT #	IS2 (CBZ) AREA #	RT #	IS3 (14DCBZ) AREA #	RT #		
12 HOUR STD	1732099	3.339	1940586	7.816	1619444	10.249		
UPPER LIMIT	3464198	3.839	3881172	8.316	3238888	10.749		
LOWER LIMIT	866050	2.839	970293	7.316	809722	9.749		
SAMPLE NO.								
01 2309081-008B	1.7342e+006	3.344	2.04248e+006	7.816	1.50584e+006	10.249		

IS1 FBZ = Fluorobenzene

IS3 (14DCBZ) = 1,4-Dichlorobenzene-d4

IS2 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-19 230913B CCV Name: CCV-41458C
 Run No: 86478 CCV SeqNo: 1804714
 Lab File ID (Standard): 091205.D Date Analyzed: 9/13/2023
 Instrument ID: GC-19 Time Analyzed: 10:19
 GC Column: ID (mm): Length (M):

	IS1 FBZ AREA #	RT #	IS2 (CBZ) AREA #	RT #	IS3 (14DCBZ) AREA #	RT #		
12 HOUR STD	1789154	3.338	2037067	7.816	1670252	10.249		
UPPER LIMIT	3578308	3.838	4074134	8.316	3340504	10.749		
LOWER LIMIT	894577	2.838	1018534	7.316	835126	9.749		
SAMPLE NO.								
01 2309060-001B	1.61407e+006	3.359	1.9123e+006	7.821	1.42733e+006	10.244		
02 2309123-001B	1.6405e+006	3.344	1.97396e+006	7.816	1.4891e+006	10.249		

IS1 FBZ = Fluorobenzene

IS3 (14DCBZ) = 1,4-Dichlorobenzene-d4

IS2 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.



3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

GeoEngineers

Robert Trahan
2101 4th Ave, Suite 950
Seattle, WA 98121

RE: 701 S Jackson
Work Order Number: 2309096

September 12, 2023

Attention Robert Trahan:

Fremont Analytical, Inc. received 2 sample(s) on 9/11/2023 for the analyses presented in the following report.

Gasoline by NWTPH-Gx
Sample Moisture (Percent Moisture)
Volatile Organic Compounds by EPA Method 8260D

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager

DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.3 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910

Original

www.fremontanalytical.com

CLIENT: GeoEngineers
Project: 701 S Jackson
Work Order: 2309096

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2309096-001	R3-B13-79	09/11/2023 9:00 AM	09/11/2023 2:47 PM
2309096-002	R3-B14-79	09/11/2023 9:10 AM	09/11/2023 2:47 PM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: GeoEngineers

Project: 701 S Jackson

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Analytical Report

Work Order: 2309096
Date Reported: 9/12/2023

Client: GeoEngineers

Collection Date: 9/11/2023 9:00:00 AM

Project: 701 S Jackson

Lab ID: 2309096-001

Matrix: Soil

Client Sample ID: R3-B13-79

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Gasoline by NWTPH-Gx

Batch ID: 41443 Analyst: CC

Gasoline Range Organics	17.8	5.48		mg/Kg-dry	1	9/12/2023 2:06:50 PM
Surr: Toluene-d8	97.6	65 - 135		%Rec	1	9/12/2023 2:06:50 PM
Surr: 4-Bromofluorobenzene	101	65 - 135		%Rec	1	9/12/2023 2:06:50 PM

Volatile Organic Compounds by EPA Method 8260D

Batch ID: 41443 Analyst: CC

Benzene	0.901	0.0192		mg/Kg-dry	1	9/12/2023 2:06:50 PM
Toluene	0.629	0.0329		mg/Kg-dry	1	9/12/2023 2:06:50 PM
Ethylbenzene	0.612	0.0274		mg/Kg-dry	1	9/12/2023 2:06:50 PM
m,p-Xylene	1.65	0.0548		mg/Kg-dry	1	9/12/2023 2:06:50 PM
o-Xylene	0.829	0.0274		mg/Kg-dry	1	9/12/2023 2:06:50 PM
Surr: Dibromofluoromethane	97.8	74.2 - 129		%Rec	1	9/12/2023 2:06:50 PM
Surr: Toluene-d8	105	72 - 135		%Rec	1	9/12/2023 2:06:50 PM
Surr: 1-Bromo-4-fluorobenzene	111	51 - 150		%Rec	1	9/12/2023 2:06:50 PM

Sample Moisture (Percent Moisture)

Batch ID: R86443 Analyst: MP

Percent Moisture	23.5	0.500		wt%	1	9/12/2023 8:13:25 AM
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Analytical Report

Work Order: 2309096
Date Reported: 9/12/2023

Client: GeoEngineers

Collection Date: 9/11/2023 9:10:00 AM

Project: 701 S Jackson

Lab ID: 2309096-002

Matrix: Soil

Client Sample ID: R3-B14-79

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Gasoline by NWTPH-Gx

Batch ID: 41443 Analyst: CC

Gasoline Range Organics	10.2	4.65		mg/Kg-dry	1	9/12/2023 12:37:26 PM
Surr: Toluene-d8	99.0	65 - 135		%Rec	1	9/12/2023 12:37:26 PM
Surr: 4-Bromofluorobenzene	99.9	65 - 135		%Rec	1	9/12/2023 12:37:26 PM

Volatile Organic Compounds by EPA Method 8260D

Batch ID: 41443 Analyst: CC

Benzene	0.341	0.0163		mg/Kg-dry	1	9/12/2023 12:37:26 PM
Toluene	0.0411	0.0279		mg/Kg-dry	1	9/12/2023 12:37:26 PM
Ethylbenzene	0.185	0.0232		mg/Kg-dry	1	9/12/2023 12:37:26 PM
m,p-Xylene	0.791	0.0465		mg/Kg-dry	1	9/12/2023 12:37:26 PM
o-Xylene	0.841	0.0232		mg/Kg-dry	1	9/12/2023 12:37:26 PM
Surr: Dibromofluoromethane	100	74.2 - 129		%Rec	1	9/12/2023 12:37:26 PM
Surr: Toluene-d8	105	72 - 135		%Rec	1	9/12/2023 12:37:26 PM
Surr: 1-Bromo-4-fluorobenzene	110	51 - 150		%Rec	1	9/12/2023 12:37:26 PM

Sample Moisture (Percent Moisture)

Batch ID: R86443 Analyst: MP

Percent Moisture	19.2	0.500		wt%	1	9/12/2023 8:13:25 AM
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Work Order: 2309096
CLIENT: GeoEngineers
Project: 701 S Jackson

QC SUMMARY REPORT

Gasoline by NWTPH-Gx

Sample ID: GX ICB	SampType: ICB	Units: µg/L	Prep Date: 9/6/2023	RunNo: 86333							
Client ID: ICB	Batch ID: 41443		Analysis Date: 9/6/2023	SeqNo: 1801853							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline Range Organics	ND	50.0									
Surr: Toluene-d8	24.7		25.00		98.9	65	135				
Surr: 4-Bromofluorobenzene	25.4		25.00		102	65	135				

Sample ID: GX ICV	SampType: ICV	Units: µg/L	Prep Date: 9/6/2023	RunNo: 86333							
Client ID: ICV	Batch ID: 41443		Analysis Date: 9/6/2023	SeqNo: 1801854							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline Range Organics	510	50.0	500.0	0	102	80	120				
Surr: Toluene-d8	25.4		25.00		102	65	135				
Surr: 4-Bromofluorobenzene	24.3		25.00		97.1	65	135				

Sample ID: CCV-41443A	SampType: CCV	Units: mg/Kg	Prep Date: 9/11/2023	RunNo: 86461							
Client ID: CCV	Batch ID: 41443		Analysis Date: 9/11/2023	SeqNo: 1804459							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline Range Organics	485	5.00	500.0	0	96.9	80	120				
Surr: Toluene-d8	24.9		25.00		99.8	65	135				
Surr: 4-Bromofluorobenzene	25.0		25.00		99.9	65	135				

Sample ID: LCS-41443	SampType: CCV	Units: mg/Kg	Prep Date: 9/11/2023	RunNo: 86461							
Client ID: CCV	Batch ID: 41443		Analysis Date: 9/11/2023	SeqNo: 1804465							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline Range Organics	485	5.00	500.0	0	96.9	80	120				
Surr: Toluene-d8	24.9		25.00		99.8	65	135				
Surr: 4-Bromofluorobenzene	25.0		25.00		99.9	65	135				

Work Order: 2309096
CLIENT: GeoEngineers
Project: 701 S Jackson

QC SUMMARY REPORT
Gasoline by NWTPH-Gx

Sample ID: MB-41443	SampType: MBLK	Units: mg/Kg	Prep Date: 9/11/2023	RunNo: 86461							
Client ID: MBLKS	Batch ID: 41443		Analysis Date: 9/11/2023	SeqNo: 1804464							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	ND	5.00									
Surr: Toluene-d8	1.23		1.250		98.1	65	135				
Surr: 4-Bromofluorobenzene	1.25		1.250		99.7	65	135				

Sample ID: 2309051-017BDUP	SampType: DUP	Units: mg/Kg-dry	Prep Date: 9/11/2023	RunNo: 86461							
Client ID: BATCH	Batch ID: 41443		Analysis Date: 9/11/2023	SeqNo: 1804441							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	ND	5.68						0		30	
Surr: Toluene-d8	1.36		1.421		95.4	65	135		0		
Surr: 4-Bromofluorobenzene	1.45		1.421		102	65	135		0		

Sample ID: 2309085-001BDUP	SampType: DUP	Units: mg/Kg-dry	Prep Date: 9/11/2023	RunNo: 86461							
Client ID: BATCH	Batch ID: 41443		Analysis Date: 9/11/2023	SeqNo: 1804448							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	ND	3.81						0		30	
Surr: Toluene-d8	0.961		0.9513		101	65	135		0		
Surr: 4-Bromofluorobenzene	0.942		0.9513		99.0	65	135		0		

Sample ID: 2309051-018BMS	SampType: MS	Units: mg/Kg-dry	Prep Date: 9/11/2023	RunNo: 86461							
Client ID: BATCH	Batch ID: 41443		Analysis Date: 9/12/2023	SeqNo: 1804443							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	557	5.32	26.60	551.7	20.3	65	135				ES
Surr: Toluene-d8	1.35		1.330		101	65	135				
Surr: 4-Bromofluorobenzene	1.33		1.330		99.6	65	135				

Work Order: 2309096
CLIENT: GeoEngineers
Project: 701 S Jackson

QC SUMMARY REPORT
Gasoline by NWTPH-Gx

Sample ID: CCV-41443B		SampType: CCV		Units: mg/Kg		Prep Date: 9/12/2023		RunNo: 86461			
Client ID: CCV		Batch ID: 41443				Analysis Date: 9/12/2023		SeqNo: 1804460			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	469	5.00	500.0	0	93.7	80	120				
Surr: Toluene-d8	24.4		25.00		97.5	65	135				
Surr: 4-Bromofluorobenzene	24.8		25.00		99.3	65	135				

Sample ID: CCV-41443C		SampType: CCV		Units: mg/Kg		Prep Date: 9/12/2023		RunNo: 86461			
Client ID: CCV		Batch ID: 41443				Analysis Date: 9/12/2023		SeqNo: 1804461			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	466	5.00	500.0	0	93.2	80	120				
Surr: Toluene-d8	24.9		25.00		99.5	65	135				
Surr: 4-Bromofluorobenzene	24.3		25.00		97.4	65	135				

Work Order: 2309096
 CLIENT: GeoEngineers
 Project: 701 S Jackson

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: VOC S ICB	SampType: ICB	Units: µg/L			Prep Date: 9/8/2023	RunNo: 86405					
Client ID: ICB	Batch ID: 41443				Analysis Date: 9/8/2023	SeqNo: 1803321					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.0175									
Toluene	0.0366	0.0300									
Ethylbenzene	0.0644	0.0250									
m,p-Xylene	0.107	0.0500									
o-Xylene	0.0257	0.0250									
Surr: Dibromofluoromethane	25.3		25.00		101	80	120				
Surr: Toluene-d8	25.2		25.00		101	80	120				
Surr: 1-Bromo-4-fluorobenzene	27.5		25.00		110	80	120				

Sample ID: VOC S ICV	SampType: ICV	Units: µg/L			Prep Date: 9/8/2023	RunNo: 86405					
Client ID: ICV	Batch ID: 41443				Analysis Date: 9/8/2023	SeqNo: 1803322					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	19.5	0.0175	20.00	0	97.7	70	130				
Toluene	19.3	0.0300	20.00	0	96.5	70	130				
Ethylbenzene	18.6	0.0250	20.00	0	93.1	70	130				
m,p-Xylene	37.7	0.0500	40.00	0	94.1	70	130				
o-Xylene	19.3	0.0250	20.00	0	96.4	70	130				
Surr: Dibromofluoromethane	24.7		25.00		98.9	80	120				
Surr: Toluene-d8	24.9		25.00		99.5	80	120				
Surr: 1-Bromo-4-fluorobenzene	27.2		25.00		109	80	120				

Sample ID: CCV-41443A	SampType: CCV	Units: µg/L			Prep Date: 9/11/2023	RunNo: 86462					
Client ID: CCV	Batch ID: 41443				Analysis Date: 9/11/2023	SeqNo: 1804410					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	21.3	0.0175	20.00	0	106	80	120				
Toluene	21.3	0.0300	20.00	0	107	80	120				
Ethylbenzene	20.0	0.0250	20.00	0	99.8	80	120				
m,p-Xylene	40.9	0.0500	40.00	0	102	80	120				
o-Xylene	20.8	0.0250	20.00	0	104	80	120				

Work Order: 2309096
CLIENT: GeoEngineers
Project: 701 S Jackson

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: CCV-41443A		SampType: CCV		Units: µg/L		Prep Date: 9/11/2023		RunNo: 86462			
Client ID: CCV		Batch ID: 41443				Analysis Date: 9/11/2023		SeqNo: 1804410			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	24.5		25.00		97.9	80	120				
Surr: Toluene-d8	25.9		25.00		104	80	120				
Surr: 1-Bromo-4-fluorobenzene	28.4		25.00		114	80	120				

Sample ID: LCS-41443		SampType: LCS		Units: µg/L		Prep Date: 9/11/2023		RunNo: 86462			
Client ID: LCSS		Batch ID: 41443				Analysis Date: 9/11/2023		SeqNo: 1804412			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	1.06	0.0175	1.000	0	106	80	120				
Toluene	1.07	0.0300	1.000	0	107	80	120				
Ethylbenzene	0.998	0.0250	1.000	0	99.8	80	120				
m,p-Xylene	2.04	0.0500	2.000	0	102	80	120				
o-Xylene	1.04	0.0250	1.000	0	104	80	120				
Surr: Dibromofluoromethane	1.22		1.250		97.9	74.2	129				
Surr: Toluene-d8	1.30		1.250		104	72	135				
Surr: 1-Bromo-4-fluorobenzene	1.42		1.250		114	51	150				

Sample ID: MB-41443		SampType: MBLK		Units: mg/Kg		Prep Date: 9/11/2023		RunNo: 86462			
Client ID: MBLKS		Batch ID: 41443				Analysis Date: 9/11/2023		SeqNo: 1804409			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.0175									
Toluene	ND	0.0300									
Ethylbenzene	ND	0.0250									
m,p-Xylene	ND	0.0500									
o-Xylene	ND	0.0250									
Surr: Dibromofluoromethane	1.24		1.250		99.0	79.5	124				
Surr: Toluene-d8	1.30		1.250		104	77.5	124				
Surr: 1-Bromo-4-fluorobenzene	1.38		1.250		110	60.5	139				

Work Order: 2309096
CLIENT: GeoEngineers
Project: 701 S Jackson

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260D

Sample ID: 2309051-017BDUP		SampType: DUP		Units: mg/Kg-dry		Prep Date: 9/11/2023		RunNo: 86462			
Client ID: BATCH		Batch ID: 41443				Analysis Date: 9/11/2023		SeqNo: 1804390			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.0199						0		30	
Toluene	ND	0.0341						0		30	
Ethylbenzene	ND	0.0284						0		30	
m,p-Xylene	ND	0.0568						0		30	
o-Xylene	ND	0.0284						0		30	
Surr: Dibromofluoromethane	1.46		1.421		103	74.2	129		0		
Surr: Toluene-d8	1.48		1.421		104	72	135		0		
Surr: 1-Bromo-4-fluorobenzene	1.60		1.421		113	51	150		0		

Sample ID: 2309085-001BDUP		SampType: DUP		Units: mg/Kg-dry		Prep Date: 9/11/2023		RunNo: 86462			
Client ID: BATCH		Batch ID: 41443				Analysis Date: 9/11/2023		SeqNo: 1804396			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.0133						0		30	
Toluene	ND	0.0228						0		30	
Ethylbenzene	ND	0.0190						0		30	
m,p-Xylene	ND	0.0381						0		30	
o-Xylene	ND	0.0190						0		30	
Surr: Dibromofluoromethane	0.974		0.9513		102	74.2	129		0		
Surr: Toluene-d8	0.991		0.9513		104	72	135		0		
Surr: 1-Bromo-4-fluorobenzene	1.04		0.9513		109	51	150		0		

Sample ID: 2309051-013BMS		SampType: MS		Units: mg/Kg-dry		Prep Date: 9/11/2023		RunNo: 86462			
Client ID: BATCH		Batch ID: 41443				Analysis Date: 9/12/2023		SeqNo: 1804388			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	1.12	0.0227	1.296	0	86.2	52.3	147				
Toluene	1.11	0.0389	1.296	0	85.7	50.1	147				
Ethylbenzene	1.03	0.0324	1.296	0	79.6	51.7	143				
m,p-Xylene	2.08	0.0648	2.591	0	80.2	54.5	144				
o-Xylene	1.12	0.0324	1.296	0	86.1	57.1	141				

Work Order: 2309096
CLIENT: GeoEngineers
Project: 701 S Jackson

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: 2309051-013BMS	SampType: MS	Units: mg/Kg-dry			Prep Date: 9/11/2023	RunNo: 86462					
Client ID: BATCH	Batch ID: 41443				Analysis Date: 9/12/2023	SeqNo: 1804388					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	1.62		1.620		100	74.2	129				
Surr: Toluene-d8	1.66		1.620		103	72	135				
Surr: 1-Bromo-4-fluorobenzene	1.78		1.620		110	51	150				

Sample ID: CCV-41443B	SampType: CCV	Units: µg/L			Prep Date: 9/12/2023	RunNo: 86462					
Client ID: CCV	Batch ID: 41443				Analysis Date: 9/12/2023	SeqNo: 1804411					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	20.6	0.0175	20.00	0	103	80	120				
Toluene	20.8	0.0300	20.00	0	104	80	120				
Ethylbenzene	19.9	0.0250	20.00	0	99.5	80	120				
m,p-Xylene	39.5	0.0500	40.00	0	98.7	80	120				
o-Xylene	20.3	0.0250	20.00	0	101	80	120				
Surr: Dibromofluoromethane	24.9		25.00		99.6	80	120				
Surr: Toluene-d8	25.6		25.00		102	80	120				
Surr: 1-Bromo-4-fluorobenzene	26.7		25.00		107	80	120				

Client Name: GEI	Work Order Number: 2309096
Logged by: Lyann Rivera	Date Received: 9/11/2023 2:47:00 PM

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
2. How was the sample delivered? Client

Log In

3. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes No Not Present
4. Was an attempt made to cool the samples? Yes No NA
5. Were all items received at a temperature of >2°C to 6°C * Yes No NA
6. Sample(s) in proper container(s)? Yes No
7. Sufficient sample volume for indicated test(s)? Yes No
8. Are samples properly preserved? Yes No
9. Was preservative added to bottles? Yes No NA
10. Is there headspace in the VOA vials? Yes No NA
11. Did all samples containers arrive in good condition(unbroken)? Yes No
12. Does paperwork match bottle labels? Yes No
13. Are matrices correctly identified on Chain of Custody? Yes No
14. Is it clear what analyses were requested? Yes No
15. Were all holding times able to be met? Yes No

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

17. Additional remarks:

Item Information

Item #	Temp °C
sample	5.8

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C



3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790

Chain of Custody Record & Laboratory Services Agreement

Date: 9/11/23 Page: 1 of 1

Project Name: 24501-001-03

Project No: 701 South Jackson

Collected by: Robert Tahan

Location: Seattle

Report To (PM): Robert Tahan

Laboratory Project No (Internal): 2309096

Special Remarks:

Level 2 RB

Disposal: Samples will be disposed in 30 days unless otherwise requested.
 Retain volume (specify above) Return to client

Client: GeoEngineers
 Address:
 City, State, Zip:
 Telephone:
 Email(s): rstan@geoengineers.com

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	# of Cont.	Analytes												Comments		
					VOCs (EPA 8260 / 624)	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCD)	Diesel/Heavy Oil Range Organics (HCO)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T) Dissolved (D)	Anions (IC)**	EDB (8011)			
1 R3-B13-79	9/11	9:00	S	3	X	X													
2 R3-B14-79	9/11	9:10	S	3	X	X													
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SI = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water
 **Metals (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Tl Ti V Zn
 ***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate-Nitrite

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Turn-around Time:
 Standard Next Day Same Day
 2 Day (specify)

Relinquished (Signature) x *[Signature]* Print Name: Robert Tahan Date/Time: 9/11/23 14:47
 Received (Signature) x *[Signature]* Print Name: Anne Riles Date/Time: 9/11/23 14:47

DATA SET for Review - Deliverable Requirements

Gasoline by NWTPH-Gx

Fremont Analytical Work Order No. 2309096

GeoEngineers

Project Name: 701 South Jackson

Project Number: 24504-001-03

This data set contains the following:

- Analytical Sequence Summary
- Calibration Information
- Tune Information
- Internal Standards Report

SampleName	MiscInfo	Vial	Multiplier	Injection Time
R 1) 090501.D	8260.M O-VOC-W		1.000	05 Sep 2023 08:41
2) 090502.D	8260.M O-VOC-GX-W	1	1.000	05 Sep 2023 09:11
1122 3) 090503.D	8260.M O-VOC-GX-W	2	1.000	05 Sep 2023 09:41
R 4) 090504.D	8260.M O-VOC-GX-W		1.000	05 Sep 2023 10:10
R 5) 090505.D	8260.M O-VOC-GX-S		1.000	05 Sep 2023 10:39
R 6) 090506.D	8260.M O-VOC-W		1.000	05 Sep 2023 11:08
VOC W CAL 1 7) 090507.D	8260.M O-VOC-W	3	1.000	05 Sep 2023 11:38
VOC W CAL 2 8) 090508.D	8260.M O-VOC-W	4	1.000	05 Sep 2023 12:08
VOC W CAL 3 9) 090509.D	8260.M O-VOC-W	5	1.000	05 Sep 2023 12:39
VOC W CAL 4 10) 090510.D	8260.M O-VOC-W	6	1.000	05 Sep 2023 13:09
VOC W CAL 5 11) 090511.D	8260.M O-VOC-W	7	1.000	05 Sep 2023 13:39
VOC W CAL 6 12) 090512.D	8260.M O-VOC-W	8	1.000	05 Sep 2023 14:09
VOC W CAL 7 13) 090513.D	8260.M O-VOC-W	9	1.000	05 Sep 2023 14:39
VOC W CAL 8 14) 090514.D	8260.M O-VOC-W	10	1.000	05 Sep 2023 15:09
VOC W CAL 9 15) 090515.D	8260.M O-VOC-W	11	1.000	05 Sep 2023 15:40
R 16) 090516.D	8260.M O-VOC-W		1.000	05 Sep 2023 16:09
R 17) 090517.D	8260.M O-VOC-W		1.000	05 Sep 2023 16:38
VOC W ICB 18) 090518.D	8260.M O-VOC-W	12	1.000	05 Sep 2023 17:08
VOC W ICV 19) 090519.D	8260.M O-VOC-W	13	1.000	05 Sep 2023 17:38
R 20) 090520.D	8260.M O-VOC-W		1.000	05 Sep 2023 18:07
MB W 21) 090521.D	8260.M O-VOC-W	29	1.000	05 Sep 2023 18:37

22)	090522.D		8260.M						
VOC W MDL	0.1	O-VOC-W		23	1.000	05 Sep 2023	19:07		

23)	090523.D		8260.M						
VOC W MDL	0.1	O-VOC-W		24	1.000	05 Sep 2023	19:37		

24)	090524.D		8260.M						
VOC W MDL	0.1	O-VOC-W		25	1.000	05 Sep 2023	20:08		

25)	090525.D		8260.M						
VOC W MDL	0.1	O-VOC-W		26	1.000	05 Sep 2023	20:38		

26)	090526.D		8260.M						
VOC W MDL	0.1	O-VOC-W		27	1.000	05 Sep 2023	21:08		

27)	090527.D		8260.M						
VOC W CCV	A	O-VOC-W		28	1.000	05 Sep 2023	21:38		

28)	090528.D		8260.M						
R		O-VOC-W			1.000	05 Sep 2023	22:07		

29)	090529.D		8260.M						
R		O-VOC-W			1.000	05 Sep 2023	22:36		

30)	090530.D		8260.M						
R		O-VOC-W			1.000	05 Sep 2023	23:05		

31)	090531.D		8260.M						
GX CAL	1	O-VOC-GX-W		14	1.000	05 Sep 2023	23:35		

32)	090532.D		8260.M						
GX CAL	2	O-VOC-GX-W		15	1.000	06 Sep 2023	00:05		

33)	090533.D		8260.M						
GX CAL	3	O-VOC-GX-W		16	1.000	06 Sep 2023	00:36		

34)	090534.D		8260.M						
GX CAL	4	O-VOC-GX-W		17	1.000	06 Sep 2023	01:06		

35)	090535.D		8260.M						
GX CAL	5	O-VOC-GX-W		18	1.000	06 Sep 2023	01:36		

36)	090536.D		8260.M						
GX CAL	6	O-VOC-GX-W		19	1.000	06 Sep 2023	02:06		

37)	090537.D		8260.M						
GX CAL	7	O-VOC-GX-W		20	1.000	06 Sep 2023	02:36		

38)	090538.D		8260.M						
R		O-VOC-GX-W			1.000	06 Sep 2023	03:05		

39)	090539.D		8260.M						
R		O-VOC-GX-W			1.000	06 Sep 2023	03:34		

40)	090540.D		8260.M						
GX ICB		O-VOC-GX-W		21	1.000	06 Sep 2023	04:04		

41)	090541.D		8260.M						
GX ICV		O-VOC-GX-W		22	1.000	06 Sep 2023	04:35		

42)	090542.D		8260.M						
R		O-VOC-GX-W			1.000	06 Sep 2023	05:03		

Data Directory: D:\GC-19\Data\091123\

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) 091162.D No data found	8260.M		0.000	N/A
2) 091101.D R	8260.M O-VOC-W		1.000	11 Sep 2023 09:11
3) 091102.D VOC W CCV A	8260.M O-VOC-W	1	1.000	11 Sep 2023 09:41
4) 091103.D VOC S CCV A	8260.M O-VOC-S	2	1.000	11 Sep 2023 10:11
5) 091104.D GX CCV A	8260.M O-VOC-GX-W	3	1.000	11 Sep 2023 10:42
6) 091105.D 1122 tetra breakdown	8260.M O-VOC-W	4	1.000	11 Sep 2023 11:12
7) 091106.D VOC S CCV B	8260.M O-VOC-S	7	1.000	11 Sep 2023 11:42
8) 091107.D R	8260.M O-VOC-S		1.000	11 Sep 2023 12:11
9) 091109.D 2309081-010B 1X RR	8260.M O-VOC-S	5	1.000	11 Sep 2023 12:40
10) 091110.D 2309081-009B 10X	8260.M O-VOC-S	6	1.000	11 Sep 2023 13:10
11) 091111.D 2309081-013B 1000X	8260.M O-VOC-GX-S	8	1.000	11 Sep 2023 13:40
12) 091112.D 2309081-013B 100X	8260.M O-VOC-S	9	1.000	11 Sep 2023 14:10
13) 091113.D R	8260.M O-VOC-S		1.000	11 Sep 2023 14:41
14) 091114.D R	8260.M O-VOC-S		1.000	11 Sep 2023 15:10
15) 091115.D GX CCV B	8260.M O-VOC-GX-S	10	1.000	11 Sep 2023 15:40
16) 091116.D VOC S CCV C	8260.M O-VOC-S	11	1.000	11 Sep 2023 16:10
17) 091117.D R	8260.M O-VOC-S		1.000	11 Sep 2023 16:39
18) 091118.D MB S	8260.M O-VOC-S	12	1.000	11 Sep 2023 17:09
19) 091119.D 2309051-013B	8260.M O-VOC-S	13	1.000	11 Sep 2023 17:39
20) 091120.D 2309051-017B	8260.M O-VOC-S	14	1.000	11 Sep 2023 18:09
21) 091121.D 2309051-017BDUP	8260.M O-VOC-S	15	1.000	11 Sep 2023 18:40

22)	091122.D		8260.M						
	2309051-018B	O-VOC-S		16	1.000	11 Sep 2023	19:10		

	23)	091123.D	8260.M						
R		O-VOC-S			1.000	11 Sep 2023	19:39		

	24)	091124.D	8260.M						
	2309085-001B	O-VOC-S		17	1.000	11 Sep 2023	20:09		

	25)	091125.D	8260.M						
	2309085-001BDUP	O-VOC-S		18	1.000	11 Sep 2023	20:39		

	26)	091126.D	8260.M						
	2309085-002B	O-VOC-S		19	1.000	11 Sep 2023	21:09		

	27)	091127.D	8260.M						
	2309085-003B	O-VOC-S		20	1.000	11 Sep 2023	21:39		

	28)	091128.D	8260.M						
	2309085-004B	O-VOC-S		21	1.000	11 Sep 2023	22:09		

	29)	091129.D	8260.M						
	2309085-005B	O-VOC-S		22	1.000	11 Sep 2023	22:40		

	30)	091130.D	8260.M						
	2309085-006B	O-VOC-S		23	1.000	11 Sep 2023	23:10		

	31)	091131.D	8260.M						
	2309085-007B	O-VOC-S		24	1.000	11 Sep 2023	23:40		

	32)	091132.D	8260.M						
	2309085-008B	O-VOC-S		25	1.000	12 Sep 2023	00:10		

	33)	091133.D	8260.M						
	2309085-009B	O-VOC-S		26	1.000	12 Sep 2023	00:40		

	34)	091134.D	8260.M						
R		O-VOC-S			1.000	12 Sep 2023	01:09		

	35)	091135.D	8260.M						
	2309051-013BMS VOC	O-VOC-S		27	1.000	12 Sep 2023	01:39		

	36)	091136.D	8260.M						
	2309051-018BMS GX	O-VOC-GX-S		28	1.000	12 Sep 2023	02:09		

	37)	091137.D	8260.M						
R		O-VOC-S			1.000	12 Sep 2023	02:38		

	38)	091138.D	8260.M						
VOC S CCV D		O-VOC-S		29	1.000	12 Sep 2023	03:09		

	39)	091139.D	8260.M						
GX CCV C		O-VOC-GX-S		30	1.000	12 Sep 2023	03:39		

	40)	091140.D	8260.M						
R		O-VOC-S			1.000	12 Sep 2023	04:08		

	41)	091141.D	8260.M						
VOC S MDL 0.1		O-DOD-VOC-S		38	1.000	12 Sep 2023	04:38		

	42)	091142.D	8260.M						
VOC S MDL 0.2		O-DOD-VOC-S		39	1.000	12 Sep 2023	05:08		

	43)	091143.D	8260.M						
VOC S MDL 0.5		O-DOD-VOC-S		40	1.000	12 Sep 2023	05:38		

	44)	091144.D	8260.M						
VOC S MDL 1.0		O-DOD-VOC-S		41	1.000	12 Sep 2023	06:08		

	45)	091145.D	8260.M						

VOC S MDL 2.0	O-DOD-VOC-S	42	1.000	12 Sep 2023	06:39
46) 091146.D	8260.M				
GX S MDL 25	O-DOD-VOC-GX-S	43	1.000	12 Sep 2023	07:09
47) 091147.D	8260.M				
GX S MDL 50	O-DOD-VOC-GX-S	44	1.000	12 Sep 2023	07:39
48) 091148.D	8260.M				
R	O-DOD-VOC-GX-S		1.000	12 Sep 2023	08:08
49) 091149.D	8260.M				
2309051-010B	O-VOC-S	31	1.000	12 Sep 2023	08:38
50) 091150.D	8260.M				
2309055-001B	O-VOC-S	32	1.000	12 Sep 2023	09:08
51) 091151.D	8260.M				
2309051-009B	O-VOC-S	33	1.000	12 Sep 2023	09:38
52) 091152.D	8260.M				
R	O-VOC-S		1.000	12 Sep 2023	10:07
53) 091153.D	8260.M				
2309051-019B	O-VOC-S	34	1.000	12 Sep 2023	10:38
54) 091154.D	8260.M				
2309051-020B	O-VOC-S	35	1.000	12 Sep 2023	11:08
55) 091155.D	8260.M				
2309096-002B	O-VOC-S	45	1.000	12 Sep 2023	11:38
56) 091156.D	8260.M				
R	O-VOC-S		1.000	12 Sep 2023	12:07
57) 091157.D	8260.M				
2309096-002B RR	O-VOC-S	50	1.000	12 Sep 2023	12:37
58) 091158.D	8260.M				
2309096-001B 10X	O-VOC-S	51	1.000	12 Sep 2023	13:07
59) 091159.D	8260.M				
R	O-VOC-S		1.000	12 Sep 2023	13:36
60) 091160.D	8260.M				
2309096-001B	O-VOC-S	46	1.000	12 Sep 2023	14:06
61) 091161.D	8260.M				
R	O-VOC-S		1.000	12 Sep 2023	14:35

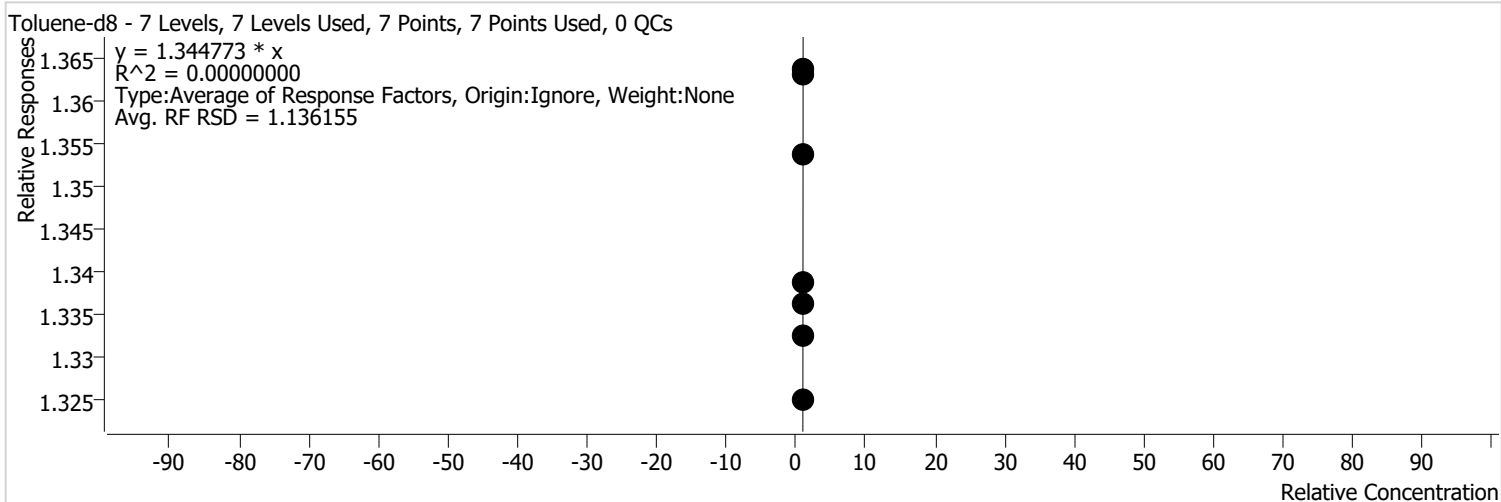


Calibration

Calibration Report

Batch Path	D:\GC-19\Data\090523\QuantResults\gx cal.batch.bin	Analyst Name	FA\GC19
Analysis Time	9/6/2023 9:07 AM	Reporter Name	FA\GC19
Report Time	9/6/2023 9:23:54 AM	Batch State	Processed
Last Calib Update	9/6/2023 9:07 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Toluene-d8 %RSE =

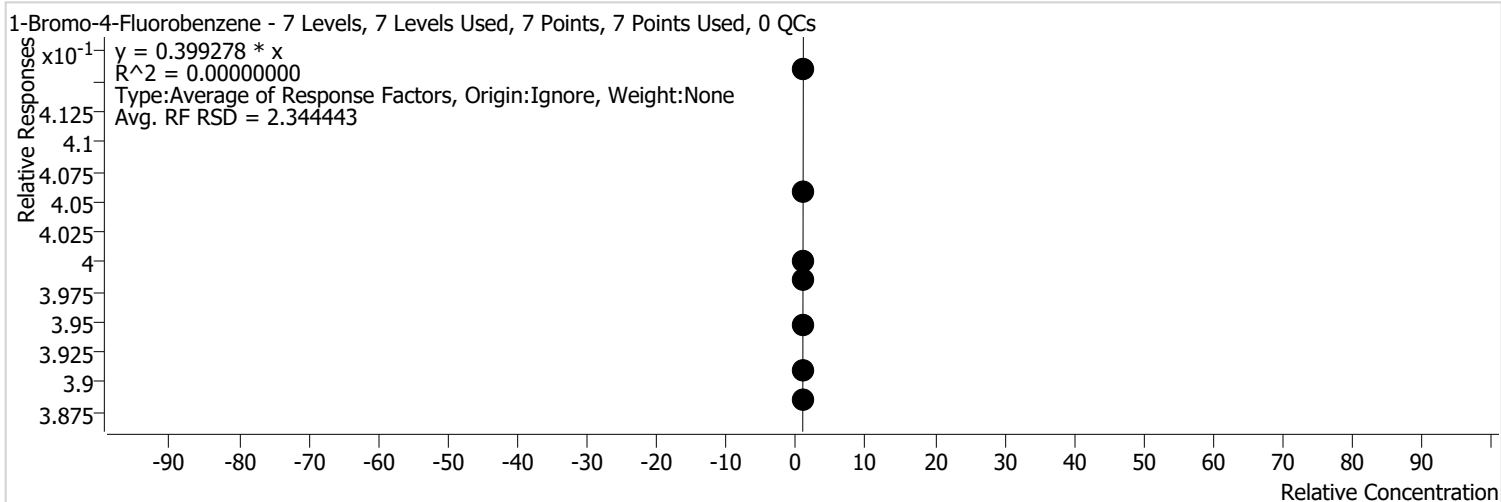


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090523\090537.D	Calibration	7	x	2384616	25.0000	1.3253	
D:\GC-19\Data\090523\090536.D	Calibration	6	x	2374014	25.0000	1.3365	
D:\GC-19\Data\090523\090535.D	Calibration	5	x	2343930	25.0000	1.3631	
D:\GC-19\Data\090523\090534.D	Calibration	4	x	2322098	25.0000	1.3388	
D:\GC-19\Data\090523\090533.D	Calibration	3	x	2177880	25.0000	1.3536	
D:\GC-19\Data\090523\090532.D	Calibration	2	x	2201633	25.0000	1.3636	
D:\GC-19\Data\090523\090531.D	Calibration	1	x	2195311	25.0000	1.3326	

Calibration Report

Batch Path	D:\GC-19\Data\090523\QuantResults\gx cal.batch.bin		
Analysis Time	9/6/2023 9:07 AM	Analyst Name	FA\GC19
Report Time	9/6/2023 9:23:54 AM	Reporter Name	FA\GC19
Last Calib Update	9/6/2023 9:07 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1-Bromo-4-Fluorobenzene %RSE =



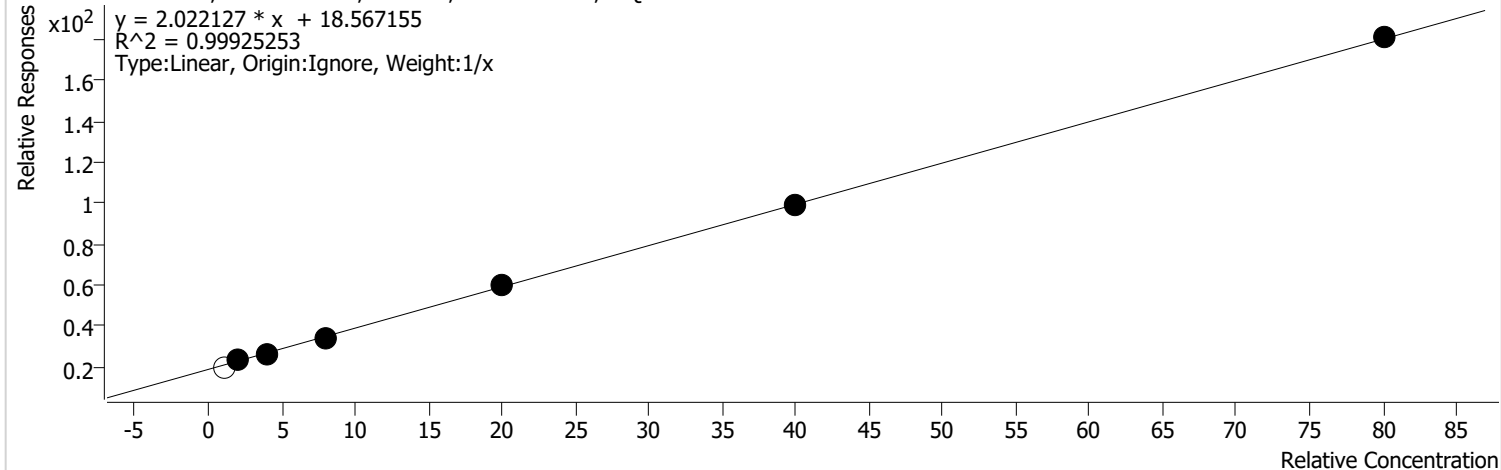
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090523\090537.D	Calibration	7	x	710194	25.0000	0.3947	
D:\GC-19\Data\090523\090536.D	Calibration	6	x	694632	25.0000	0.3911	
D:\GC-19\Data\090523\090535.D	Calibration	5	x	668276	25.0000	0.3886	
D:\GC-19\Data\090523\090534.D	Calibration	4	x	703947	25.0000	0.4059	
D:\GC-19\Data\090523\090533.D	Calibration	3	x	641284	25.0000	0.3986	
D:\GC-19\Data\090523\090532.D	Calibration	2	x	646091	25.0000	0.4002	
D:\GC-19\Data\090523\090531.D	Calibration	1	x	685289	25.0000	0.4160	

Calibration Report

Batch Path	D:\GC-19\Data\090523\QuantResults\gx cal.batch.bin		
Analysis Time	9/6/2023 9:07 AM	Analyst Name	FA\GC19
Report Time	9/6/2023 9:23:54 AM	Reporter Name	FA\GC19
Last Calib Update	9/6/2023 9:07 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

GASOLINE %RSE = 6.8

GASOLINE - 7 Levels, 6 Levels Used, 7 Points, 6 Points Used, 0 QCs



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090523\090531.D	Calibration	1		25223416	25.0000	19.8546	
D:\GC-19\Data\090523\090532.D	Calibration	2	x	27407950	50.0000	11.5066	
D:\GC-19\Data\090523\090533.D	Calibration	3	x	31775585	100.0000	6.6012	
D:\GC-19\Data\090523\090534.D	Calibration	4	x	43953262	200.0000	4.1691	
D:\GC-19\Data\090523\090535.D	Calibration	5	x	74944284	500.0000	2.9759	
D:\GC-19\Data\090523\090536.D	Calibration	6	x	128819723	1000.0000	2.4889	
D:\GC-19\Data\090523\090537.D	Calibration	7	x	232371132	2000.0000	2.2621	

GX Calibration



Date: 1/5/23
 Analyst: MDS
 Instrument: GC19

Cal	ICV
GX Standard: <u>28854</u>	GX Standard: <u>28863</u>

IS/Surrogate ~~GC19~~ 288A7

Cal Level	Spike Conc. (ppb)	Cal GX Spike (uL)	ICV GX Spike (uL)	Final Vol. (mL)	Comments
1	25	0.50	--	50	
2	50	1.00	--	50	
3	100	2.00	--	50	
4	200	4.00	--	50	
5	500	10.00	--	50	
6	1000	20.00	--	50	
7	2000	40.00	--	50	
	ICV (500 ppb)	--	10.00	50	

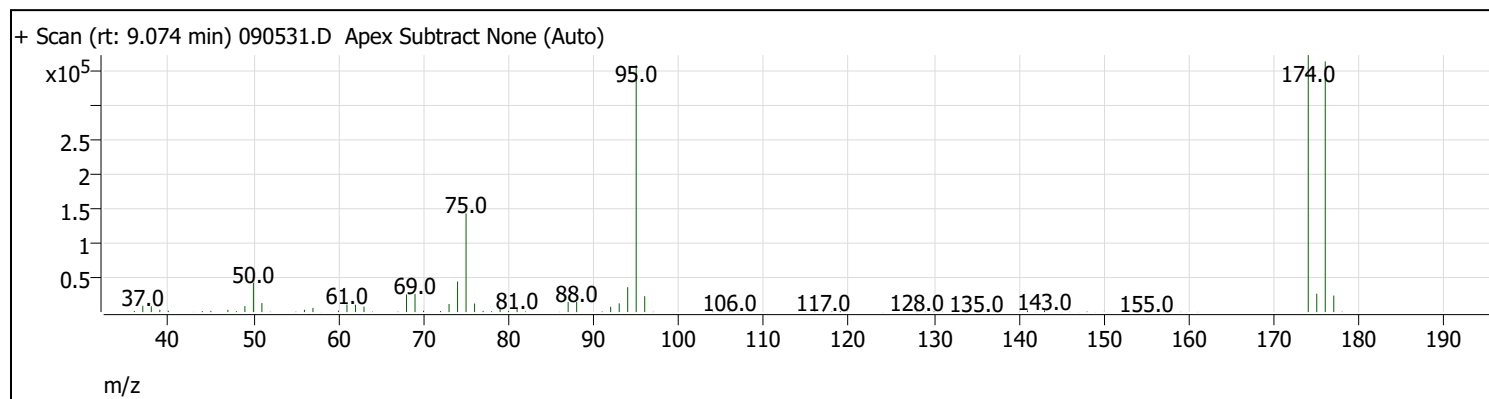
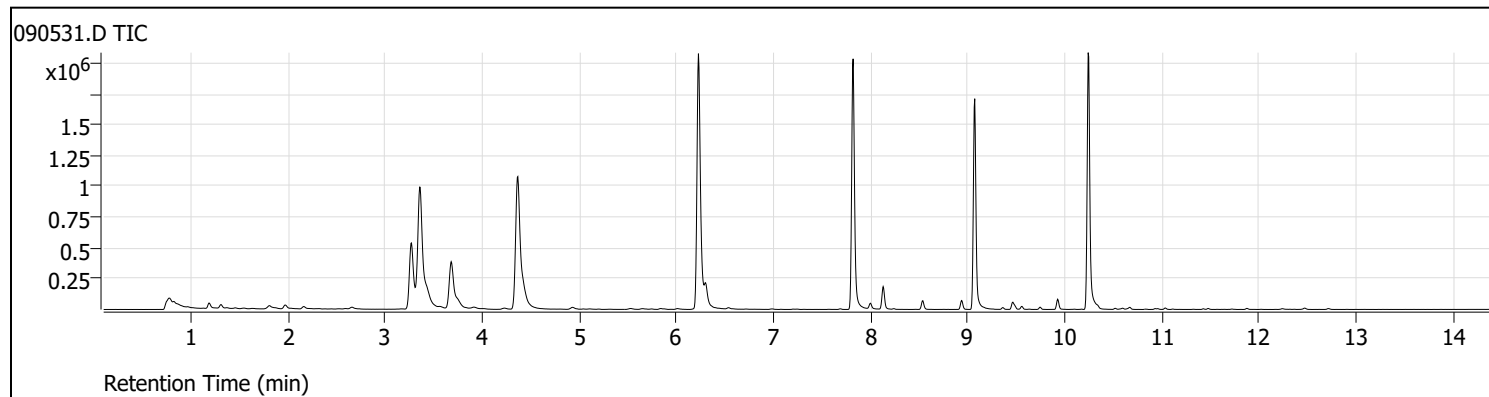
Signature and Date: _____



Tunes

Tune Evaluation Report

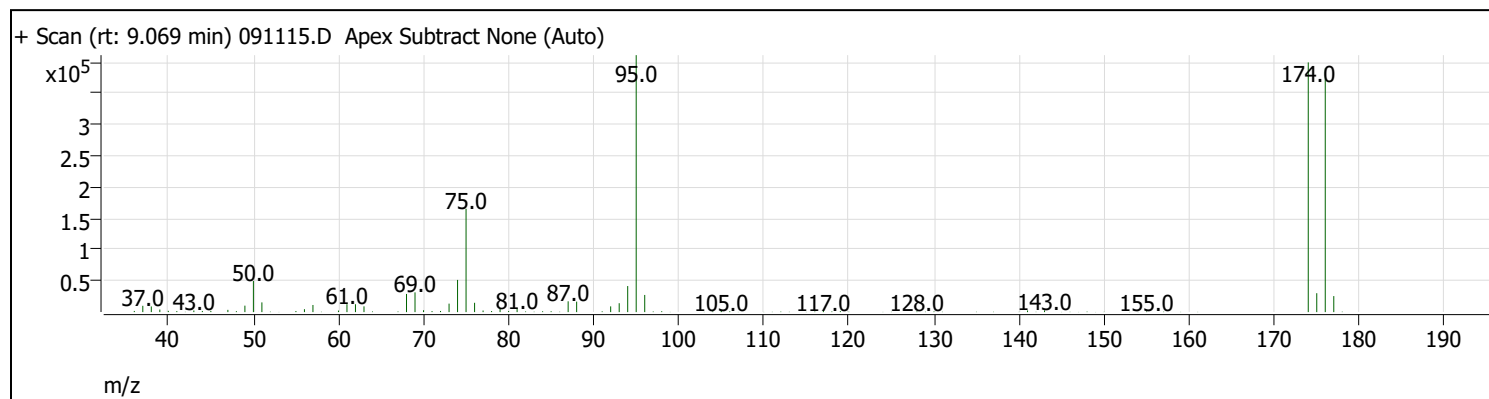
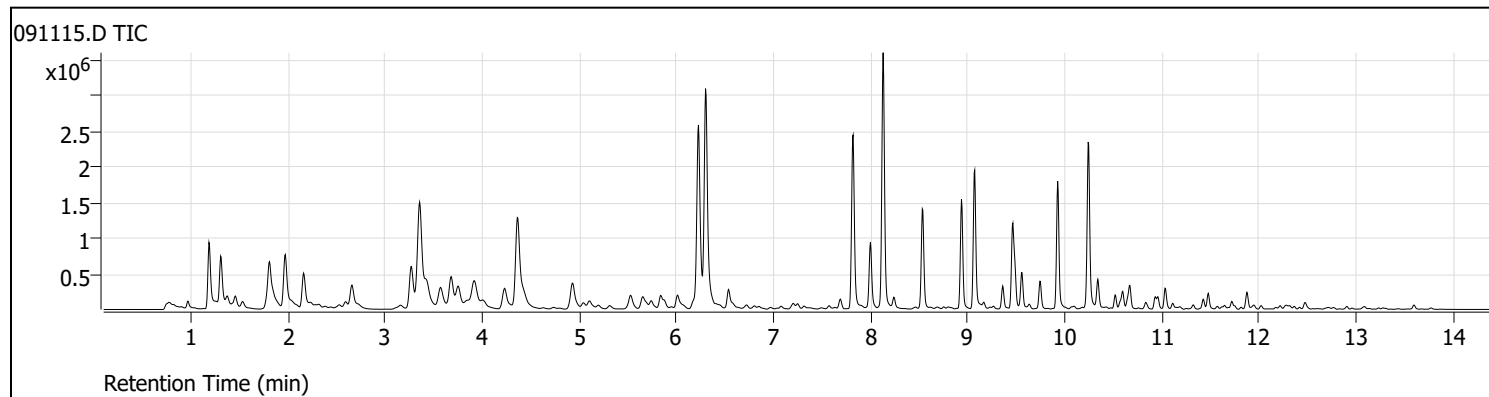
Data Path: D:\GC-19\Data\090523\090531.D
 Acq on: 9/5/2023 11:35:46 PM
 Operator: FA\GC19
 Sample: GX CAL 1
 Inst Name: GC19
 ALS Vial: 14
 Method: D:\MassHunter\Methods\Quant\BFB2021.m



Target Mass	Rel. To Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Pass/Fail
95	174	50	200	96.1	359368	Pass
96	95	5	9	6.5	23222	Pass
173	174	0	2	0.0	0	Pass
174	95	50	200	104.0	373894	Pass
175	174	5	9	7.2	26833	Pass
176	174	95	105	97.5	364727	Pass
177	176	5	10	6.6	24099	Pass

Tune Evaluation Report

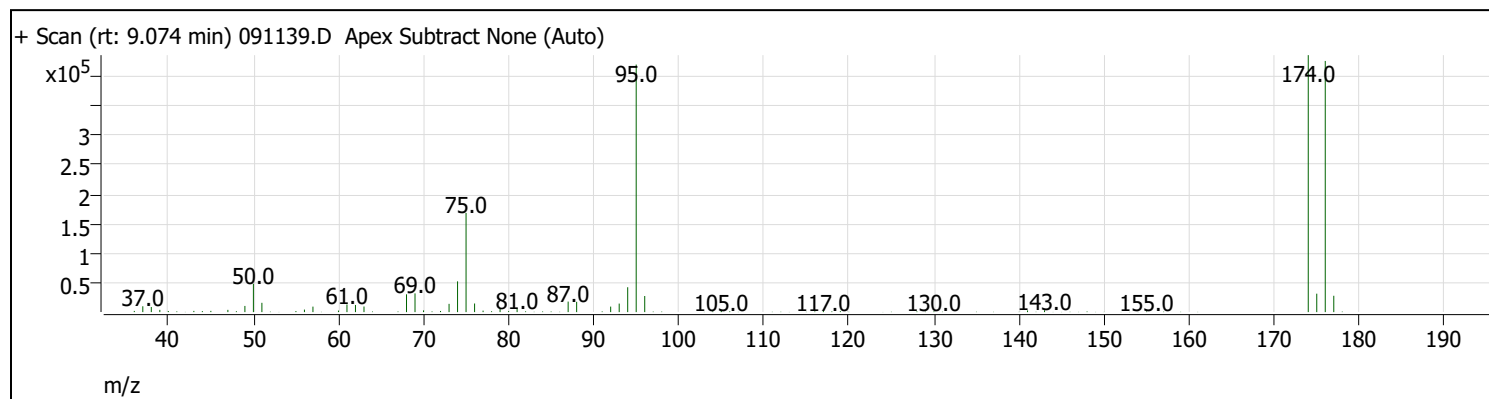
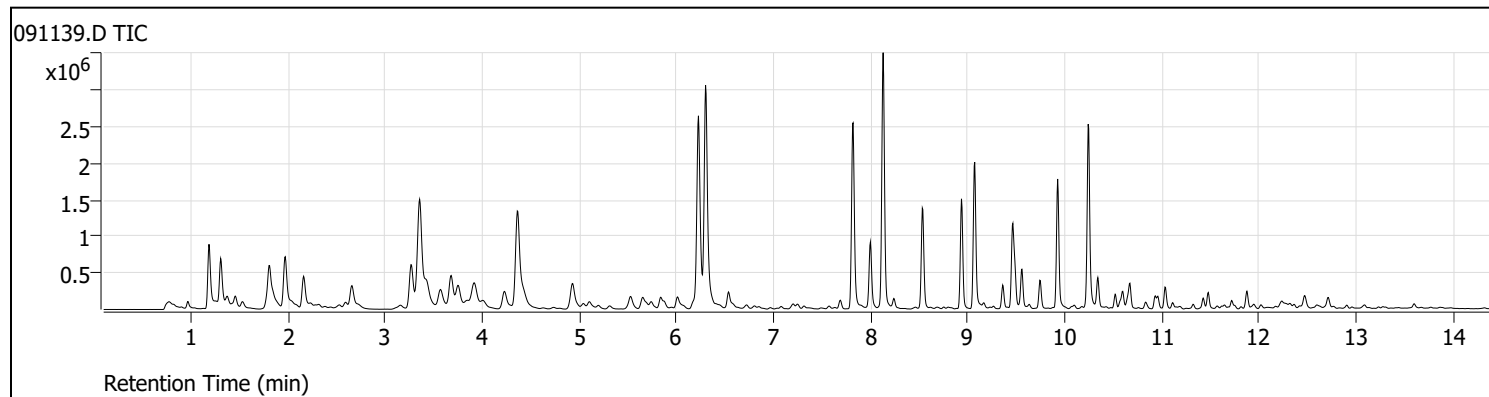
Data Path: D:\GC-19\Data\091123\091115.D
 Acq on: 9/11/2023 3:40:13 PM
 Operator: FA\GC19
 Sample: GX CCV B
 Inst Name: GC19
 ALS Vial: 10
 Method: D:\MassHunter\Methods\Quant\BFB2021.m



Target Mass	Rel. To Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Pass/Fail
95	174	50	200	102.9	411391	Pass
96	95	5	9	6.7	27467	Pass
173	174	0	2	0.0	0	Pass
174	95	50	200	97.2	399783	Pass
175	174	5	9	7.6	30265	Pass
176	174	95	105	97.6	390037	Pass
177	176	5	10	6.6	25646	Pass

Tune Evaluation Report

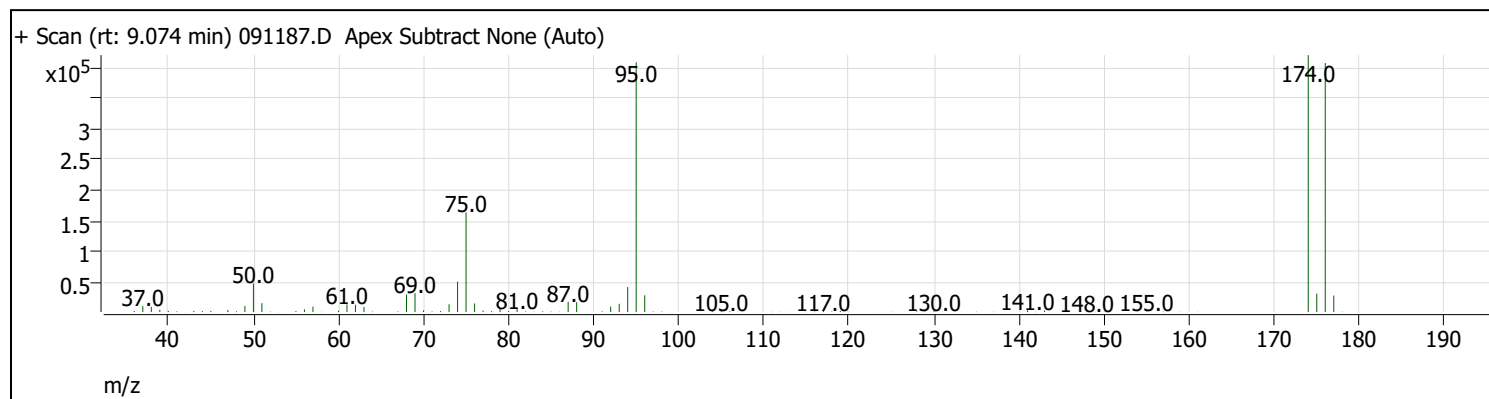
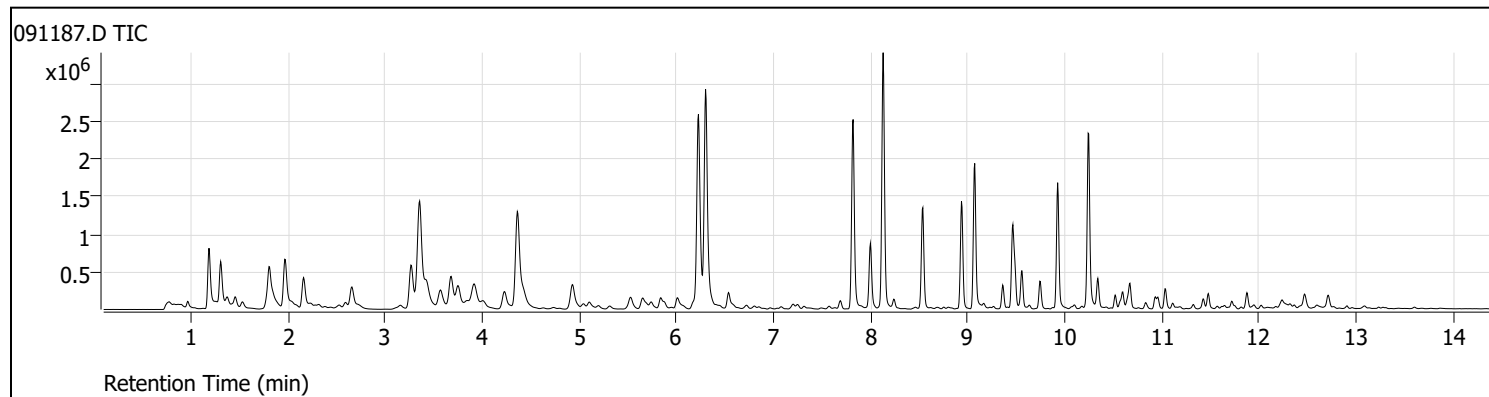
Data Path: D:\GC-19\Data\091123\091139.D
 Acq on: 9/12/2023 3:39:22 AM
 Operator: FA\GC19
 Sample: GX CCV C
 Inst Name: GC19
 ALS Vial: 30
 Method: D:\MassHunter\Methods\Quant\BFB2021.m



Target Mass	Rel. To Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Pass/Fail
95	174	50	200	96.3	420254	Pass
96	95	5	9	6.5	27348	Pass
173	174	0	2	0.0	0	Pass
174	95	50	200	103.8	436275	Pass
175	174	5	9	7.2	31280	Pass
176	174	95	105	97.7	426449	Pass
177	176	5	10	6.5	27746	Pass

Tune Evaluation Report

Data Path: D:\GC-19\Data\091123\091187.D
 Acq on: 9/13/2023 3:22:28 AM
 Operator: FA\GC19
 Sample: GX CCV AA
 Inst Name: GC19
 ALS Vial: 67
 Method: D:\MassHunter\Methods\Quant\BFB2021.m



Target Mass	Rel. To Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Pass/Fail
95	174	50	200	97.2	409916	Pass
96	95	5	9	6.7	27549	Pass
173	174	0	2	0.0	0	Pass
174	95	50	200	102.8	421581	Pass
175	174	5	9	7.2	30260	Pass
176	174	95	105	96.9	408682	Pass
177	176	5	10	6.6	27129	Pass



Internal Standards

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-19 230912A CCV Name: GX 86333
 Run No: 86461 CCV SeqNo: 1804436
 Lab File ID (Standard): 090535.D Date Analyzed: 9/6/2023
 Instrument ID: GC-19 Time Analyzed: 1:36
 GC Column: ID (mm): Length (M):

	IS1 (CBZ) AREA #	RT #	IS2 (14DCBZ) AREA #	RT #				
12 HOUR STD	1719603	7.821	1259191	10.244				
UPPER LIMIT	3439206	8.321	2518382	10.744				
LOWER LIMIT	859802	7.321	629596	9.744				
SAMPLE NO.								
01 CCV-41443D	1.93376e+006	7.821	1.40318e+006	10.249				
02 CCV-41443E	2.06774e+006	7.821	1.52959e+006	10.249				

IS1 (CBZ) = Chlorobenzene-d5

IS2 (14DCBZ) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-19 230912A CCV Name: CCV-41443A
 Run No: 86461 CCV SeqNo: 1804459
 Lab File ID (Standard): 091115.D Date Analyzed: 9/11/2023
 Instrument ID: GC-19 Time Analyzed: 15:40
 GC Column: ID (mm): Length (M):

	IS1 (CBZ) AREA #	RT #	IS2 (14DCBZ) AREA #	RT #				
12 HOUR STD	1925800	7.821	1424230	10.244				
UPPER LIMIT	3851600	8.321	2848460	10.744				
LOWER LIMIT	962900	7.321	712115	9.744				
SAMPLE NO.								

IS1 (CBZ) = Chlorobenzene-d5

IS2 (14DCBZ) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-19 230912A CCV Name: LCS-41443
 Run No: 86461 CCV SeqNo: 1804465
 Lab File ID (Standard): 091115.D Date Analyzed: 9/11/2023
 Instrument ID: GC-19 Time Analyzed: 15:40
 GC Column: ID (mm): Length (M):

	IS1 (CBZ) AREA #	RT #	IS2 (14DCBZ) AREA #	RT #				
12 HOUR STD	1925800	7.821	1424230	10.244				
UPPER LIMIT	3851600	8.321	2848460	10.744				
LOWER LIMIT	962900	7.321	712115	9.744				
SAMPLE NO.								
01 MB-41443	1.89034e+006	7.816	1.42064e+006	10.249				
02 INSTRUMENT BLANK	1.89034e+006	7.816	1.42064e+006	10.249				
03 2309051-013B	1.86543e+006	7.816	1.39836e+006	10.249				
04 2309051-017B	1.88019e+006	7.816	1.42577e+006	10.249				
05 2309051-017BDUP	1.90925e+006	7.816	1.45267e+006	10.249				
06 2309051-018B	1.78099e+006	7.821	1.3307e+006	10.259				
07 2309085-001B	1.86331e+006	7.816	1.43156e+006	10.249				
08 2309085-001BDUP	1.82429e+006	7.816	1.36789e+006	10.249				
09 2309085-002B	1.90837e+006	7.821	1.46032e+006	10.249				
10 2309085-003B	1.87936e+006	7.816	1.45341e+006	10.249				
11 2309085-004B	1.87007e+006	7.816	1.43105e+006	10.249				
12 2309085-005B	1.83983e+006	7.816	1.36909e+006	10.249				
13 2309085-006B	1.93141e+006	7.816	1.53141e+006	10.249				
14 2309085-007B	1.95399e+006	7.816	1.52035e+006	10.249				
15 2309085-008B	1.95992e+006	7.816	1.51585e+006	10.249				
16 2309085-009B	1.89711e+006	7.816	1.46471e+006	10.249				
17 2309051-018BMS	1.85862e+006	7.821	1.37639e+006	10.26				

IS1 (CBZ) = Chlorobenzene-d5

IS2 (14DCBZ) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-19 230912A

CCV Name: CCV-41443B

Run No: 86461

CCV SeqNo: 1804460

Lab File ID (Standard): 091139.D

Date Analyzed: 9/12/2023

Instrument ID: GC-19

Time Analyzed: 3:39

GC Column:

ID (mm):

Length (M):

	IS1 (CBZ) AREA #	RT #	IS2 (14DCBZ) AREA #	RT #				
12 HOUR STD	2029650	7.821	1503153	10.244				
UPPER LIMIT	4059300	8.321	3006306	10.744				
LOWER LIMIT	1014825	7.321	751577	9.744				
SAMPLE NO.								
01	2307101-019B	1.92781e+006	7.816	1.45249e+006	10.249			
02	2307105-016B	2.01654e+006	7.821	1.54186e+006	10.249			
03	2309051-010B	1.98237e+006	7.822	1.52898e+006	10.249			
04	2309055-001B	1.99956e+006	7.816	1.5104e+006	10.244			
05	2309051-009B	1.74036e+006	7.816	1.36708e+006	10.249			
06	2309051-019B	1.91262e+006	7.816	1.38493e+006	10.249			
07	2309051-020B	1.88193e+006	7.821	1.4125e+006	10.254			
08	2309096-002B	1.95943e+006	7.816	1.47035e+006	10.249			
09	2309096-001B	2.0646e+006	7.816	1.57293e+006	10.249			

IS1 (CBZ) = Chlorobenzene-d5

IS2 (14DCBZ) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-19 230912A CCV Name: CCV-41443C
 Run No: 86461 CCV SeqNo: 1804461
 Lab File ID (Standard): 091162.D Date Analyzed: 9/12/2023
 Instrument ID: GC-19 Time Analyzed: 15:05
 GC Column: ID (mm): Length (M):

	IS1 (CBZ) AREA #	RT #	IS2 (14DCBZ) AREA #	RT #				
12 HOUR STD	1984005	7.822	1417427	10.244				
UPPER LIMIT	3968010	8.322	2834854	10.744				
LOWER LIMIT	992003	7.322	708714	9.744				
SAMPLE NO.								

IS1 (CBZ) = Chlorobenzene-d5

IS2 (14DCBZ) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-19 230912A CCV Name: CCV-41443D
 Run No: 86461 CCV SeqNo: 1804732
 Lab File ID (Standard): 091187.D Date Analyzed: 9/13/2023
 Instrument ID: GC-19 Time Analyzed: 3:22
 GC Column: ID (mm): Length (M):

	IS1 (CBZ) AREA #	RT #	IS2 (14DCBZ) AREA #	RT #				
12 HOUR STD	1933764	7.821	1403184	10.249				
UPPER LIMIT	3867528	8.321	2806368	10.749				
LOWER LIMIT	966882	7.321	701592	9.749				
SAMPLE NO.								
01 2309051-019B	2.04588e+006	7.816	1.56093e+006	10.249				
02 2309051-008B	1.87205e+006	7.821	1.41573e+006	10.249				
03 2309051-018B	1.85121e+006	7.821	1.46185e+006	10.244				
04 2309051-020B	1.94764e+006	7.821	1.48726e+006	10.244				

IS1 (CBZ) = Chlorobenzene-d5

IS2 (14DCBZ) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

DATA SET for Review - Deliverable Requirements

Volatile Organic Compounds by EPA Method 8260D

Fremont Analytical Work Order No. 2309096

GeoEngineers

Project Name: 701 South Jackson

Project Number: 24504-001-03

This data set contains the following:

- Analytical Sequence Summary
- Calibration Information
- Tune Information
- Internal Standards Report

Data Directory: D:\GC-19\Data\090723\

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) 090701.D R	8260.M O-VOC-W		1.000	07 Sep 2023 08:38
2) 090702.D VOC W CCV C	8260.M O-VOC-W	28	1.000	07 Sep 2023 09:08
3) 090703.D GX CCV C	8260.M O-VOC-GX-W	29	1.000	07 Sep 2023 09:38
4) 090704.D R	8260.M O-VOC-W		1.000	07 Sep 2023 10:07
5) 090705.D 2309033-001A	8260.M O-VOC-W	30	1.000	07 Sep 2023 10:37
6) 090706.D 2309034-001A	8260.M O-VOC-W	31	1.000	07 Sep 2023 11:08
7) 090707.D 2309034-002A	8260.M O-VOC-W	32	1.000	07 Sep 2023 11:38
8) 090708.D 2309033-001AMS VOC	8260.M O-VOC-W	33	1.000	07 Sep 2023 12:08
9) 090709.D 2309034-001AMS GX	8260.M O-VOC-GX-W	34	1.000	07 Sep 2023 12:38
10) 090710.D R	8260.M O-VOC-W		1.000	07 Sep 2023 13:07
11) 090711.D R	8260.M O-VOC-W		1.000	07 Sep 2023 13:36
12) 090712.D 2309030-001A	8260.M O-VOC-W	35	1.000	07 Sep 2023 14:06
13) 090713.D R	8260.M O-VOC-W		1.000	07 Sep 2023 14:35
14) 090714.D R	8260.M O-VOC-W		1.000	07 Sep 2023 15:04
15) 090715.D 23089042-001A 100X	8260.M O-VOC-W	38	1.000	07 Sep 2023 15:34
16) 090716.D 23089042-002A 10X	8260.M O-VOC-W	39	1.000	07 Sep 2023 16:04
17) 090717.D 23089042-002A	8260.M O-VOC-W	40	1.000	07 Sep 2023 16:35
18) 090718.D R	8260.M O-VOC-W		1.000	07 Sep 2023 17:04
19) 090722.D 2309034-002A RR	8260.M O-VOC-W	42	1.000	07 Sep 2023 17:34
20) 090723.D 2309034-001A 10X	8260.M O-VOC-W	43	1.000	07 Sep 2023 18:04
21) 090724.D 2309030-001A 10X	8260.M O-VOC-W	44	1.000	07 Sep 2023 18:34

22)	090725.D		8260.M					
R		O-VOC-W		1.000	07 Sep 2023	19:03		

23)	090726.D		8260.M					
R		O-VOC-W		1.000	07 Sep 2023	19:32		

24)	090727.D		8260.M					
VOC W CCV D		O-VOC-W	36	1.000	07 Sep 2023	20:02		

25)	090728.D		8260.M					
GX CCV D		O-VOC-GX-W	37	1.000	07 Sep 2023	20:32		

26)	090729.D		8260.M					
R		O-VOC-W		1.000	07 Sep 2023	21:01		

27)	090730.D		8260.M					
R		O-VOC-W		1.000	07 Sep 2023	21:30		

28)	090731.D		8260.M					
R		O-VOC-W		1.000	07 Sep 2023	21:59		

29)	090732.D		8260.M					
R		O-VOC-W		1.000	07 Sep 2023	22:28		

30)	090733.D		8260.M					
R		O-VOC-W		1.000	07 Sep 2023	22:57		

31)	090734.D		8260.M					
VOC S CAL 1		O-VOC-S	45	1.000	07 Sep 2023	23:28		

32)	090735.D		8260.M					
VOC S CAL 2		O-VOC-S	46	1.000	07 Sep 2023	23:58		

33)	090736.D		8260.M					
VOC S CAL 3		O-VOC-S	47	1.000	08 Sep 2023	00:28		

34)	090737.D		8260.M					
VOC S CAL 4		O-VOC-S	48	1.000	08 Sep 2023	00:58		

35)	090738.D		8260.M					
VOC S CAL 5		O-VOC-S	49	1.000	08 Sep 2023	01:28		

36)	090739.D		8260.M					
VOC S CAL 6		O-VOC-S	50	1.000	08 Sep 2023	01:58		

37)	090740.D		8260.M					
VOC S CAL 7		O-VOC-S	51	1.000	08 Sep 2023	02:29		

38)	090741.D		8260.M					
VOC S CAL 8		O-VOC-S	52	1.000	08 Sep 2023	02:59		

39)	090742.D		8260.M					
R		O-VOC-S		1.000	08 Sep 2023	03:28		

40)	090743.D		8260.M					
R		O-VOC-S		1.000	08 Sep 2023	03:57		

41)	090744.D		8260.M					
VOC S ICB		O-VOC-S	53	1.000	08 Sep 2023	04:27		

42)	090745.D		8260.M					
VOC S ICV		O-VOC-S	54	1.000	08 Sep 2023	04:57		

43)	090746.D		8260.M					
0		O-VOC-S		1.000	08 Sep 2023	05:26		

44)	090747.D		8260.M					
MB S		O-VOC-S	55	1.000	08 Sep 2023	05:56		

45)	090748.D		8260.M					

VOC S MDL 0.1	O-VOC-S	56	1.000	08 Sep 2023	06:26
46) 090749.D	8260.M				
VOC S MDL 0.2	O-VOC-S	57	1.000	08 Sep 2023	06:57
47) 090750.D	8260.M				
VOC S MDL 0.5	O-VOC-S	58	1.000	08 Sep 2023	07:27
48) 090751.D	8260.M				
VOC S MDL 1.0	O-VOC-S	59	1.000	08 Sep 2023	07:57
49) 090752.D	8260.M				
VOC S MDL 2.0	O-VOC-S	60	1.000	08 Sep 2023	08:27
50) 090753.D	8260.M				
R	O-VOC-S		1.000	08 Sep 2023	08:56

Data Directory: D:\GC-19\Data\091123\

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) 091162.D No data found	8260.M		0.000	N/A
2) 091101.D R	8260.M O-VOC-W		1.000	11 Sep 2023 09:11
3) 091102.D VOC W CCV A	8260.M O-VOC-W	1	1.000	11 Sep 2023 09:41
4) 091103.D VOC S CCV A	8260.M O-VOC-S	2	1.000	11 Sep 2023 10:11
5) 091104.D GX CCV A	8260.M O-VOC-GX-W	3	1.000	11 Sep 2023 10:42
6) 091105.D 1122 tetra breakdown	8260.M O-VOC-W	4	1.000	11 Sep 2023 11:12
7) 091106.D VOC S CCV B	8260.M O-VOC-S	7	1.000	11 Sep 2023 11:42
8) 091107.D R	8260.M O-VOC-S		1.000	11 Sep 2023 12:11
9) 091109.D 2309081-010B 1X RR	8260.M O-VOC-S	5	1.000	11 Sep 2023 12:40
10) 091110.D 2309081-009B 10X	8260.M O-VOC-S	6	1.000	11 Sep 2023 13:10
11) 091111.D 2309081-013B 1000X	8260.M O-VOC-GX-S	8	1.000	11 Sep 2023 13:40
12) 091112.D 2309081-013B 100X	8260.M O-VOC-S	9	1.000	11 Sep 2023 14:10
13) 091113.D R	8260.M O-VOC-S		1.000	11 Sep 2023 14:41
14) 091114.D R	8260.M O-VOC-S		1.000	11 Sep 2023 15:10
15) 091115.D GX CCV B	8260.M O-VOC-GX-S	10	1.000	11 Sep 2023 15:40
16) 091116.D VOC S CCV C	8260.M O-VOC-S	11	1.000	11 Sep 2023 16:10
17) 091117.D R	8260.M O-VOC-S		1.000	11 Sep 2023 16:39
18) 091118.D MB S	8260.M O-VOC-S	12	1.000	11 Sep 2023 17:09
19) 091119.D 2309051-013B	8260.M O-VOC-S	13	1.000	11 Sep 2023 17:39
20) 091120.D 2309051-017B	8260.M O-VOC-S	14	1.000	11 Sep 2023 18:09
21) 091121.D 2309051-017BDUP	8260.M O-VOC-S	15	1.000	11 Sep 2023 18:40

22)	091122.D		8260.M						
	2309051-018B	O-VOC-S		16	1.000	11 Sep 2023	19:10		

	23)	091123.D	8260.M						
R		O-VOC-S			1.000	11 Sep 2023	19:39		

	24)	091124.D	8260.M						
	2309085-001B	O-VOC-S		17	1.000	11 Sep 2023	20:09		

	25)	091125.D	8260.M						
	2309085-001BDUP	O-VOC-S		18	1.000	11 Sep 2023	20:39		

	26)	091126.D	8260.M						
	2309085-002B	O-VOC-S		19	1.000	11 Sep 2023	21:09		

	27)	091127.D	8260.M						
	2309085-003B	O-VOC-S		20	1.000	11 Sep 2023	21:39		

	28)	091128.D	8260.M						
	2309085-004B	O-VOC-S		21	1.000	11 Sep 2023	22:09		

	29)	091129.D	8260.M						
	2309085-005B	O-VOC-S		22	1.000	11 Sep 2023	22:40		

	30)	091130.D	8260.M						
	2309085-006B	O-VOC-S		23	1.000	11 Sep 2023	23:10		

	31)	091131.D	8260.M						
	2309085-007B	O-VOC-S		24	1.000	11 Sep 2023	23:40		

	32)	091132.D	8260.M						
	2309085-008B	O-VOC-S		25	1.000	12 Sep 2023	00:10		

	33)	091133.D	8260.M						
	2309085-009B	O-VOC-S		26	1.000	12 Sep 2023	00:40		

	34)	091134.D	8260.M						
R		O-VOC-S			1.000	12 Sep 2023	01:09		

	35)	091135.D	8260.M						
	2309051-013BMS VOC	O-VOC-S		27	1.000	12 Sep 2023	01:39		

	36)	091136.D	8260.M						
	2309051-018BMS GX	O-VOC-GX-S		28	1.000	12 Sep 2023	02:09		

	37)	091137.D	8260.M						
R		O-VOC-S			1.000	12 Sep 2023	02:38		

	38)	091138.D	8260.M						
VOC S CCV D		O-VOC-S		29	1.000	12 Sep 2023	03:09		

	39)	091139.D	8260.M						
GX CCV C		O-VOC-GX-S		30	1.000	12 Sep 2023	03:39		

	40)	091140.D	8260.M						
R		O-VOC-S			1.000	12 Sep 2023	04:08		

	41)	091141.D	8260.M						
VOC S MDL 0.1		O-DOD-VOC-S		38	1.000	12 Sep 2023	04:38		

	42)	091142.D	8260.M						
VOC S MDL 0.2		O-DOD-VOC-S		39	1.000	12 Sep 2023	05:08		

	43)	091143.D	8260.M						
VOC S MDL 0.5		O-DOD-VOC-S		40	1.000	12 Sep 2023	05:38		

	44)	091144.D	8260.M						
VOC S MDL 1.0		O-DOD-VOC-S		41	1.000	12 Sep 2023	06:08		

	45)	091145.D	8260.M						

VOC S MDL 2.0	O-DOD-VOC-S	42	1.000	12 Sep 2023	06:39
46) 091146.D	8260.M				
GX S MDL 25	O-DOD-VOC-GX-S	43	1.000	12 Sep 2023	07:09
47) 091147.D	8260.M				
GX S MDL 50	O-DOD-VOC-GX-S	44	1.000	12 Sep 2023	07:39
48) 091148.D	8260.M				
R	O-DOD-VOC-GX-S		1.000	12 Sep 2023	08:08
49) 091149.D	8260.M				
2309051-010B	O-VOC-S	31	1.000	12 Sep 2023	08:38
50) 091150.D	8260.M				
2309055-001B	O-VOC-S	32	1.000	12 Sep 2023	09:08
51) 091151.D	8260.M				
2309051-009B	O-VOC-S	33	1.000	12 Sep 2023	09:38
52) 091152.D	8260.M				
R	O-VOC-S		1.000	12 Sep 2023	10:07
53) 091153.D	8260.M				
2309051-019B	O-VOC-S	34	1.000	12 Sep 2023	10:38
54) 091154.D	8260.M				
2309051-020B	O-VOC-S	35	1.000	12 Sep 2023	11:08
55) 091155.D	8260.M				
2309096-002B	O-VOC-S	45	1.000	12 Sep 2023	11:38
56) 091156.D	8260.M				
R	O-VOC-S		1.000	12 Sep 2023	12:07
57) 091157.D	8260.M				
2309096-002B RR	O-VOC-S	50	1.000	12 Sep 2023	12:37
58) 091158.D	8260.M				
2309096-001B 10X	O-VOC-S	51	1.000	12 Sep 2023	13:07
59) 091159.D	8260.M				
R	O-VOC-S		1.000	12 Sep 2023	13:36
60) 091160.D	8260.M				
2309096-001B	O-VOC-S	46	1.000	12 Sep 2023	14:06
61) 091161.D	8260.M				
R	O-VOC-S		1.000	12 Sep 2023	14:35



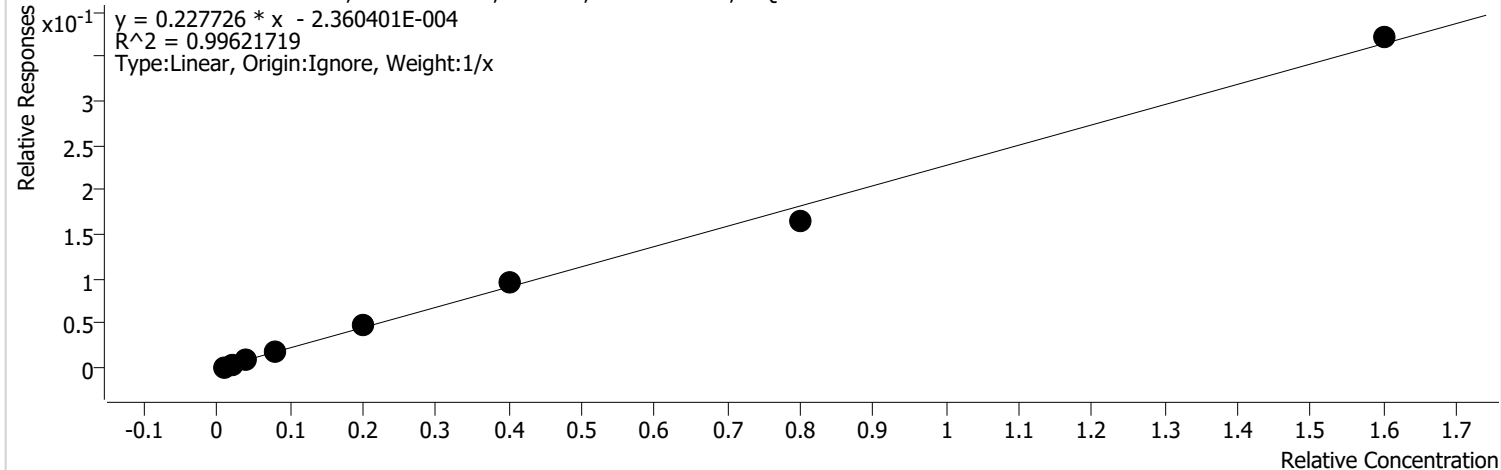
Calibration

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:11 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Dichlorodifluoromethane %RSE = 10.8

Dichlorodifluoromethane - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



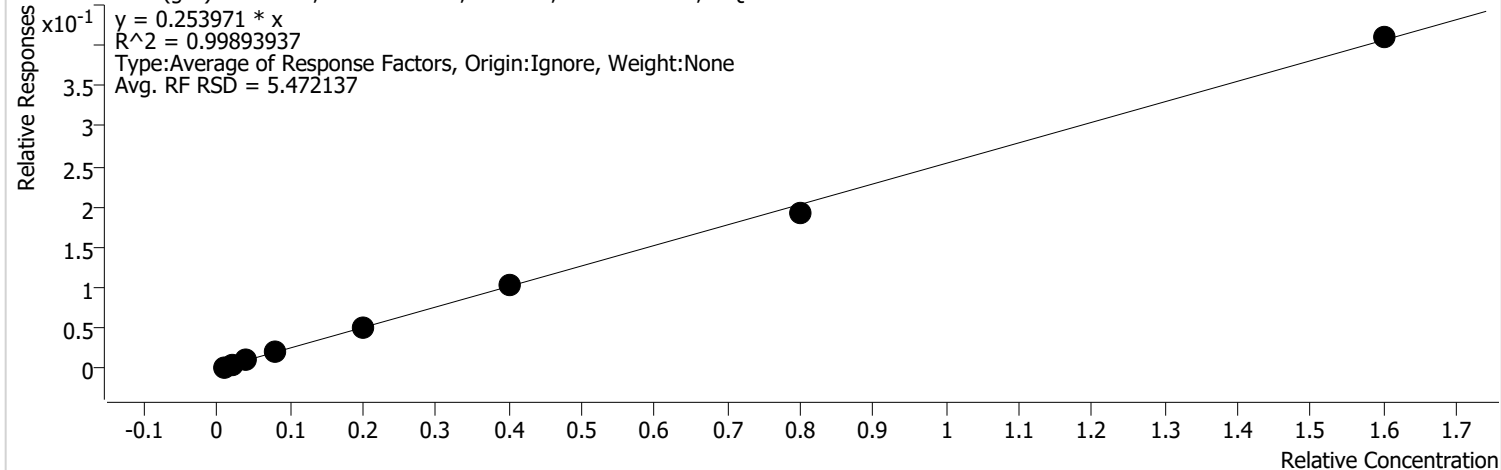
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D:\GC-19\Data\090723\090737.D	Calibration	4	x	30121	2.0000	0.2422	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	72918	5.0000	0.2362	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	150330	10.0000	0.2422	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	263069	20.0000	0.2066	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	604398	40.0000	0.2318	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:12 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Chloromethane (gas) %RSE = 5.5

Chloromethane (gas) - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

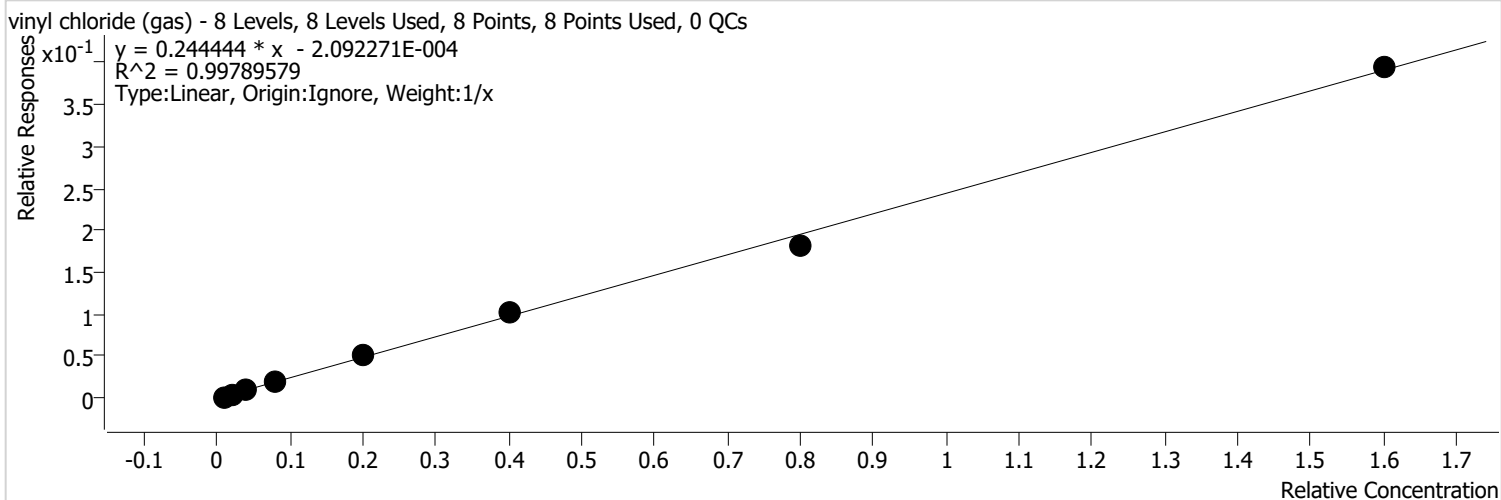


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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D:\GC-19\Data\090723\090736.D	Calibration	3	x	15723	1.0000	0.2575	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	32254	2.0000	0.2594	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	78636	5.0000	0.2547	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	161004	10.0000	0.2594	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	304931	20.0000	0.2395	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	667154	40.0000	0.2559	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:12 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

vinyl chloride (gas) %RSE = 8.9



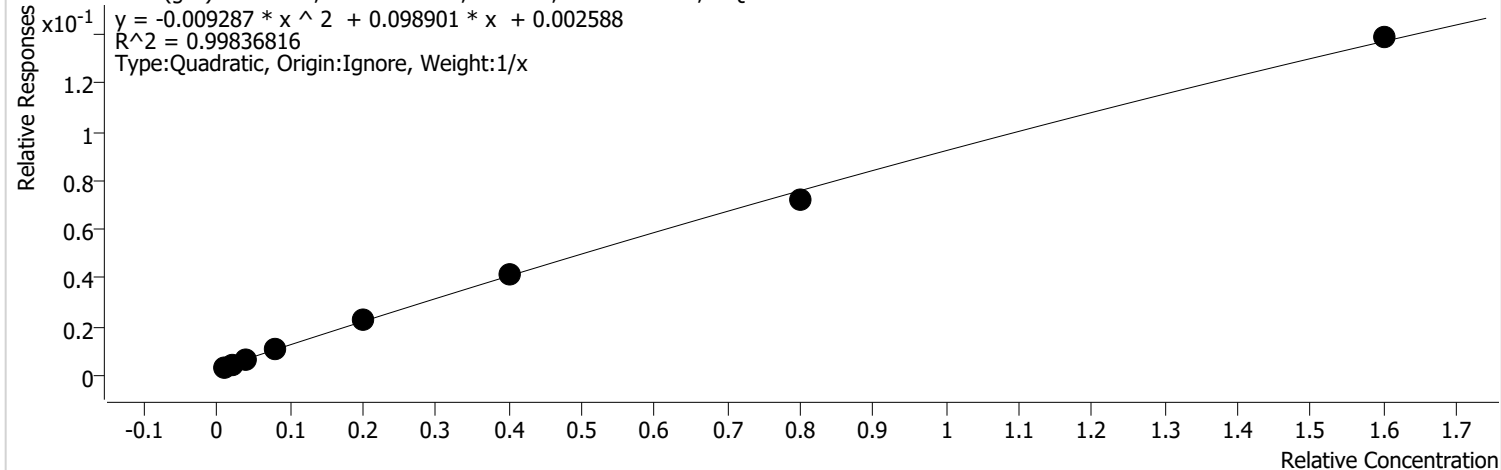
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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D:\GC-19\Data\090723\090736.D	Calibration	3	x	16234	1.0000	0.2659	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	31649	2.0000	0.2545	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	79042	5.0000	0.2560	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	159679	10.0000	0.2573	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	291295	20.0000	0.2288	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	642044	40.0000	0.2462	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:12 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Bromomethane (gas) %RSE = 7.8

Bromomethane (gas) - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

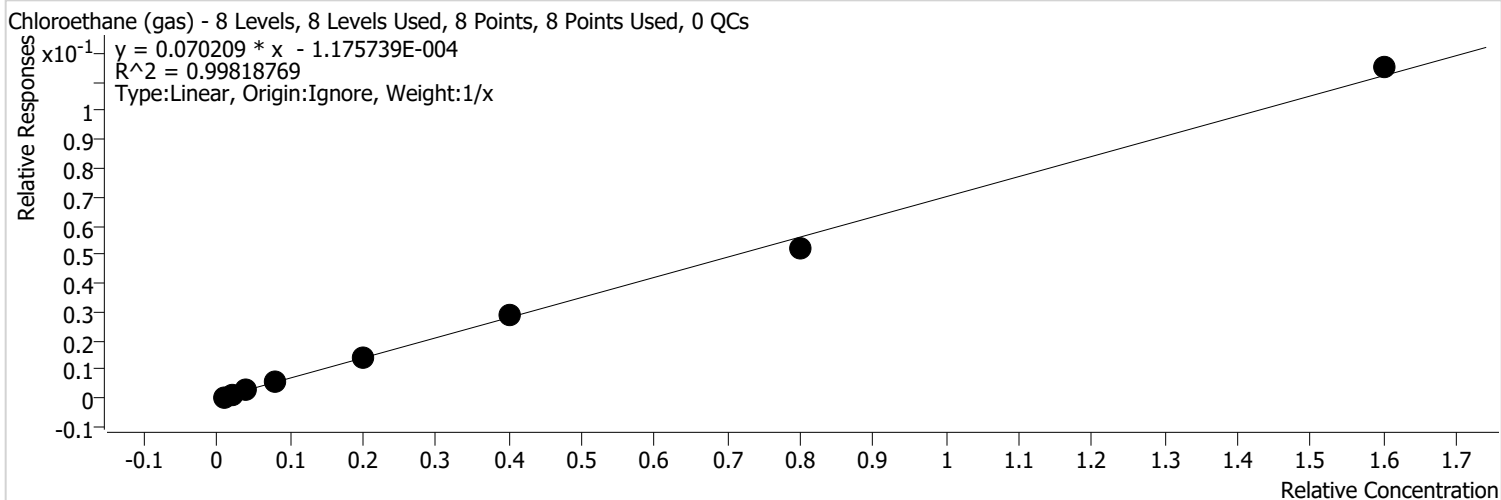


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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D:\GC-19\Data\090723\090737.D	Calibration	4	x	17451	2.0000	0.1403	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	35236	5.0000	0.1141	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	64620	10.0000	0.1041	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	114426	20.0000	0.0899	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	225858	40.0000	0.0866	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:12 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Chloroethane (gas) %RSE = 5.0

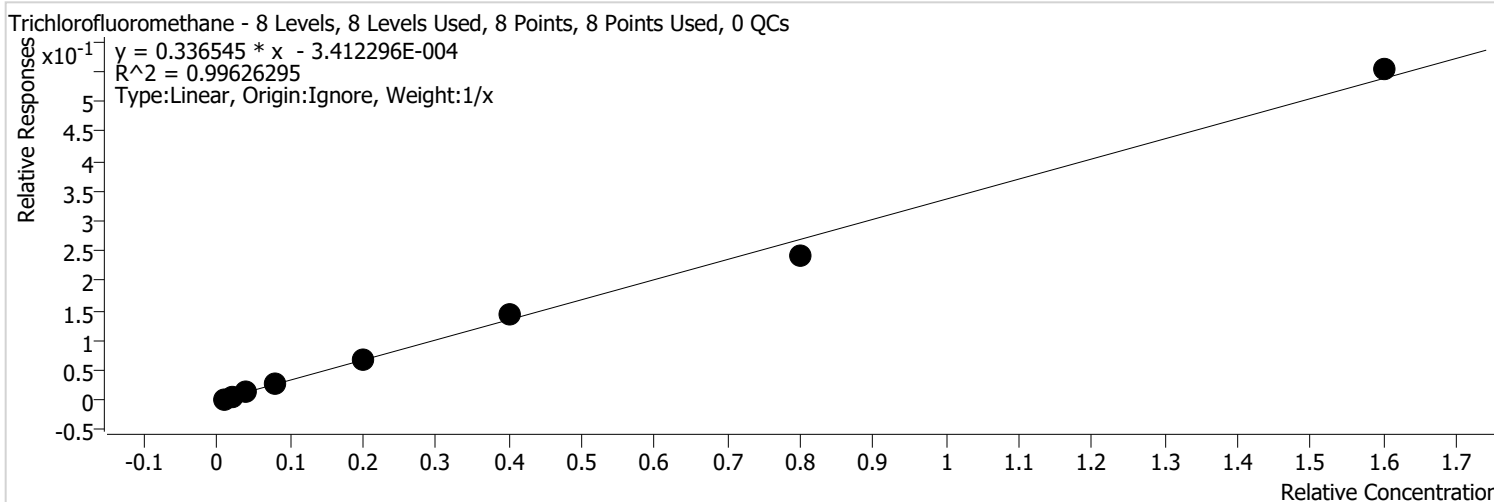


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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D:\GC-19\Data\090723\090736.D	Calibration	3	x	4206	1.0000	0.0689	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	8943	2.0000	0.0719	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	21031	5.0000	0.0681	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	44752	10.0000	0.0721	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	83303	20.0000	0.0654	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	187424	40.0000	0.0719	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:12 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Trichlorofluoromethane %RSE = 8.2



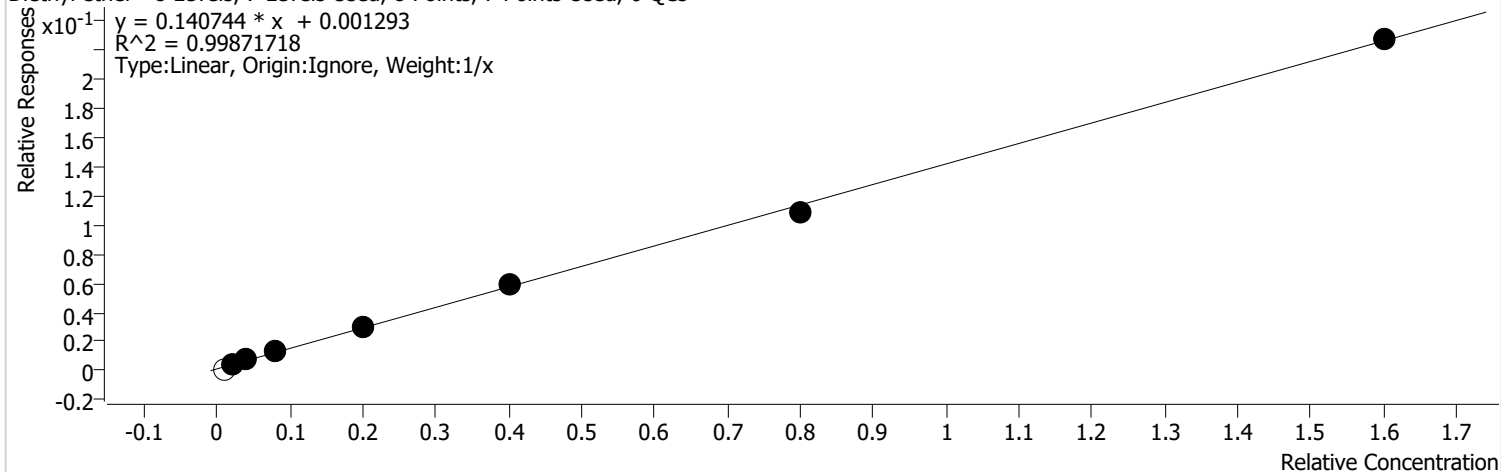
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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D:\GC-19\Data\090723\090737.D	Calibration	4	x	44343	2.0000	0.3566	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	104965	5.0000	0.3400	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	220262	10.0000	0.3549	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	387155	20.0000	0.3041	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	900798	40.0000	0.3455	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:12 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Diethyl ether %RSE = 8.8

Diethyl ether - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 0 QCs

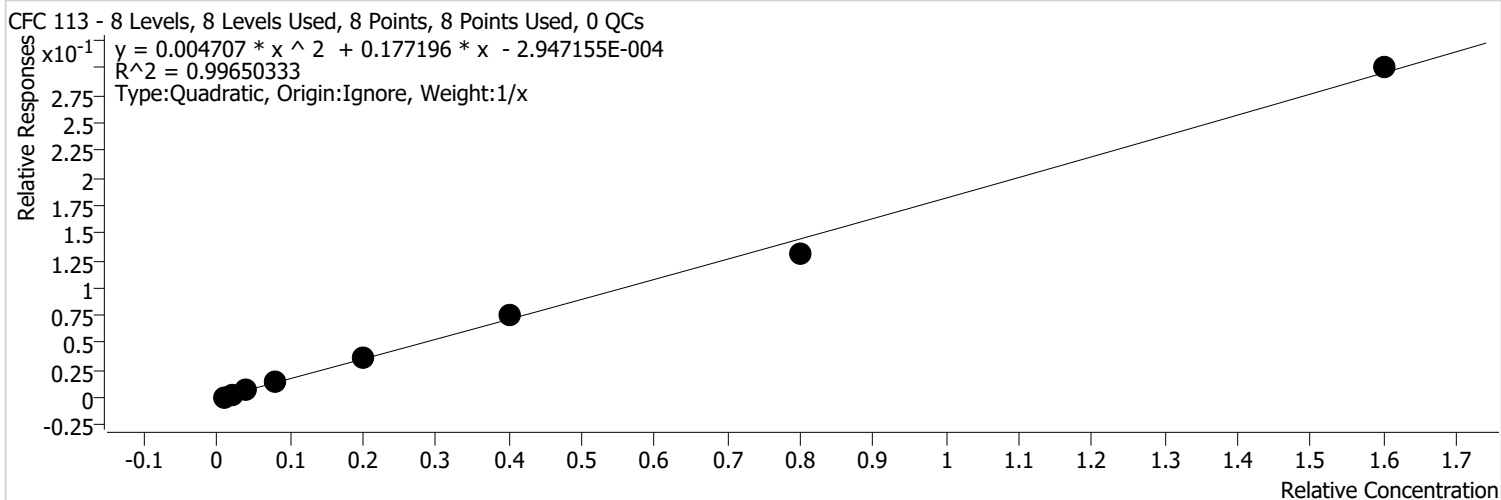


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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D:\GC-19\Data\090723\090736.D	Calibration	3	x	11016	1.0000	0.1804	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	20813	2.0000	0.1674	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	46772	5.0000	0.1515	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	93007	10.0000	0.1499	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	173707	20.0000	0.1365	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	370438	40.0000	0.1421	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin	Analyst Name	FA\GC19
Analysis Time	9/11/2023 9:40 AM	Reporter Name	FA\GC19
Report Time	9/11/2023 9:58:12 AM	Batch State	Processed
Last Calib Update	9/11/2023 7:57 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

CFC 113 %RSE = 8.4

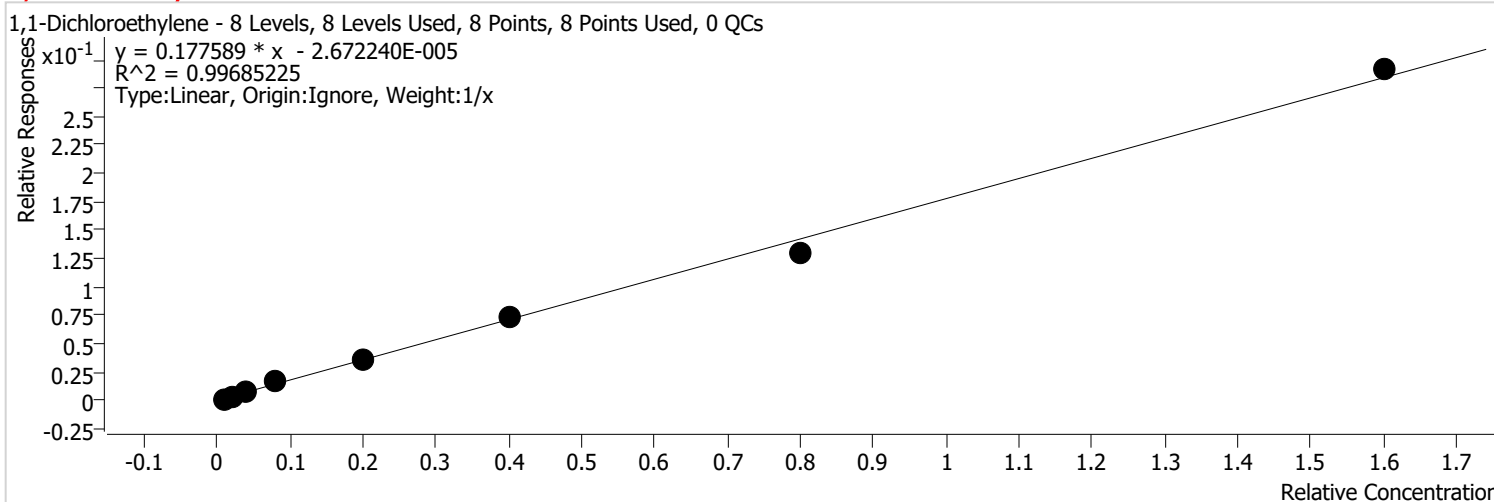


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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D:\GC-19\Data\090723\090737.D	Calibration	4	x	23959	2.0000	0.1927	
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D:\GC-19\Data\090723\090739.D	Calibration	6	x	118778	10.0000	0.1914	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	209749	20.0000	0.1648	
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Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:12 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,1-Dichloroethylene %RSE = 10.1



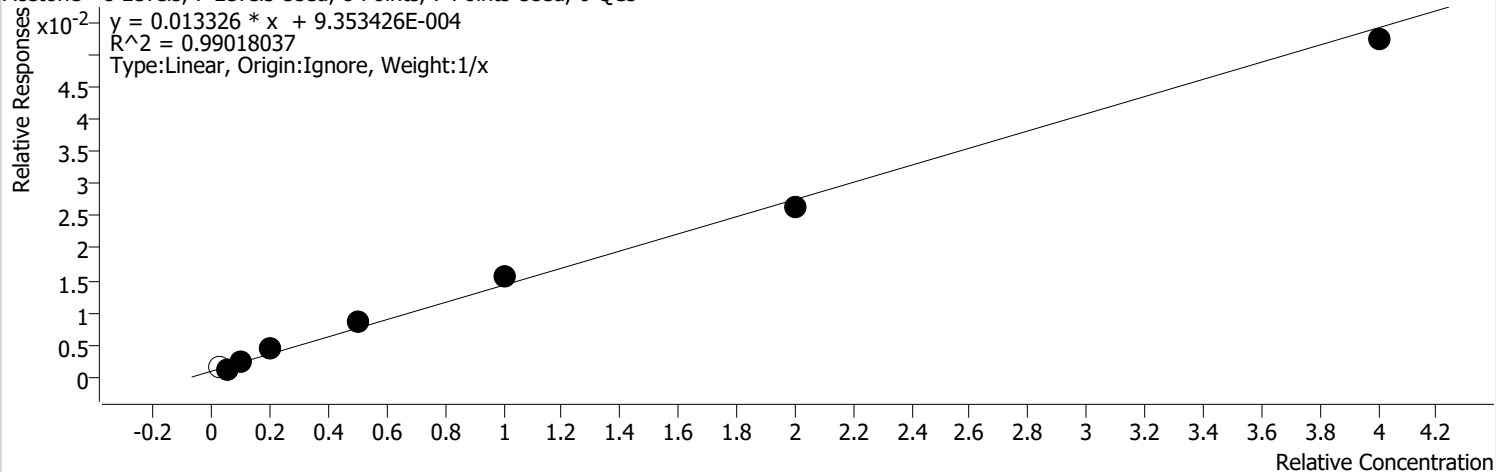
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D:\GC-19\Data\090723\090736.D	Calibration	3	x	12161	1.0000	0.1992	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	24416	2.0000	0.1963	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	53694	5.0000	0.1739	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	115257	10.0000	0.1857	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	207570	20.0000	0.1631	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	474435	40.0000	0.1820	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin	Analyst Name	FA\GC19
Analysis Time	9/11/2023 9:40 AM	Reporter Name	FA\GC19
Report Time	9/11/2023 9:58:12 AM	Batch State	Processed
Last Calib Update	9/11/2023 7:57 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Acetone %RSE = 26.9

Acetone - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 0 QCs



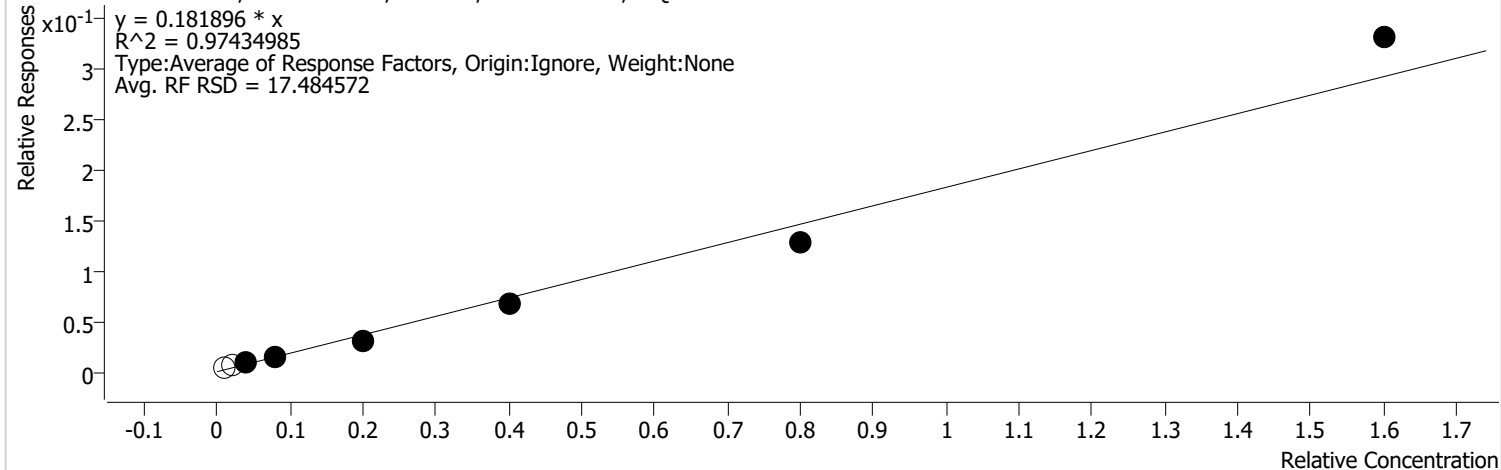
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1		2194	0.5000	0.0704	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	1989	1.2500	0.0257	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	3402	2.5000	0.0223	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	6838	5.0000	0.0220	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	13553	12.5000	0.0176	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	24338	25.0000	0.0157	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	42006	50.0000	0.0132	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	85357	100.0000	0.0131	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:12 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Iodomethane %RSE = 17.5

Iodomethane - 8 Levels, 6 Levels Used, 8 Points, 6 Points Used, 0 QCs



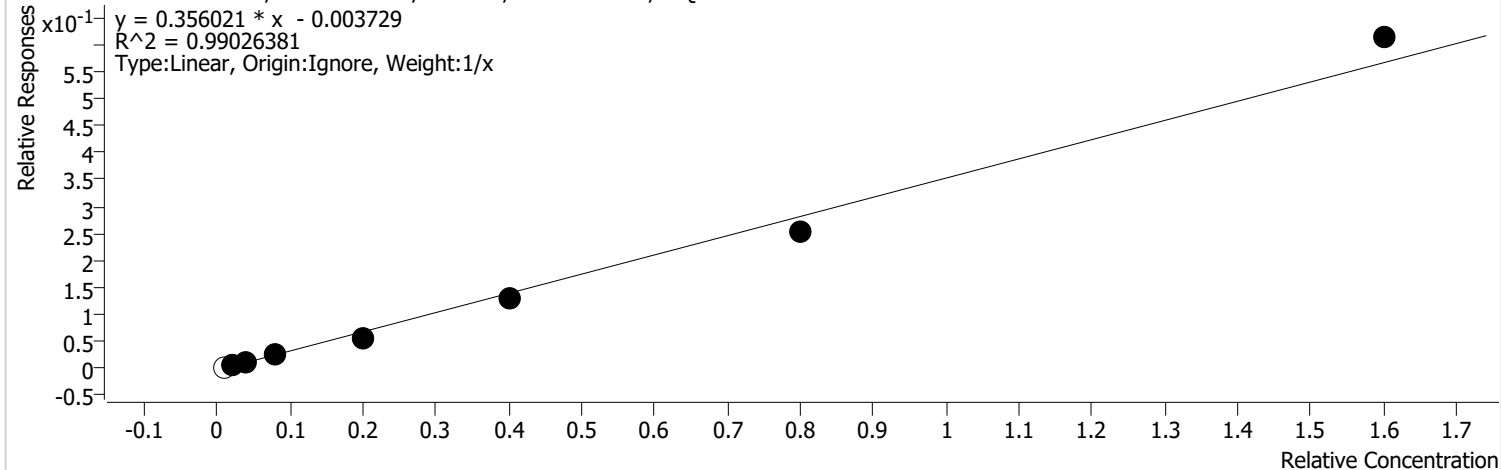
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1		7520	0.2000	0.6035	
D:\GC-19\Data\090723\090735.D	Calibration	2		10198	0.5000	0.3295	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	14377	1.0000	0.2355	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	21121	2.0000	0.1698	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	48593	5.0000	0.1574	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	102204	10.0000	0.1647	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	201217	20.0000	0.1581	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	536918	40.0000	0.2059	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:12 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Carbon disulfide %RSE = 13.5

Carbon disulfide - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 0 QCs



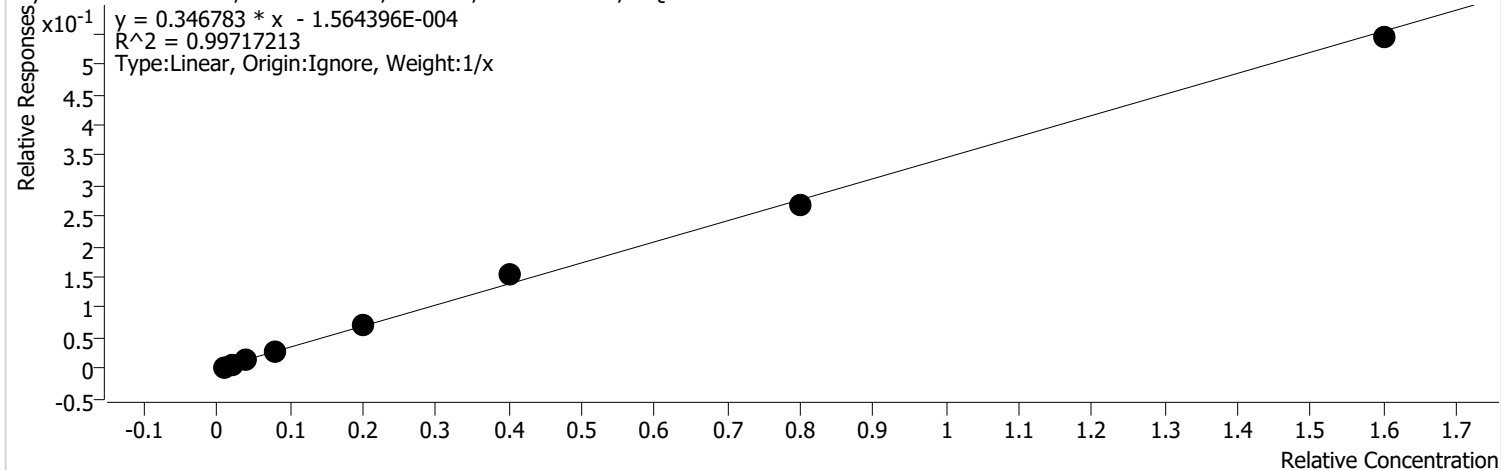
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1		4100	0.2000	0.3290	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	7378	0.5000	0.2384	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	17639	1.0000	0.2889	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	37657	2.0000	0.3028	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	86004	5.0000	0.2786	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	199214	10.0000	0.3210	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	405580	20.0000	0.3186	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	997738	40.0000	0.3827	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:12 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Allyl Chloride %RSE = 8.4

Allyl Chloride - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

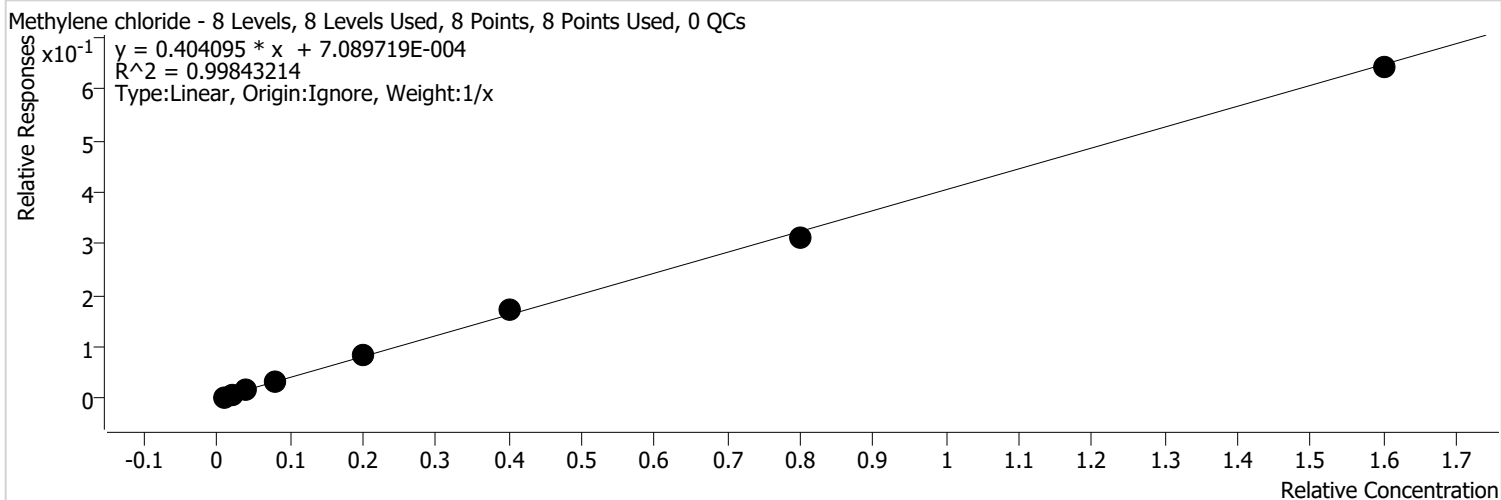


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1	x	3500	0.2000	0.2808	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	9953	0.5000	0.3216	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	22182	1.0000	0.3633	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	43129	2.0000	0.3468	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	112795	5.0000	0.3654	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	240356	10.0000	0.3873	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	425774	20.0000	0.3345	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	886353	40.0000	0.3399	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:12 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Methylene chloride %RSE = 8.4

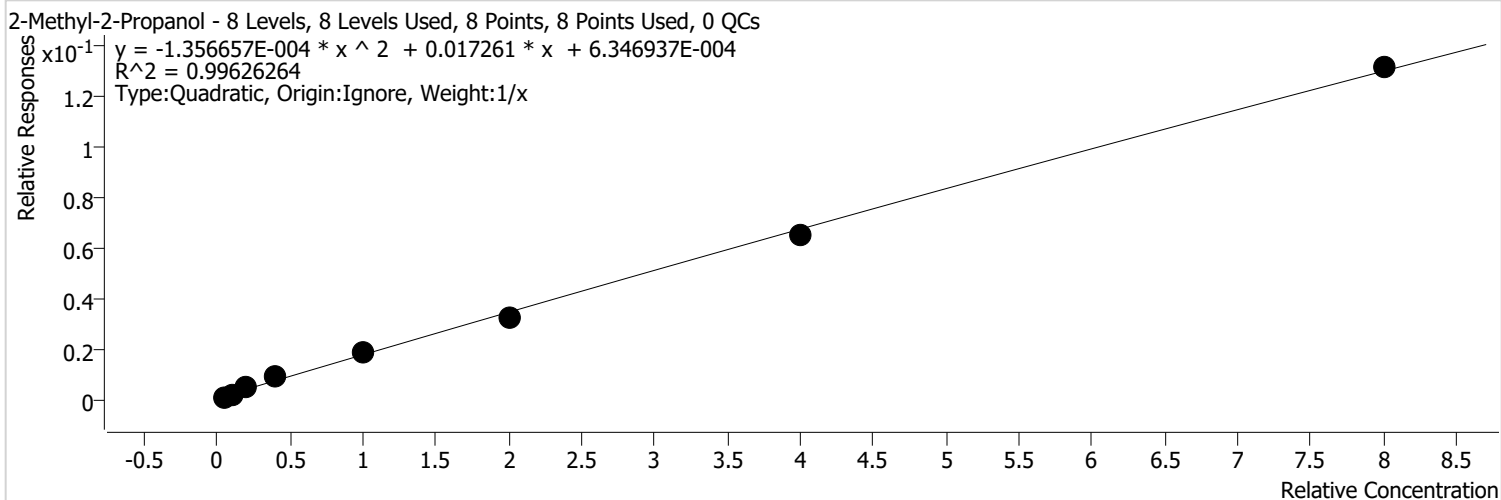


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1	x	5786	0.2000	0.4643	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	11849	0.5000	0.3828	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	27581	1.0000	0.4517	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	54213	2.0000	0.4359	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	132607	5.0000	0.4295	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	269264	10.0000	0.4339	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	498138	20.0000	0.3913	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	1044488	40.0000	0.4006	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:12 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

2-Methyl-2-Propanol %RSE = 19.4



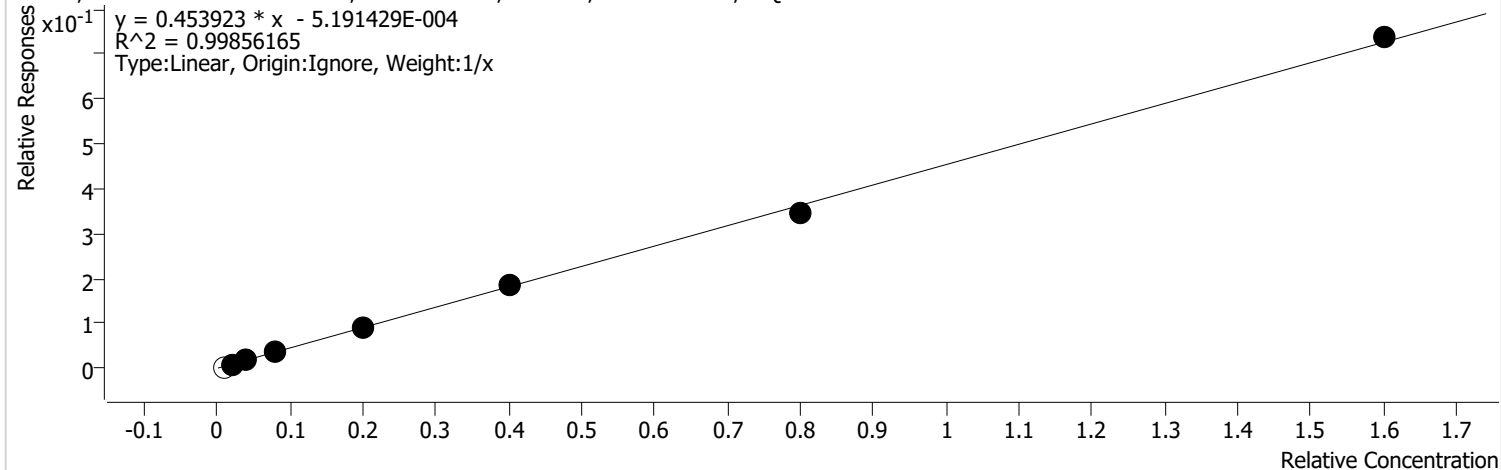
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1	x	1761	1.0000	0.0283	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	3416	2.5000	0.0221	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	6934	5.0000	0.0227	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	14652	10.0000	0.0236	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	28257	25.0000	0.0183	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	51010	50.0000	0.0164	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	103938	100.0000	0.0163	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	214121	200.0000	0.0164	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:12 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

trans-1,2-Dichloroethene %RSE = 6.9

trans-1,2-Dichloroethene - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 0 QCs



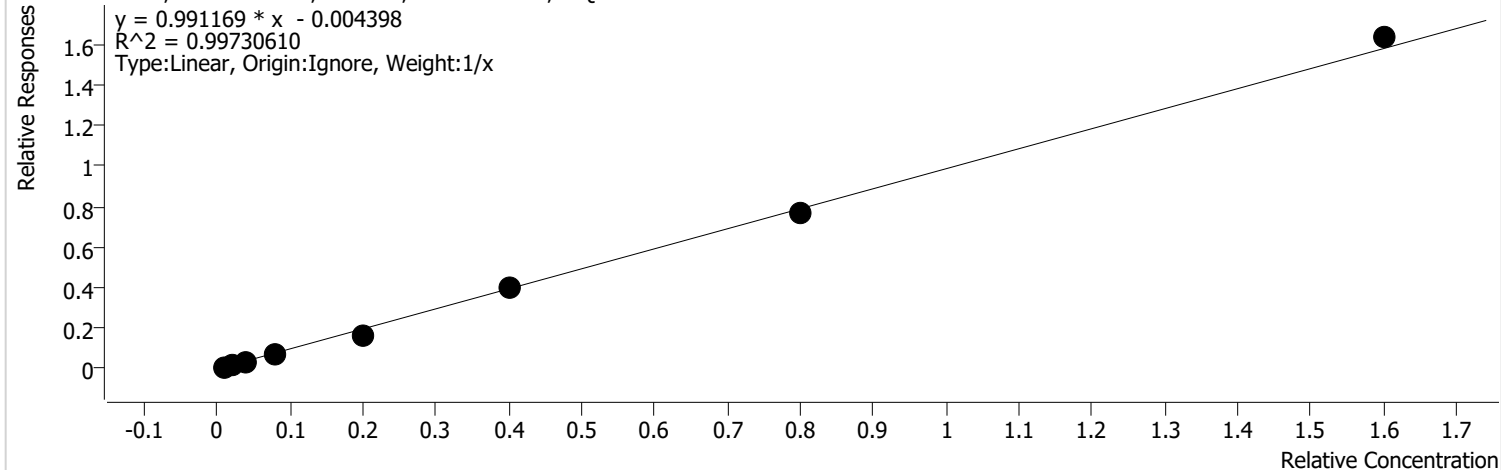
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1		4498	0.2000	0.3610	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	11639	0.5000	0.3760	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	28678	1.0000	0.4697	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	58137	2.0000	0.4675	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	140680	5.0000	0.4557	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	291365	10.0000	0.4695	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	545870	20.0000	0.4288	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	1199390	40.0000	0.4600	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:12 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

MTBE %RSE = 15.6

MTBE - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



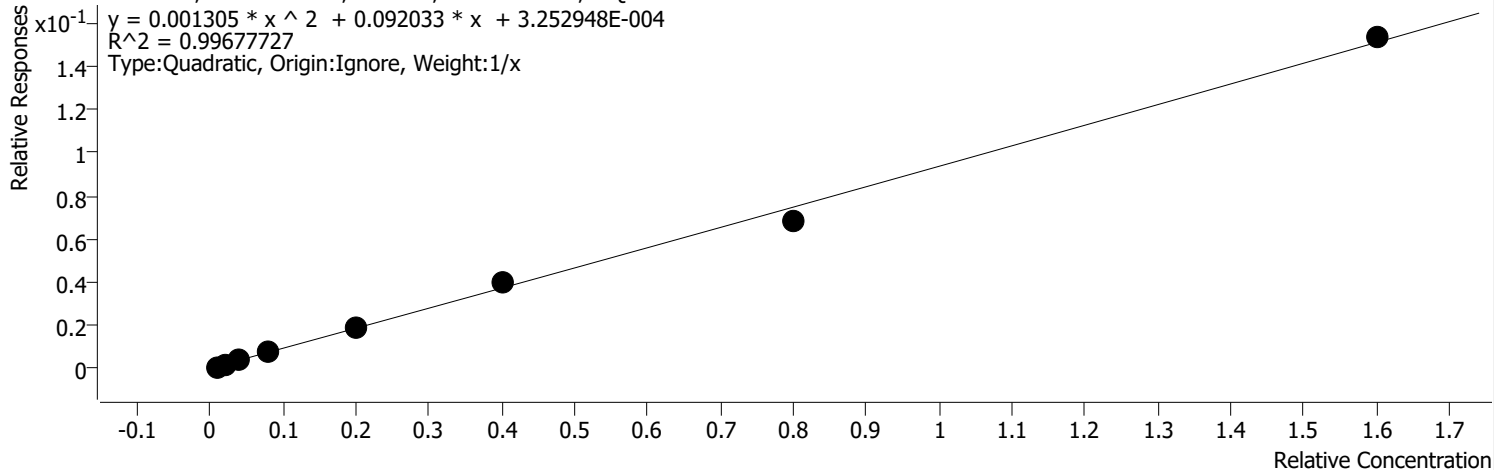
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1	x	9599	0.2000	0.7703	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	21283	0.5000	0.6876	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	49369	1.0000	0.8086	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	111432	2.0000	0.8960	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	256007	5.0000	0.8292	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	608033	10.0000	0.9798	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	1222293	20.0000	0.9601	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	2664727	40.0000	1.0220	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:12 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

n-Hexane %RSE = 10.9

n-Hexane - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs
 $y = 0.001305 * x^2 + 0.092033 * x + 3.252948E-004$
 $R^2 = 0.99677727$
 Type: Quadratic, Origin: Ignore, Weight: 1/x

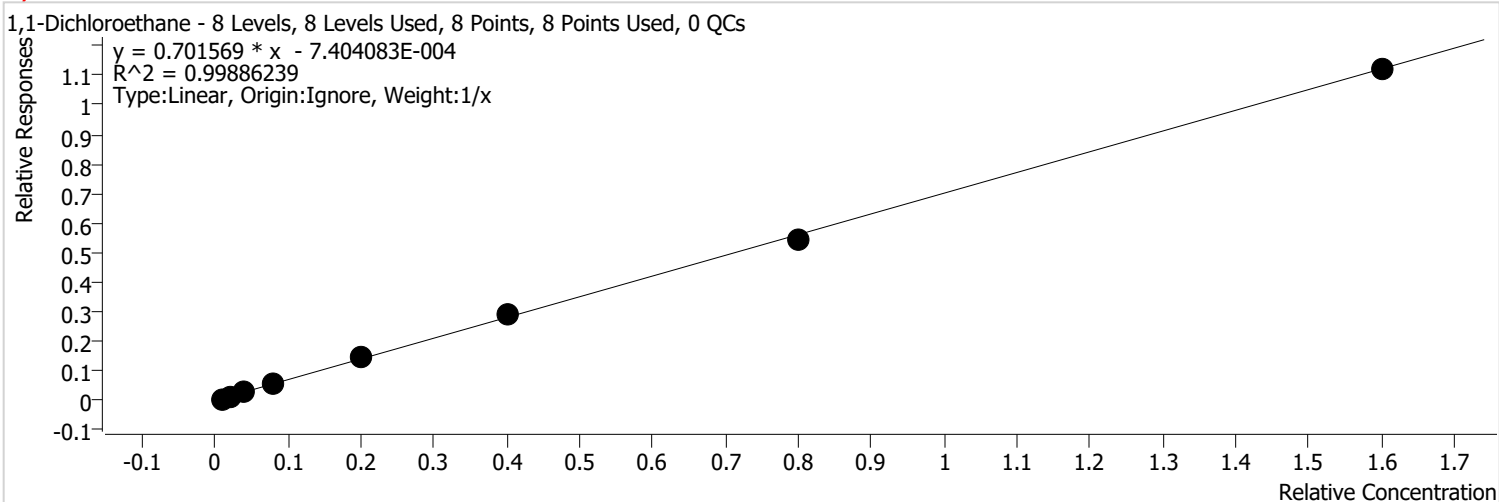


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1	x	1503	0.2000	0.1206	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	3112	0.5000	0.1005	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	6856	1.0000	0.1123	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	12739	2.0000	0.1024	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	29030	5.0000	0.0940	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	62604	10.0000	0.1009	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	109562	20.0000	0.0861	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	249485	40.0000	0.0957	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:12 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,1-Dichloroethane %RSE = 8.2



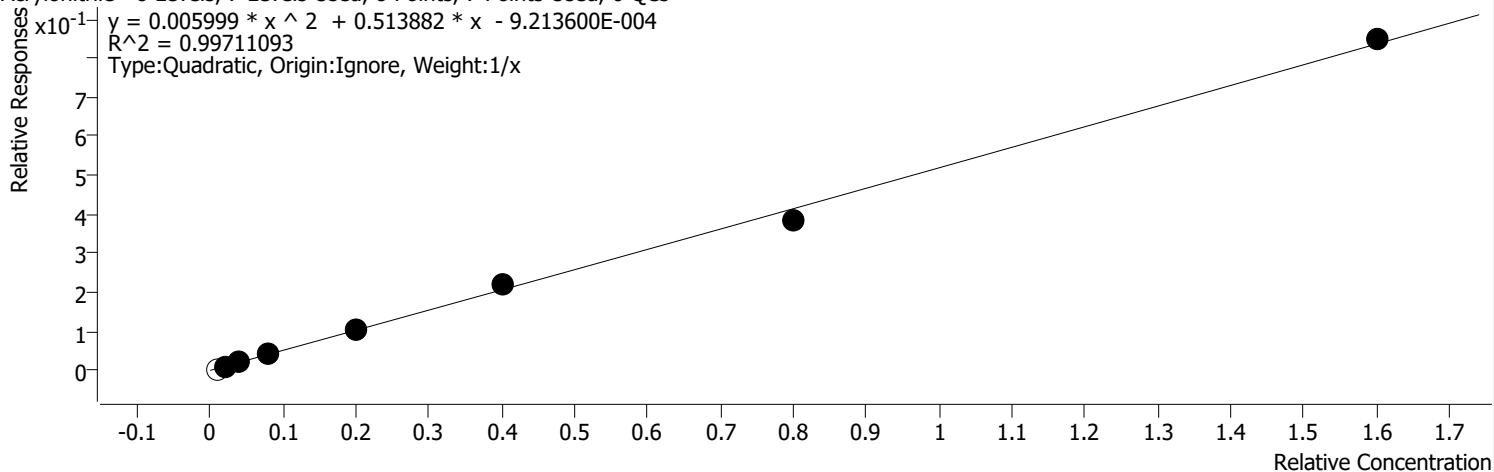
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1	x	7116	0.2000	0.5710	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	17465	0.5000	0.5642	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	45271	1.0000	0.7415	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	92427	2.0000	0.7432	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	221414	5.0000	0.7172	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	456309	10.0000	0.7353	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	861408	20.0000	0.6767	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	1823139	40.0000	0.6992	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:12 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Acrylonitrile %RSE = 9.5

Acrylonitrile - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 0 QCs

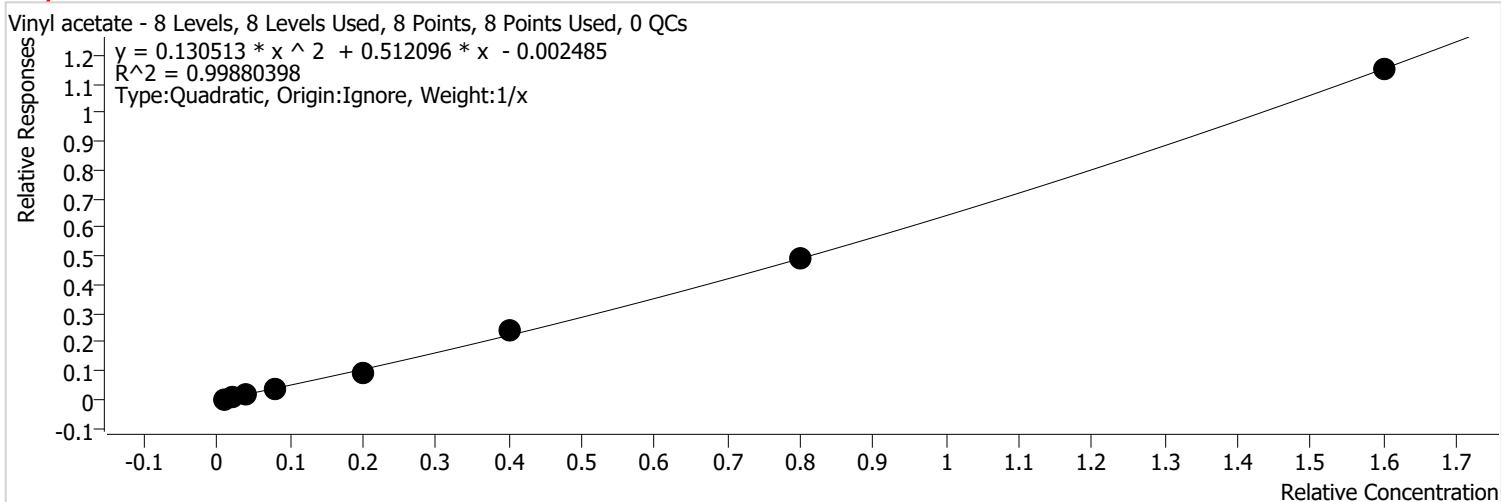


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1		5008	0.2000	0.4019	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	12308	0.5000	0.3976	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	32172	1.0000	0.5269	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	63954	2.0000	0.5142	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	162325	5.0000	0.5258	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	343317	10.0000	0.5532	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	610054	20.0000	0.4792	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	1381250	40.0000	0.5298	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:12 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Vinyl acetate %RSE = 14.6



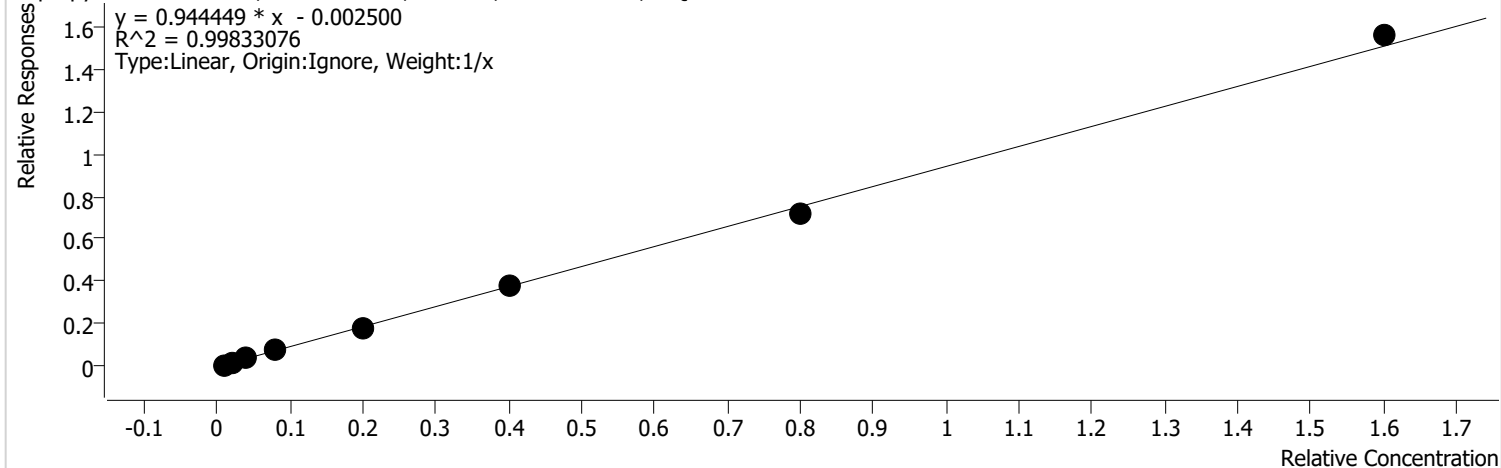
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1	x	4249	0.2000	0.3409	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	10314	0.5000	0.3332	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	25246	1.0000	0.4135	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	57363	2.0000	0.4613	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	147206	5.0000	0.4768	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	371807	10.0000	0.5991	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	781548	20.0000	0.6139	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	1870882	40.0000	0.7175	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:12 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Isopropyl ether %RSE = 8.2

Isopropyl ether - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



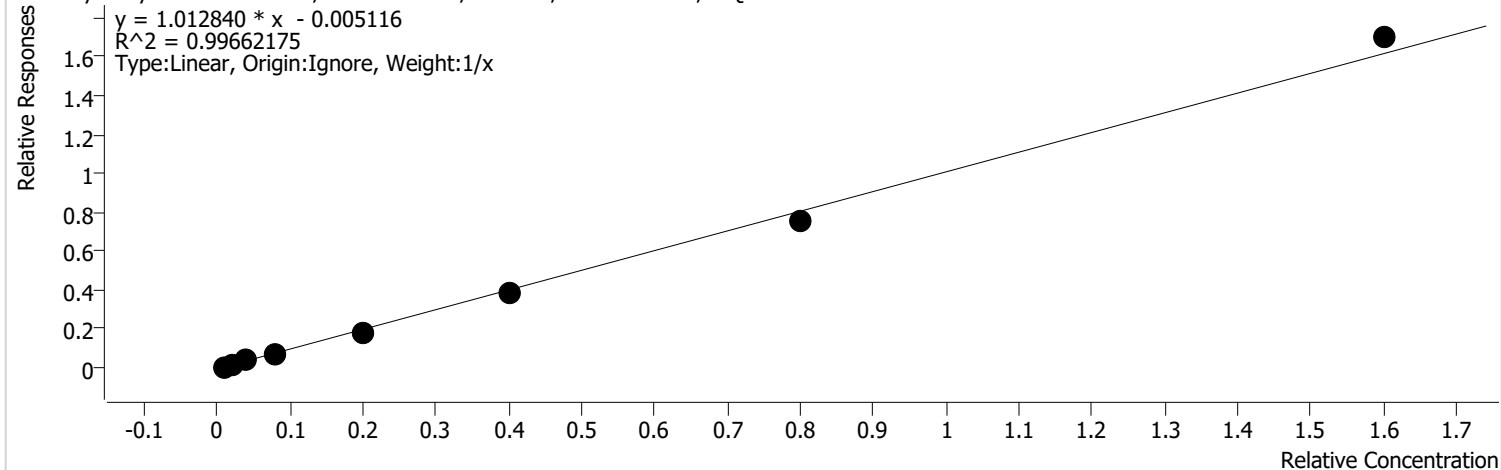
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1	x	9788	0.2000	0.7854	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	23121	0.5000	0.7470	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	54024	1.0000	0.8848	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	113384	2.0000	0.9117	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	267340	5.0000	0.8659	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	579940	10.0000	0.9345	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	1142575	20.0000	0.8975	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	2539833	40.0000	0.9741	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:12 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

tert-Butyl Ethyl Ether %RSE = 11.9

tert-Butyl Ethyl Ether - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

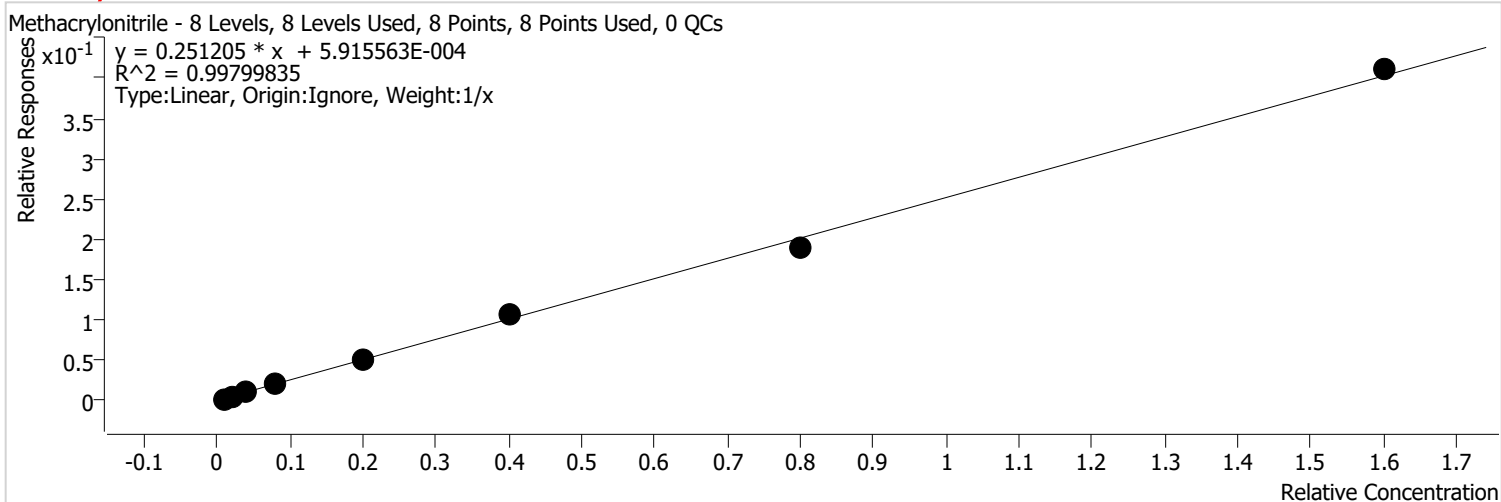


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1	x	7837	0.2000	0.6289	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	21525	0.5000	0.6954	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	53181	1.0000	0.8710	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	111804	2.0000	0.8990	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	276468	5.0000	0.8955	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	602261	10.0000	0.9705	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	1204630	20.0000	0.9463	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	2766207	40.0000	1.0609	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:12 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Methacrylonitrile %RSE = 8.1



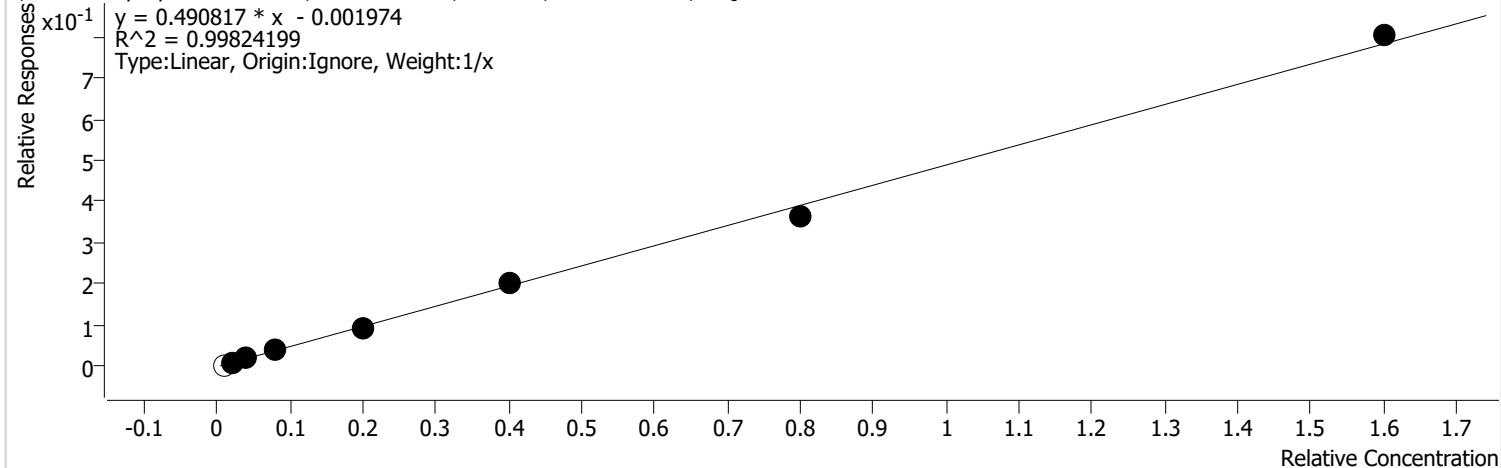
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1	x	3620	0.2000	0.2905	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	8978	0.5000	0.2900	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	17866	1.0000	0.2926	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	32155	2.0000	0.2586	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	77858	5.0000	0.2522	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	164620	10.0000	0.2653	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	299567	20.0000	0.2353	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	668484	40.0000	0.2564	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:12 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

2,2-Dichloropropane %RSE = 4.3

2,2-Dichloropropane - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 0 QCs



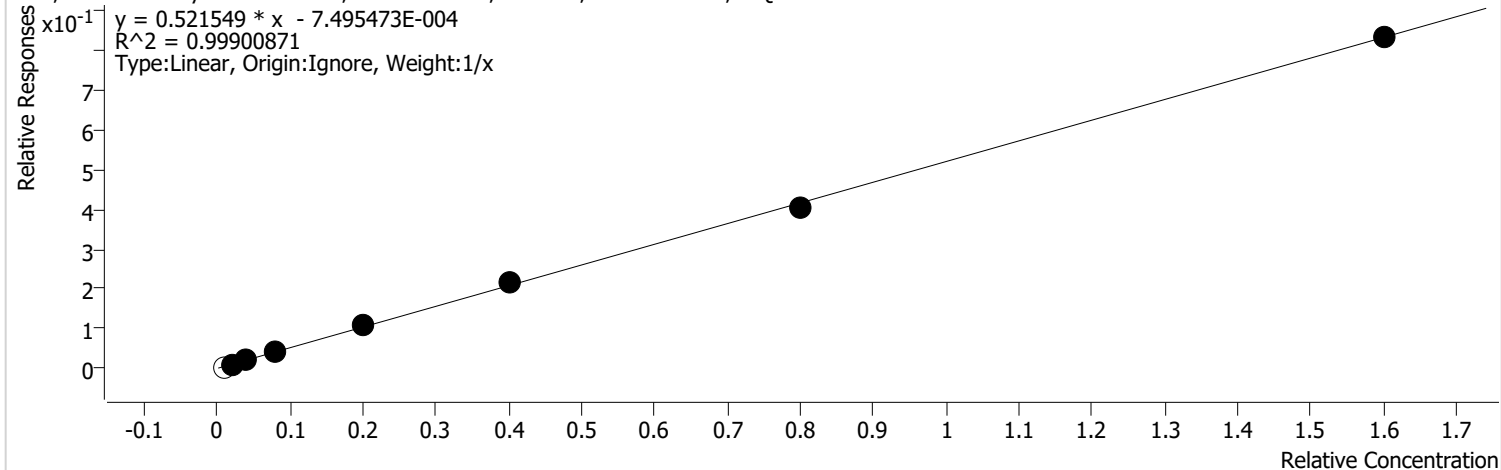
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1		4370	0.2000	0.3506	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	11690	0.5000	0.3777	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	28519	1.0000	0.4671	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	58400	2.0000	0.4696	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	145405	5.0000	0.4710	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	309746	10.0000	0.4991	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	582857	20.0000	0.4579	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	1309243	40.0000	0.5021	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:12 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

cis-1,2-Dichloroethylene %RSE = 7.9

cis-1,2-Dichloroethylene - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 0 QCs



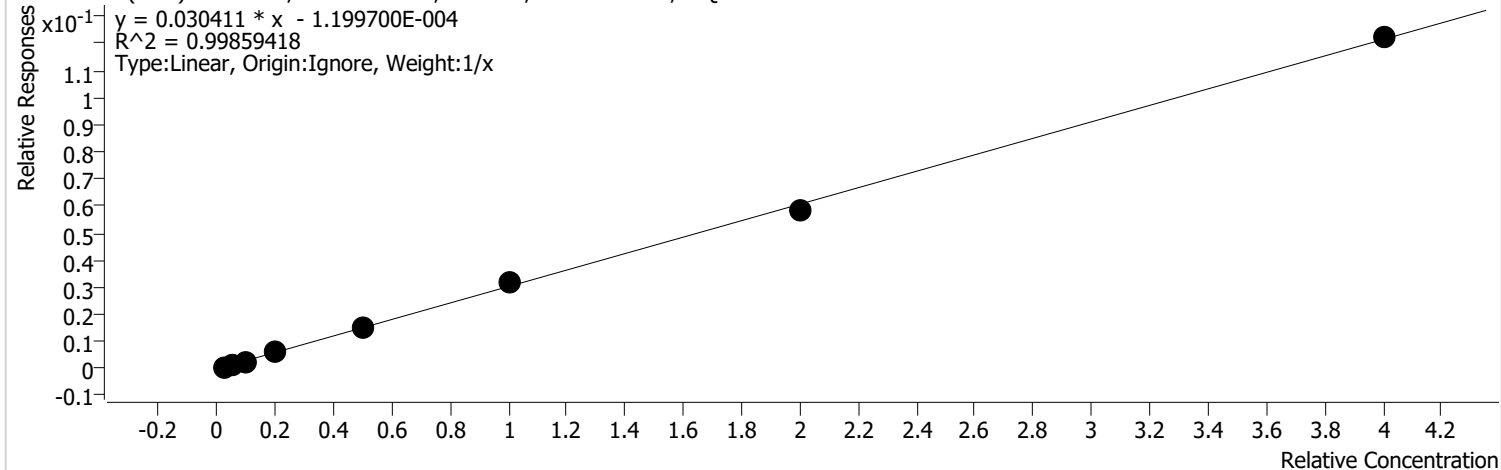
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1		5267	0.2000	0.4226	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	12643	0.5000	0.4085	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	32139	1.0000	0.5264	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	68006	2.0000	0.5468	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	162859	5.0000	0.5275	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	337793	10.0000	0.5443	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	641824	20.0000	0.5042	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	1357262	40.0000	0.5206	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:12 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

2-Butanone (MEK) %RSE = 14.1

2-Butanone (MEK) - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



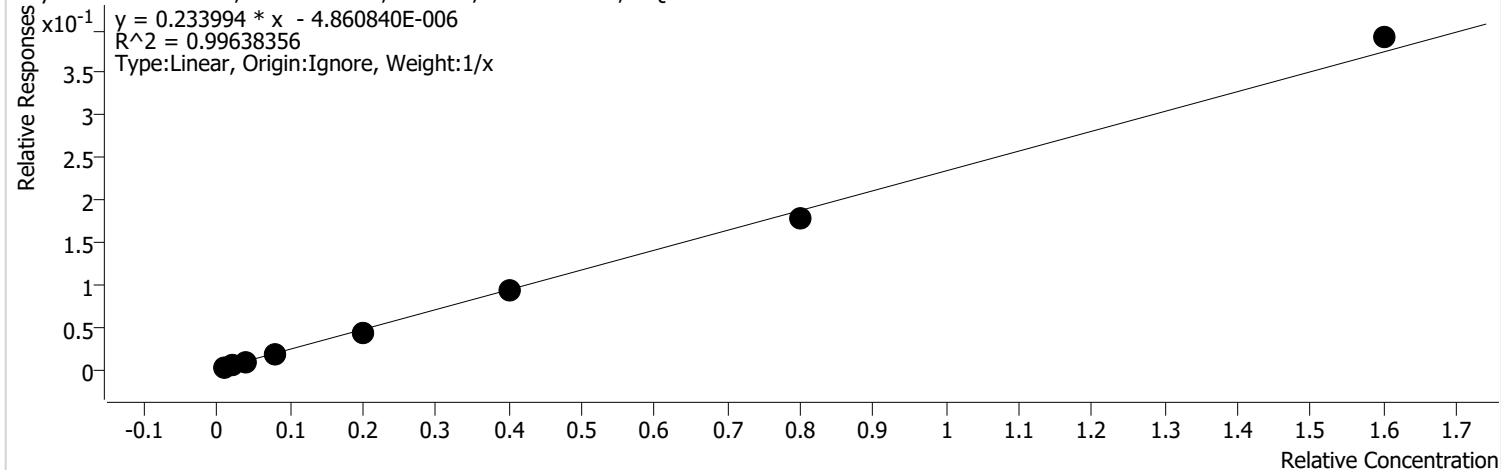
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1	x	980	0.5000	0.0315	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	1607	1.2500	0.0208	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	4207	2.5000	0.0276	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	9384	5.0000	0.0302	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	24005	12.5000	0.0311	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	49354	25.0000	0.0318	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	92998	50.0000	0.0292	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	198988	100.0000	0.0305	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:12 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Ethyl acetate %RSE = 22.1

Ethyl acetate - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

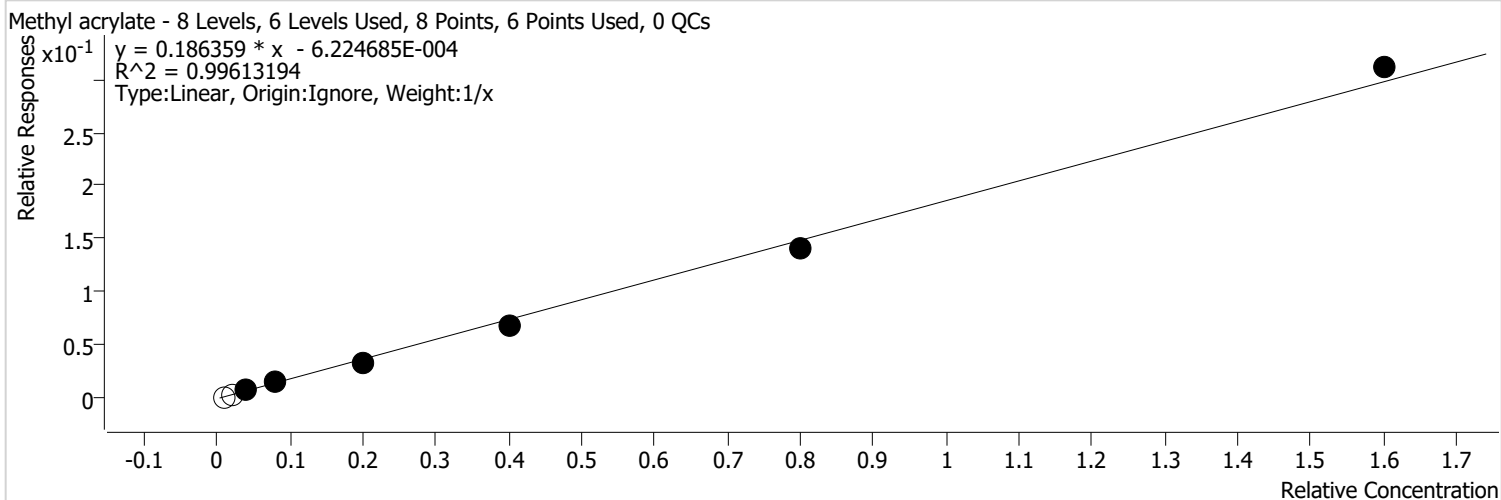


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1	x	4198	0.2000	0.3368	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	5156	0.5000	0.1666	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	14469	1.0000	0.2370	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	27169	2.0000	0.2185	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	66631	5.0000	0.2158	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	142905	10.0000	0.2303	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	281913	20.0000	0.2215	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	637427	40.0000	0.2445	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:12 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Methyl acrylate %RSE = 8.6



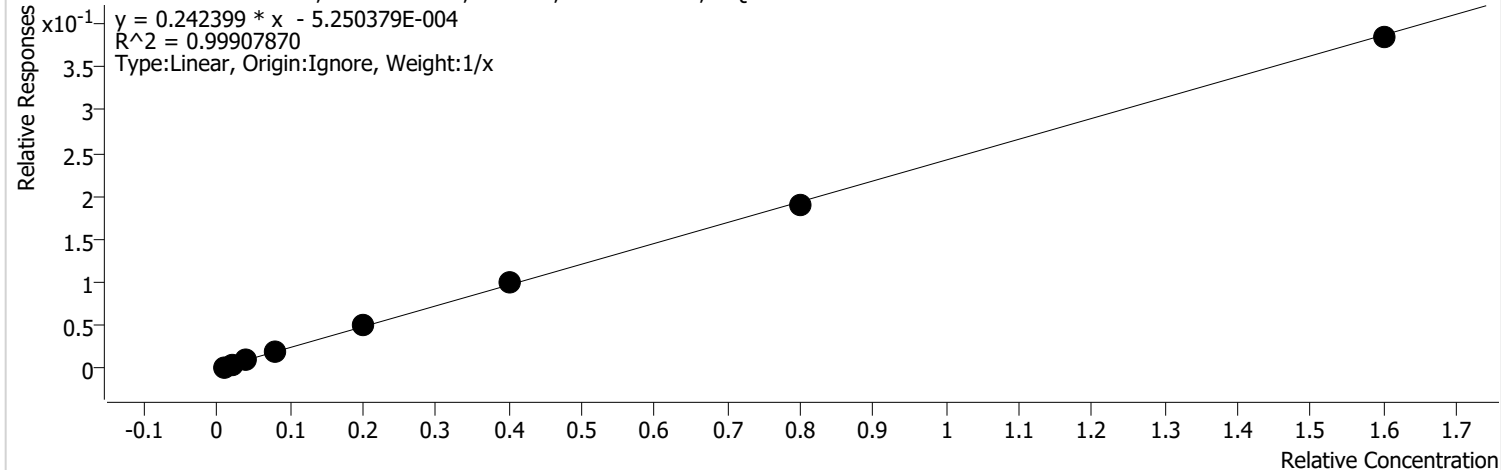
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1		1851	0.2000	0.1486	
D:\GC-19\Data\090723\090735.D	Calibration	2		4813	0.5000	0.1555	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	11185	1.0000	0.1832	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	24352	2.0000	0.1958	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	51232	5.0000	0.1659	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	107235	10.0000	0.1728	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	225275	20.0000	0.1770	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	506538	40.0000	0.1943	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:12 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Bromochloromethane %RSE = 7.0

Bromochloromethane - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



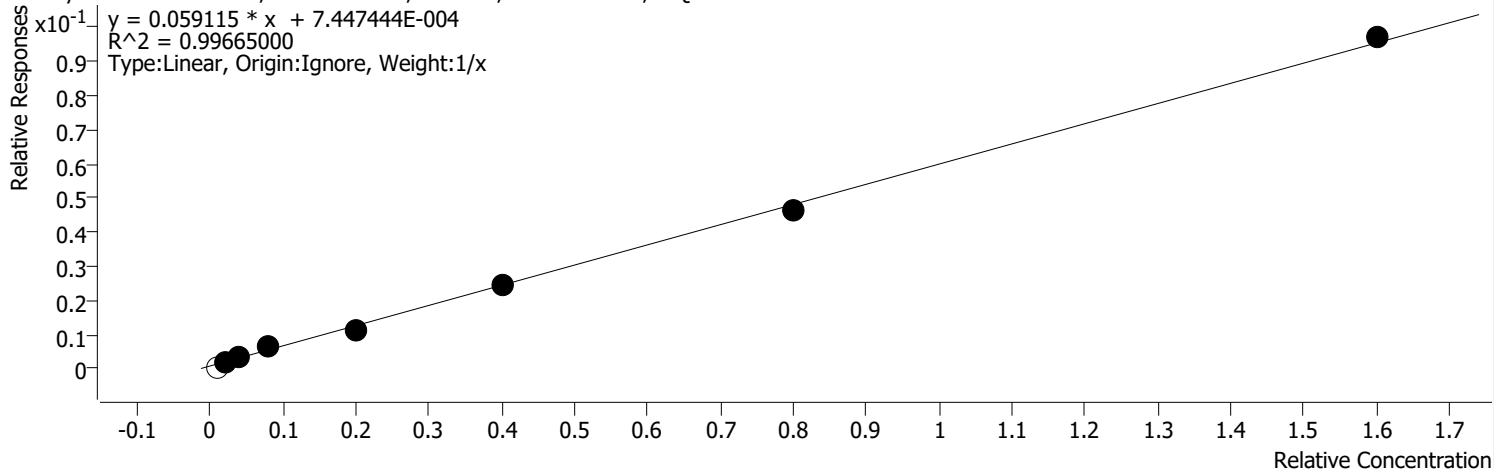
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1	x	2093	0.2000	0.1680	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	5697	0.5000	0.1841	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	14695	1.0000	0.2407	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	31201	2.0000	0.2509	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	77204	5.0000	0.2501	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	156979	10.0000	0.2530	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	300381	20.0000	0.2360	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	626071	40.0000	0.2401	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:12 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Tetrahydrofuran %RSE = 13.5

Tetrahydrofuran - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 0 QCs



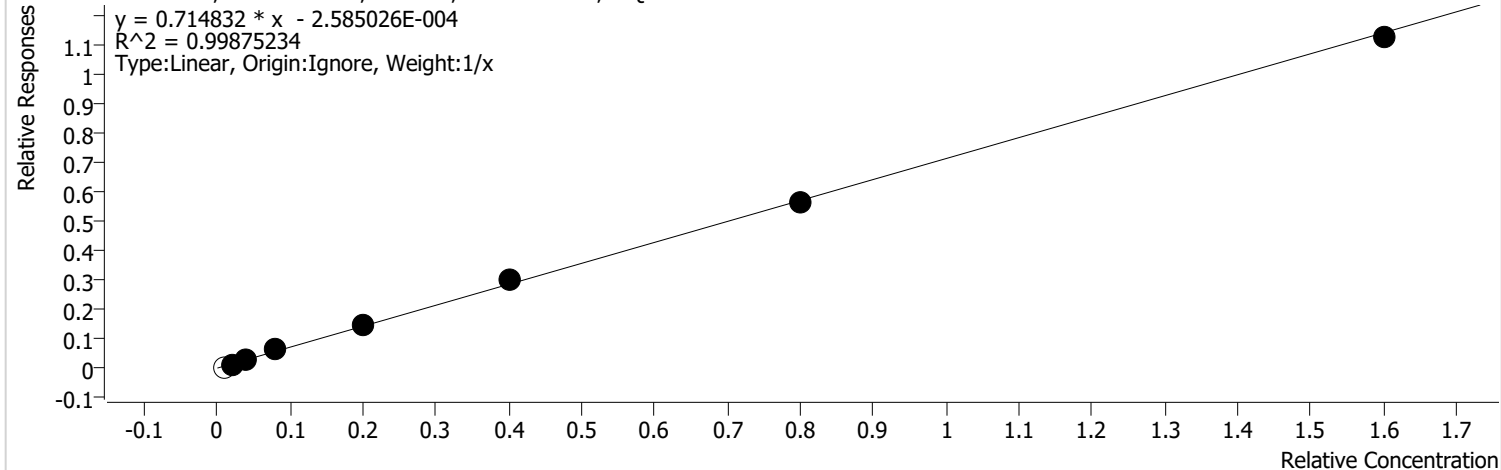
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1		801	0.2000	0.0643	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	2728	0.5000	0.0881	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	4749	1.0000	0.0778	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	10301	2.0000	0.0828	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	17525	5.0000	0.0568	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	38500	10.0000	0.0620	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	73697	20.0000	0.0579	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	157831	40.0000	0.0605	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:12 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

chloroform %RSE = 9.0

chloroform - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 0 QCs

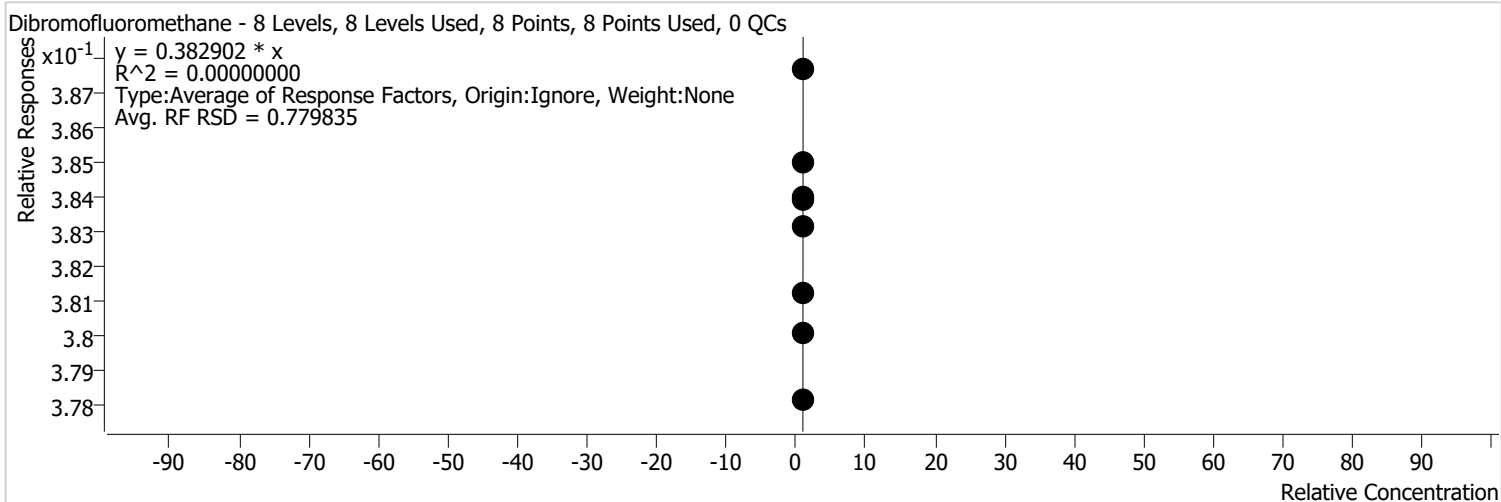


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1		6827	0.2000	0.5478	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	17941	0.5000	0.5796	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	44831	1.0000	0.7343	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	94498	2.0000	0.7599	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	227936	5.0000	0.7383	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	470685	10.0000	0.7585	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	896416	20.0000	0.7042	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	1835972	40.0000	0.7042	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin	Analyst Name	FA\GC19
Analysis Time	9/11/2023 9:40 AM	Reporter Name	FA\GC19
Report Time	9/11/2023 9:58:12 AM	Batch State	Processed
Last Calib Update	9/11/2023 7:57 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Dibromofluoromethane %RSE =



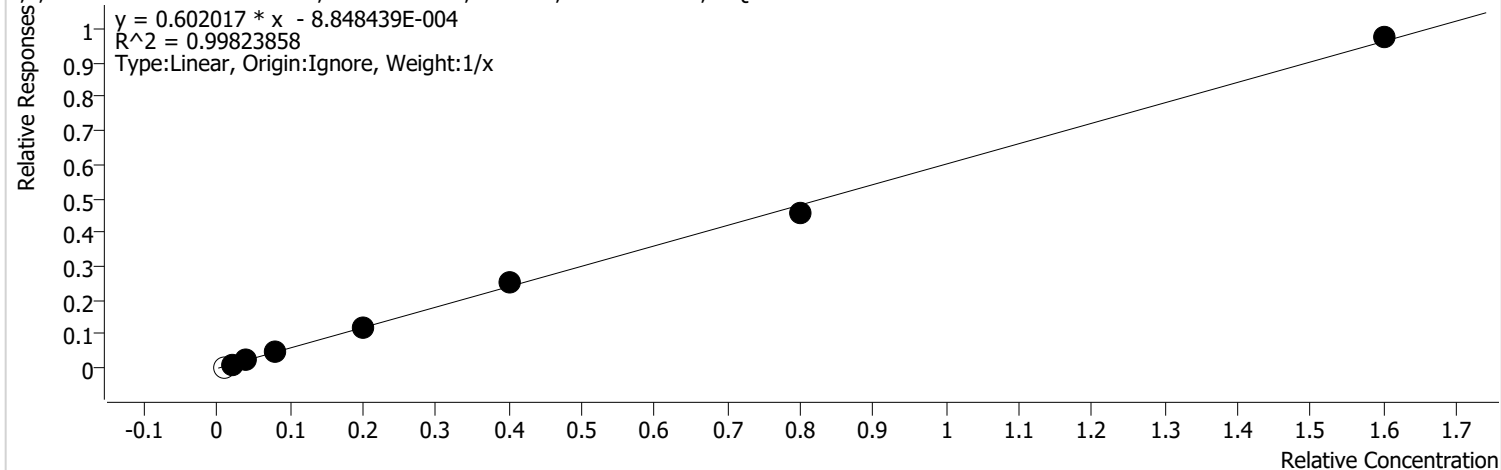
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090741.D	Calibration	8	x	616277	25.0000	0.3782	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	604851	25.0000	0.3801	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	597342	25.0000	0.3850	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	591429	25.0000	0.3831	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	592595	25.0000	0.3812	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	586184	25.0000	0.3840	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	594145	25.0000	0.3839	
D:\GC-19\Data\090723\090734.D	Calibration	1	x	603869	25.0000	0.3877	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:13 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,1,1-Trichloroethane %RSE = 7.2

1,1,1-Trichloroethane - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 0 QCs



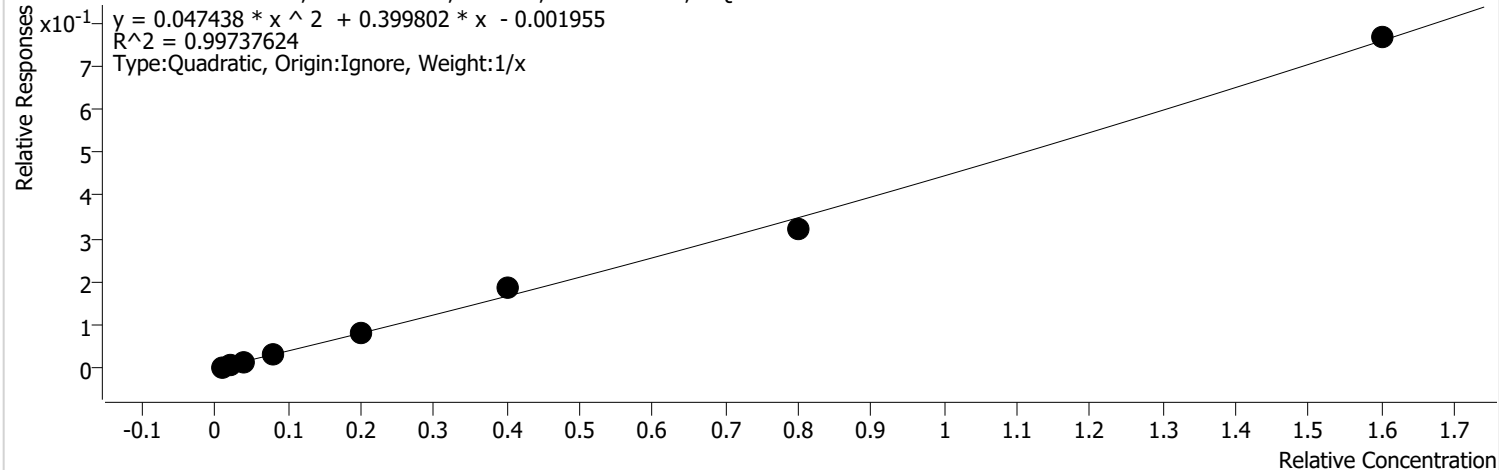
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1		6328	0.2000	0.5078	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	15052	0.5000	0.4863	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	37434	1.0000	0.6131	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	77289	2.0000	0.6215	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	184727	5.0000	0.5984	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	393367	10.0000	0.6339	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	721734	20.0000	0.5669	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	1586253	40.0000	0.6084	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:13 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

carbon tetrachloride %RSE = 11.3

carbon tetrachloride - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

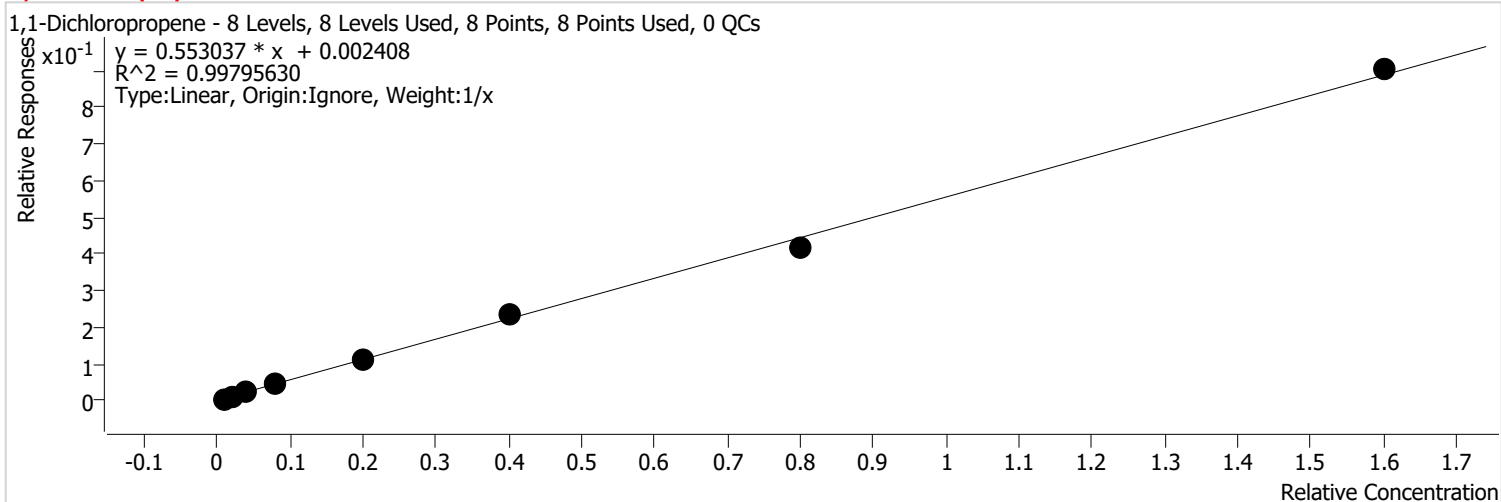


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1	x	2671	0.2000	0.2144	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	7284	0.5000	0.2353	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	21295	1.0000	0.3488	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	46304	2.0000	0.3723	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	123799	5.0000	0.4010	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	283428	10.0000	0.4567	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	517372	20.0000	0.4064	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	1249013	40.0000	0.4790	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:13 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,1-Dichloropropene %RSE = 10.5



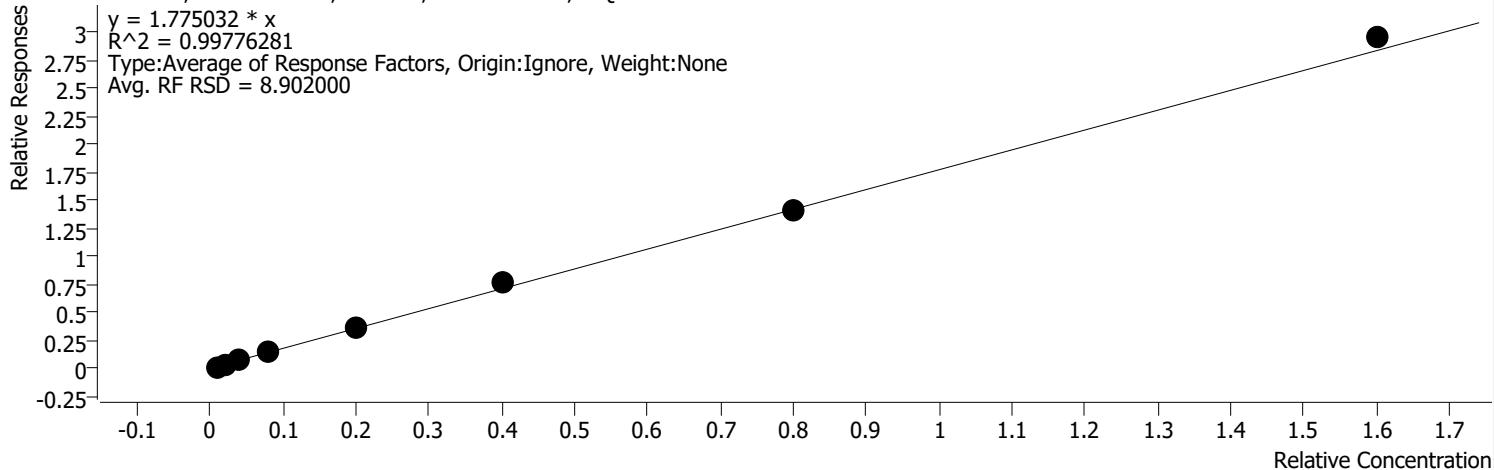
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1	x	9380	0.2000	0.7527	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	20574	0.5000	0.6647	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	42574	1.0000	0.6973	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	76647	2.0000	0.6163	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	173183	5.0000	0.5610	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	361213	10.0000	0.5821	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	663152	20.0000	0.5209	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	1469834	40.0000	0.5637	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:13 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Benzene %RSE = 8.9

Benzene - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

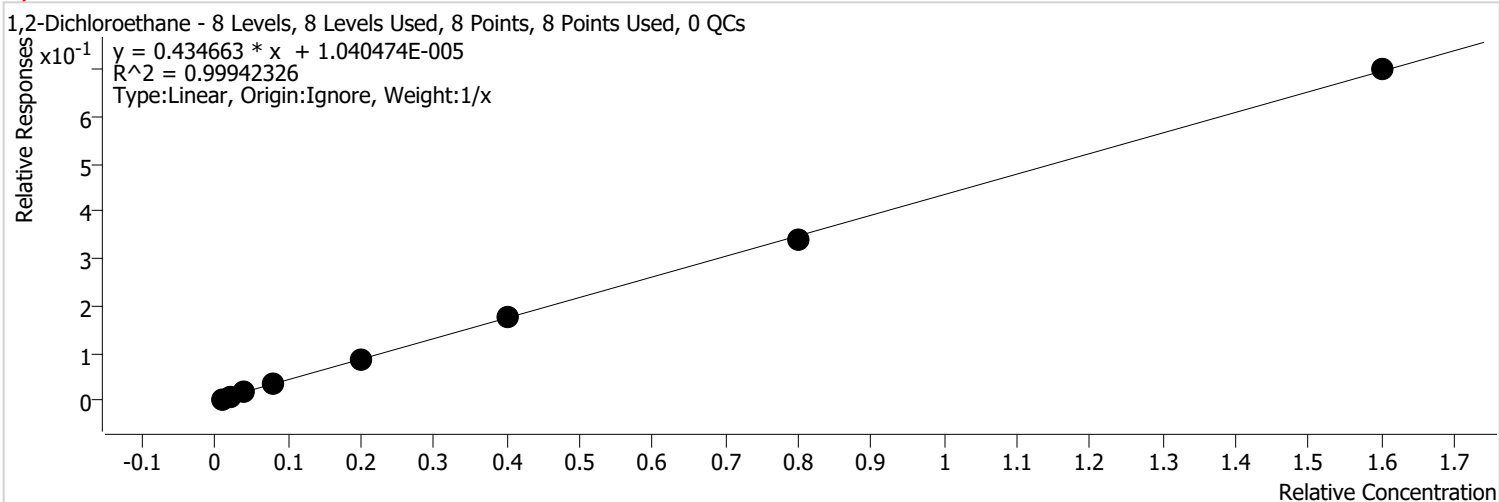


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1	x	19383	0.2000	1.5553	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	46714	0.5000	1.5092	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	115411	1.0000	1.8902	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	237446	2.0000	1.9093	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	566543	5.0000	1.8351	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	1178419	10.0000	1.8989	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	2234286	20.0000	1.7551	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	4816223	40.0000	1.8472	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:13 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,2-Dichloroethane %RSE = 7.5



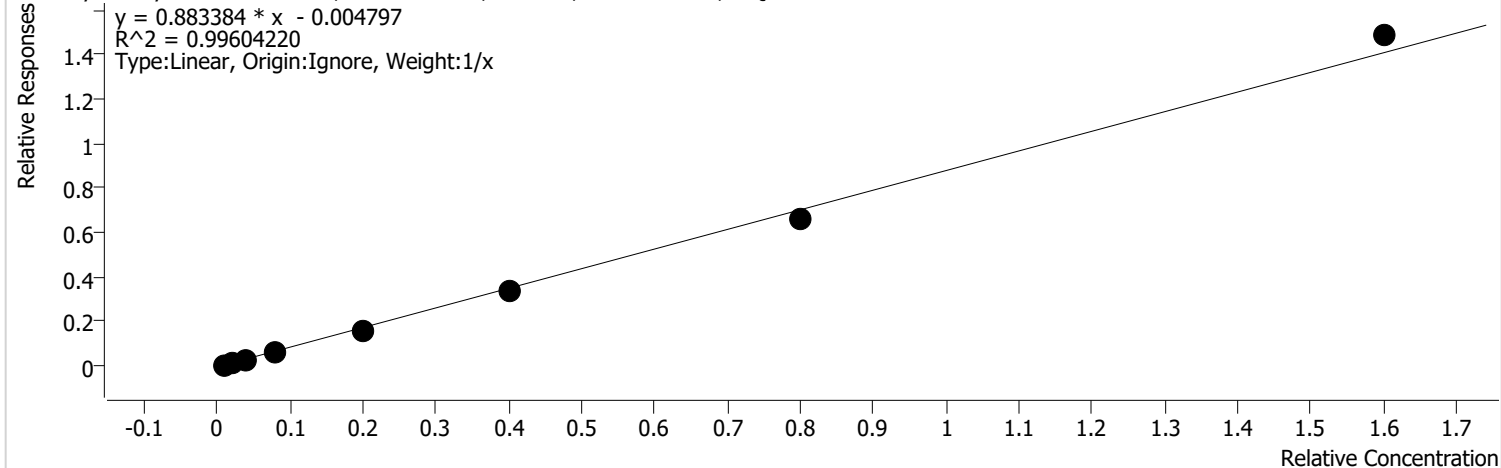
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1	x	5041	0.2000	0.4045	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	12164	0.5000	0.3930	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	29377	1.0000	0.4811	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	58730	2.0000	0.4722	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	132361	5.0000	0.4287	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	271167	10.0000	0.4370	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	542794	20.0000	0.4264	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	1138517	40.0000	0.4367	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:13 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

tert-Amyl Methyl Ether %RSE = 13.4

tert-Amyl Methyl Ether - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

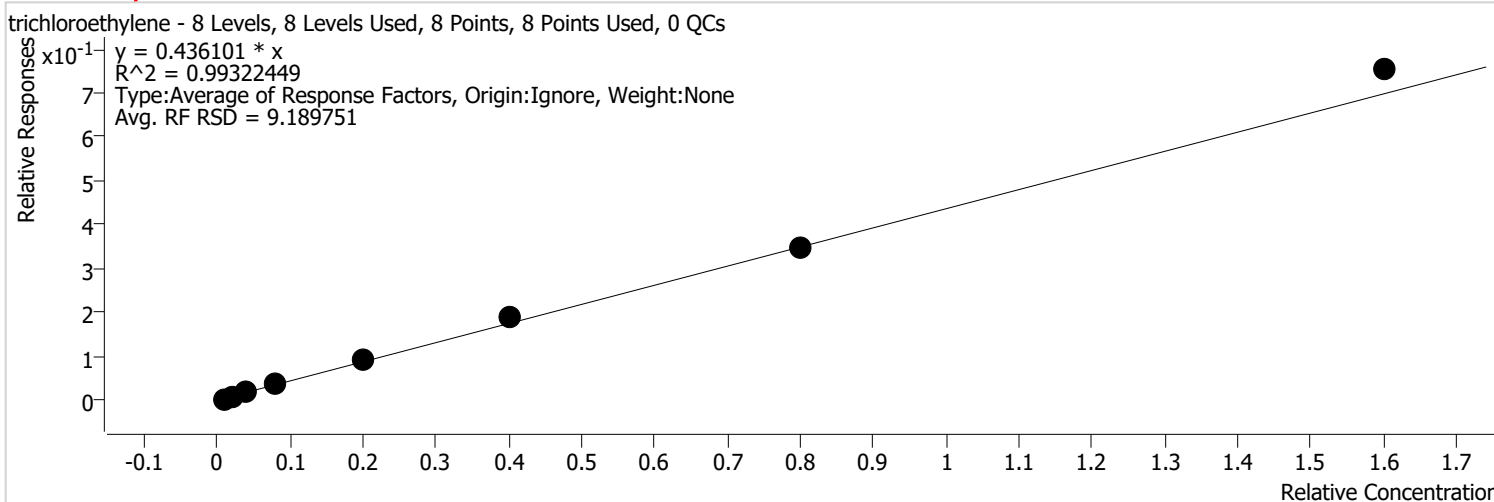


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1	x	6690	0.2000	0.5368	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	18730	0.5000	0.6051	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	44178	1.0000	0.7236	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	96643	2.0000	0.7771	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	235616	5.0000	0.7632	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	524087	10.0000	0.8445	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	1049079	20.0000	0.8241	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	2420448	40.0000	0.9283	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:13 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

trichloroethylene %RSE = 9.2

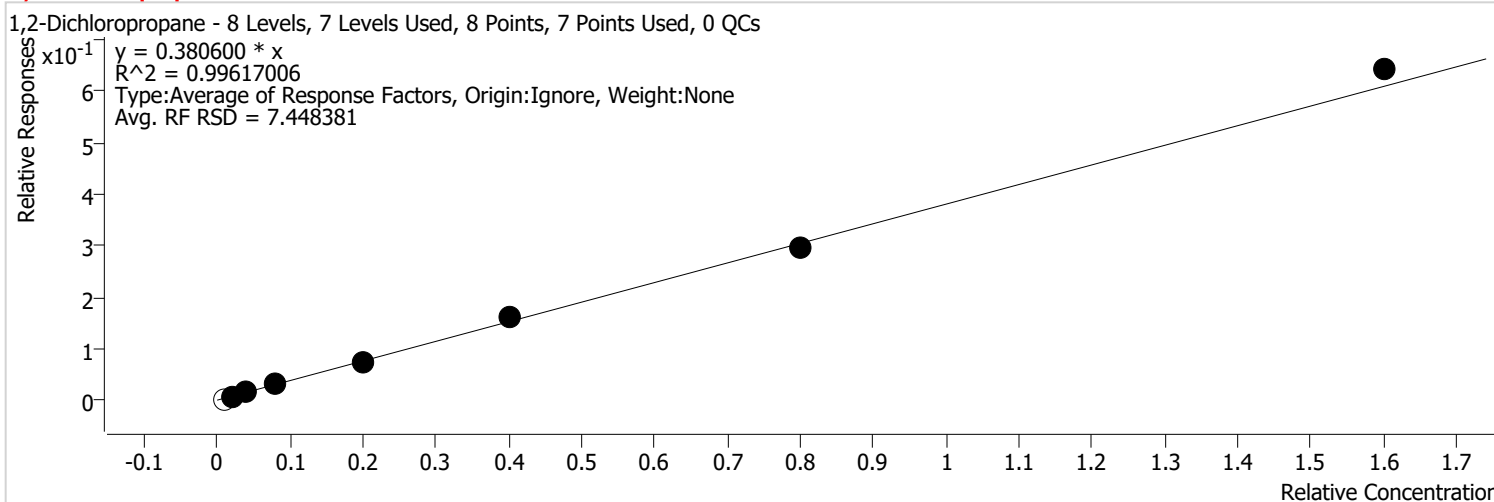


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1	x	4571	0.2000	0.3668	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	11769	0.5000	0.3802	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	27852	1.0000	0.4562	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	57179	2.0000	0.4598	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	139123	5.0000	0.4506	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	289818	10.0000	0.4670	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	557180	20.0000	0.4377	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	1226862	40.0000	0.4705	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:13 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,2-Dichloropropane %RSE = 7.4



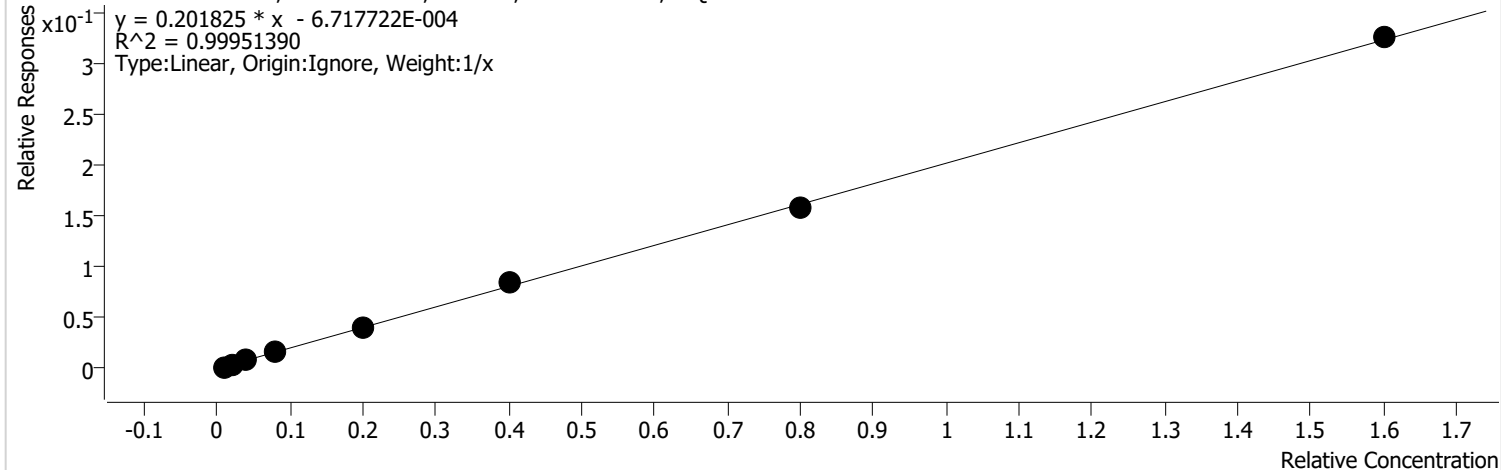
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1		4261	0.2000	0.3419	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	10006	0.5000	0.3233	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	23757	1.0000	0.3891	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	49771	2.0000	0.4002	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	116237	5.0000	0.3765	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	250655	10.0000	0.4039	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	471465	20.0000	0.3703	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	1045265	40.0000	0.4009	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:13 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Dibromomethane %RSE = 4.6

Dibromomethane - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

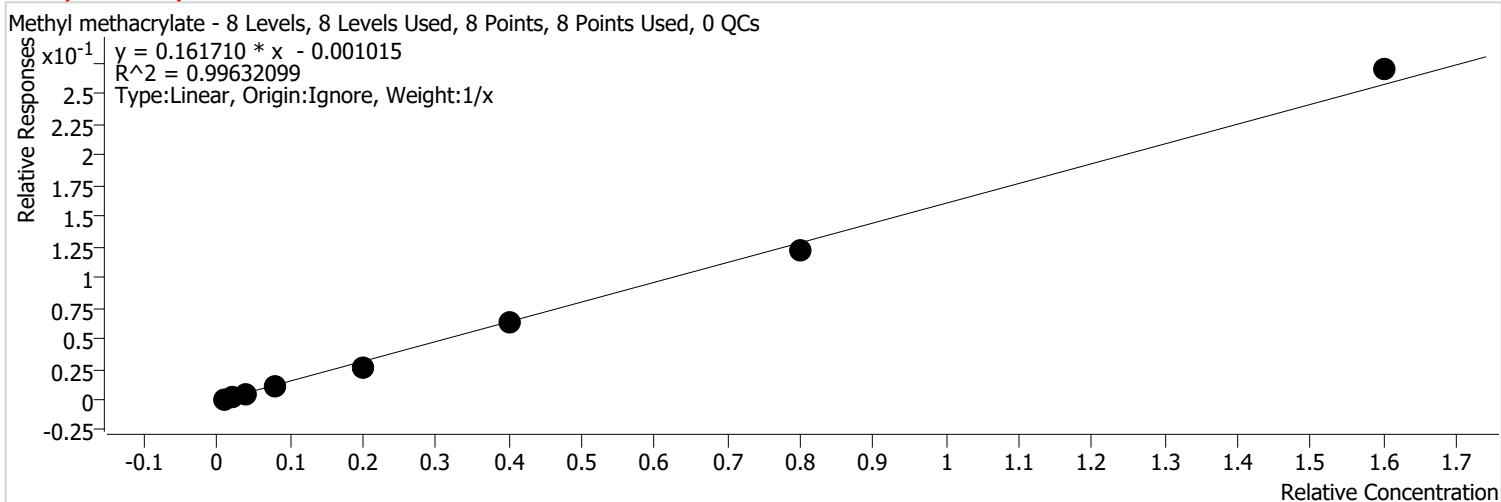


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1	x	1615	0.2000	0.1296	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	4696	0.5000	0.1517	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	11487	1.0000	0.1881	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	24441	2.0000	0.1965	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	59930	5.0000	0.1941	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	128473	10.0000	0.2070	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	249031	20.0000	0.1956	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	528842	40.0000	0.2028	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:13 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Methyl methacrylate %RSE = 15.1

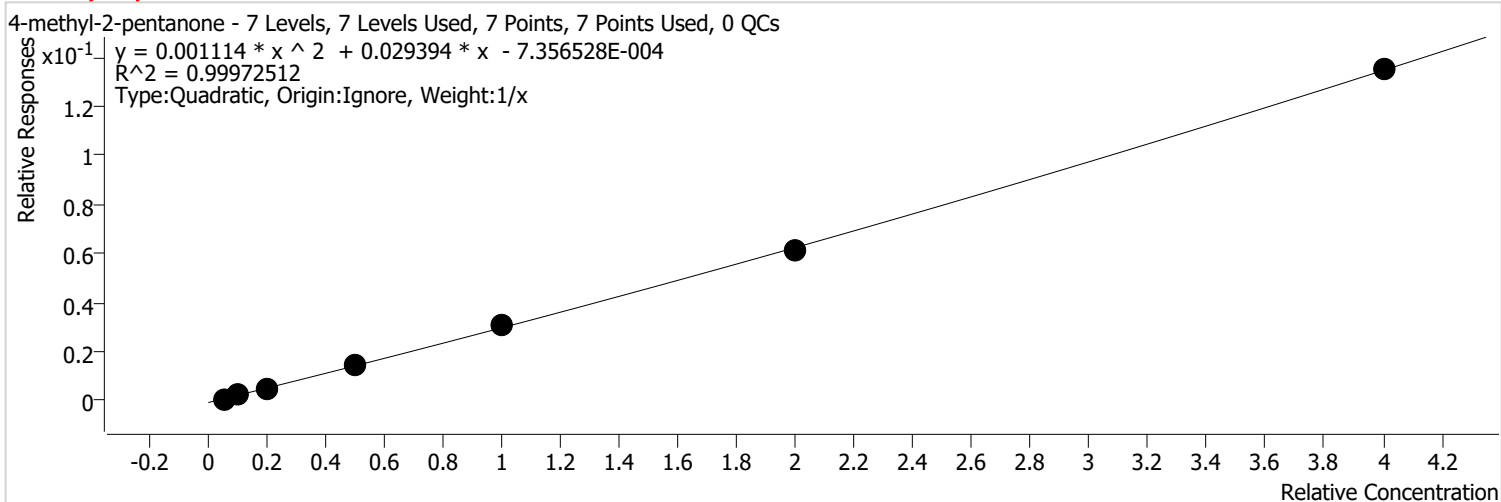


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1	x	1080	0.2000	0.0867	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	3181	0.5000	0.1028	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	7870	1.0000	0.1289	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	17255	2.0000	0.1387	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	41050	5.0000	0.1330	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	96580	10.0000	0.1556	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	196060	20.0000	0.1540	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	439799	40.0000	0.1687	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:13 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

4-methyl-2-pentanone %RSE = 3.7



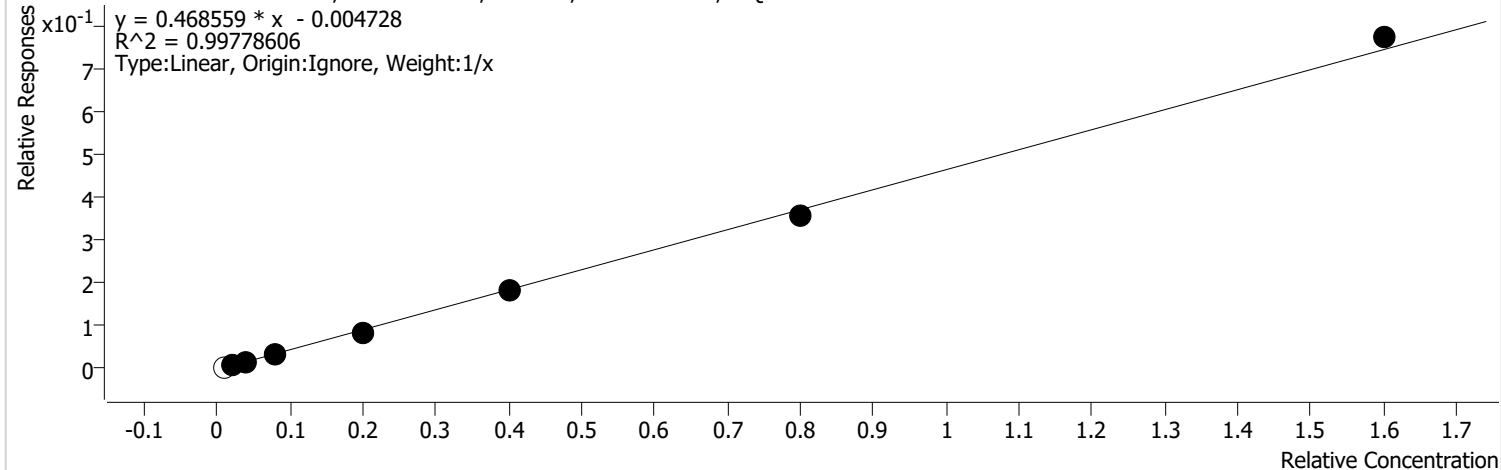
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090735.D	Calibration	2	x	1246	1.2500	0.0161	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	3204	2.5000	0.0210	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	7927	5.0000	0.0255	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	21666	12.5000	0.0281	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	47826	25.0000	0.0308	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	97927	50.0000	0.0308	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	219851	100.0000	0.0337	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:13 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

bromodichloromethane %RSE = 7.7

bromodichloromethane - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 0 QCs



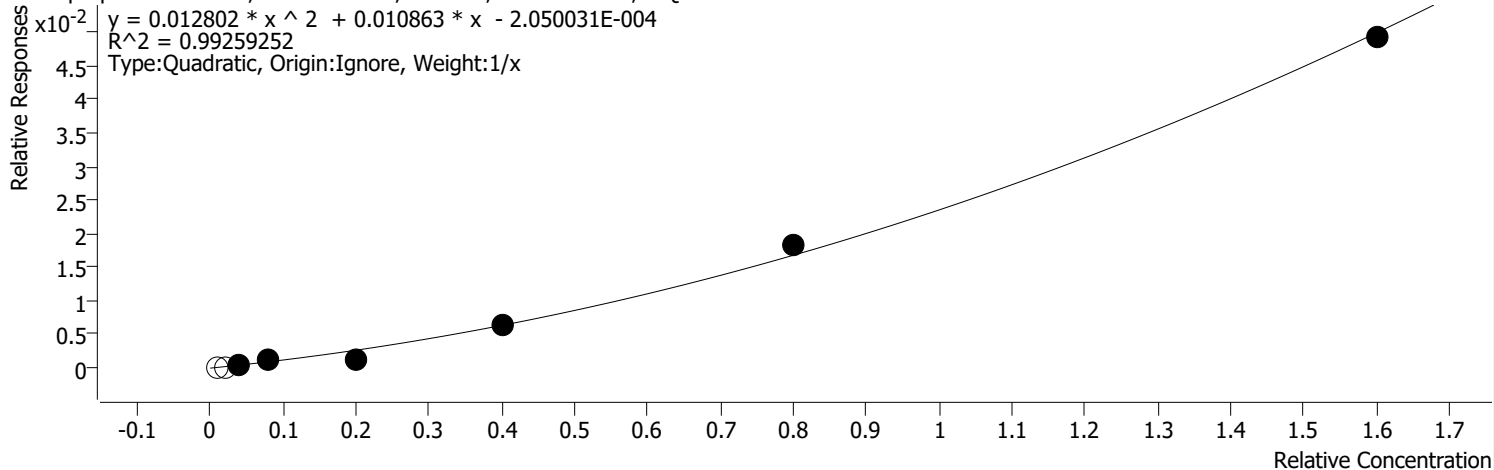
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1		3450	0.2000	0.2769	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	8940	0.5000	0.2888	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	22587	1.0000	0.3699	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	48006	2.0000	0.3860	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	125016	5.0000	0.4049	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	276859	10.0000	0.4461	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	563973	20.0000	0.4430	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	1259469	40.0000	0.4830	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:13 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

2-Nitropropane %RSE = 31.6

2-Nitropropane - 8 Levels, 6 Levels Used, 8 Points, 6 Points Used, 0 QCs



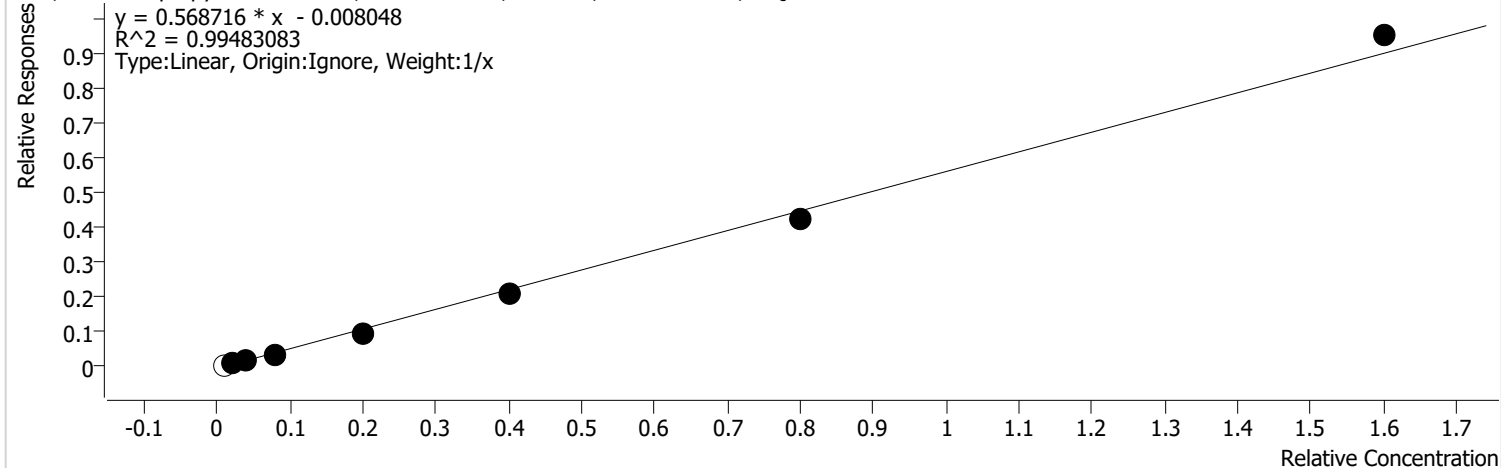
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1		0	0.2000	0.0000	
D:\GC-19\Data\090723\090735.D	Calibration	2		0	0.5000	0.0000	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	575	1.0000	0.0094	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	1363	2.0000	0.0110	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	1737	5.0000	0.0056	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	9775	10.0000	0.0158	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	29256	20.0000	0.0230	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	80223	40.0000	0.0308	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:13 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

cis-1,3-Dichloropropylene %RSE = 13.6

cis-1,3-Dichloropropylene - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 0 QCs

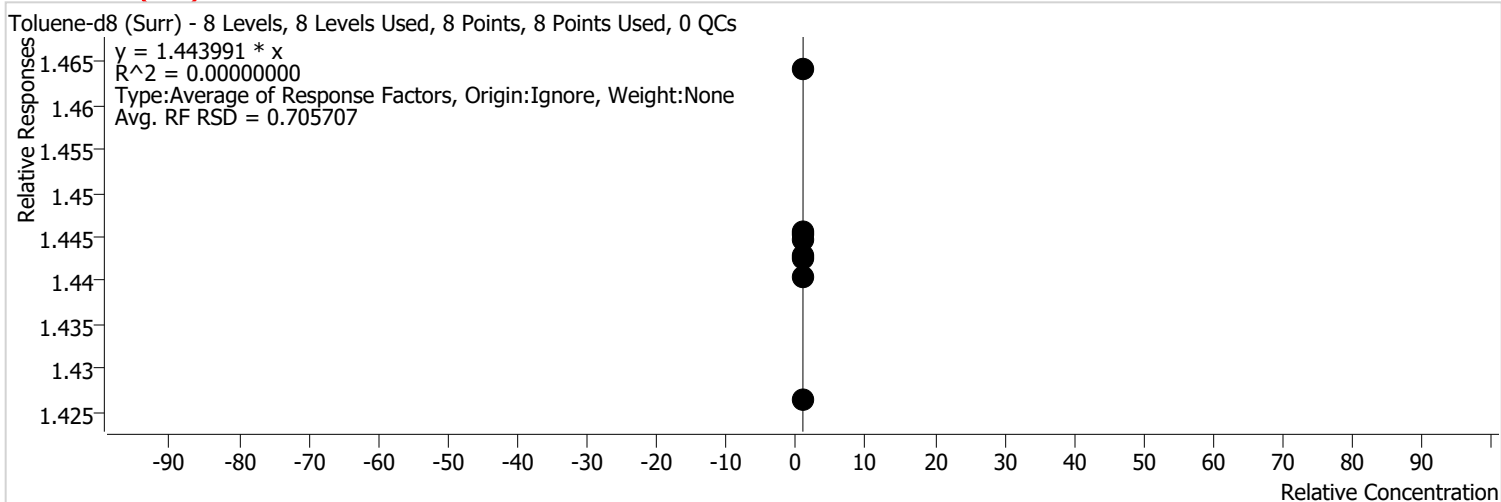


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1		3705	0.2000	0.2973	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	9327	0.5000	0.3013	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	23602	1.0000	0.3866	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	51659	2.0000	0.4154	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	139554	5.0000	0.4520	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	324262	10.0000	0.5225	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	672074	20.0000	0.5279	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	1552932	40.0000	0.5956	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin	Analyst Name	FA\GC19
Analysis Time	9/11/2023 9:40 AM	Reporter Name	FA\GC19
Report Time	9/11/2023 9:58:13 AM	Batch State	Processed
Last Calib Update	9/11/2023 7:57 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Toluene-d8 (Surr) %RSE =



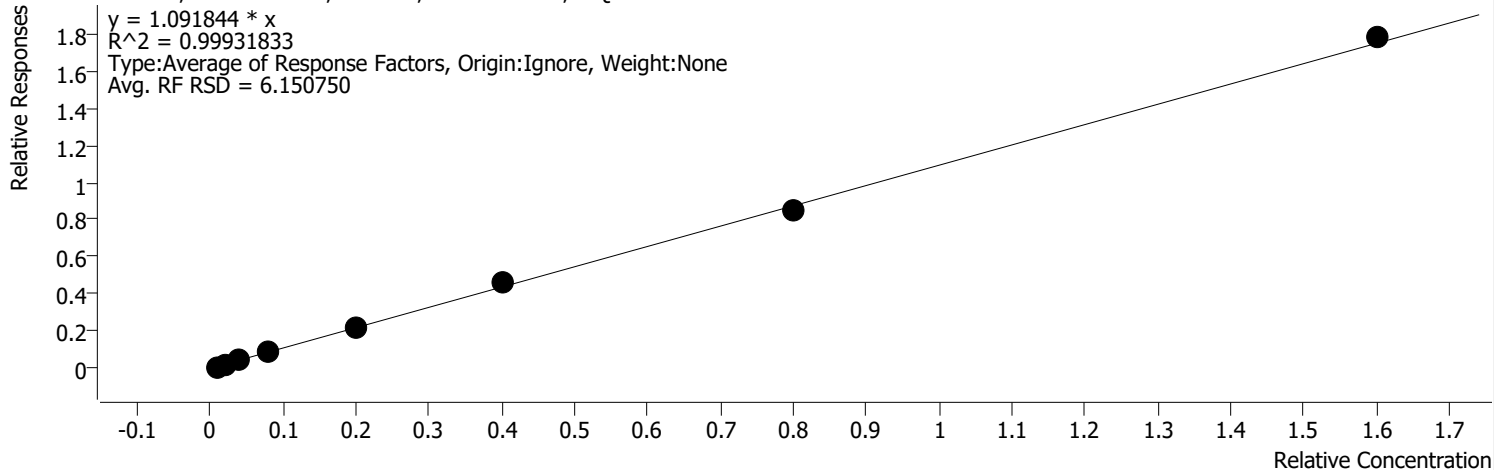
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090741.D	Calibration	8	x	2354032	25.0000	1.4445	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	2296139	25.0000	1.4429	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	2213240	25.0000	1.4266	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	2226959	25.0000	1.4427	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	2239104	25.0000	1.4404	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	2206677	25.0000	1.4456	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	2236609	25.0000	1.4452	
D:\GC-19\Data\090723\090734.D	Calibration	1	x	2280632	25.0000	1.4640	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:13 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Toluene %RSE = 6.2

Toluene - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



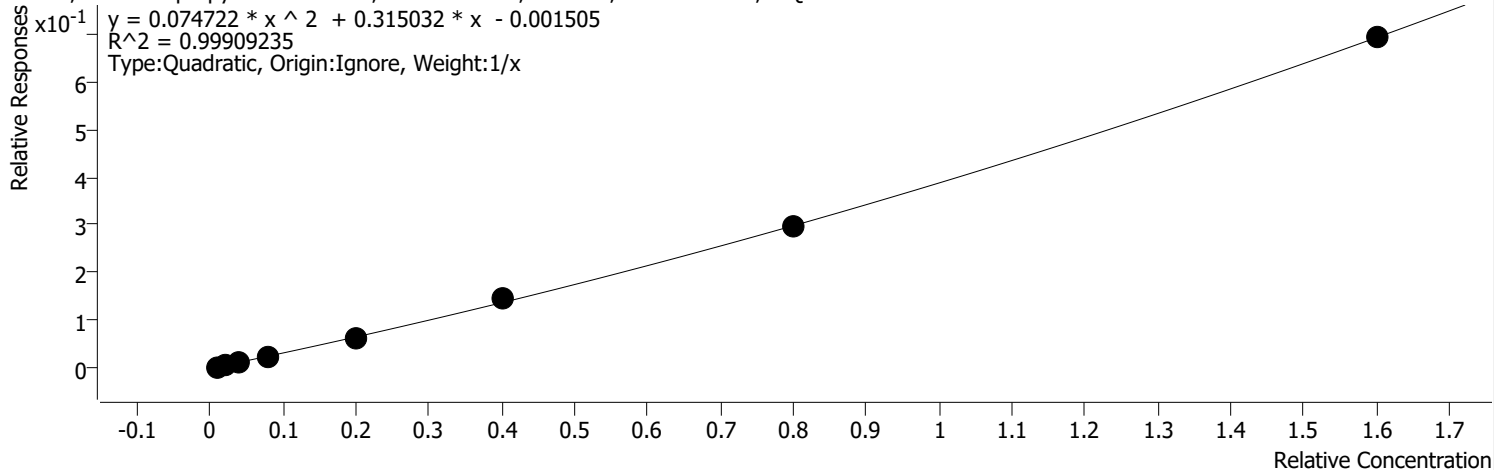
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1	x	12853	0.2000	1.0314	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	29942	0.5000	0.9673	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	69908	1.0000	1.1450	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	145255	2.0000	1.1680	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	340418	5.0000	1.1027	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	709637	10.0000	1.1435	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	1357419	20.0000	1.0663	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	2895866	40.0000	1.1107	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:13 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

trans-1,3-Dichloropropylene %RSE = 15.5

trans-1,3-Dichloropropylene - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



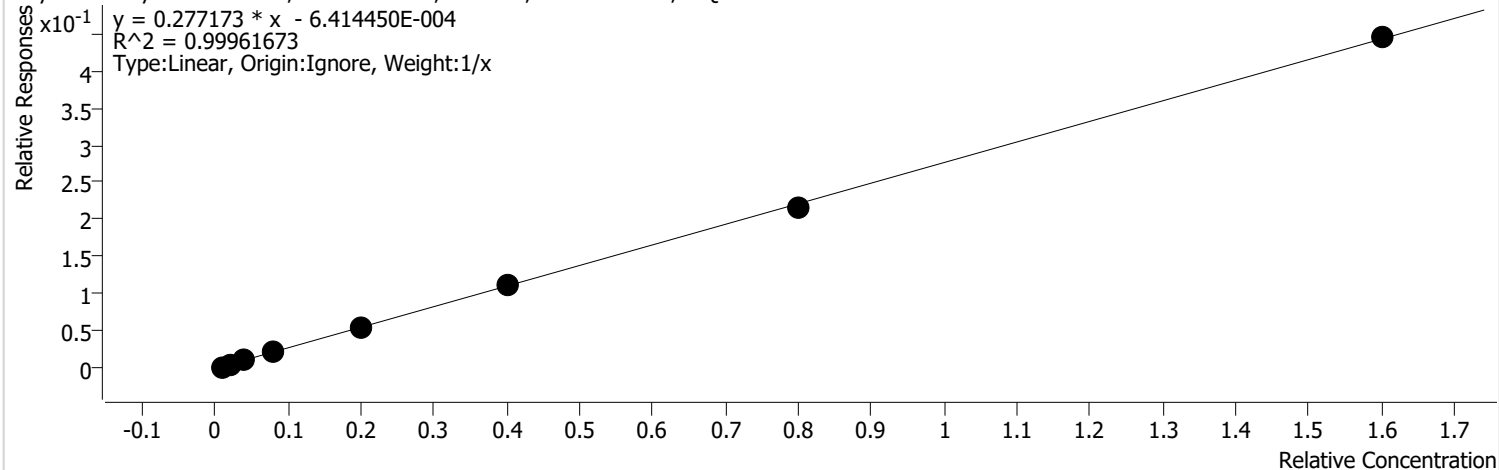
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1	x	2716	0.2000	0.2179	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	6022	0.5000	0.1946	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	15698	1.0000	0.2571	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	34115	2.0000	0.2743	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	96296	5.0000	0.3119	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	225422	10.0000	0.3632	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	469820	20.0000	0.3691	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	1130257	40.0000	0.4335	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:13 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Ethyl methacrylate %RSE = 4.0

Ethyl methacrylate - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



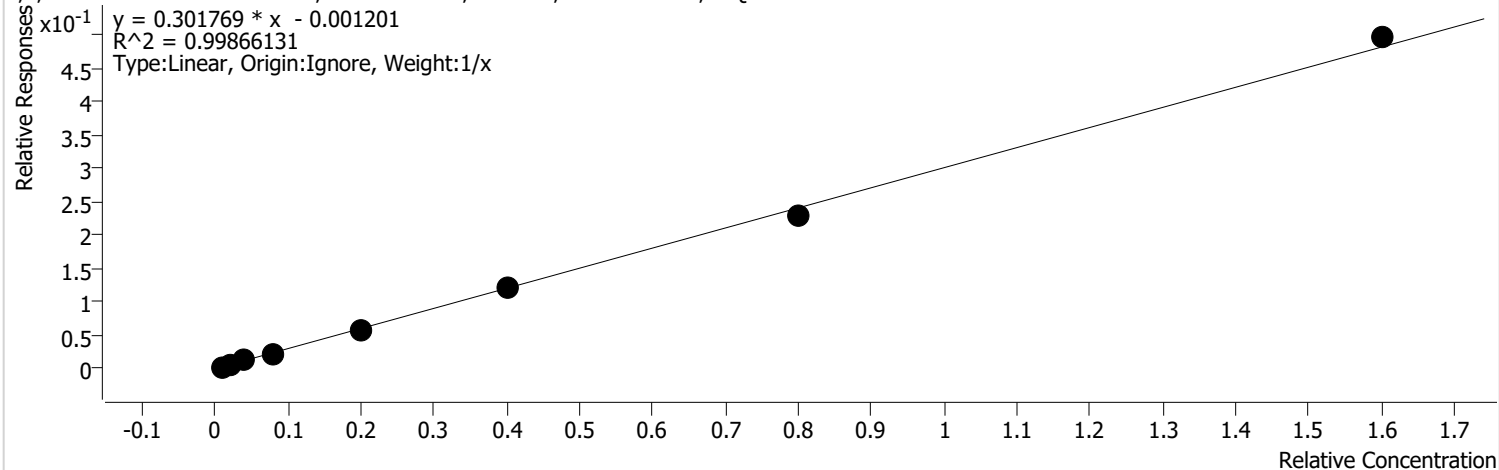
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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D:\GC-19\Data\090723\090735.D	Calibration	2	x	6948	0.5000	0.2245	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	16628	1.0000	0.2723	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	34564	2.0000	0.2779	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	85222	5.0000	0.2760	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	175481	10.0000	0.2828	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	342709	20.0000	0.2692	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	724444	40.0000	0.2778	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:13 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,1,2-Trichloroethane %RSE = 9.0

1,1,2-Trichloroethane - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

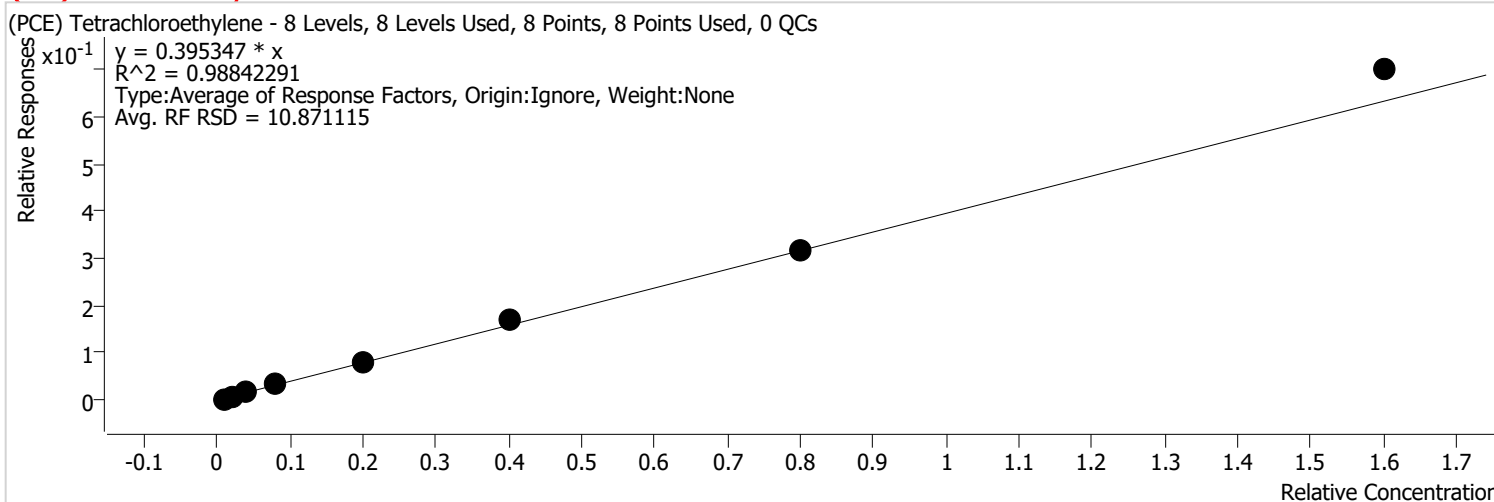


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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D:\GC-19\Data\090723\090735.D	Calibration	2	x	6539	0.5000	0.2112	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	16561	1.0000	0.2712	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	34020	2.0000	0.2736	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	90033	5.0000	0.2916	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	184787	10.0000	0.2978	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	363916	20.0000	0.2859	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	807677	40.0000	0.3098	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:13 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

(PCE) Tetrachloroethylene %RSE = 10.9

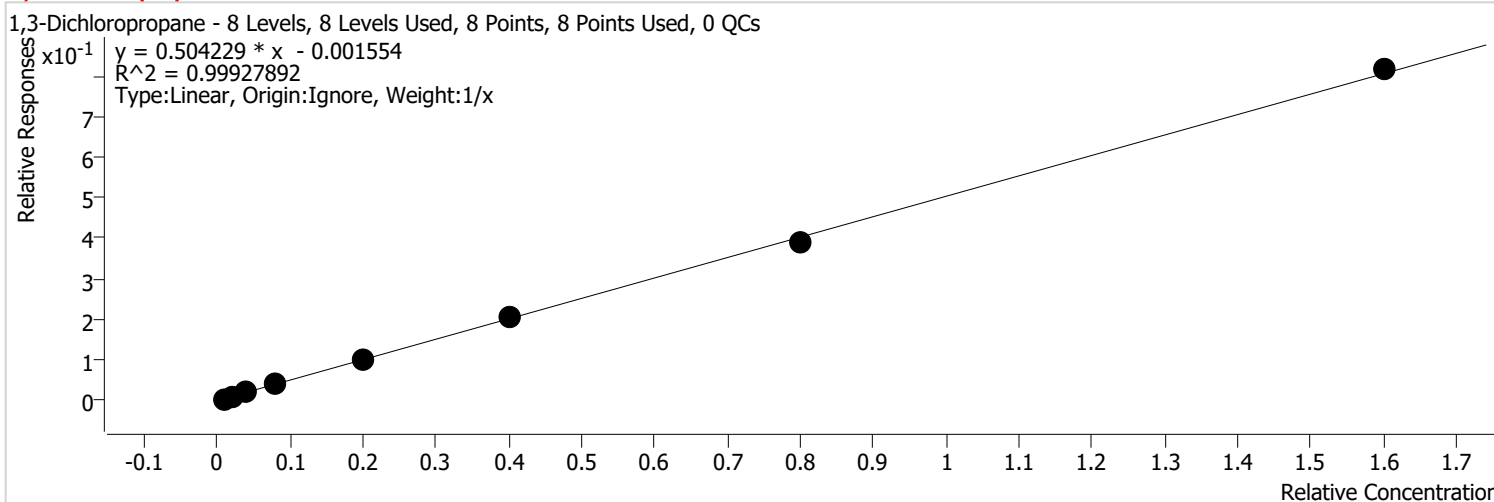


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1	x	4125	0.2000	0.3310	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	10145	0.5000	0.3277	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	25722	1.0000	0.4213	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	51500	2.0000	0.4141	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	125639	5.0000	0.4070	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	267788	10.0000	0.4315	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	500331	20.0000	0.3930	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	1139816	40.0000	0.4372	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:13 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,3-Dichloropropane %RSE = 6.5



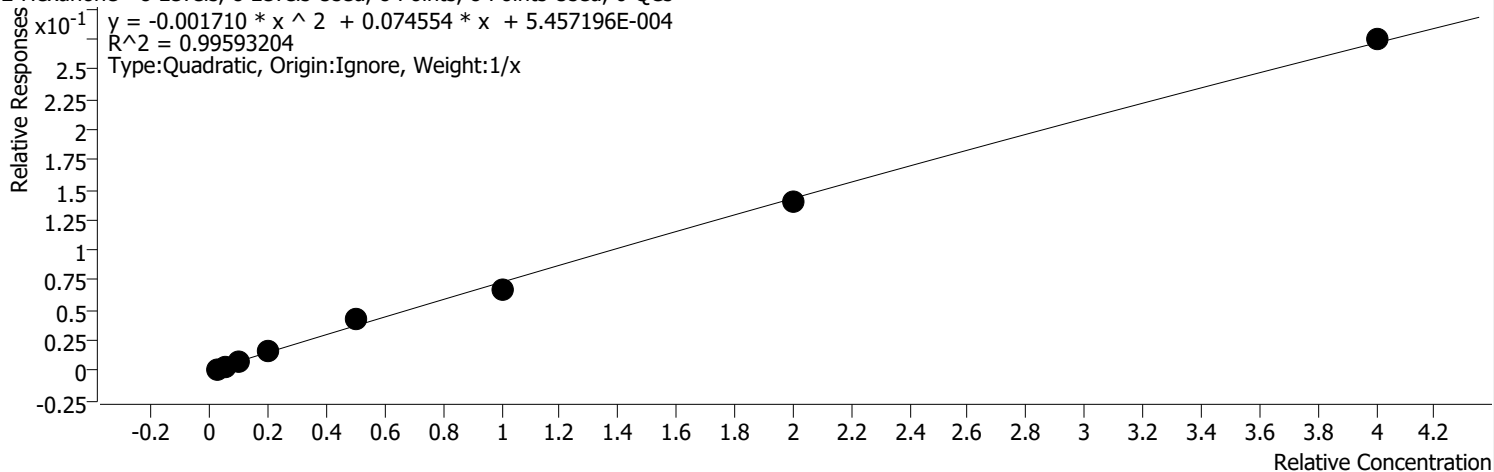
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1	x	4305	0.2000	0.3454	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	11218	0.5000	0.3624	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	29378	1.0000	0.4812	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	62378	2.0000	0.5016	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	152232	5.0000	0.4931	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	318023	10.0000	0.5125	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	615653	20.0000	0.4836	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	1328132	40.0000	0.5094	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin	Analyst Name	FA\GC19
Analysis Time	9/11/2023 9:40 AM	Reporter Name	FA\GC19
Report Time	9/11/2023 9:58:13 AM	Batch State	Processed
Last Calib Update	9/11/2023 7:57 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

2-Hexanone %RSE = 13.9

2-Hexanone - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



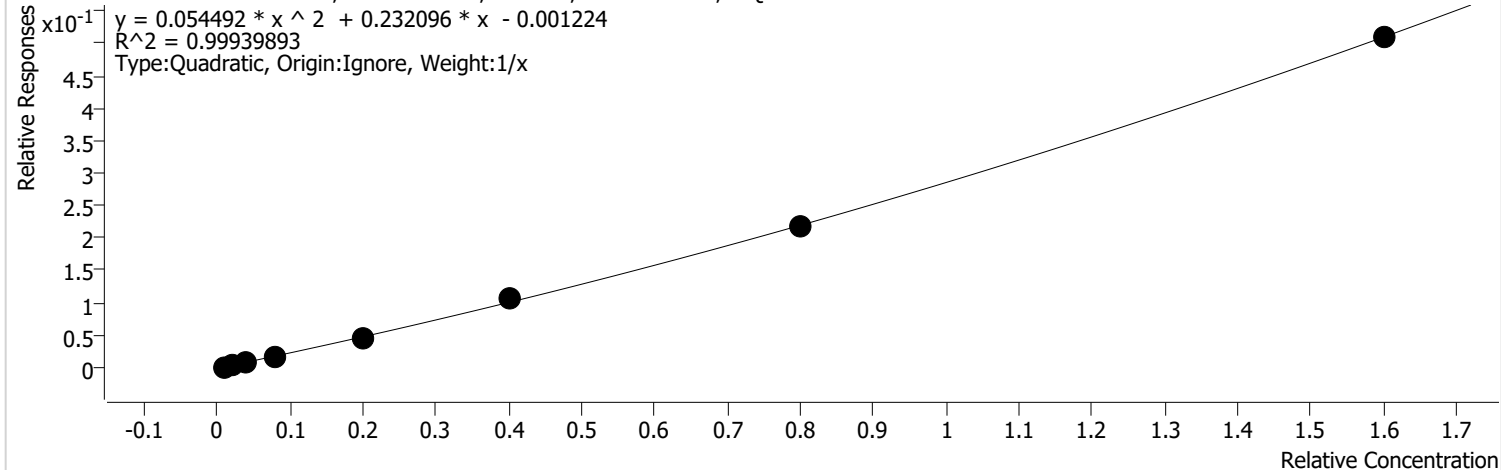
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1	x	2718	0.5000	0.0873	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	6287	1.2500	0.0812	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	13062	2.5000	0.0856	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	26904	5.0000	0.0865	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	66338	12.5000	0.0859	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	103466	25.0000	0.0667	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	221710	50.0000	0.0697	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	446545	100.0000	0.0685	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:13 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

dibromochloromethane %RSE = 13.1

dibromochloromethane - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



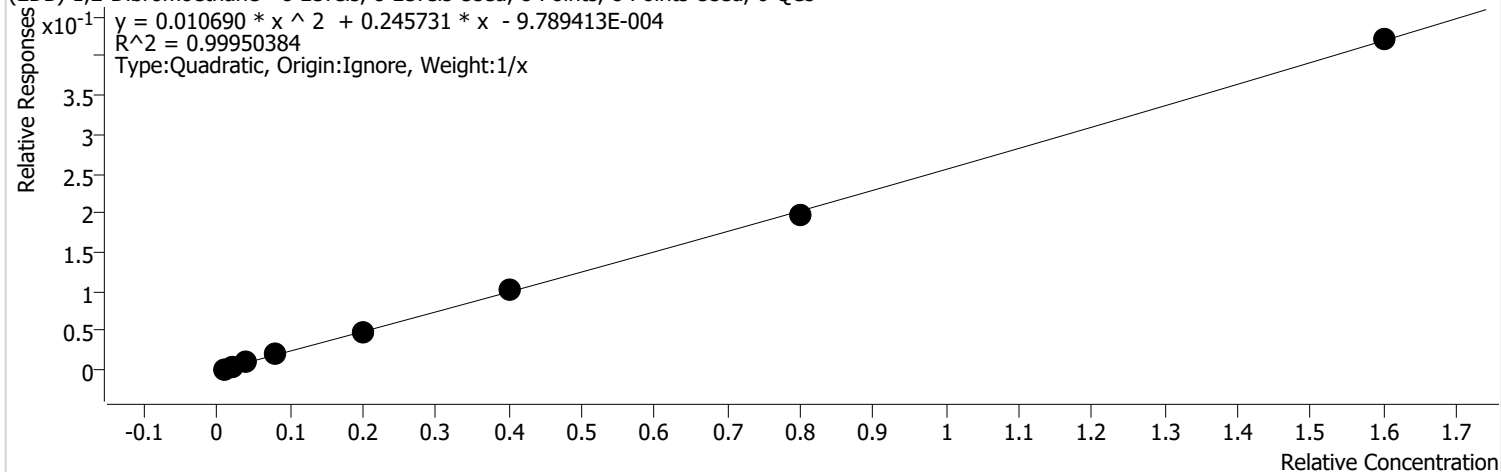
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1	x	1695	0.2000	0.1360	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	4390	0.5000	0.1418	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	11445	1.0000	0.1874	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	26390	2.0000	0.2122	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	69205	5.0000	0.2242	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	163106	10.0000	0.2628	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	349295	20.0000	0.2744	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	829004	40.0000	0.3179	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:13 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

(EDB) 1,2-Dibromoethane %RSE = 7.9

(EDB) 1,2-Dibromoethane - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



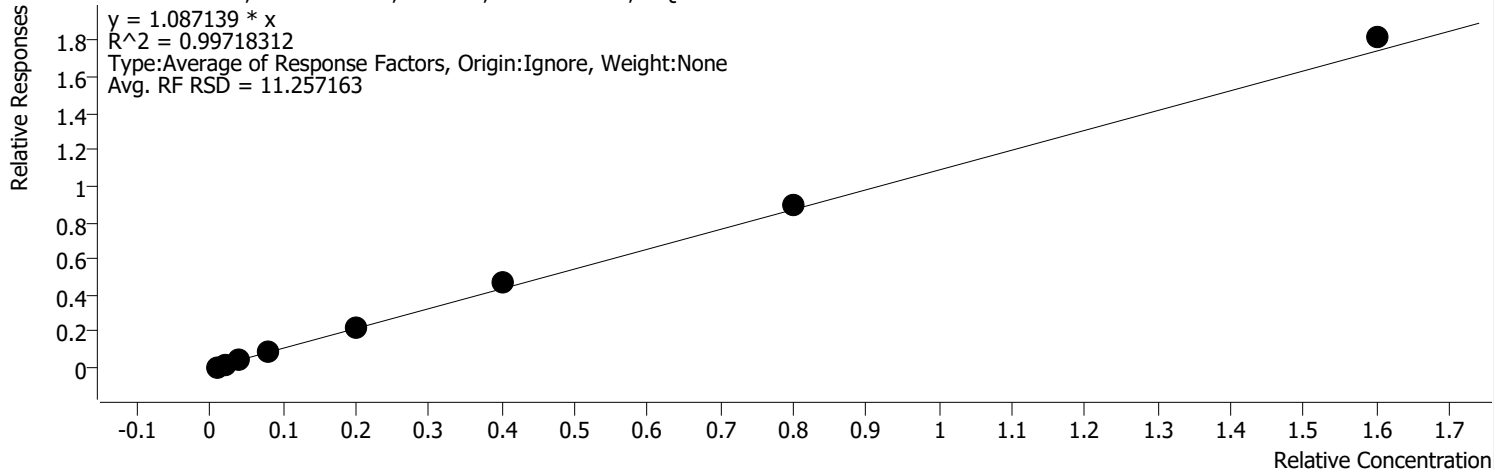
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1	x	1847	0.2000	0.1482	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	5075	0.5000	0.1639	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	13737	1.0000	0.2250	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	29722	2.0000	0.2390	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	73500	5.0000	0.2381	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	159683	10.0000	0.2573	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	315490	20.0000	0.2478	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	685708	40.0000	0.2630	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin	Analyst Name	FA\GC19
Analysis Time	9/11/2023 9:40 AM	Reporter Name	FA\GC19
Report Time	9/11/2023 9:58:13 AM	Batch State	Processed
Last Calib Update	9/11/2023 7:57 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Chlorobenzene %RSE = 11.3

Chlorobenzene - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

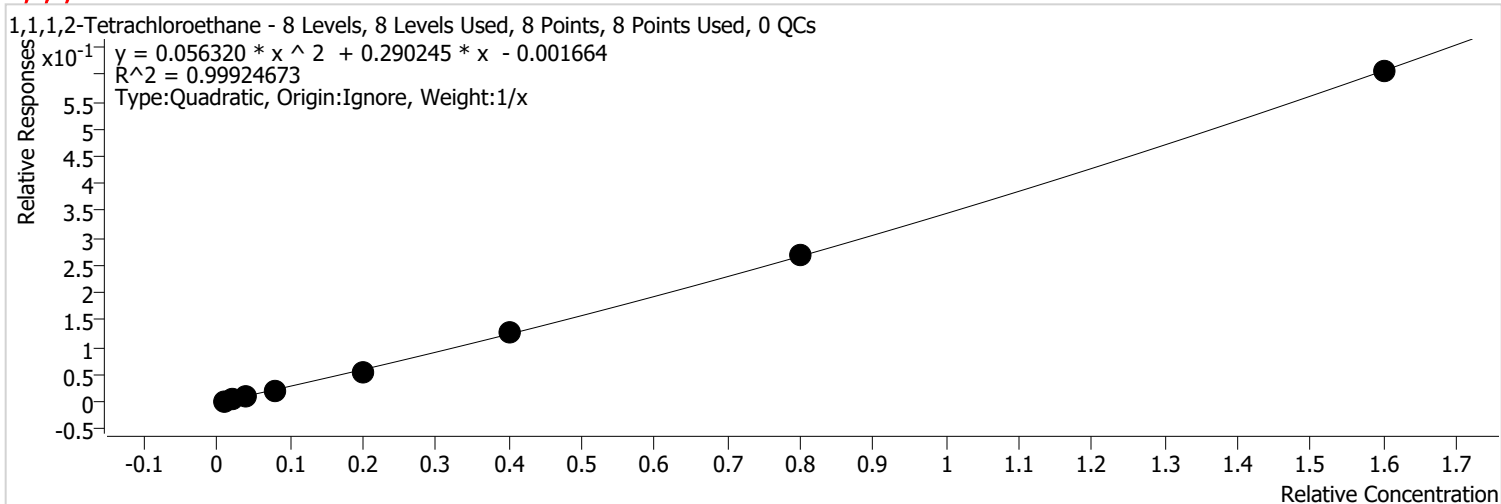


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1	x	12526	0.2000	0.9016	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	30030	0.5000	0.8852	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	74664	1.0000	1.1430	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	158309	2.0000	1.1950	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	363918	5.0000	1.1335	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	759366	10.0000	1.1841	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	1455962	20.0000	1.1218	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	3065536	40.0000	1.1330	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:13 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,1,1,2-Tetrachloroethane %RSE = 15.0



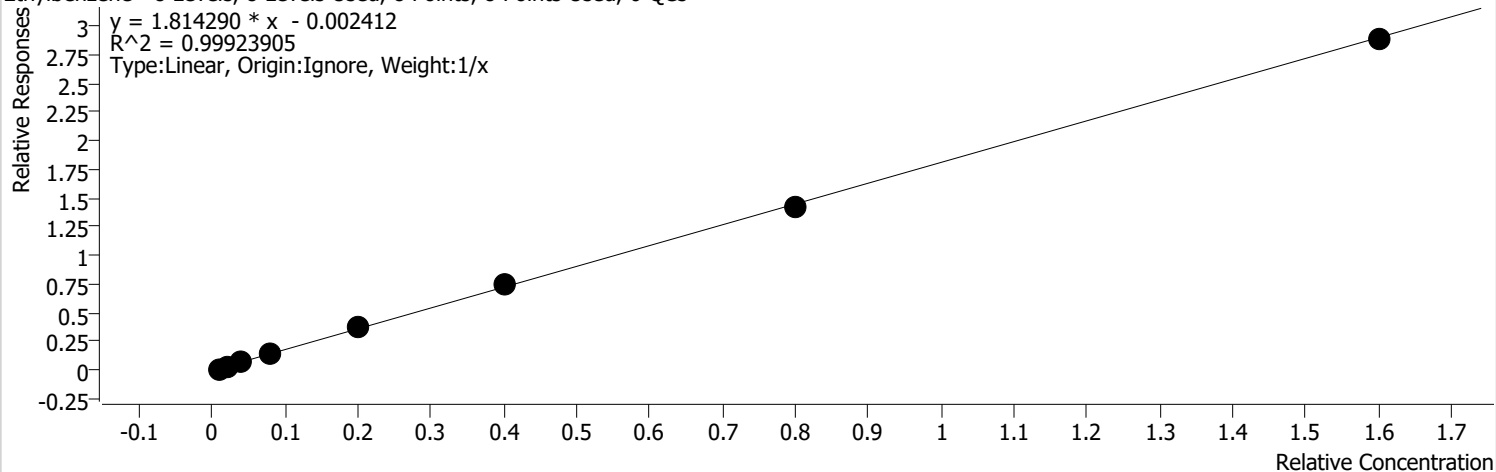
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1	x	2274	0.2000	0.1637	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	5530	0.5000	0.1630	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	15449	1.0000	0.2365	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	33475	2.0000	0.2527	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	89192	5.0000	0.2778	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	207204	10.0000	0.3231	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	434993	20.0000	0.3352	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	1023432	40.0000	0.3782	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:13 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Ethylbenzene %RSE = 6.3

Ethylbenzene - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



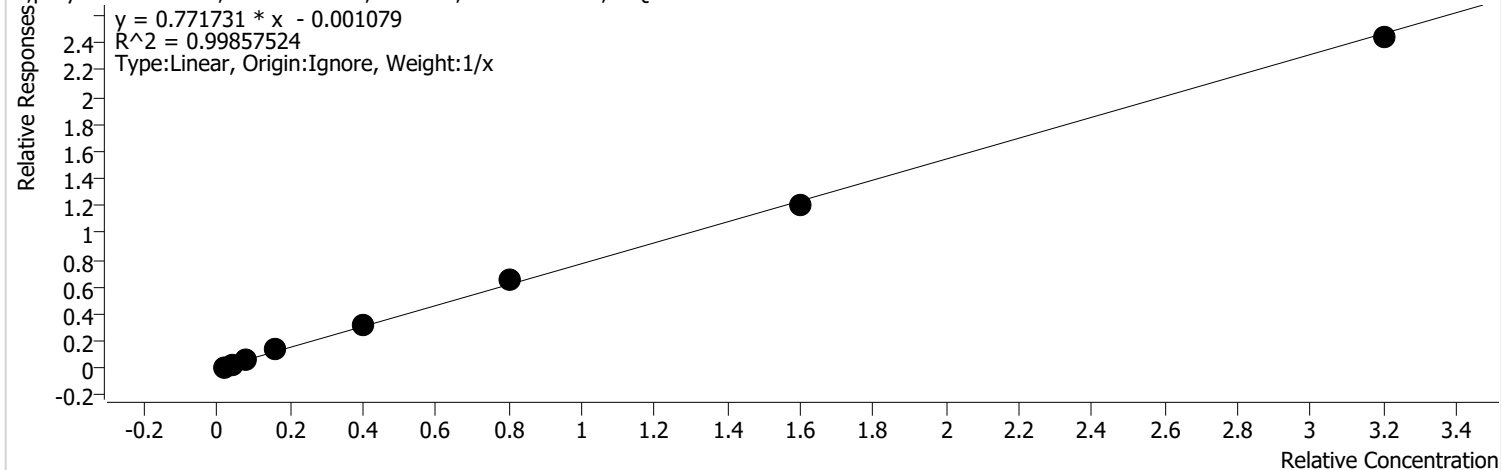
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1	x	20090	0.2000	1.4460	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	50398	0.5000	1.4855	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	121219	1.0000	1.8557	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	249429	2.0000	1.8829	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	589844	5.0000	1.8372	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	1218088	10.0000	1.8994	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	2298836	20.0000	1.7712	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	4873455	40.0000	1.8011	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:13 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

m,p-Xylene %RSE = 9.1

m,p-Xylene - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

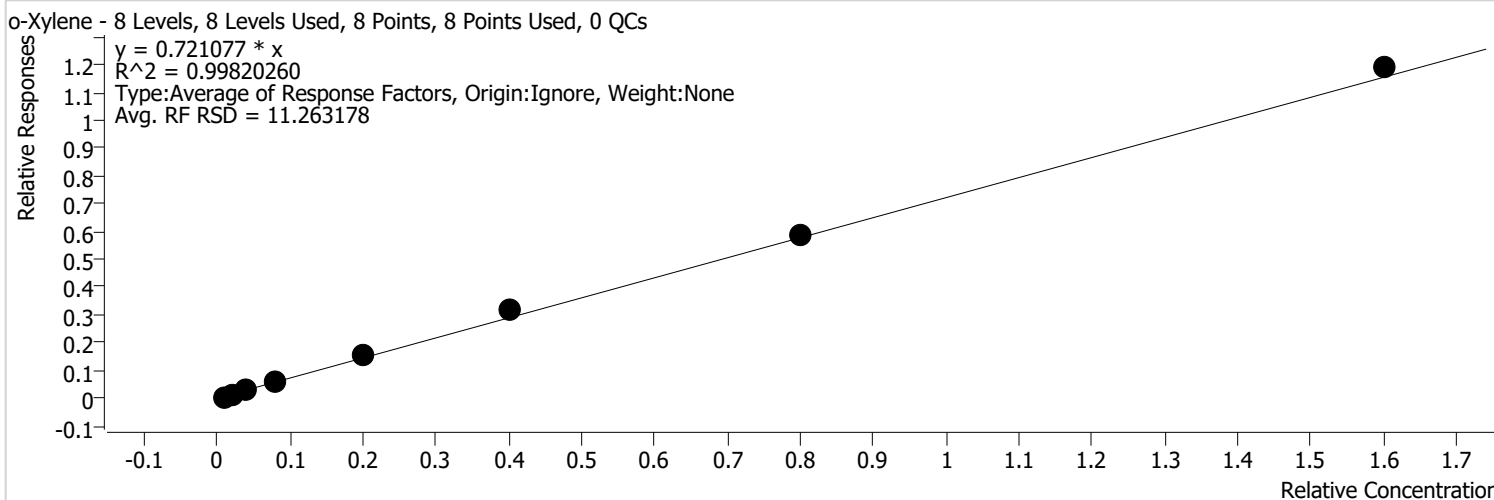


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1	x	17955	0.4000	0.6462	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	42423	1.0000	0.6252	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	106012	2.0000	0.8115	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	221528	4.0000	0.8361	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	516111	10.0000	0.8038	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	1049158	20.0000	0.8180	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	1951045	40.0000	0.7516	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	4122371	80.0000	0.7618	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:13 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

o-Xylene %RSE = 11.3



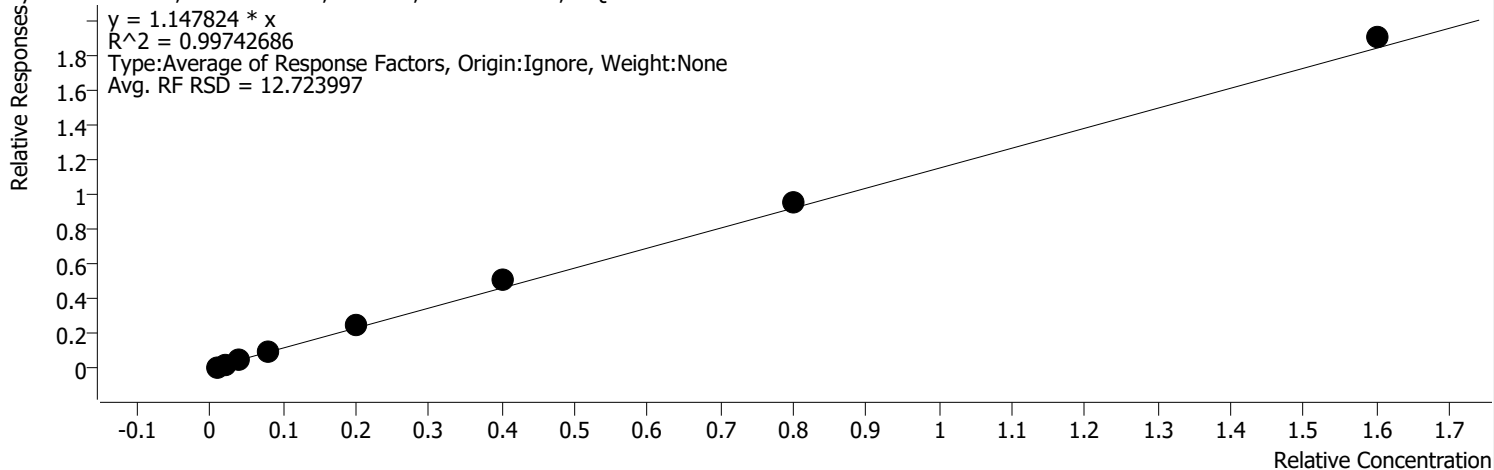
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1	x	8086	0.2000	0.5820	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	20497	0.5000	0.6042	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	50362	1.0000	0.7710	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	102777	2.0000	0.7758	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	247672	5.0000	0.7714	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	505560	10.0000	0.7884	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	951651	20.0000	0.7332	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	2009474	40.0000	0.7427	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:13 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Styrene %RSE = 12.7

Styrene - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



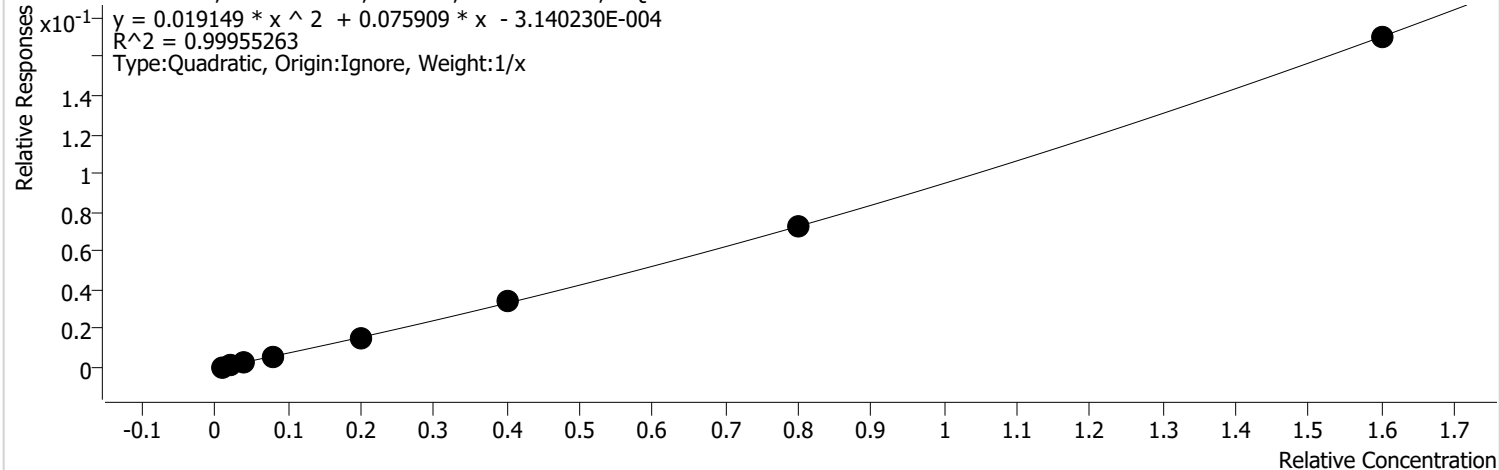
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1	x	12689	0.2000	0.9133	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	31225	0.5000	0.9204	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	79042	1.0000	1.2100	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	164076	2.0000	1.2386	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	401104	5.0000	1.2493	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	820448	10.0000	1.2794	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	1539376	20.0000	1.1860	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	3207895	40.0000	1.1856	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin	Analyst Name	FA\GC19
Analysis Time	9/11/2023 9:40 AM	Reporter Name	FA\GC19
Report Time	9/11/2023 9:58:13 AM	Batch State	Processed
Last Calib Update	9/11/2023 7:57 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Bromoform %RSE = 12.7

Bromoform - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



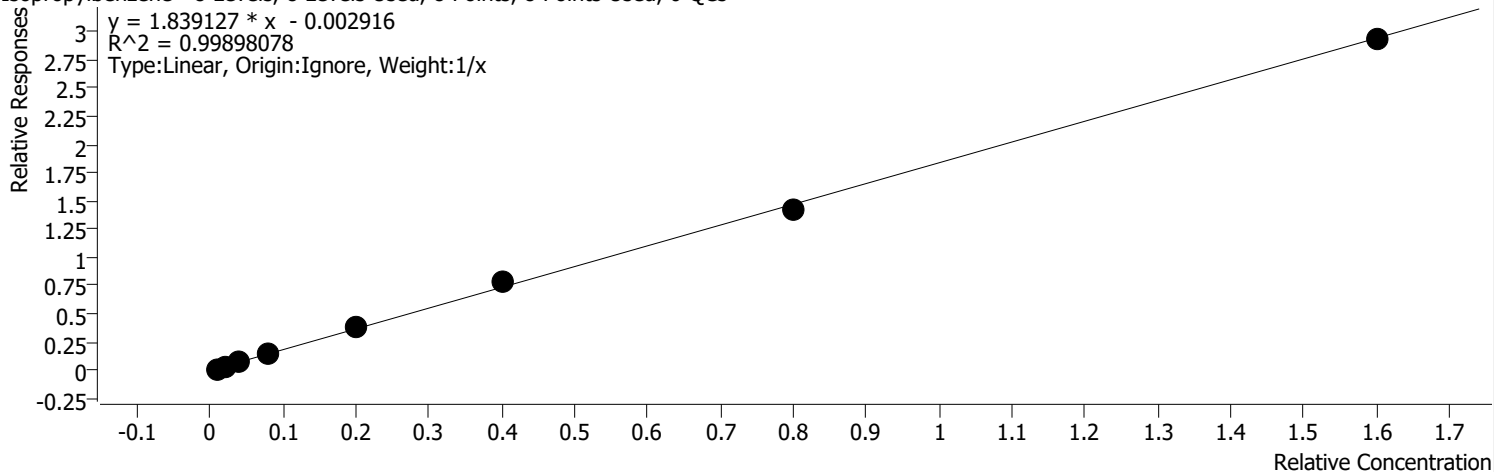
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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D:\GC-19\Data\090723\090735.D	Calibration	2	x	1684	0.5000	0.0497	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	4324	1.0000	0.0662	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	9260	2.0000	0.0699	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	23890	5.0000	0.0744	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	54720	10.0000	0.0853	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	119018	20.0000	0.0917	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	286942	40.0000	0.1060	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:13 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Isopropylbenzene %RSE = 7.1

Isopropylbenzene - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

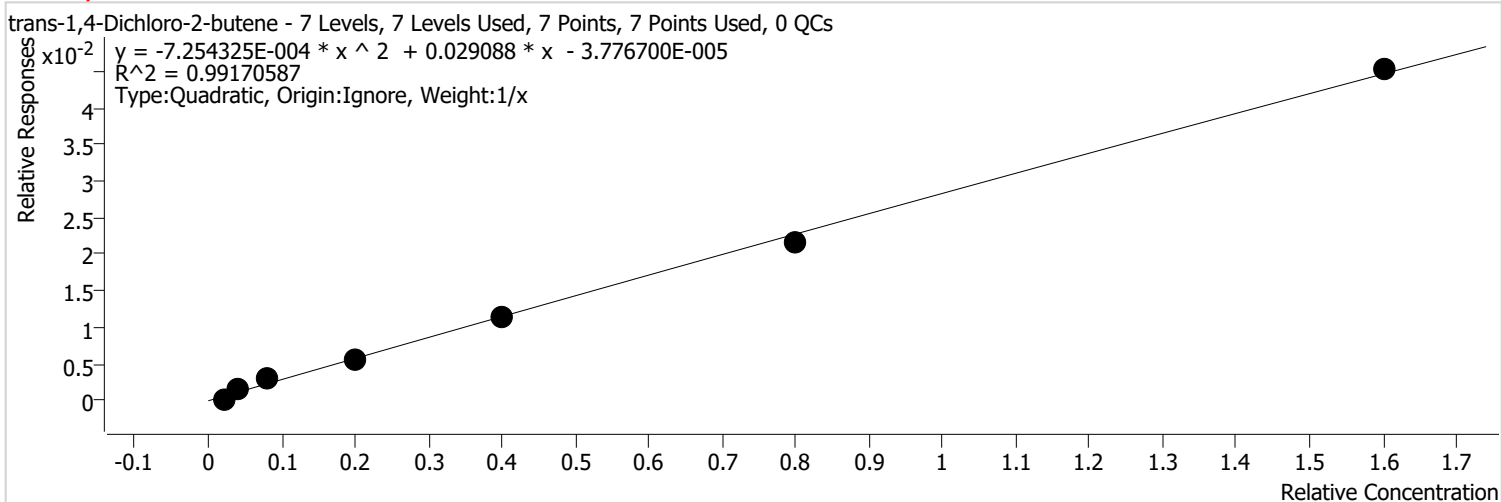


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1	x	20207	0.2000	1.4544	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	48635	0.5000	1.4336	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	120935	1.0000	1.8514	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	252059	2.0000	1.9027	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	603914	5.0000	1.8810	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	1240497	10.0000	1.9344	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	2310312	20.0000	1.7800	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	4947700	40.0000	1.8286	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:13 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

trans-1,4-Dichloro-2-butene %RSE = 34.4

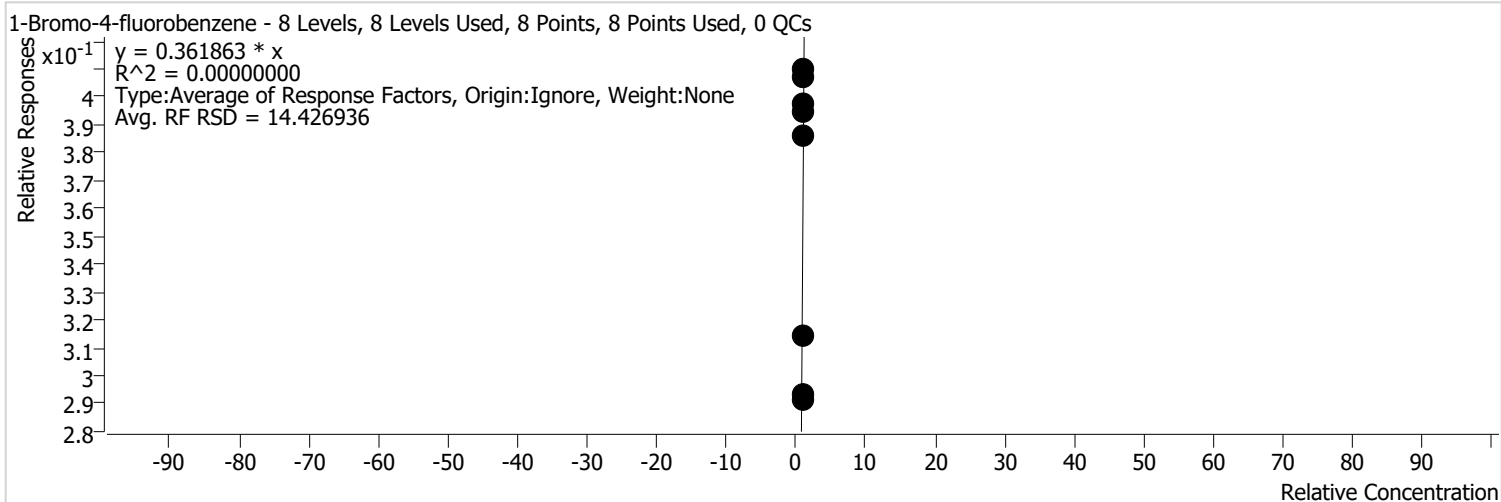


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090735.D	Calibration	2	x	401	0.5000	0.0118	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	2280	1.0000	0.0349	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	5189	2.0000	0.0392	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	8996	5.0000	0.0280	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	18261	10.0000	0.0285	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	35087	20.0000	0.0270	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	76459	40.0000	0.0283	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin	Analyst Name	FA\GC19
Analysis Time	9/11/2023 9:40 AM	Reporter Name	FA\GC19
Report Time	9/11/2023 9:58:13 AM	Batch State	Processed
Last Calib Update	9/11/2023 7:57 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

1-Bromo-4-fluorobenzene %RSE =

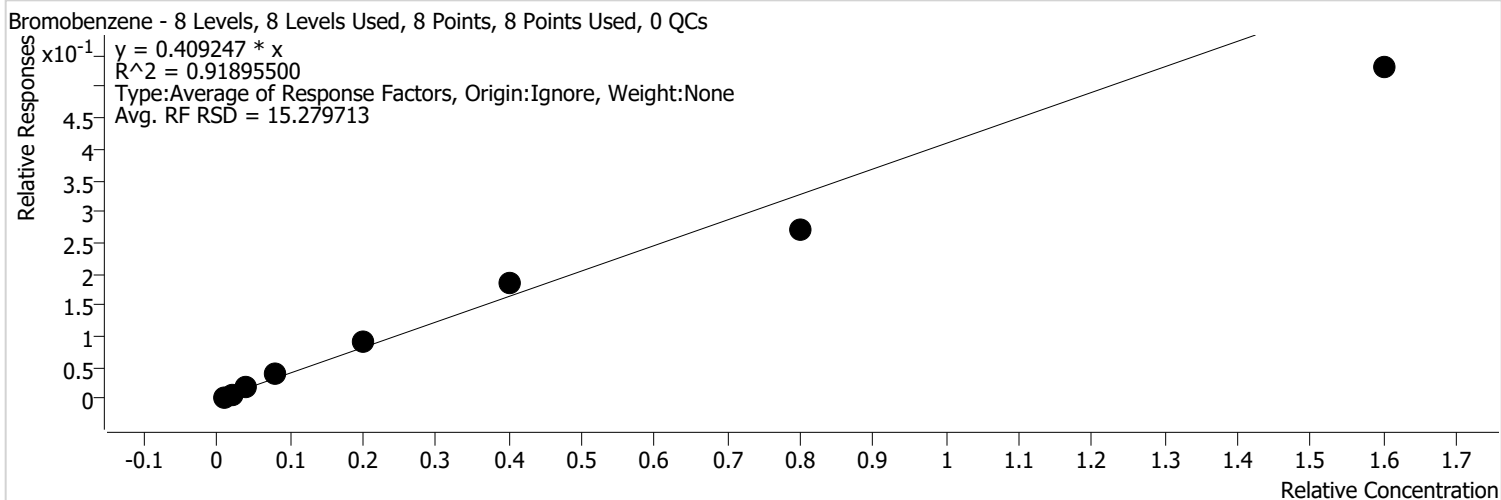


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090741.D	Calibration	8	x	493323	25.0000	0.2917	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	476558	25.0000	0.2937	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	619593	25.0000	0.3865	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	633823	25.0000	0.3948	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	520499	25.0000	0.3143	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	648942	25.0000	0.3974	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	694984	25.0000	0.4097	
D:\GC-19\Data\090723\090734.D	Calibration	1	x	706367	25.0000	0.4067	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin	Analyst Name	FA\GC19
Analysis Time	9/11/2023 9:40 AM	Reporter Name	FA\GC19
Report Time	9/11/2023 9:58:13 AM	Batch State	Processed
Last Calib Update	9/11/2023 7:57 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Bromobenzene %RSE = 15.3

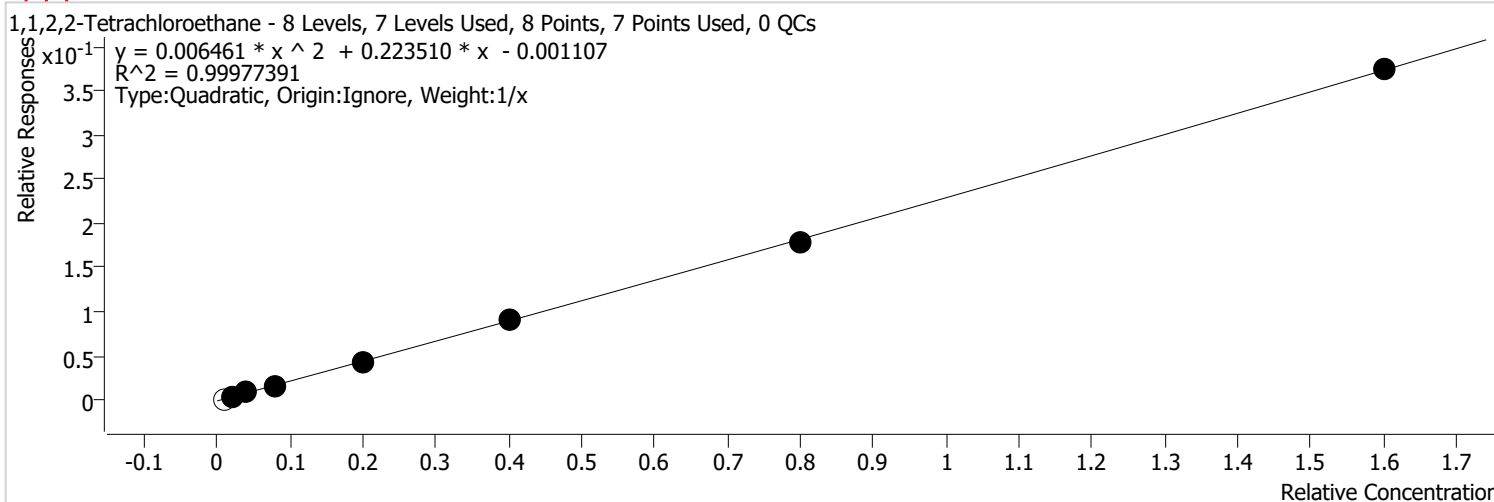


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1	x	5237	0.2000	0.3769	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	12207	0.5000	0.3598	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	30329	1.0000	0.4643	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	62954	2.0000	0.4752	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	147709	5.0000	0.4601	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	298530	10.0000	0.4655	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	442029	20.0000	0.3406	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	897093	40.0000	0.3315	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:13 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,1,2,2-Tetrachloroethane %RSE = 2.5

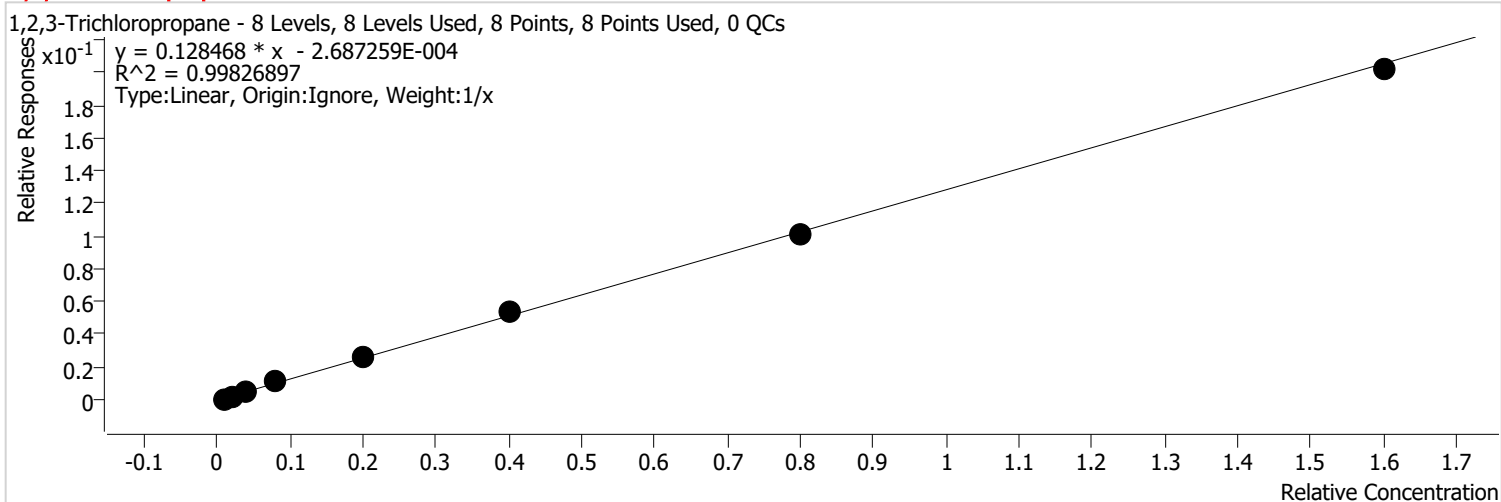


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1		2299	0.2000	0.1655	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	5553	0.5000	0.1637	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	13134	1.0000	0.2011	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	28002	2.0000	0.2114	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	68608	5.0000	0.2137	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	147395	10.0000	0.2298	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	291197	20.0000	0.2244	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	631974	40.0000	0.2336	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:13 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,2,3-Trichloropropane %RSE = 13.7



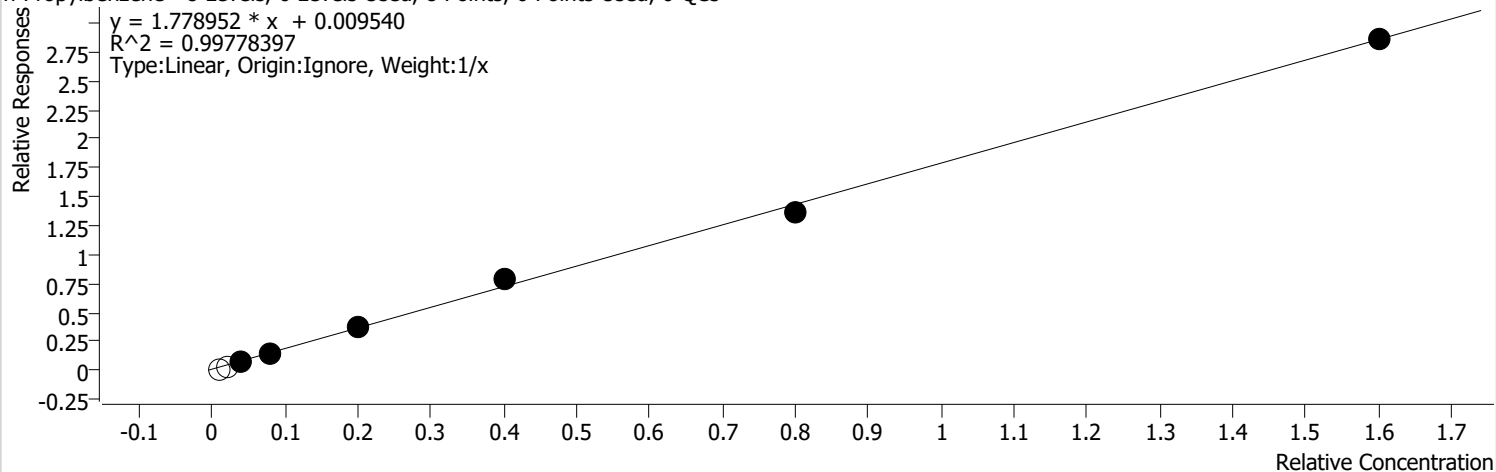
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1	x	917	0.2000	0.0660	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	3381	0.5000	0.0997	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	9198	1.0000	0.1408	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	19084	2.0000	0.1441	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	42164	5.0000	0.1313	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	85646	10.0000	0.1336	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	164477	20.0000	0.1267	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	340798	40.0000	0.1260	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:13 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

n-Propylbenzene %RSE = 6.4

n-Propylbenzene - 8 Levels, 6 Levels Used, 8 Points, 6 Points Used, 0 QCs



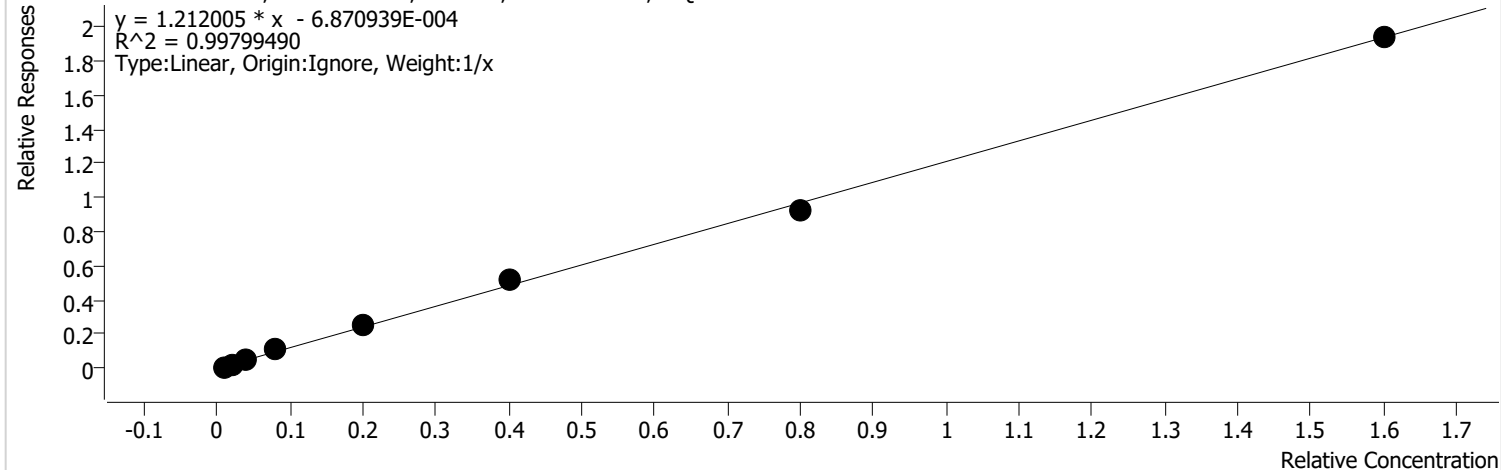
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1		21549	0.2000	1.5510	
D:\GC-19\Data\090723\090735.D	Calibration	2		51102	0.5000	1.5063	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	123118	1.0000	1.8848	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	252456	2.0000	1.9057	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	603547	5.0000	1.8798	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	1256272	10.0000	1.9590	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	2216793	20.0000	1.7080	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	4826090	40.0000	1.7836	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:13 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

2-Chlorotoluene %RSE = 9.2

2-Chlorotoluene - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



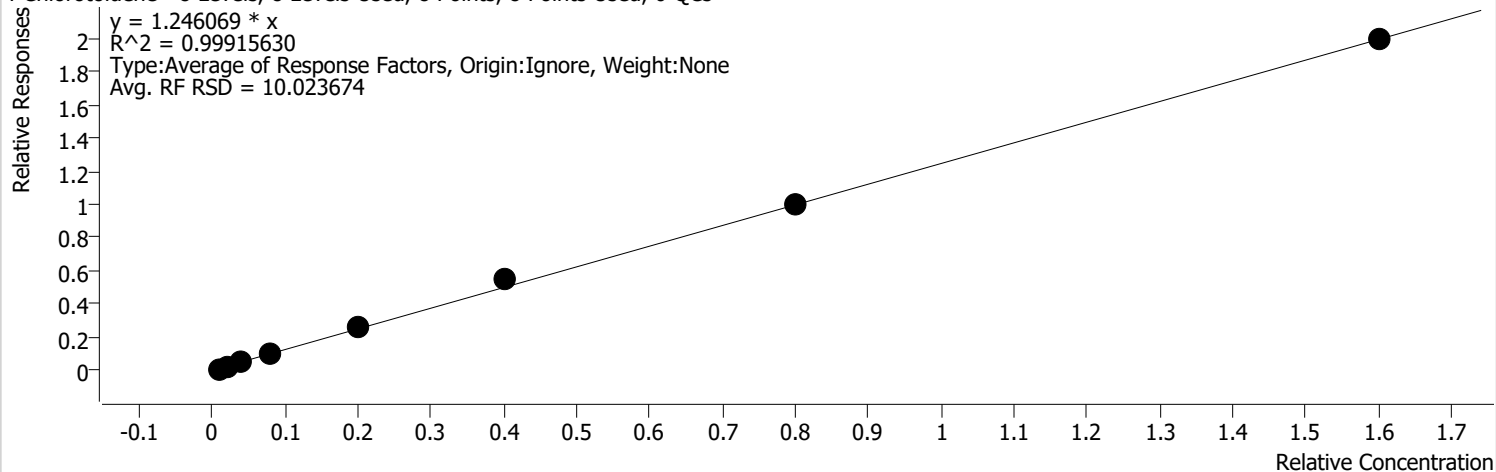
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1	x	14648	0.2000	1.0543	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	33514	0.5000	0.9879	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	83180	1.0000	1.2734	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	175623	2.0000	1.3257	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	399729	5.0000	1.2450	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	831515	10.0000	1.2966	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	1492667	20.0000	1.1501	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	3275715	40.0000	1.2106	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin	Analyst Name	FA\GC19
Analysis Time	9/11/2023 9:40 AM	Reporter Name	FA\GC19
Report Time	9/11/2023 9:58:13 AM	Batch State	Processed
Last Calib Update	9/11/2023 7:57 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

4-Chlorotoluene %RSE = 10.0

4-Chlorotoluene - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

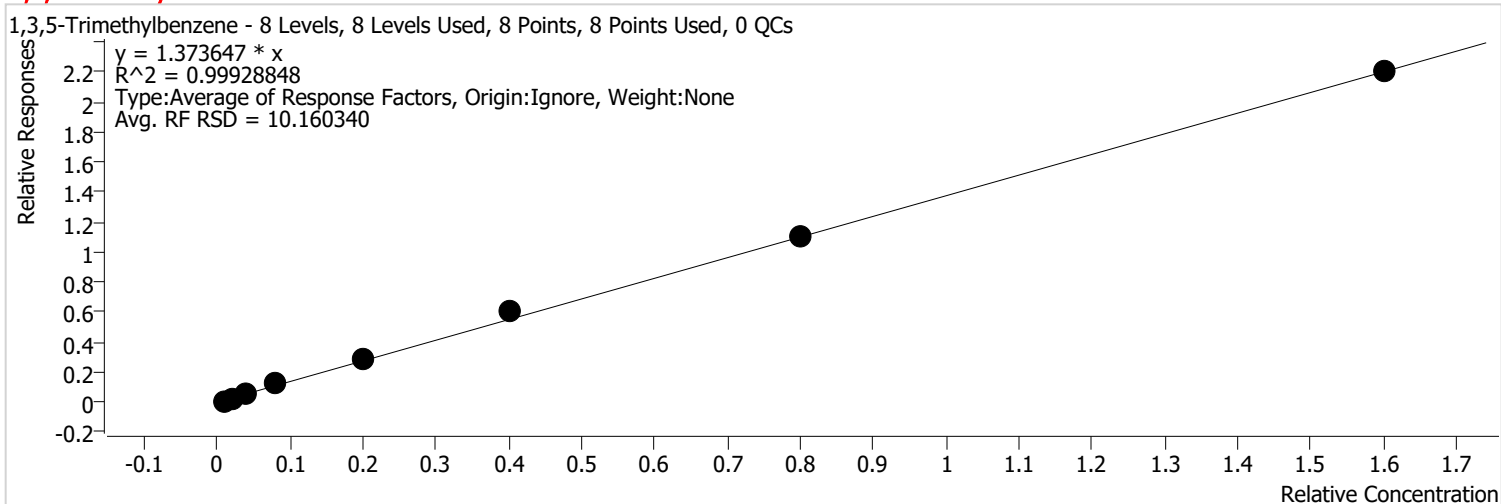


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1	x	15204	0.2000	1.0943	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	34736	0.5000	1.0239	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	86291	1.0000	1.3210	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	177455	2.0000	1.3395	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	427124	5.0000	1.3303	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	878532	10.0000	1.3699	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	1615226	20.0000	1.2445	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	3368766	40.0000	1.2450	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:13 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,3,5-Trimethylbenzene %RSE = 10.2



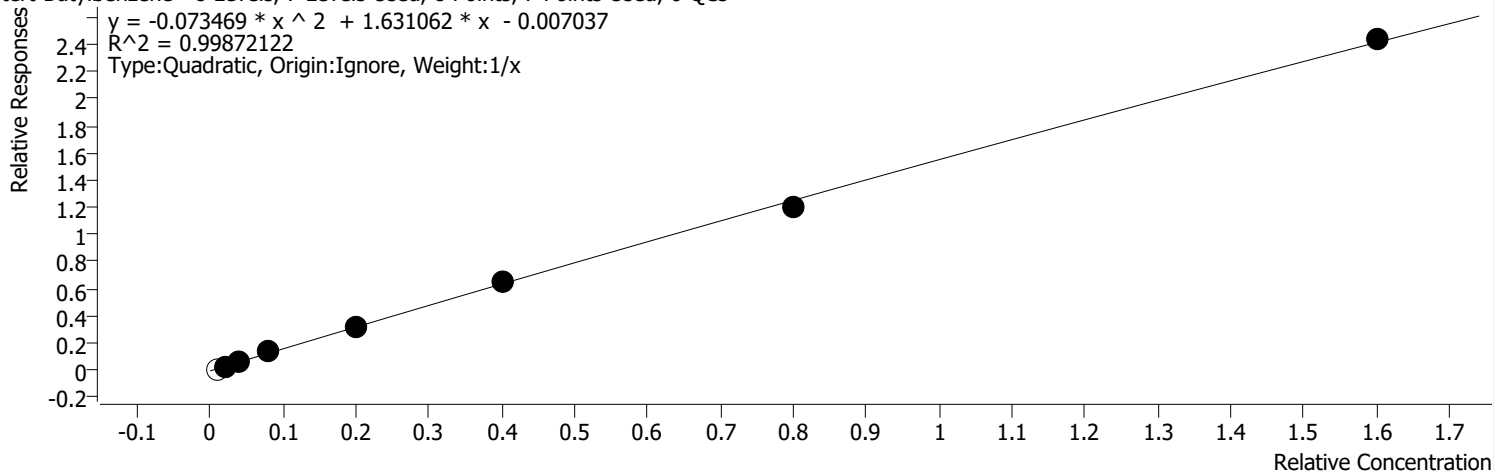
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1	x	16242	0.2000	1.1690	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	39216	0.5000	1.1560	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	95484	1.0000	1.4617	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	199113	2.0000	1.5030	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	468251	5.0000	1.4584	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	960442	10.0000	1.4977	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	1777064	20.0000	1.3692	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	3718082	40.0000	1.3741	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:13 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

tert-Butylbenzene %RSE = 9.0

tert-Butylbenzene - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 0 QCs

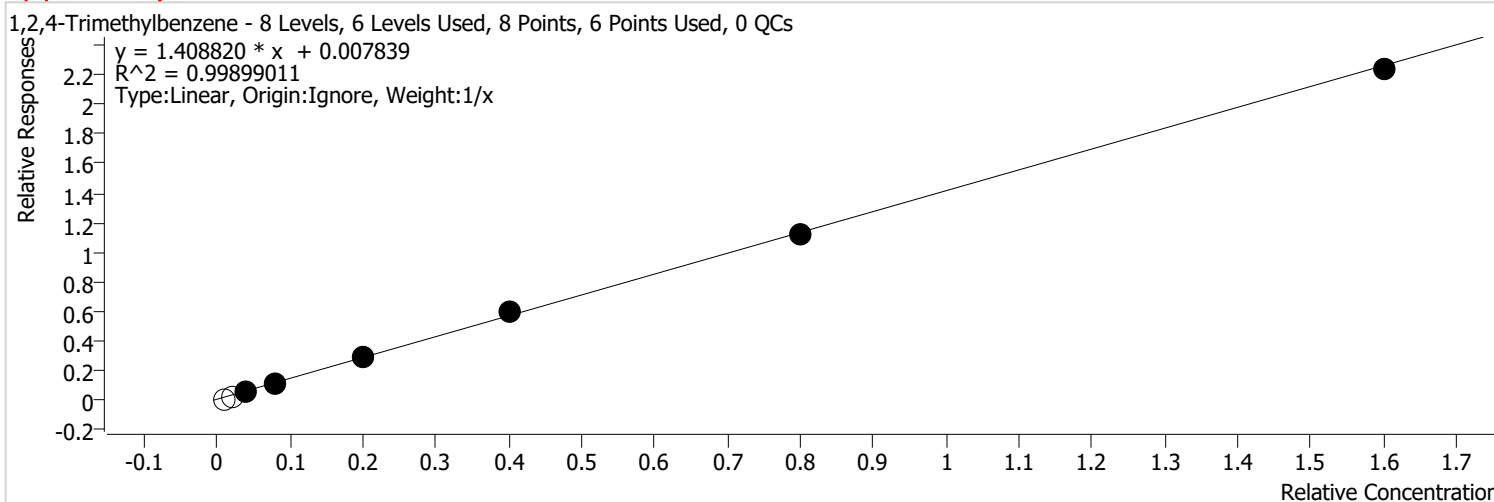


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1		14739	0.2000	1.0609	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	35678	0.5000	1.0517	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	103126	1.0000	1.5787	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	215056	2.0000	1.6234	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	508622	5.0000	1.5842	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	1058329	10.0000	1.6503	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	1940306	20.0000	1.4950	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	4117688	40.0000	1.5218	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:13 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,2,4-Trimethylbenzene %RSE = 5.2



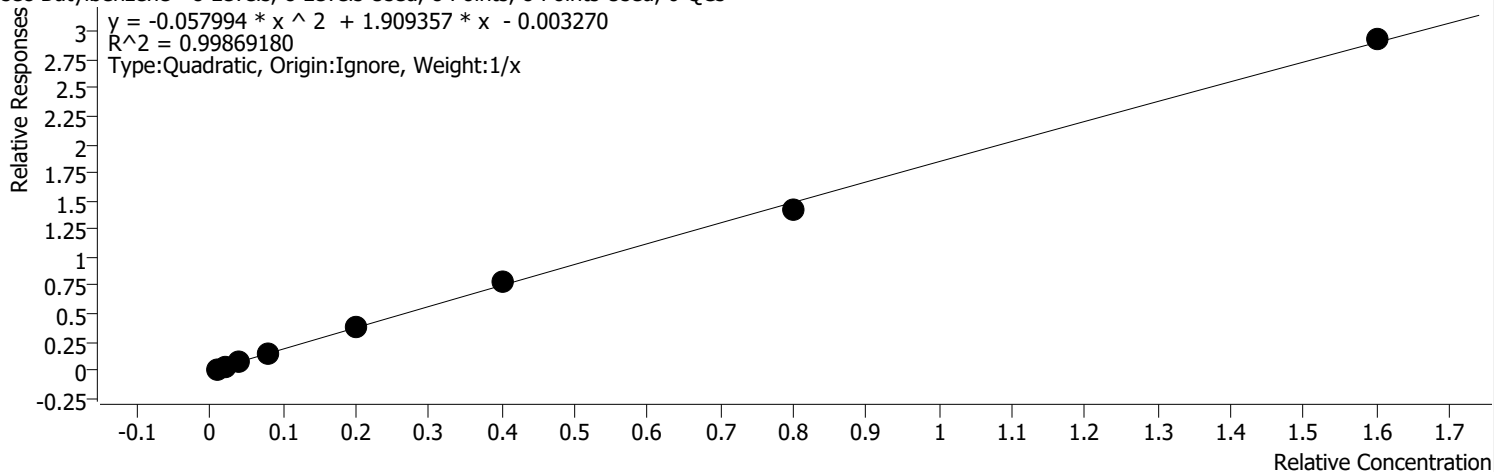
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1		18280	0.2000	1.3157	
D:\GC-19\Data\090723\090735.D	Calibration	2		40156	0.5000	1.1837	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	97896	1.0000	1.4987	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	200496	2.0000	1.5135	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	478878	5.0000	1.4915	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	973327	10.0000	1.5178	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	1820556	20.0000	1.4027	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	3777900	40.0000	1.3962	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:13 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

sec-Butylbenzene %RSE = 8.0

sec-Butylbenzene - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

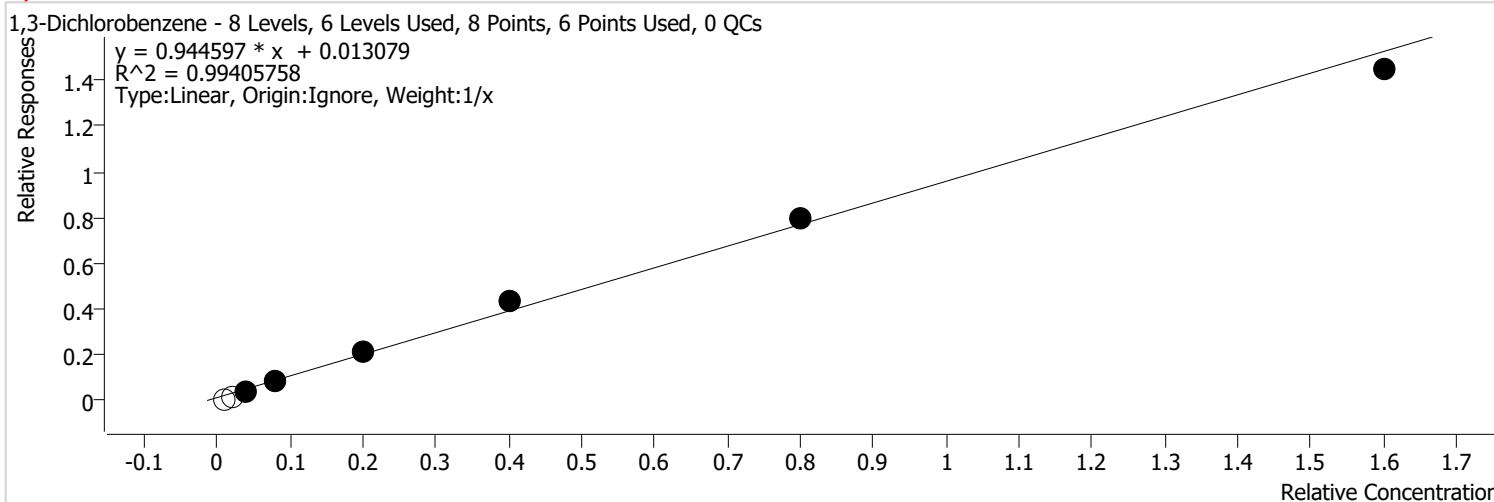


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1	x	21947	0.2000	1.5797	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	49793	0.5000	1.4677	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	124871	1.0000	1.9116	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	257318	2.0000	1.9424	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	606231	5.0000	1.8882	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	1267011	10.0000	1.9757	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	2299022	20.0000	1.7713	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	4951566	40.0000	1.8300	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:13 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,3-Dichlorobenzene %RSE = 12.2

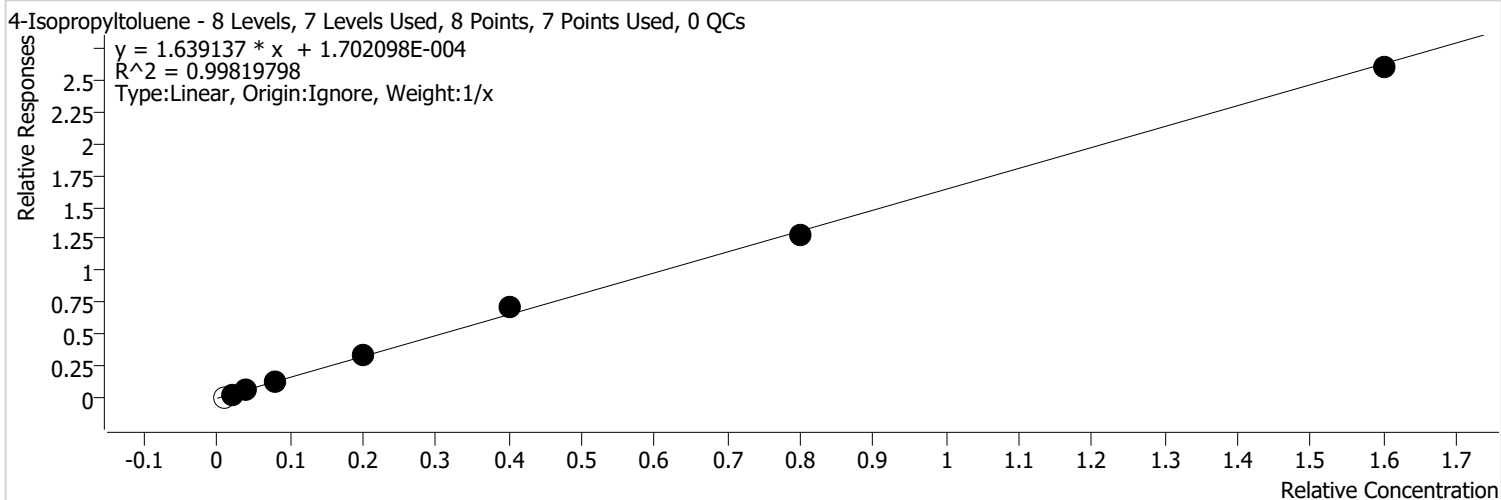


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1		10528	0.2000	0.9621	
D:\GC-19\Data\090723\090735.D	Calibration	2		23964	0.5000	0.8936	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	55049	1.0000	1.0977	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	114855	2.0000	1.1094	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	276183	5.0000	1.0838	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	558852	10.0000	1.0951	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	1056183	20.0000	0.9915	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	2185238	40.0000	0.9031	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:13 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

4-Isopropyltoluene %RSE = 9.2

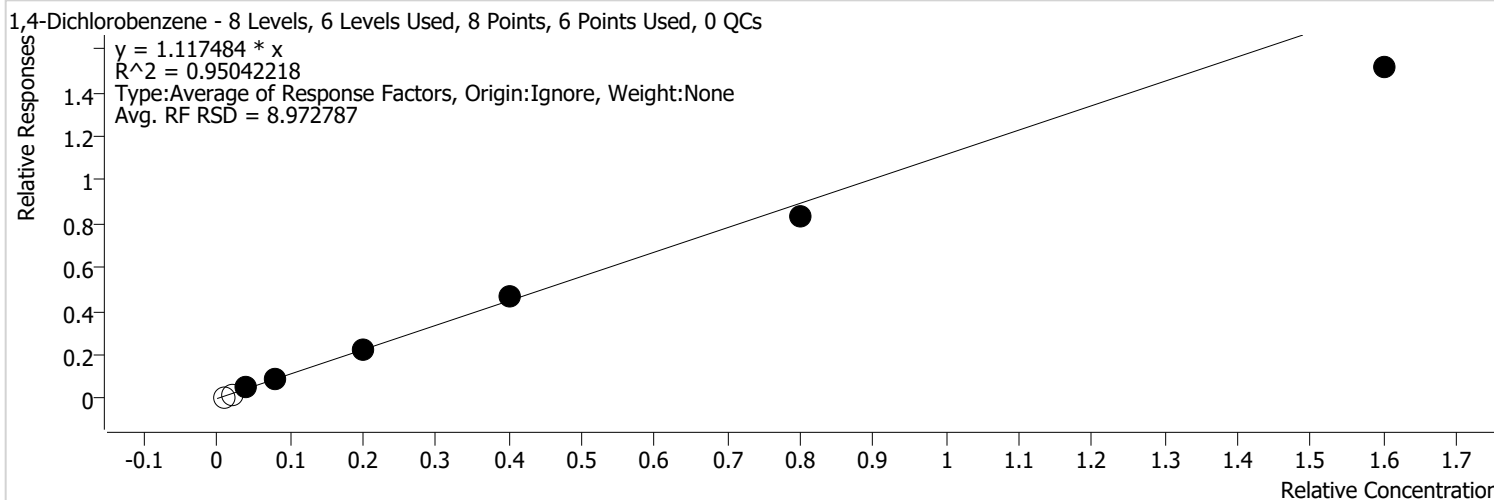


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1		20894	0.2000	1.5038	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	46402	0.5000	1.3678	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	111554	1.0000	1.7078	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	228966	2.0000	1.7284	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	546796	5.0000	1.7031	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	1137056	10.0000	1.7731	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	2064184	20.0000	1.5904	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	4383355	40.0000	1.6200	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin	Analyst Name	FA\GC19
Analysis Time	9/11/2023 9:40 AM	Reporter Name	FA\GC19
Report Time	9/11/2023 9:58:13 AM	Batch State	Processed
Last Calib Update	9/11/2023 7:57 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

1,4-Dichlorobenzene %RSE = 9.0

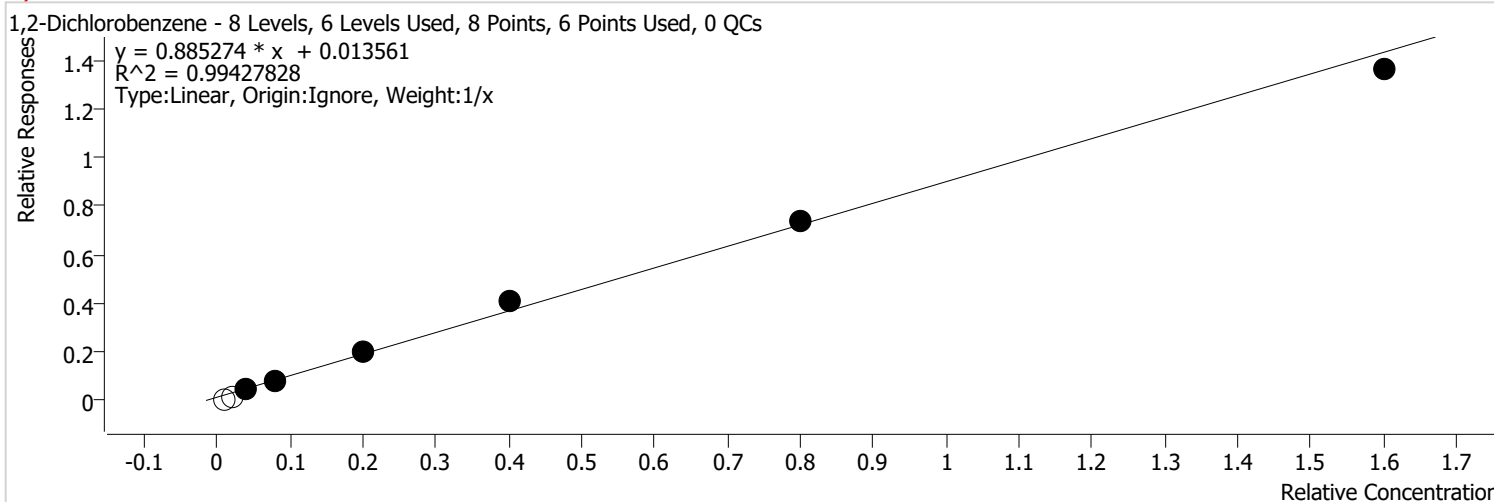


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1		11091	0.2000	1.0136	
D:\GC-19\Data\090723\090735.D	Calibration	2		24804	0.5000	0.9250	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	60636	1.0000	1.2091	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	122347	2.0000	1.1818	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	292423	5.0000	1.1476	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	597696	10.0000	1.1712	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	1117093	20.0000	1.0487	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	2290427	40.0000	0.9466	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:13 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,2-Dichlorobenzene %RSE = 11.8



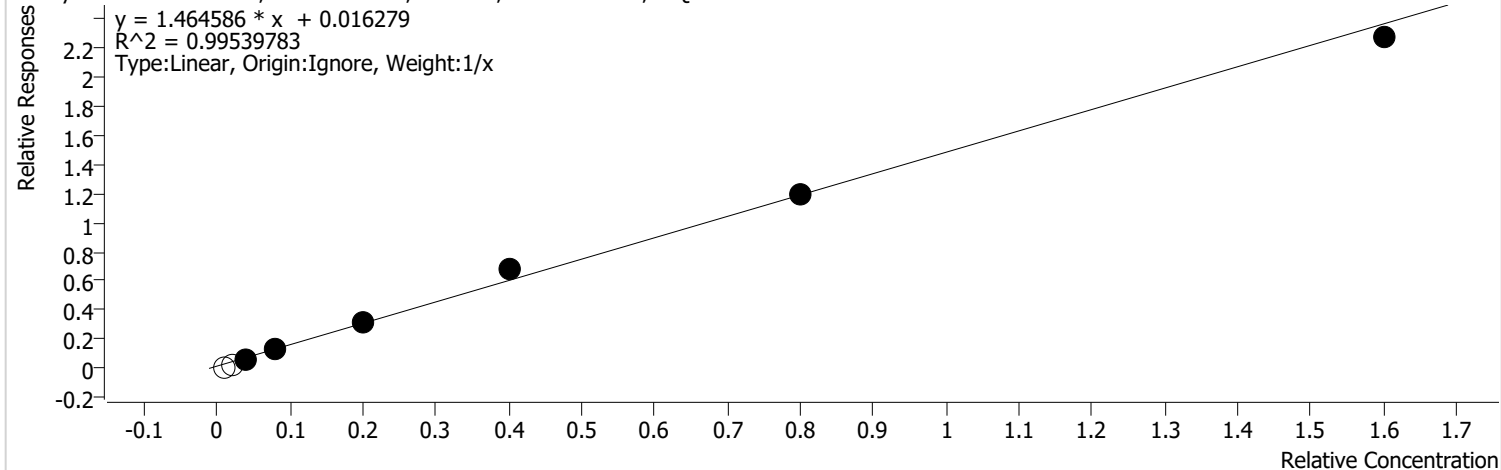
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1		9586	0.2000	0.8760	
D:\GC-19\Data\090723\090735.D	Calibration	2		21558	0.5000	0.8039	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	53636	1.0000	1.0695	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	108518	2.0000	1.0482	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	260629	5.0000	1.0228	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	526349	10.0000	1.0314	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	986616	20.0000	0.9262	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	2054813	40.0000	0.8492	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:13 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

n-Butylbenzene %RSE = 10.5

n-Butylbenzene - 8 Levels, 6 Levels Used, 8 Points, 6 Points Used, 0 QCs

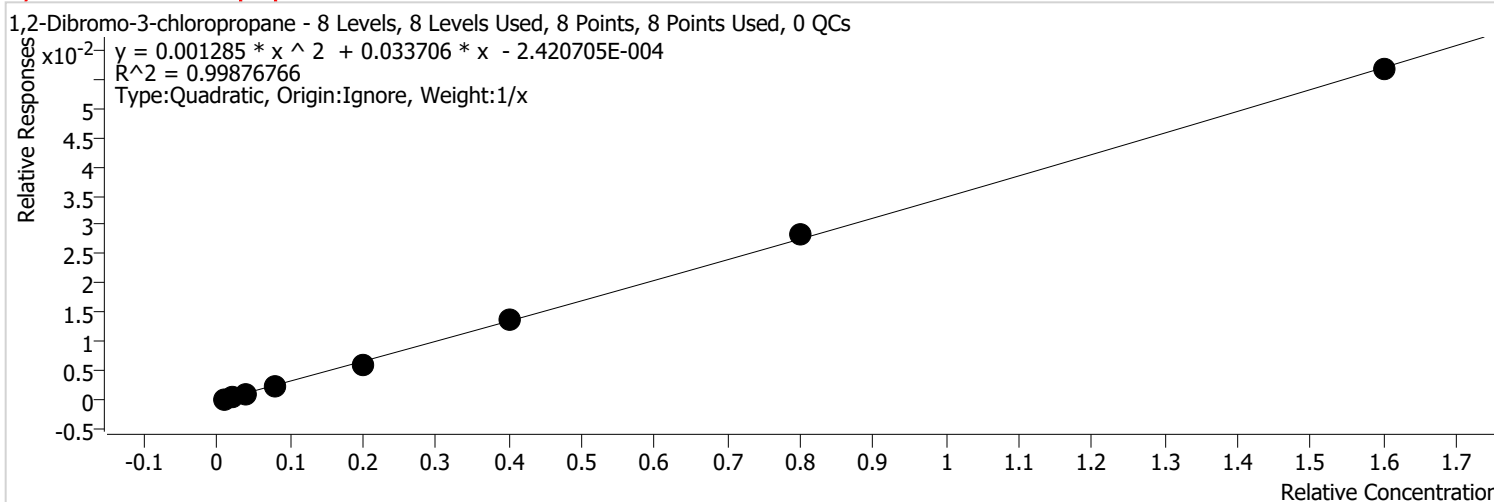


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1		15600	0.2000	1.4257	
D:\GC-19\Data\090723\090735.D	Calibration	2		33845	0.5000	1.2621	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	82636	1.0000	1.6478	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	173942	2.0000	1.6801	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	409801	5.0000	1.6082	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	866098	10.0000	1.6972	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	1599580	20.0000	1.5016	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	3425520	40.0000	1.4157	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:13 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,2-Dibromo-3-chloropropane %RSE = 17.2

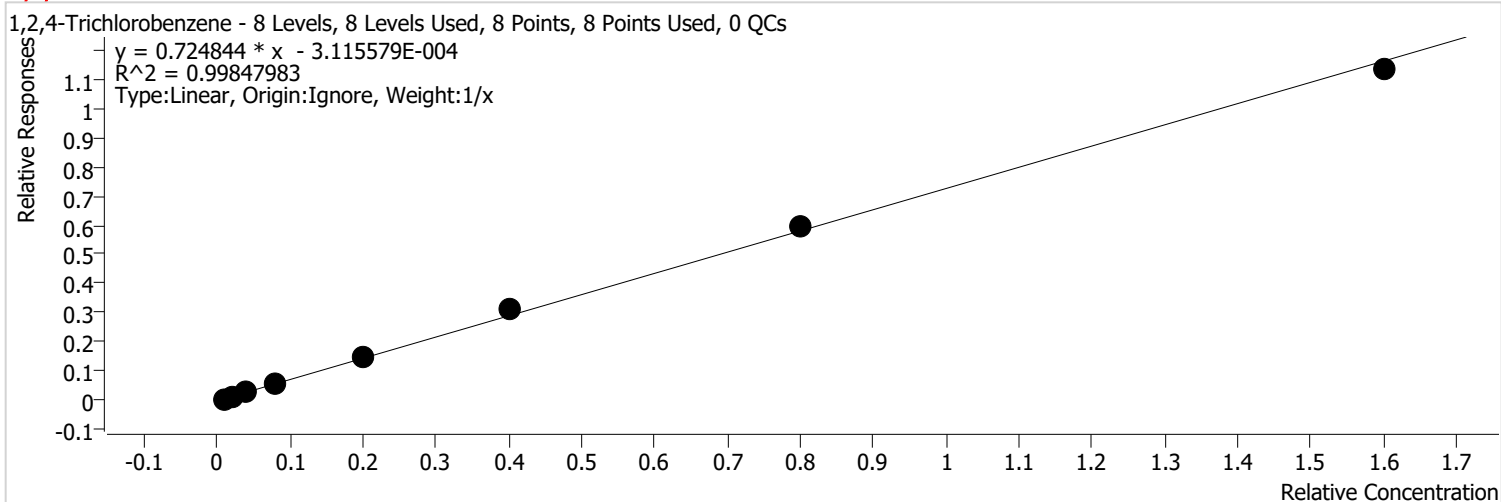


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1	x	155	0.2000	0.0142	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	416	0.5000	0.0155	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	1287	1.0000	0.0257	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	2981	2.0000	0.0288	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	7755	5.0000	0.0304	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	17763	10.0000	0.0348	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	37516	20.0000	0.0352	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	85619	40.0000	0.0354	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:13 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,2,4-Trichlorobenzene %RSE = 11.4



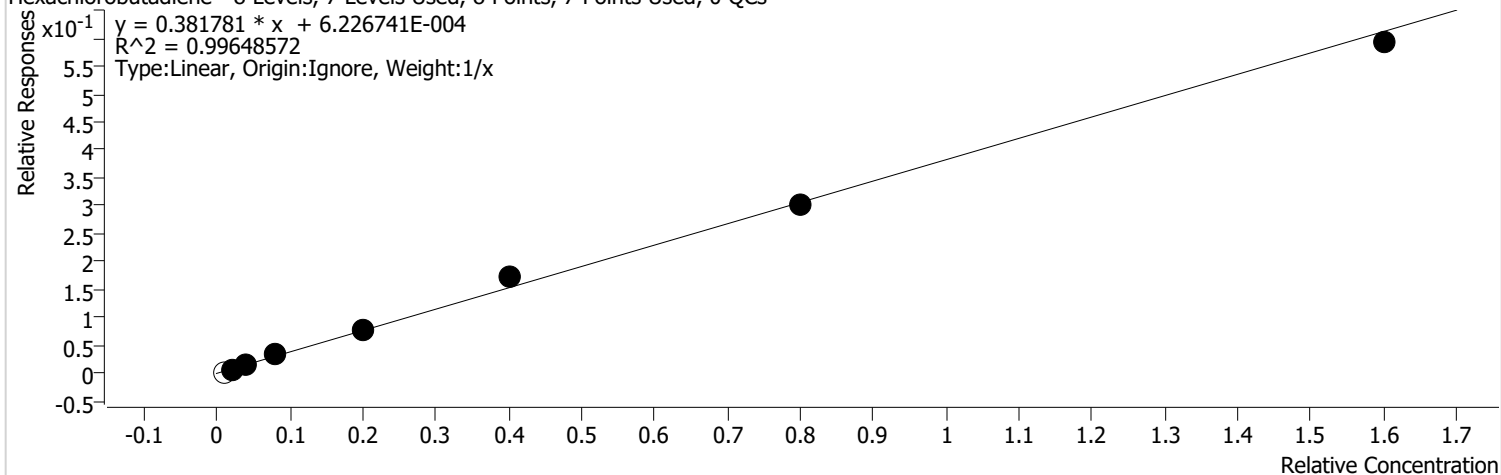
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1	x	8809	0.2000	0.8050	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	14880	0.5000	0.5549	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	35460	1.0000	0.7071	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	74150	2.0000	0.7162	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	185401	5.0000	0.7276	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	394677	10.0000	0.7734	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	787390	20.0000	0.7391	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	1708922	40.0000	0.7063	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:13 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Hexachlorobutadiene %RSE = 13.3

Hexachlorobutadiene - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 0 QCs



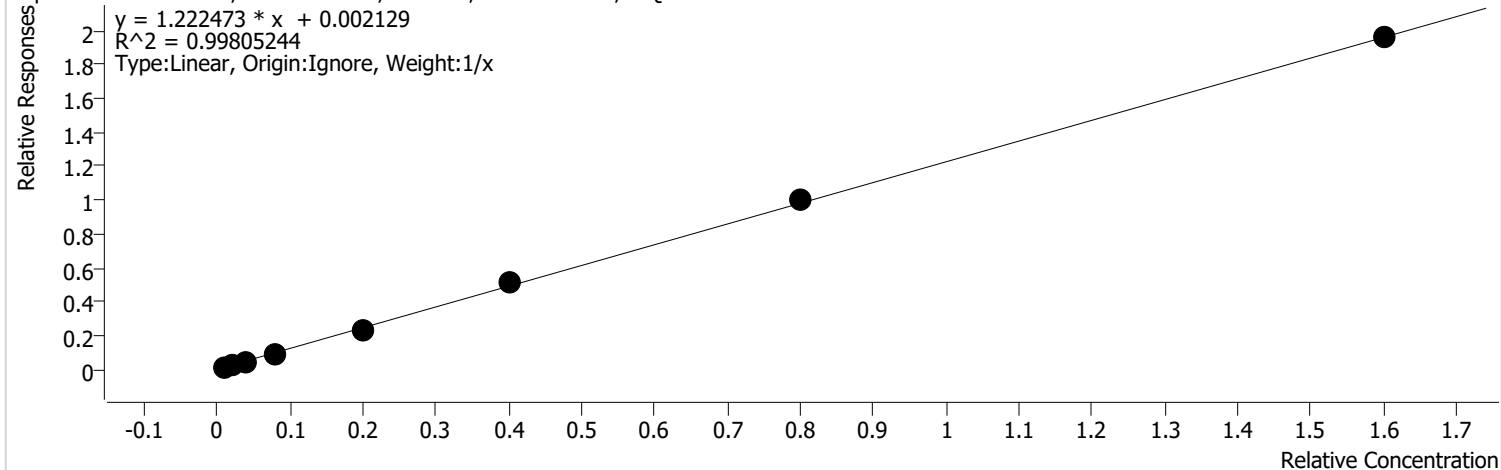
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1		4428	0.2000	0.4047	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	8513	0.5000	0.3174	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	21397	1.0000	0.4267	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	42411	2.0000	0.4097	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	102275	5.0000	0.4014	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	218388	10.0000	0.4279	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	404847	20.0000	0.3800	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	894503	40.0000	0.3697	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:13 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Naphthalene %RSE = 20.4

Naphthalene - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

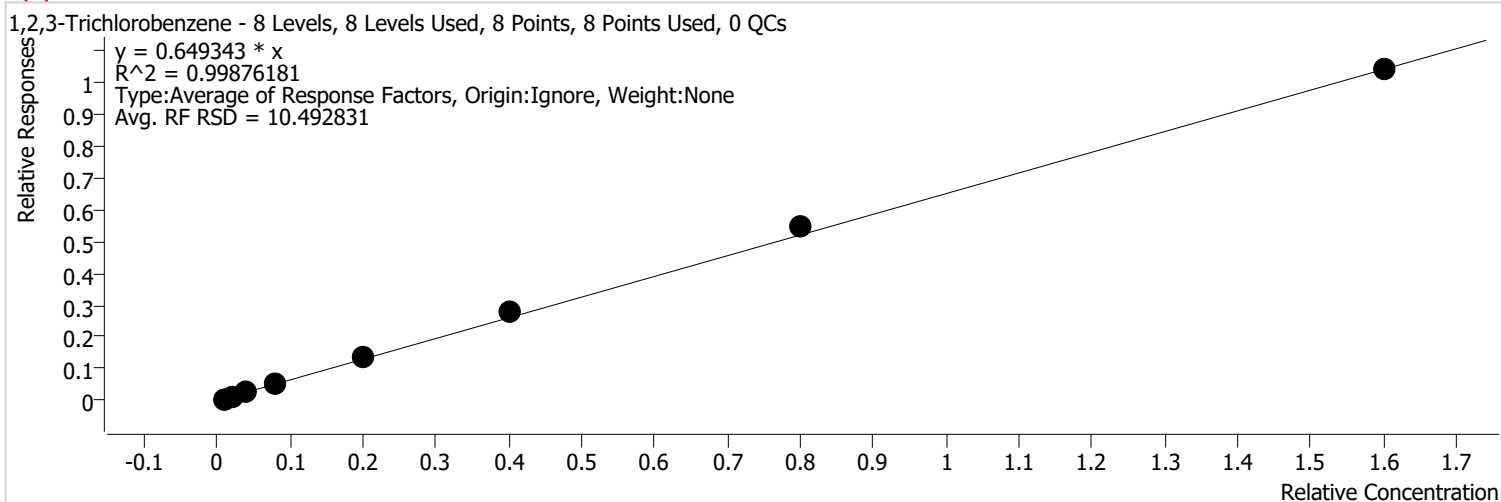


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1	x	21988	0.2000	2.0095	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	29305	0.5000	1.0928	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	57495	1.0000	1.1465	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	115428	2.0000	1.1149	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	291238	5.0000	1.1429	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	651380	10.0000	1.2764	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	1328010	20.0000	1.2466	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	2957963	40.0000	1.2224	

Calibration Report

Batch Path	D:\GC-19\Data\090723\QuantResults\VOC S 41436.batch.bin		
Analysis Time	9/11/2023 9:40 AM	Analyst Name	FA\GC19
Report Time	9/11/2023 9:58:13 AM	Reporter Name	FA\GC19
Last Calib Update	9/11/2023 7:57 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,2,3-Trichlorobenzene %RSE = 10.5



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\090723\090734.D	Calibration	1	x	7885	0.2000	0.7206	
D:\GC-19\Data\090723\090735.D	Calibration	2	x	13632	0.5000	0.5084	
D:\GC-19\Data\090723\090736.D	Calibration	3	x	31133	1.0000	0.6208	
D:\GC-19\Data\090723\090737.D	Calibration	4	x	64046	2.0000	0.6186	
D:\GC-19\Data\090723\090738.D	Calibration	5	x	177937	5.0000	0.6983	
D:\GC-19\Data\090723\090739.D	Calibration	6	x	356168	10.0000	0.6979	
D:\GC-19\Data\090723\090740.D	Calibration	7	x	725902	20.0000	0.6814	
D:\GC-19\Data\090723\090741.D	Calibration	8	x	1569714	40.0000	0.6487	

VOC Soil Calibration




Date: 9/7/23
 Analyst: CC
 Instrument: GC-19

Cal	ICV
8260 Standard: <u>28806</u>	8260 Standard: <u>28805</u>

IS/Surrogate 28847

Cal Level	Spike Conc. (ppb)	Cal 8260 Spike (uL)	ICV 8260 Spike (uL)	Amount MeOH (mL)	Final Vol. (mL)	Comments
1	0.2	0.50	--	1.00	50	
2	0.5	1.25	--	1.00	50	
3	1	2.50	--	1.00	50	
4	2	5.00	--	1.00	50	
5	5	12.50	--	1.00	50	
6	10	25.00	--	1.00	50	
7	20	50.00	--	1.00	50	
8	40	100.00	--	1.00	50	
	ICV (20 ppb)	--	50.00	1.00	50	

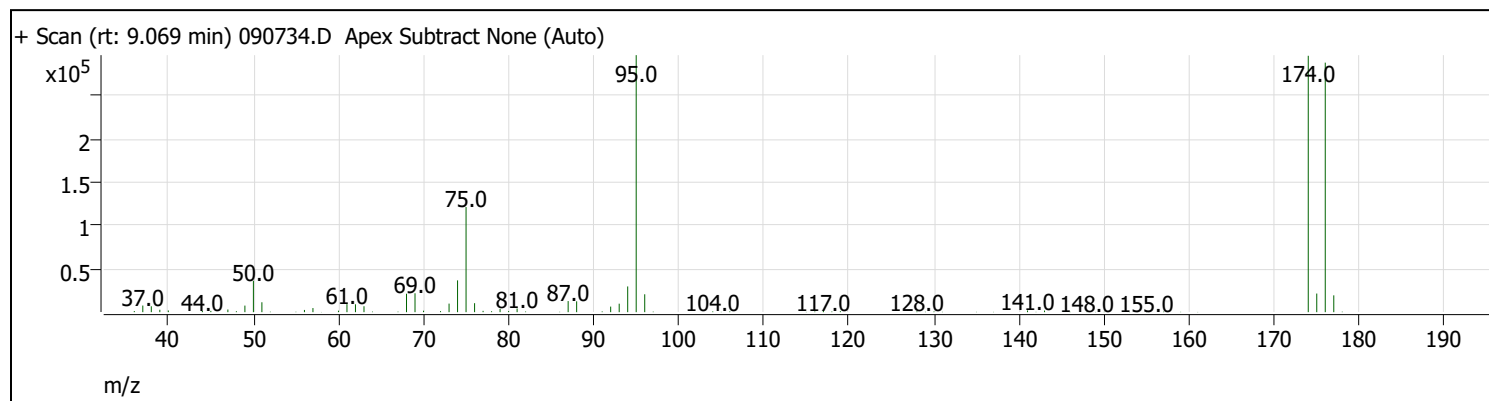
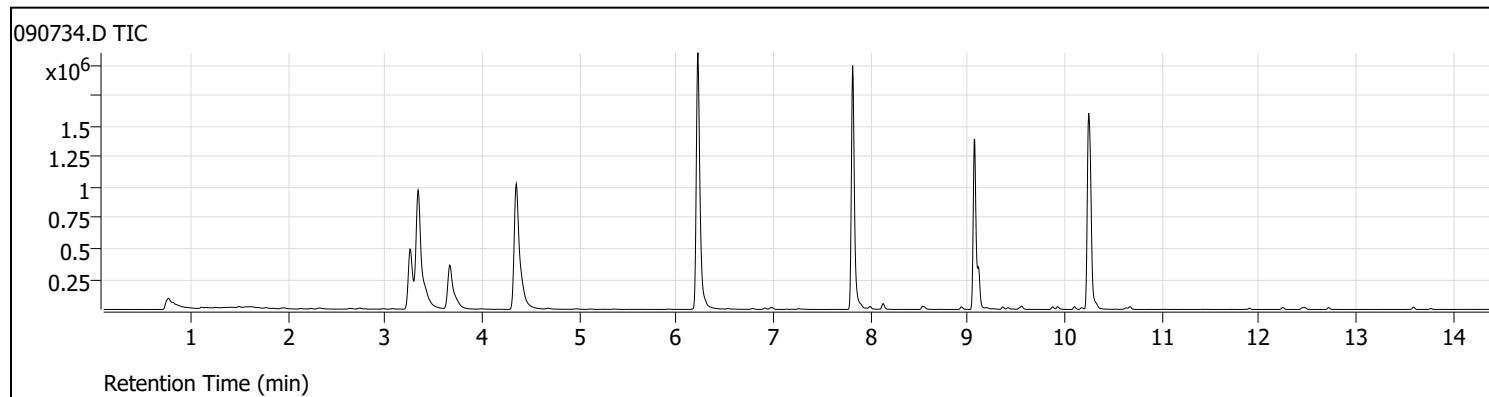
Signature and Date:  9/7/23



Tunes

Tune Evaluation Report

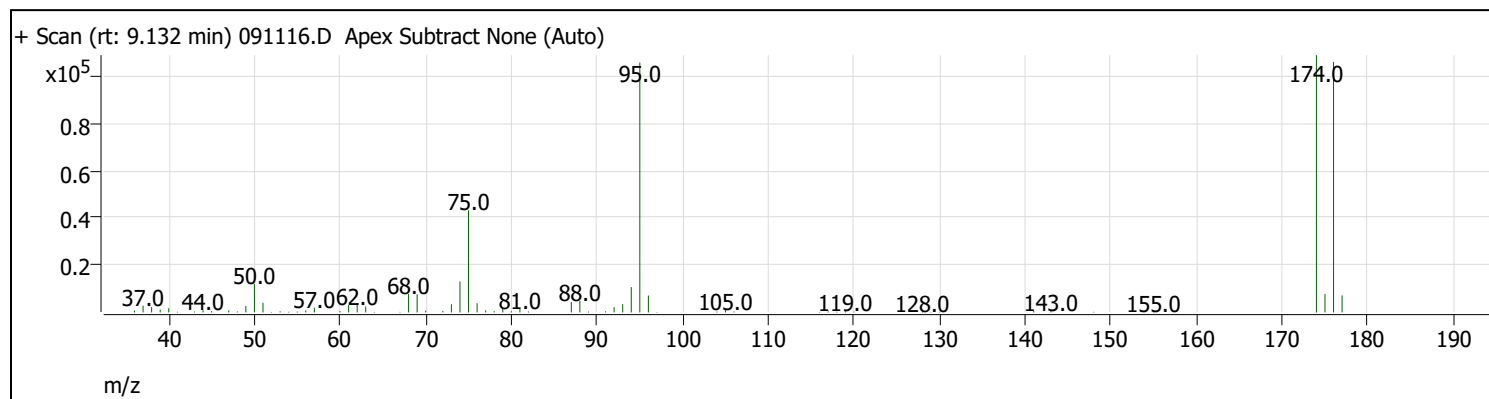
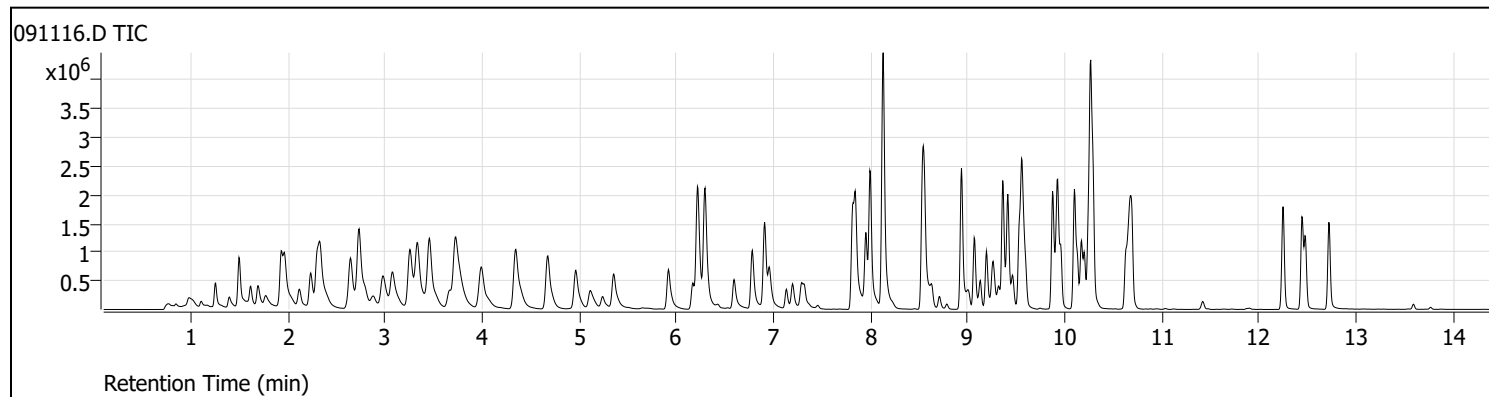
Data Path: D:\GC-19\Data\090723\090734.D
 Acq on: 9/7/2023 11:28:12 PM
 Operator: FA\GC19
 Sample: VOC S CAL 1
 Inst Name: GC19
 ALS Vial: 45
 Method: D:\MassHunter\Methods\Quant\BFB2021.m



Target Mass	Rel. To Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Pass/Fail
95	174	50	200	100.3	296624	Pass
96	95	5	9	7.0	20640	Pass
173	174	0	2	0.0	0	Pass
174	95	50	200	99.7	295880	Pass
175	174	5	9	7.3	21480	Pass
176	174	95	105	97.3	287975	Pass
177	176	5	10	6.7	19419	Pass

Tune Evaluation Report

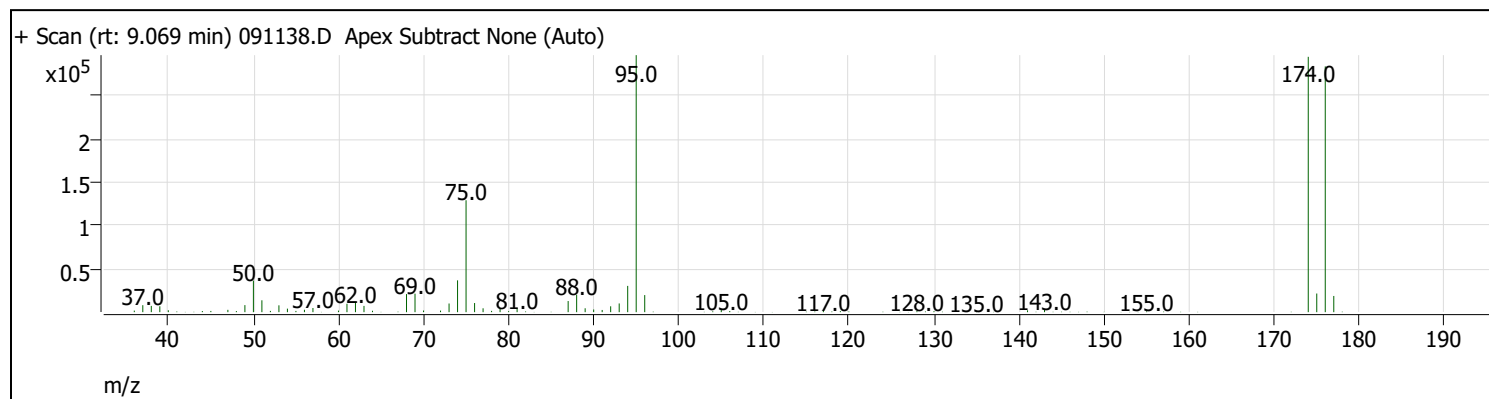
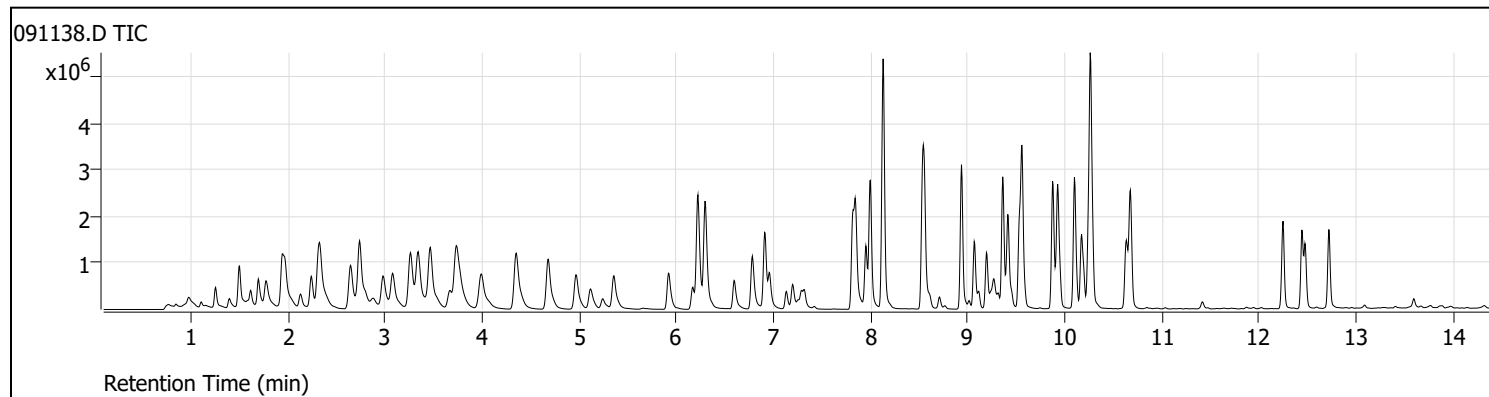
Data Path: D:\GC-19\Data\091123\091116.D
 Acq on: 9/11/2023 4:10:23 PM
 Operator: FA\GC19
 Sample: VOC S CCV C
 Inst Name: GC19
 ALS Vial: 11
 Method: D:\MassHunter\Methods\Quant\BFB2021.m



Target Mass	Rel. To Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Pass/Fail
95	174	50	200	97.1	105605	Pass
96	95	5	9	6.8	7158	Pass
173	174	0	2	0.0	0	Pass
174	95	50	200	103.0	108725	Pass
175	174	5	9	7.1	7770	Pass
176	174	95	105	97.4	105879	Pass
177	176	5	10	6.8	7189	Pass

Tune Evaluation Report

Data Path: D:\GC-19\Data\091123\091138.D
 Acq on: 9/12/2023 3:09:05 AM
 Operator: FA\GC19
 Sample: VOC S CCV D
 Inst Name: GC19
 ALS Vial: 29
 Method: D:\MassHunter\Methods\Quant\BFB2021.m



Target Mass	Rel. To Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Pass/Fail
95	174	50	200	100.7	297472	Pass
96	95	5	9	6.6	19774	Pass
173	174	0	2	0.0	0	Pass
174	95	50	200	99.4	295543	Pass
175	174	5	9	7.3	21567	Pass
176	174	95	105	96.2	284450	Pass
177	176	5	10	6.6	18742	Pass



Internal Standards

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-19 230912B CCV Name: VOC S 86405
 Run No: 86462 CCV SeqNo: 1804413
 Lab File ID (Standard): 090740.D Date Analyzed: 9/8/2023
 Instrument ID: GC-19 Time Analyzed: 2:29
 GC Column: ID (mm): Length (M):

	IS1 FBZ AREA #	RT #	IS2 (CBZ) AREA #	RT #	IS3 (14DCBZ) AREA #	RT #		
12 HOUR STD	1591288	3.338	1622378	7.816	1331585	10.249		
UPPER LIMIT	3182576	3.838	3244756	8.316	2663170	10.749		
LOWER LIMIT	795644	2.838	811189	7.316	665793	9.749		
SAMPLE NO.								
01	CCV-41443A	1.64297e+006	3.333	1.7169e+006	7.816	1.54223e+006	10.27	
02	CCV-41443B	1.76884e+006	3.338	1.8591e+006	7.816	1.50624e+006	10.249	

IS1 FBZ = Fluorobenzene
 IS2 (CBZ) = Chlorobenzene-d5

IS3 (14DCBZ) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = -50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-19 230912B

CCV Name: CCV-41443A

Run No: 86462

CCV SeqNo: 1804410

Lab File ID (Standard): 091116.D

Date Analyzed: 9/11/2023

Instrument ID: GC-19

Time Analyzed: 16:10

GC Column:

ID (mm):

Length (M):

	IS1 FBZ AREA #	RT #	IS2 (CBZ) AREA #	RT #	IS3 (14DCBZ) AREA #	RT #		
12 HOUR STD	1642970	3.333	1716904	7.816	1542228	10.270		
UPPER LIMIT	3285940	3.833	3433808	8.316	3084456	10.770		
LOWER LIMIT	821485	2.833	858452	7.316	771114	9.770		
SAMPLE NO.								
01	LCS-41443	1.64297e+006	3.333	1.7169e+006	7.816	1.54223e+006	10.27	
02	MB-41443	1.6568e+006	3.344	1.89034e+006	7.816	1.42064e+006	10.249	
03	2309051-013B	1.63808e+006	3.344	1.86543e+006	7.816	1.39836e+006	10.249	
04	2309051-017B	1.61884e+006	3.344	1.88019e+006	7.816	1.42577e+006	10.249	
05	2309051-017BDUP	1.62537e+006	3.344	1.90925e+006	7.816	1.45267e+006	10.249	
06	2309051-018B	1.58212e+006	3.344	1.78099e+006	7.821	1.3228e+006	10.259	
07	2309085-001B	1.6839e+006	3.344	1.86331e+006	7.816	1.43156e+006	10.249	
08	2309085-001BDUP	1.64792e+006	3.344	1.82429e+006	7.816	1.36789e+006	10.249	
09	2309085-002B	1.67228e+006	3.344	1.90837e+006	7.821	1.46032e+006	10.249	
10	2309085-003B	1.66912e+006	3.344	1.87936e+006	7.816	1.45341e+006	10.249	
11	2309085-004B	1.67116e+006	3.344	1.87007e+006	7.816	1.43105e+006	10.249	
12	2309085-005B	1.64538e+006	3.344	1.83983e+006	7.816	1.36909e+006	10.249	
13	2309085-006B	1.67224e+006	3.344	1.93141e+006	7.816	1.53141e+006	10.249	
14	2309085-007B	1.66655e+006	3.344	1.95399e+006	7.816	1.52035e+006	10.249	
15	2309085-008B	1.65469e+006	3.344	1.95992e+006	7.816	1.51585e+006	10.249	
16	2309085-009B	1.62797e+006	3.344	1.89711e+006	7.816	1.46471e+006	10.249	
17	2309051-013BMS	1.70745e+006	3.344	1.88901e+006	7.816	1.55497e+006	10.249	

IS1 FBZ = Fluorobenzene

IS3 (14DCBZ) = 1,4-Dichlorobenzene-d4

IS2 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-19 230912B CCV Name: CCV-41443B
 Run No: 86462 CCV SeqNo: 1804411
 Lab File ID (Standard): 091138.D Date Analyzed: 9/12/2023
 Instrument ID: GC-19 Time Analyzed: 3:09
 GC Column: ID (mm): Length (M):

	IS1 FBZ AREA #	RT #	IS2 (CBZ) AREA #	RT #	IS3 (14DCBZ) AREA #	RT #		
12 HOUR STD	1768837	3.338	1859101	7.816	1506243	10.249		
UPPER LIMIT	3537674	3.838	3718202	8.316	3012486	10.749		
LOWER LIMIT	884419	2.838	929551	7.316	753122	9.749		
SAMPLE NO.								
01	2309051-019B	1.69042e+006	3.344	1.91262e+006	7.816	1.38146e+006	10.249	
02	2309051-020B	1.65375e+006	3.343	1.88193e+006	7.821	1.41255e+006	10.254	
03	2309096-002B	1.71457e+006	3.349	1.95943e+006	7.816	1.47035e+006	10.249	
04	2309096-001B	1.78264e+006	3.344	2.0646e+006	7.816	1.57293e+006	10.249	

IS1 FBZ = Fluorobenzene
 IS2 (CBZ) = Chlorobenzene-d5

IS3 (14DCBZ) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = -50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.



GeoEngineers

Robert Trahan
2101 4th Ave, Suite 950
Seattle, WA 98121

RE: 701 South Jackson
Work Order Number: 2309211

September 27, 2023

Attention Robert Trahan:

Fremont Analytical, Inc. received 3 sample(s) on 9/19/2023 for the analyses presented in the following report.

Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.
Gasoline by NWTPH-Gx
Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)
Sample Moisture (Percent Moisture)
Volatile Organic Compounds by EPA Method 8260D

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager

DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.3 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910

Revision v2

CLIENT: GeoEngineers
Project: 701 South Jackson
Work Order: 2309211

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2309211-001	R3-B13-78	09/19/2023 2:35 PM	09/19/2023 3:26 PM
2309211-002	R3-B7-79	09/19/2023 2:45 PM	09/19/2023 3:26 PM
2309211-003	R3-DUP-02	09/19/2023 12:00 PM	09/19/2023 3:26 PM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: GeoEngineers
Project: 701 South Jackson

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Rev 1: Additional analyses requested by the client.

Rev 2: Sample ID modification per client request

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Analytical Report

Work Order: 2309211
Date Reported: 9/27/2023

Client: GeoEngineers
Project: 701 South Jackson
Lab ID: 2309211-001
Client Sample ID: R3-B13-78

Collection Date: 9/19/2023 2:35:00 PM

Matrix: Soil

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Batch ID: 41568 Analyst: SK

Diesel Range Organics	ND	56.6		mg/Kg-dry	1	9/25/2023 8:01:56 PM
Heavy Oil	ND	113		mg/Kg-dry	1	9/25/2023 8:01:56 PM
Total Petroleum Hydrocarbons	ND	170		mg/Kg-dry	1	9/25/2023 8:01:56 PM
Surr: 2-Fluorobiphenyl	96.0	50 - 150		%Rec	1	9/25/2023 8:01:56 PM
Surr: o-Terphenyl	91.3	50 - 150		%Rec	1	9/25/2023 8:01:56 PM

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Batch ID: 41572 Analyst: RG

Naphthalene	ND	0.0239		mg/Kg-dry	1	9/26/2023 12:45:17 AM
2-Methylnaphthalene	ND	0.0239		mg/Kg-dry	1	9/26/2023 12:45:17 AM
1-Methylnaphthalene	ND	0.0239		mg/Kg-dry	1	9/26/2023 12:45:17 AM
Surr: 2-Fluorobiphenyl	70.2	22.2 - 146		%Rec	1	9/26/2023 12:45:17 AM
Surr: Terphenyl-d14 (surr)	67.7	20.2 - 159		%Rec	1	9/26/2023 12:45:17 AM

Gasoline by NWTPH-Gx

Batch ID: 41532 Analyst: CC

Gasoline Range Organics	ND	4.75		mg/Kg-dry	1	9/20/2023 10:36:30 PM
Surr: Toluene-d8	102	65 - 135		%Rec	1	9/20/2023 10:36:30 PM
Surr: 4-Bromofluorobenzene	96.5	65 - 135		%Rec	1	9/20/2023 10:36:30 PM

Volatile Organic Compounds by EPA Method 8260D

Batch ID: 41532 Analyst: CC

Benzene	ND	0.0166		mg/Kg-dry	1	9/20/2023 10:36:30 PM
Toluene	ND	0.0285		mg/Kg-dry	1	9/20/2023 10:36:30 PM
Ethylbenzene	ND	0.0238		mg/Kg-dry	1	9/20/2023 10:36:30 PM
m,p-Xylene	ND	0.0475		mg/Kg-dry	1	9/20/2023 10:36:30 PM
o-Xylene	ND	0.0238		mg/Kg-dry	1	9/20/2023 10:36:30 PM
Surr: Dibromofluoromethane	98.5	74.2 - 129		%Rec	1	9/20/2023 10:36:30 PM
Surr: Toluene-d8	103	72 - 135		%Rec	1	9/20/2023 10:36:30 PM
Surr: 1-Bromo-4-fluorobenzene	95.8	51 - 150		%Rec	1	9/20/2023 10:36:30 PM

Sample Moisture (Percent Moisture)

Batch ID: R86610 Analyst: MP

Percent Moisture	19.8	0.500		wt%	1	9/20/2023 8:41:03 AM
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Analytical Report

Work Order: 2309211
Date Reported: 9/27/2023

Client: GeoEngineers
Project: 701 South Jackson
Lab ID: 2309211-002
Client Sample ID: R3-B7-79

Collection Date: 9/19/2023 2:45:00 PM

Matrix: Soil

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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Gasoline by NWTPH-Gx

Batch ID: 41532 Analyst: CC

Gasoline Range Organics	ND	5.91		mg/Kg-dry	1	9/20/2023 11:36:49 PM
Surr: Toluene-d8	99.0	65 - 135		%Rec	1	9/20/2023 11:36:49 PM
Surr: 4-Bromofluorobenzene	98.9	65 - 135		%Rec	1	9/20/2023 11:36:49 PM

Volatile Organic Compounds by EPA Method 8260D

Batch ID: 41532 Analyst: CC

Benzene	0.0785	0.0207		mg/Kg-dry	1	9/20/2023 11:36:49 PM
Toluene	ND	0.0355		mg/Kg-dry	1	9/20/2023 11:36:49 PM
Ethylbenzene	0.0956	0.0296		mg/Kg-dry	1	9/20/2023 11:36:49 PM
m,p-Xylene	0.122	0.0591		mg/Kg-dry	1	9/20/2023 11:36:49 PM
o-Xylene	0.134	0.0296		mg/Kg-dry	1	9/20/2023 11:36:49 PM
Surr: Dibromofluoromethane	97.8	74.2 - 129		%Rec	1	9/20/2023 11:36:49 PM
Surr: Toluene-d8	104	72 - 135		%Rec	1	9/20/2023 11:36:49 PM
Surr: 1-Bromo-4-fluorobenzene	98.3	51 - 150		%Rec	1	9/20/2023 11:36:49 PM

Sample Moisture (Percent Moisture)

Batch ID: R86610 Analyst: MP

Percent Moisture	22.4	0.500		wt%	1	9/20/2023 8:41:03 AM
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Analytical Report

Work Order: 2309211
Date Reported: 9/27/2023

Client: GeoEngineers

Collection Date: 9/19/2023 12:00:00 PM

Project: 701 South Jackson

Lab ID: 2309211-003

Matrix: Soil

Client Sample ID: R3-DUP-02

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Batch ID: 41568 Analyst: SK

Diesel Range Organics	ND	49.8		mg/Kg-dry	1	9/25/2023 8:12:54 PM
Heavy Oil	ND	99.6		mg/Kg-dry	1	9/25/2023 8:12:54 PM
Total Petroleum Hydrocarbons	ND	149		mg/Kg-dry	1	9/25/2023 8:12:54 PM
Surr: 2-Fluorobiphenyl	98.9	50 - 150		%Rec	1	9/25/2023 8:12:54 PM
Surr: o-Terphenyl	92.8	50 - 150		%Rec	1	9/25/2023 8:12:54 PM

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Batch ID: 41572 Analyst: RG

Naphthalene	ND	0.0230		mg/Kg-dry	1	9/26/2023 1:14:08 AM
2-Methylnaphthalene	ND	0.0230		mg/Kg-dry	1	9/26/2023 1:14:08 AM
1-Methylnaphthalene	ND	0.0230		mg/Kg-dry	1	9/26/2023 1:14:08 AM
Surr: 2-Fluorobiphenyl	71.4	22.2 - 146		%Rec	1	9/26/2023 1:14:08 AM
Surr: Terphenyl-d14 (surr)	68.8	20.2 - 159		%Rec	1	9/26/2023 1:14:08 AM

Gasoline by NWTPH-Gx

Batch ID: 41532 Analyst: CC

Gasoline Range Organics	ND	5.26		mg/Kg-dry	1	9/21/2023 12:06:59 AM
Surr: Toluene-d8	99.1	65 - 135		%Rec	1	9/21/2023 12:06:59 AM
Surr: 4-Bromofluorobenzene	98.4	65 - 135		%Rec	1	9/21/2023 12:06:59 AM

Volatile Organic Compounds by EPA Method 8260D

Batch ID: 41532 Analyst: CC

Benzene	ND	0.0184		mg/Kg-dry	1	9/21/2023 12:06:59 AM
Toluene	ND	0.0316		mg/Kg-dry	1	9/21/2023 12:06:59 AM
Ethylbenzene	ND	0.0263		mg/Kg-dry	1	9/21/2023 12:06:59 AM
m,p-Xylene	ND	0.0526		mg/Kg-dry	1	9/21/2023 12:06:59 AM
o-Xylene	ND	0.0263		mg/Kg-dry	1	9/21/2023 12:06:59 AM
Surr: Dibromofluoromethane	97.9	74.2 - 129		%Rec	1	9/21/2023 12:06:59 AM
Surr: Toluene-d8	104	72 - 135		%Rec	1	9/21/2023 12:06:59 AM
Surr: 1-Bromo-4-fluorobenzene	97.8	51 - 150		%Rec	1	9/21/2023 12:06:59 AM

Sample Moisture (Percent Moisture)

Batch ID: R86610 Analyst: MP

Percent Moisture	15.0	0.500		wt%	1	9/20/2023 8:41:03 AM
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Work Order: 2309211
CLIENT: GeoEngineers
Project: 701 South Jackson

QC SUMMARY REPORT
Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Sample ID: HO ICV		SampType: ICV		Units: mg/Kg		Prep Date: 7/27/2023		RunNo: 85547			
Client ID: ICV		Batch ID: 41568				Analysis Date: 7/27/2023		SeqNo: 1784893			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Heavy Oil	515	100	500.0	0	103	70	130				
Surr: 2-Fluorobiphenyl	10.5		10.00		105	50	150				
Surr: o-Terphenyl	10.8		10.00		108	50	150				

Sample ID: HO ICB		SampType: ICB		Units: mg/Kg		Prep Date: 7/27/2023		RunNo: 85547			
Client ID: ICB		Batch ID: 41568				Analysis Date: 7/27/2023		SeqNo: 1784901			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Heavy Oil	ND	100									
Surr: 2-Fluorobiphenyl	9.91		10.00		99.1	50	150				
Surr: o-Terphenyl	9.84		10.00		98.4	50	150				

Sample ID: DX ICB		SampType: ICB		Units: mg/Kg		Prep Date: 7/27/2023		RunNo: 85547			
Client ID: ICB		Batch ID: 41568				Analysis Date: 7/27/2023		SeqNo: 1784903			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics	ND	50.0									
Surr: 2-Fluorobiphenyl	10.0		10.00		100	50	150				
Surr: o-Terphenyl	10.0		10.00		100	50	150				

Sample ID: DX ICV		SampType: ICV		Units: mg/Kg		Prep Date: 7/27/2023		RunNo: 85547			
Client ID: ICV		Batch ID: 41568				Analysis Date: 7/27/2023		SeqNo: 1784904			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics	479	50.0	500.0	0	95.8	70	130				
Surr: 2-Fluorobiphenyl	10.5		10.00		105	50	150				
Surr: o-Terphenyl	11.0		10.00		110	50	150				

Work Order: 2309211
CLIENT: GeoEngineers
Project: 701 South Jackson

QC SUMMARY REPORT

Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Sample ID: OIL-CCV-41568A		SampType: CCV		Units: mg/Kg		Prep Date: 9/25/2023		RunNo: 86775			
Client ID: CCV		Batch ID: 41568				Analysis Date: 9/25/2023		SeqNo: 1810558			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Heavy Oil	500	100	500.0	0	100	85	115				
Surr: 2-Fluorobiphenyl	9.55		10.00		95.5	50	150				
Surr: o-Terphenyl	9.71		10.00		97.1	50	150				

Sample ID: DX-CCV-41568A		SampType: CCV		Units: mg/Kg		Prep Date: 9/25/2023		RunNo: 86775			
Client ID: CCV		Batch ID: 41568				Analysis Date: 9/25/2023		SeqNo: 1810560			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics	501	50.0	500.0	0	100	85	115				
Surr: 2-Fluorobiphenyl	10.7		10.00		107	50	150				
Surr: o-Terphenyl	12.6		10.00		126	50	150				

Sample ID: MB-41568		SampType: MBLK		Units: mg/Kg		Prep Date: 9/25/2023		RunNo: 86775			
Client ID: MBLKS		Batch ID: 41568				Analysis Date: 9/25/2023		SeqNo: 1810562			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics	ND	50.0									
Heavy Oil	ND	100									
Total Petroleum Hydrocarbons	ND	150									
Surr: 2-Fluorobiphenyl	9.88		10.00		98.8	50	150				
Surr: o-Terphenyl	9.37		10.00		93.7	50	150				

Sample ID: LCS-41568		SampType: LCS		Units: mg/Kg		Prep Date: 9/25/2023		RunNo: 86775			
Client ID: LCSS		Batch ID: 41568				Analysis Date: 9/25/2023		SeqNo: 1810564			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Petroleum Hydrocarbons	518	150	500.0	0	104	78.5	123				
Surr: 2-Fluorobiphenyl	9.01		10.00		90.1	50	150				
Surr: o-Terphenyl	12.0		10.00		120	50	150				

Work Order: 2309211
CLIENT: GeoEngineers
Project: 701 South Jackson

QC SUMMARY REPORT

Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Sample ID: 2309234-030AMS		SampType: MS		Units: mg/Kg-dry		Prep Date: 9/25/2023		RunNo: 86775			
Client ID: BATCH		Batch ID: 41568				Analysis Date: 9/25/2023		SeqNo: 1810581			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Petroleum Hydrocarbons	2,100	169	562.6	1,188	162	47.9	143				S
Surr: 2-Fluorobiphenyl	12.4		11.25		110	50	150				
Surr: o-Terphenyl	15.9		11.25		141	50	150				

NOTES:

S - Spiked amount was low relative to sample concentration. Outlying spike recoveries may be expected.

Sample ID: 2309234-030AMSD		SampType: MSD		Units: mg/Kg-dry		Prep Date: 9/25/2023		RunNo: 86775			
Client ID: BATCH		Batch ID: 41568				Analysis Date: 9/25/2023		SeqNo: 1810583			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Petroleum Hydrocarbons	2,610	169	563.6	1,188	252	47.9	143	2,098	21.7	30	S
Surr: 2-Fluorobiphenyl	14.8		11.27		132	50	150		0		
Surr: o-Terphenyl	15.4		11.27		137	50	150		0		

NOTES:

S - Spiked amount was low relative to sample concentration. Outlying spike recoveries may be expected.

Sample ID: OIL-CCV-41568B		SampType: CCV		Units: mg/Kg		Prep Date: 9/25/2023		RunNo: 86775			
Client ID: CCV		Batch ID: 41568				Analysis Date: 9/25/2023		SeqNo: 1810587			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Heavy Oil	512	100	500.0	0	102	85	115				
Surr: 2-Fluorobiphenyl	9.69		10.00		96.9	50	150				
Surr: o-Terphenyl	9.88		10.00		98.8	50	150				

Sample ID: DX-CCV-41568B		SampType: CCV		Units: mg/Kg		Prep Date: 9/25/2023		RunNo: 86775			
Client ID: CCV		Batch ID: 41568				Analysis Date: 9/25/2023		SeqNo: 1810589			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics	460	50.0	500.0	0	92.0	85	115				
Surr: 2-Fluorobiphenyl	9.12		10.00		91.2	50	150				
Surr: o-Terphenyl	11.4		10.00		114	50	150				

Work Order: 2309211
CLIENT: GeoEngineers
Project: 701 South Jackson

QC SUMMARY REPORT
Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Sample ID: 2309234-048ADUP	SampType: DUP	Units: mg/Kg-dry				Prep Date: 9/25/2023	RunNo: 86775				
Client ID: BATCH	Batch ID: 41568					Analysis Date: 9/26/2023	SeqNo: 1810598				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics	ND	73.9						0		30	
Heavy Oil	166	148						113.7	37.1	30	
Total Petroleum Hydrocarbons	ND	222						0		30	
Surr: 2-Fluorobiphenyl	13.1		14.77		89.0	50	150		0		
Surr: o-Terphenyl	12.7		14.77		85.9	50	150		0		

Sample ID: OIL-CCV-41568C	SampType: CCV	Units: mg/Kg				Prep Date: 9/26/2023	RunNo: 86775				
Client ID: CCV	Batch ID: 41568					Analysis Date: 9/26/2023	SeqNo: 1810609				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Heavy Oil	563	100	500.0	0	113	85	115				
Surr: 2-Fluorobiphenyl	11.1		10.00		111	50	150				
Surr: o-Terphenyl	11.4		10.00		114	50	150				

Sample ID: DX-CCV-41568C	SampType: CCV	Units: mg/Kg				Prep Date: 9/26/2023	RunNo: 86775				
Client ID: CCV	Batch ID: 41568					Analysis Date: 9/26/2023	SeqNo: 1810610				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics	529	50.0	500.0	0	106	85	115				
Surr: 2-Fluorobiphenyl	10.2		10.00		102	50	150				
Surr: o-Terphenyl	13.6		10.00		136	50	150				

Sample ID: OIL-CCV-41568D	SampType: CCV	Units: mg/Kg				Prep Date: 9/26/2023	RunNo: 86775				
Client ID: CCV	Batch ID: 41568					Analysis Date: 9/26/2023	SeqNo: 1810611				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Heavy Oil	486	100	500.0	0	97.3	85	115				
Surr: 2-Fluorobiphenyl	9.94		10.00		99.4	50	150				
Surr: o-Terphenyl	10.3		10.00		103	50	150				

Work Order: 2309211
CLIENT: GeoEngineers
Project: 701 South Jackson

QC SUMMARY REPORT
Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Sample ID: DX-CCV-41568D	SampType: CCV	Units: mg/Kg			Prep Date: 9/26/2023	RunNo: 86775					
Client ID: CCV	Batch ID: 41568				Analysis Date: 9/26/2023	SeqNo: 1810612					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel Range Organics	499	50.0	500.0	0	99.8	85	115
Surr: 2-Fluorobiphenyl	10.2		10.00		102	50	150
Surr: o-Terphenyl	12.5		10.00		125	50	150

Sample ID: OIL-CCV-41568E	SampType: CCV	Units: mg/Kg			Prep Date: 9/26/2023	RunNo: 86775					
Client ID: CCV	Batch ID: 41568				Analysis Date: 9/26/2023	SeqNo: 1810614					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Heavy Oil	572	100	500.0	0	114	85	115
Surr: 2-Fluorobiphenyl	9.92		10.00		99.2	50	150
Surr: o-Terphenyl	10.3		10.00		103	50	150

Sample ID: DX-CCV-41568E	SampType: CCV	Units: mg/Kg			Prep Date: 9/26/2023	RunNo: 86775					
Client ID: CCV	Batch ID: 41568				Analysis Date: 9/26/2023	SeqNo: 1810615					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel Range Organics	497	50.0	500.0	0	99.4	85	115
Surr: 2-Fluorobiphenyl	9.25		10.00		92.5	50	150
Surr: o-Terphenyl	11.8		10.00		118	50	150

Work Order: 2309211
CLIENT: GeoEngineers
Project: 701 South Jackson

QC SUMMARY REPORT

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Sample ID: PAH ICB	SampType: ICB	Units: µg/L			Prep Date: 9/14/2023	RunNo: 86537					
Client ID: ICB	Batch ID: 41572				Analysis Date: 9/14/2023	SeqNo: 1805643					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	ND	20.0									
2-Methylnaphthalene	ND	20.0									
1-Methylnaphthalene	ND	20.0									
Surr: 2-Fluorobiphenyl	377		500.0		75.3	50.4	142				
Surr: Terphenyl-d14 (surr)	398		500.0		79.6	48.8	157				

Sample ID: PAH ICV	SampType: ICV	Units: µg/L			Prep Date: 9/14/2023	RunNo: 86537					
Client ID: ICV	Batch ID: 41572				Analysis Date: 9/14/2023	SeqNo: 1805644					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	1,030	20.0	1,000	0	103	70	130				
2-Methylnaphthalene	1,020	20.0	1,000	0	102	70	130				
1-Methylnaphthalene	1,030	20.0	1,000	0	103	70	130				
Surr: 2-Fluorobiphenyl	567		500.0		113	60.9	160				
Surr: Terphenyl-d14 (surr)	570		500.0		114	62.2	159				

Sample ID: CCV-41572A	SampType: CCV	Units: µg/L			Prep Date: 9/25/2023	RunNo: 86767					
Client ID: CCV	Batch ID: 41572				Analysis Date: 9/25/2023	SeqNo: 1810339					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	889	0.0200	1,000	0	88.9	80	120				
2-Methylnaphthalene	919	0.0200	1,000	0	91.9	80	120				
1-Methylnaphthalene	900	0.0200	1,000	0	90.0	80	120				
Surr: 2-Fluorobiphenyl	451		500.0		90.1	69.5	150				
Surr: Terphenyl-d14 (surr)	403		500.0		80.6	71.6	145				

Work Order: 2309211
CLIENT: GeoEngineers
Project: 701 South Jackson

QC SUMMARY REPORT

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Sample ID: MB-41572	SampType: MBLK	Units: mg/Kg	Prep Date: 9/25/2023	RunNo: 86767							
Client ID: MBLKS	Batch ID: 41572	Analysis Date: 9/25/2023	SeqNo: 1810340								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	ND	0.0200									
2-Methylnaphthalene	ND	0.0200									
1-Methylnaphthalene	ND	0.0200									
Surr: 2-Fluorobiphenyl	0.746		1.000		74.6	22.2	146				
Surr: Terphenyl-d14 (surr)	0.697		1.000		69.7	20.2	159				

Sample ID: LCS-41572	SampType: LCS	Units: mg/Kg	Prep Date: 9/25/2023	RunNo: 86767							
Client ID: LCSS	Batch ID: 41572	Analysis Date: 9/26/2023	SeqNo: 1810341								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	1.55	0.0200	2.000	0	77.3	63.8	120				
2-Methylnaphthalene	1.59	0.0200	2.000	0	79.3	57	118				
1-Methylnaphthalene	1.56	0.0200	2.000	0	78.2	56.6	119				
Surr: 2-Fluorobiphenyl	0.840		1.000		84.0	22.2	146				
Surr: Terphenyl-d14 (surr)	0.740		1.000		74.0	20.2	159				

Sample ID: CCV-41572B	SampType: CCV	Units: µg/L	Prep Date: 9/26/2023	RunNo: 86767							
Client ID: CCV	Batch ID: 41572	Analysis Date: 9/26/2023	SeqNo: 1810367								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	906	0.0200	1,000	0	90.6	80	120				
2-Methylnaphthalene	915	0.0200	1,000	0	91.5	80	120				
1-Methylnaphthalene	909	0.0200	1,000	0	90.9	80	120				
Surr: 2-Fluorobiphenyl	450		500.0		89.9	69.5	150				
Surr: Terphenyl-d14 (surr)	406		500.0		81.3	71.6	145				

Work Order: 2309211
CLIENT: GeoEngineers
Project: 701 South Jackson

QC SUMMARY REPORT

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Sample ID: 2309234-042AMS	SampType: MS	Units: mg/Kg-dry	Prep Date: 9/25/2023	RunNo: 86767							
Client ID: BATCH	Batch ID: 41572	Analysis Date: 9/26/2023	SeqNo: 1810351								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	1.67	0.0228	2.284	0.03152	71.8	44.9	136				
2-Methylnaphthalene	1.72	0.0228	2.284	0.01298	74.7	39.2	132				
1-Methylnaphthalene	1.70	0.0228	2.284	0.01234	73.7	40.9	133				
Surr: 2-Fluorobiphenyl	0.890		1.142		77.9	22.2	146				
Surr: Terphenyl-d14 (surr)	0.793		1.142		69.4	20.2	159				

Sample ID: 2309234-042AMSD	SampType: MSD	Units: mg/Kg-dry	Prep Date: 9/25/2023	RunNo: 86767							
Client ID: BATCH	Batch ID: 41572	Analysis Date: 9/26/2023	SeqNo: 1810352								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	1.63	0.0227	2.273	0.03152	70.3	44.9	136	1.672	2.61	30	
2-Methylnaphthalene	1.69	0.0227	2.273	0.01298	73.7	39.2	132	1.720	1.83	30	
1-Methylnaphthalene	1.66	0.0227	2.273	0.01234	72.6	40.9	133	1.696	2.02	30	
Surr: 2-Fluorobiphenyl	0.874		1.136		76.9	22.2	146		0		
Surr: Terphenyl-d14 (surr)	0.775		1.136		68.2	20.2	159		0		

Work Order: 2309211
CLIENT: GeoEngineers
Project: 701 South Jackson

QC SUMMARY REPORT

Gasoline by NWTPH-Gx

Sample ID: GX ICB	SampType: ICB	Units: µg/L	Prep Date: 9/20/2023	RunNo: 86636							
Client ID: ICB	Batch ID: 41532		Analysis Date: 9/20/2023	SeqNo: 1807574							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline Range Organics	ND	50.0									
Surr: Toluene-d8	25.0		25.00		99.9	65	135				
Surr: 4-Bromofluorobenzene	24.5		25.00		98.2	65	135				

Sample ID: GX ICV	SampType: ICV	Units: µg/L	Prep Date: 9/20/2023	RunNo: 86636							
Client ID: ICV	Batch ID: 41532		Analysis Date: 9/20/2023	SeqNo: 1807575							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline Range Organics	488	50.0	500.0	0	97.5	80	120				
Surr: Toluene-d8	25.3		25.00		101	65	135				
Surr: 4-Bromofluorobenzene	25.2		25.00		101	65	135				

Sample ID: CCV-41532A	SampType: CCV	Units: mg/Kg	Prep Date: 9/20/2023	RunNo: 86646							
Client ID: CCV	Batch ID: 41532		Analysis Date: 9/20/2023	SeqNo: 1807803							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline Range Organics	518	5.00	500.0	0	104	80	120				
Surr: Toluene-d8	25.3		25.00		101	65	135				
Surr: 4-Bromofluorobenzene	24.7		25.00		98.7	65	135				

Sample ID: LCS-41532	SampType: LCS	Units: mg/Kg	Prep Date: 9/20/2023	RunNo: 86646							
Client ID: LCSS	Batch ID: 41532		Analysis Date: 9/20/2023	SeqNo: 1807806							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline Range Organics	25.9	5.00	25.00	0	104	65	135				
Surr: Toluene-d8	1.27		1.250		101	65	135				
Surr: 4-Bromofluorobenzene	1.23		1.250		98.7	65	135				

Work Order: 2309211
CLIENT: GeoEngineers
Project: 701 South Jackson

QC SUMMARY REPORT

Gasoline by NWTPH-Gx

Sample ID: MB-41532	SampType: MBLK	Units: mg/Kg	Prep Date: 9/20/2023	RunNo: 86646							
Client ID: MBLKS	Batch ID: 41532		Analysis Date: 9/20/2023	SeqNo: 1807805							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline Range Organics	ND	5.00									
Surr: Toluene-d8	1.24		1.250		99.5	65	135				
Surr: 4-Bromofluorobenzene	1.24		1.250		99.3	65	135				

Sample ID: 2309211-001BDUP	SampType: DUP	Units: mg/Kg-dry	Prep Date: 9/20/2023	RunNo: 86646							
Client ID: R3-B13-78	Batch ID: 41532		Analysis Date: 9/20/2023	SeqNo: 1807799							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline Range Organics	ND	4.75						0		30	
Surr: Toluene-d8	1.18		1.188		99.7	65	135		0		
Surr: 4-Bromofluorobenzene	1.15		1.188		97.1	65	135		0		

Sample ID: 2309211-003BMS	SampType: MS	Units: mg/Kg-dry	Prep Date: 9/20/2023	RunNo: 86646							
Client ID: R3-DUP-02	Batch ID: 41532		Analysis Date: 9/21/2023	SeqNo: 1807802							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline Range Organics	27.7	5.26	26.32	0	105	65	135				
Surr: Toluene-d8	1.33		1.316		101	65	135				
Surr: 4-Bromofluorobenzene	1.29		1.316		98.1	65	135				

Sample ID: CCV-41532B	SampType: CCV	Units: mg/Kg	Prep Date: 9/21/2023	RunNo: 86646							
Client ID: CCV	Batch ID: 41532		Analysis Date: 9/21/2023	SeqNo: 1807804							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline Range Organics	474	5.00	500.0	0	94.7	80	120				
Surr: Toluene-d8	25.3		25.00		101	65	135				
Surr: 4-Bromofluorobenzene	24.5		25.00		98.2	65	135				

Work Order: 2309211
CLIENT: GeoEngineers
Project: 701 South Jackson

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: VOC W ICB		SampType: ICB		Units: µg/L		Prep Date: 9/19/2023		RunNo: 86634			
Client ID: ICB		Batch ID: 41532				Analysis Date: 9/19/2023		SeqNo: 1807720			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.440									
Toluene	ND	1.00									
Ethylbenzene	ND	0.400									
m,p-Xylene	ND	1.00									
o-Xylene	ND	0.500									
Surr: Dibromofluoromethane	24.4		25.00		97.6	80	120				
Surr: Toluene-d8	25.1		25.00		100	80	120				
Surr: 1-Bromo-4-fluorobenzene	24.5		25.00		98.0	80	120				

Sample ID: VOC W ICV		SampType: ICV		Units: µg/L		Prep Date: 9/19/2023		RunNo: 86634			
Client ID: ICV		Batch ID: 41532				Analysis Date: 9/19/2023		SeqNo: 1807721			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	19.6	0.440	20.00	0	98.0	70	130				
Toluene	19.7	1.00	20.00	0	98.6	70	130				
Ethylbenzene	20.0	0.400	20.00	0	99.9	70	130				
m,p-Xylene	39.8	1.00	40.00	0	99.4	70	130				
o-Xylene	20.2	0.500	20.00	0	101	70	130				
Surr: Dibromofluoromethane	25.6		25.00		102	70	130				
Surr: Toluene-d8	24.8		25.00		99.3	70	130				
Surr: 1-Bromo-4-fluorobenzene	24.9		25.00		99.5	70	130				

Sample ID: CCV-41532A		SampType: CCV		Units: µg/L		Prep Date: 9/20/2023		RunNo: 86645			
Client ID: CCV		Batch ID: 41532				Analysis Date: 9/20/2023		SeqNo: 1807776			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	22.1	0.0175	20.00	0	110	80	120				
Toluene	21.2	0.0300	20.00	0	106	80	120				
Ethylbenzene	21.2	0.0250	20.00	0	106	80	120				
m,p-Xylene	42.3	0.0500	40.00	0	106	80	120				
o-Xylene	21.2	0.0250	20.00	0	106	80	120				

Work Order: 2309211
CLIENT: GeoEngineers
Project: 701 South Jackson

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: CCV-41532A		SampType: CCV		Units: µg/L		Prep Date: 9/20/2023		RunNo: 86645			
Client ID: CCV		Batch ID: 41532				Analysis Date: 9/20/2023		SeqNo: 1807776			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	26.8		25.00		107	80	120				
Surr: Toluene-d8	25.7		25.00		103	80	120				
Surr: 1-Bromo-4-fluorobenzene	24.6		25.00		98.6	80	120				

Sample ID: LCS-41532		SampType: LCS		Units: µg/L		Prep Date: 9/20/2023		RunNo: 86645			
Client ID: LCSS		Batch ID: 41532				Analysis Date: 9/20/2023		SeqNo: 1807789			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	1.10	0.0175	1.000	0	110	80	120				
Toluene	1.06	0.0300	1.000	0	106	80	120				
Ethylbenzene	1.06	0.0250	1.000	0	106	80	120				
m,p-Xylene	2.12	0.0500	2.000	0	106	80	120				
o-Xylene	1.06	0.0250	1.000	0	106	80	120				
Surr: Dibromofluoromethane	1.34		1.250		107	74.2	129				
Surr: Toluene-d8	1.28		1.250		103	72	135				
Surr: 1-Bromo-4-fluorobenzene	1.23		1.250		98.6	51	150				

Sample ID: MB-41532		SampType: MBLK		Units: mg/Kg		Prep Date: 9/20/2023		RunNo: 86645			
Client ID: MBLKS		Batch ID: 41532				Analysis Date: 9/20/2023		SeqNo: 1807788			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.0175									
Toluene	ND	0.0300									
Ethylbenzene	ND	0.0250									
m,p-Xylene	ND	0.0500									
o-Xylene	ND	0.0250									
Surr: Dibromofluoromethane	1.23		1.250		98.1	79.5	124				
Surr: Toluene-d8	1.31		1.250		105	77.5	124				
Surr: 1-Bromo-4-fluorobenzene	1.23		1.250		98.7	60.5	139				

Work Order: 2309211
CLIENT: GeoEngineers
Project: 701 South Jackson

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: 2309211-001BDUP		SampType: DUP		Units: mg/Kg-dry		Prep Date: 9/20/2023		RunNo: 86645			
Client ID: R3-B13-78		Batch ID: 41532				Analysis Date: 9/20/2023		SeqNo: 1807783			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.0166						0		30	
Toluene	ND	0.0285						0		30	
Ethylbenzene	ND	0.0238						0		30	
m,p-Xylene	ND	0.0475						0		30	
o-Xylene	ND	0.0238						0		30	
Surr: Dibromofluoromethane	1.16		1.188		98.0	74.2	129		0		
Surr: Toluene-d8	1.25		1.188		105	72	135		0		
Surr: 1-Bromo-4-fluorobenzene	1.15		1.188		96.6	51	150		0		

Sample ID: 2309211-002BMS		SampType: MS		Units: mg/Kg-dry		Prep Date: 9/20/2023		RunNo: 86645			
Client ID: R3-B7-79		Batch ID: 41532				Analysis Date: 9/21/2023		SeqNo: 1807786			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	1.36	0.0207	1.182	0.07849	108	52.3	147				
Toluene	1.22	0.0355	1.182	0	104	50.1	147				
Ethylbenzene	1.32	0.0296	1.182	0.09556	104	51.7	143				
m,p-Xylene	2.57	0.0591	2.364	0.1225	104	54.5	144				
o-Xylene	1.22	0.0296	1.182	0.1342	92.1	57.1	141				
Surr: Dibromofluoromethane	1.53		1.478		103	74.2	129				
Surr: Toluene-d8	1.50		1.478		102	72	135				
Surr: 1-Bromo-4-fluorobenzene	1.45		1.478		98.0	51	150				

Client Name: GEI	Work Order Number: 2309211
Logged by: Morgan Wilson	Date Received: 9/19/2023 3:26:00 PM

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
2. How was the sample delivered? Client

Log In

3. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes No Not Present
4. Was an attempt made to cool the samples? Yes No NA
5. Were all items received at a temperature of >2°C to 6°C * Yes No NA
6. Sample(s) in proper container(s)? Yes No
7. Sufficient sample volume for indicated test(s)? Yes No
8. Are samples properly preserved? Yes No
9. Was preservative added to bottles? Yes No NA
MeOH
10. Is there headspace in the VOA vials? Yes No NA
11. Did all samples containers arrive in good condition(unbroken)? Yes No
12. Does paperwork match bottle labels? Yes No
13. Are matrices correctly identified on Chain of Custody? Yes No
14. Is it clear what analyses were requested? Yes No
15. Were all hold times (except field parameters, pH e.g.) able to be met? Yes No

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

17. Additional remarks:

Item Information

Item #	Temp °C
Sample	1.3

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C



3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790

Chain of Custody Record & Laboratory Services Agreement

Date: 9.19.2023 Page: 1 of 1

Project Name: 101 South Jackson

Project No: 24504-001-03

Collected by: Nathan Solomon

Location: Seattle WA

Report To (PM): Robert Truesdell

Disposal: Samples will be disposed in 30 days unless otherwise requested.
 Retain volume (specify above) Return to client

Laboratory Project No (Internal): 230921
Special Remarks: PHOLO SAMPLES FOR PHOLOS UP ANALYTICAL

Turn-around Time:
 Standard Next Day
 3 Day Same Day
 2 Day (specify)

Client: GEOTECHNICAL
Address:
City, State, Zip:
Telephone:
Email(s): RTRUESDELL@GEOTECHNICAL.COM

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	# of Cont.	Analytes											Comments							
					VOCs (EPA 8260 / 624)	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (DX)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 8020 / 200.8)	Total (T) Dissolved (D)	Anions (CI)**		EDB (8011)						
1 R3-B13-78	9.19.23	1435	S	4	X	X																	
2 R3-B7-78		1445		4	X	X																	
3 R3-DUT-02		1200		4	X	X																	
4																							
5																							
6																							
7																							
8																							
9																							
10																							

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water

**Metals (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Tl Ti V Zn

***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide Iodide Phosphate Fluoride Nitrate+Nitrite

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above. that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished (Signature) *[Signature]* Print Name *Nathan Solomon* Date/Time *09.19.2023 1526*

Received (Signature) *[Signature]* Print Name *Nathan Solomon* Date/Time *09.19.2023 1526*



3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790

Chain of Custody Record & Laboratory Services Agreement

Date: 9.19.2023

Page: 1 of 1

Project Name: 101 South Jackson

Project No: 24504-001-03

Collected by: Nathan Solomon

Location: SEATTLE WA

Report To (PM): ROBERT TREATMENT

Special Remarks: HOLD SAMPLES FOR FURTHER ANALYSIS

X = run for DX & Naphthalenes, 2 day TAT, per RT, 9/25-09

Client: GEOTECHNICAL ANALYTICAL

Address:

City, State, Zip:

Telephone:

Email(s): R.TREATMENT@GEOTECHNICAL.COM

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	# of Cont.	Analytes											Comments										
					VOCs (EPA 8260 / 624)	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (DX)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T) Dissolved (D)	Anions (CI)***		EDB (8011)									
1 R3-B13-78	9.19.23	1435	S	4	X	X																				
2 R3-B7-78		1445		4	X	X																				
3 R3-DUT-02		1200		4	X	X																				
4																										
5																										
6																										
7																										
8																										
9																										
10																										

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water

**Metals (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Tl Ti V Zn

***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide Iodide Phosphate Fluoride Nitrate-Nitrite

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished (Signature) *[Signature]* Print Name: Nathan Solomon Date/Time: 09.19.2023 1526

Received (Signature) *[Signature]* Print Name: 9/19/23 Date/Time: 1526

Turn-around Time:

Standard Next Day

2 Day Same Day

(specify)



3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790

Chain of Custody Record & Laboratory Services Agreement

Date: 9.19.2023 Page: 1 of 1
Project Name: 101 South Jackson
Project No: 24504-001-03
Laboratory Project No (Internal): 230921

Client: GEOTECHNICAL ENGINEERS

Address: Collected by: NATALIA SALOMON
RT, 9/25 - 09

City, State, Zip: Location: SEATTLE WA

Telephone: Report To (PM): ROBERT TRANTAP

Email(s): RTRANTAP@GEOTECHNICALENGINEERS.COM

Special Remarks: HOLD SAMPLES FOR FUTURE USE ANALYTICAL
X = run for DX & Naphthalenes, 2 day TAT, per RT, 9/25 - 09
Disposal: Samples will be disposed in 30 days unless otherwise requested.
 Retain volume (specify above) Return to client

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	# of Cont.	Analytical Parameters												Comments	
					VOCs (EPA 8260 / 624)	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (DX)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 8020 / 200.8)	Total (T) Dissolved (D)	Anions (CI)***	EDB (8011)		
1 R3-B13-78	9.19.23	1435	S	4	X	X	X	X	X	X	X	X	X	X	X	X		
2 R3-B7-78		1445		4	X	X												R3-B7-79
3 R3-DUT-02		1200		4	X	X	X											
4																		
5																		
6																		
7																		
8																		
9																		
10																		

Update per RT
11/20/2023 LR

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water
 **Metals (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Tl Ti V Zn
 ***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide Iodide Phosphate Fluoride Nitrate-Nitrite
 I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished (Signature): Print Name: NATALIA SALOMON Date/Time: 09.19.2023 1526
 Received (Signature): Print Name: NATALIA SALOMON Date/Time: 9/19/23 1526

Turn-around Time:
 Standard Next Day
 3 Day Same Day
 2 Day (specify)



Fremont
Analytical

An Alliance Technical Group Company

3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

GeoEngineers

Robert Trahan
2101 4th Ave, Suite 950
Seattle, WA 98121

RE: 701 South Jackson
Work Order Number: 2309261

September 27, 2023

Attention Robert Trahan:

Fremont Analytical, Inc. received 1 sample(s) on 9/20/2023 for the analyses presented in the following report.

Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.
Gasoline by NWTPH-Gx
Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)
Sample Moisture (Percent Moisture)
Volatile Organic Compounds by EPA Method 8260D

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager

DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.3 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910

Revision v2

www.fremontanalytical.com



Date: 11/21/2023

CLIENT: GeoEngineers
Project: 701 South Jackson
Work Order: 2309261

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2309261-001	R3-B3-79	09/20/2023 2:00 PM	09/20/2023 2:35 PM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: GeoEngineers
Project: 701 South Jackson

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Rev 1: Additional analysis requested by the client.

Rev 2: Sample ID modification per client request.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Analytical Report

Work Order: 2309261
Date Reported: 9/27/2023

Client: GeoEngineers
Project: 701 South Jackson
Lab ID: 2309261-001
Client Sample ID: R3-B3-79

Collection Date: 9/20/2023 2:00:00 PM
Matrix: Soil

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<u>Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.</u>					Batch ID: 41589	Analyst: SK
Diesel Range Organics	ND	56.3		mg/Kg-dry	1	9/26/2023 9:45:00 PM
Heavy Oil	ND	113		mg/Kg-dry	1	9/26/2023 9:45:00 PM
Total Petroleum Hydrocarbons	ND	169		mg/Kg-dry	1	9/26/2023 9:45:00 PM
Surr: 2-Fluorobiphenyl	96.4	50 - 150		%Rec	1	9/26/2023 9:45:00 PM
Surr: o-Terphenyl	95.7	50 - 150		%Rec	1	9/26/2023 9:45:00 PM
<u>Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)</u>					Batch ID: 41588	Analyst: RG
Naphthalene	ND	0.0214		mg/Kg-dry	1	9/27/2023 12:48:07 AM
2-Methylnaphthalene	ND	0.0214		mg/Kg-dry	1	9/27/2023 12:48:07 AM
1-Methylnaphthalene	ND	0.0214		mg/Kg-dry	1	9/27/2023 12:48:07 AM
Surr: 2-Fluorobiphenyl	93.0	22.2 - 146		%Rec	1	9/27/2023 12:48:07 AM
Surr: Terphenyl-d14 (surr)	96.4	20.2 - 159		%Rec	1	9/27/2023 12:48:07 AM
<u>Gasoline by NWTPH-Gx</u>					Batch ID: 41565	Analyst: CC
Gasoline Range Organics	ND	5.09		mg/Kg-dry	1	9/25/2023 11:57:55 AM
Surr: Toluene-d8	94.9	65 - 135		%Rec	1	9/25/2023 11:57:55 AM
Surr: 4-Bromofluorobenzene	99.7	65 - 135		%Rec	1	9/25/2023 11:57:55 AM
<u>Volatile Organic Compounds by EPA Method 8260D</u>					Batch ID: 41565	Analyst: CC
Benzene	ND	0.0178		mg/Kg-dry	1	9/25/2023 11:57:55 AM
Toluene	ND	0.0305		mg/Kg-dry	1	9/25/2023 11:57:55 AM
Ethylbenzene	ND	0.0254		mg/Kg-dry	1	9/25/2023 11:57:55 AM
m,p-Xylene	ND	0.0509		mg/Kg-dry	1	9/25/2023 11:57:55 AM
o-Xylene	ND	0.0254		mg/Kg-dry	1	9/25/2023 11:57:55 AM
Surr: Dibromofluoromethane	104	74.2 - 129		%Rec	1	9/25/2023 11:57:55 AM
Surr: Toluene-d8	111	72 - 135		%Rec	1	9/25/2023 11:57:55 AM
Surr: 1-Bromo-4-fluorobenzene	99.1	51 - 150		%Rec	1	9/25/2023 11:57:55 AM
<u>Sample Moisture (Percent Moisture)</u>					Batch ID: R86689	Analyst: BS
Percent Moisture	19.2	0.500		wt%	1	9/25/2023 10:00:00 AM

Work Order: 2309261
CLIENT: GeoEngineers
Project: 701 South Jackson

QC SUMMARY REPORT

Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Sample ID: HO ICV	SampType: ICV	Units: mg/Kg			Prep Date: 7/27/2023	RunNo: 85547					
Client ID: ICV	Batch ID: 41589				Analysis Date: 7/27/2023	SeqNo: 1784893					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Heavy Oil	515	100	500.0	0	103	70	130
Surr: 2-Fluorobiphenyl	10.5		10.00		105	50	150
Surr: o-Terphenyl	10.8		10.00		108	50	150

Sample ID: HO ICB	SampType: ICB	Units: mg/Kg			Prep Date: 7/27/2023	RunNo: 85547					
Client ID: ICB	Batch ID: 41589				Analysis Date: 7/27/2023	SeqNo: 1784901					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Heavy Oil	ND	100					
Surr: 2-Fluorobiphenyl	9.91		10.00		99.1	50	150
Surr: o-Terphenyl	9.84		10.00		98.4	50	150

Sample ID: DX ICB	SampType: ICB	Units: mg/Kg			Prep Date: 7/27/2023	RunNo: 85547					
Client ID: ICB	Batch ID: 41589				Analysis Date: 7/27/2023	SeqNo: 1784903					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel Range Organics	ND	50.0					
Surr: 2-Fluorobiphenyl	10.0		10.00		100	50	150
Surr: o-Terphenyl	10.0		10.00		100	50	150

Sample ID: DX ICV	SampType: ICV	Units: mg/Kg			Prep Date: 7/27/2023	RunNo: 85547					
Client ID: ICV	Batch ID: 41589				Analysis Date: 7/27/2023	SeqNo: 1784904					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel Range Organics	479	50.0	500.0	0	95.8	70	130
Surr: 2-Fluorobiphenyl	10.5		10.00		105	50	150
Surr: o-Terphenyl	11.0		10.00		110	50	150

Work Order: 2309261
CLIENT: GeoEngineers
Project: 701 South Jackson

QC SUMMARY REPORT

Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Sample ID: OIL-CCV-41589A		SampType: CCV		Units: mg/Kg		Prep Date: 9/26/2023		RunNo: 86764			
Client ID: CCV		Batch ID: 41589				Analysis Date: 9/26/2023		SeqNo: 1810269			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Heavy Oil	504	100	500.0	0	101	85	115				
Surr: 2-Fluorobiphenyl	9.22		10.00		92.2	50	150				
Surr: o-Terphenyl	9.56		10.00		95.6	50	150				

Sample ID: DX-CCV-41589A		SampType: CCV		Units: mg/Kg		Prep Date: 9/26/2023		RunNo: 86764			
Client ID: CCV		Batch ID: 41589				Analysis Date: 9/26/2023		SeqNo: 1810270			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics	470	50.0	500.0	0	94.0	85	115				
Surr: 2-Fluorobiphenyl	9.46		10.00		94.6	50	150				
Surr: o-Terphenyl	11.4		10.00		114	50	150				

Sample ID: MB-41589		SampType: MBLK		Units: mg/Kg		Prep Date: 9/26/2023		RunNo: 86764			
Client ID: MBLKS		Batch ID: 41589				Analysis Date: 9/26/2023		SeqNo: 1810271			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics	ND	50.0									
Heavy Oil	ND	100									
Total Petroleum Hydrocarbons	ND	150									
Surr: 2-Fluorobiphenyl	10.2		10.00		102	50	150				
Surr: o-Terphenyl	9.99		10.00		99.9	50	150				

Sample ID: LCS-41589		SampType: LCS		Units: mg/Kg		Prep Date: 9/26/2023		RunNo: 86764			
Client ID: LCSS		Batch ID: 41589				Analysis Date: 9/26/2023		SeqNo: 1810272			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Petroleum Hydrocarbons	555	150	500.0	0	111	78.5	123				
Surr: 2-Fluorobiphenyl	10.7		10.00		107	50	150				
Surr: o-Terphenyl	12.9		10.00		129	50	150				

Work Order: 2309261
CLIENT: GeoEngineers
Project: 701 South Jackson

QC SUMMARY REPORT

Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Sample ID: 2309234-061ADUP		SampType: DUP		Units: mg/Kg-dry		Prep Date: 9/26/2023		RunNo: 86764			
Client ID: BATCH		Batch ID: 41589				Analysis Date: 9/26/2023		SeqNo: 1810274			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics	ND	51.5						0		30	
Heavy Oil	ND	103						0		30	
Total Petroleum Hydrocarbons	ND	154						0		30	
Surr: 2-Fluorobiphenyl	9.92		10.30		96.3	50	150		0		
Surr: o-Terphenyl	9.67		10.30		93.9	50	150		0		

Sample ID: OIL-CCV-41589B		SampType: CCV		Units: mg/Kg		Prep Date: 9/26/2023		RunNo: 86764			
Client ID: CCV		Batch ID: 41589				Analysis Date: 9/26/2023		SeqNo: 1810281			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Heavy Oil	505	100	500.0	0	101	85	115				
Surr: 2-Fluorobiphenyl	9.30		10.00		93.0	50	150				
Surr: o-Terphenyl	9.77		10.00		97.7	50	150				

Sample ID: DX-CCV-41589B		SampType: CCV		Units: mg/Kg		Prep Date: 9/26/2023		RunNo: 86764			
Client ID: CCV		Batch ID: 41589				Analysis Date: 9/26/2023		SeqNo: 1810282			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics	481	50.0	500.0	0	96.2	85	115				
Surr: 2-Fluorobiphenyl	9.73		10.00		97.3	50	150				
Surr: o-Terphenyl	11.4		10.00		114	50	150				

Sample ID: 2309391-003AMS		SampType: MS		Units: mg/Kg-dry		Prep Date: 9/26/2023		RunNo: 86764			
Client ID: BATCH		Batch ID: 41589				Analysis Date: 9/27/2023		SeqNo: 1810287			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Petroleum Hydrocarbons	722	159	529.0	348.0	70.7	47.9	143				
Surr: 2-Fluorobiphenyl	11.1		10.58		105	50	150				
Surr: o-Terphenyl	14.1		10.58		134	50	150				

Work Order: 2309261
CLIENT: GeoEngineers
Project: 701 South Jackson

QC SUMMARY REPORT

Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Sample ID: 2309391-003AMSD	SampType: MSD	Units: mg/Kg-dry				Prep Date: 9/26/2023	RunNo: 86764				
Client ID: BATCH	Batch ID: 41589					Analysis Date: 9/27/2023	SeqNo: 1810288				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Total Petroleum Hydrocarbons	715	160	533.6	348.0	68.7	47.9	143	721.8	0.976	30	
Surr: 2-Fluorobiphenyl	11.4		10.67		107	50	150		0		
Surr: o-Terphenyl	14.2		10.67		133	50	150		0		

Sample ID: OIL-CCV-41589C	SampType: CCV	Units: mg/Kg				Prep Date: 9/27/2023	RunNo: 86764				
Client ID: CCV	Batch ID: 41589					Analysis Date: 9/27/2023	SeqNo: 1810289				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Heavy Oil	530	100	500.0	0	106	85	115				
Surr: 2-Fluorobiphenyl	9.43		10.00		94.3	50	150				
Surr: o-Terphenyl	9.78		10.00		97.8	50	150				

Sample ID: DX-CCV-41589C	SampType: CCV	Units: mg/Kg				Prep Date: 9/27/2023	RunNo: 86764				
Client ID: CCV	Batch ID: 41589					Analysis Date: 9/27/2023	SeqNo: 1810290				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel Range Organics	481	50.0	500.0	0	96.3	85	115				
Surr: 2-Fluorobiphenyl	9.84		10.00		98.4	50	150				
Surr: o-Terphenyl	11.3		10.00		113	50	150				

Work Order: 2309261
CLIENT: GeoEngineers
Project: 701 South Jackson

QC SUMMARY REPORT

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Sample ID: PAH ICB	SampType: ICB	Units: µg/L			Prep Date: 9/14/2023	RunNo: 86537					
Client ID: ICB	Batch ID: 41588				Analysis Date: 9/14/2023	SeqNo: 1805643					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	ND	20.0									
2-Methylnaphthalene	ND	20.0									
1-Methylnaphthalene	ND	20.0									
Surr: 2,4,6-Tribromophenol	636		1,000		63.6	14	136				
Surr: 2-Fluorobiphenyl	377		500.0		75.3	50.4	142				
Surr: Terphenyl-d14 (surr)	398		500.0		79.6	48.8	157				

Sample ID: PAH ICV	SampType: ICV	Units: µg/L			Prep Date: 9/14/2023	RunNo: 86537					
Client ID: ICV	Batch ID: 41588				Analysis Date: 9/14/2023	SeqNo: 1805644					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	1,030	20.0	1,000	0	103	70	130				
2-Methylnaphthalene	1,020	20.0	1,000	0	102	70	130				
1-Methylnaphthalene	1,030	20.0	1,000	0	103	70	130				
Surr: 2,4,6-Tribromophenol	867		1,000		86.7	67.8	127				
Surr: 2-Fluorobiphenyl	567		500.0		113	60.9	160				
Surr: Terphenyl-d14 (surr)	570		500.0		114	62.2	159				

Sample ID: CCV-41588A	SampType: CCV	Units: µg/L			Prep Date: 9/26/2023	RunNo: 86776					
Client ID: CCV	Batch ID: 41588				Analysis Date: 9/26/2023	SeqNo: 1810655					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	947	0.0200	1,000	0	94.7	80	120				
2-Methylnaphthalene	970	0.0200	1,000	0	97.0	80	120				
1-Methylnaphthalene	968	0.0200	1,000	0	96.8	80	120				
Surr: 2,4,6-Tribromophenol	921		1,000		92.1	14	136				
Surr: 2-Fluorobiphenyl	481		500.0		96.2	69.5	150				
Surr: Terphenyl-d14 (surr)	450		500.0		90.0	71.6	145				

Work Order: 2309261
CLIENT: GeoEngineers
Project: 701 South Jackson

QC SUMMARY REPORT

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Sample ID: MB-41588	SampType: MBLK	Units: mg/Kg			Prep Date: 9/26/2023	RunNo: 86776					
Client ID: MBLKS	Batch ID: 41588				Analysis Date: 9/26/2023	SeqNo: 1810656					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	ND	0.0200									
2-Methylnaphthalene	ND	0.0200									
1-Methylnaphthalene	ND	0.0200									
Surr: 2-Fluorobiphenyl	0.868		1.000		86.8	22.2	146				
Surr: Terphenyl-d14 (surr)	0.884		1.000		88.4	20.2	159				

Sample ID: LCS-41588	SampType: LCS	Units: mg/Kg			Prep Date: 9/26/2023	RunNo: 86776					
Client ID: LCSS	Batch ID: 41588				Analysis Date: 9/26/2023	SeqNo: 1810657					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	1.69	0.0200	2.000	0	84.6	63.8	120				
2-Methylnaphthalene	1.75	0.0200	2.000	0	87.4	57	118				
1-Methylnaphthalene	1.73	0.0200	2.000	0	86.5	56.6	119				
Surr: 2-Fluorobiphenyl	0.989		1.000		98.9	22.2	146				
Surr: Terphenyl-d14 (surr)	0.942		1.000		94.2	20.2	159				

Sample ID: 2309234-061AMS	SampType: MS	Units: mg/Kg-dry			Prep Date: 9/26/2023	RunNo: 86776					
Client ID: BATCH	Batch ID: 41588				Analysis Date: 9/26/2023	SeqNo: 1810659					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	1.88	0.0200	1.997	0	94.3	44.9	136				
2-Methylnaphthalene	1.93	0.0200	1.997	0	96.5	39.2	132				
1-Methylnaphthalene	1.91	0.0200	1.997	0	95.8	40.9	133				
Surr: 2-Fluorobiphenyl	1.01		0.9983		101	22.2	146				
Surr: Terphenyl-d14 (surr)	0.950		0.9983		95.2	20.2	159				

Work Order: 2309261
CLIENT: GeoEngineers
Project: 701 South Jackson

QC SUMMARY REPORT

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Sample ID: 2309234-061AMSD	SampType: MSD	Units: mg/Kg-dry			Prep Date: 9/26/2023	RunNo: 86776					
Client ID: BATCH	Batch ID: 41588				Analysis Date: 9/26/2023	SeqNo: 1810660					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	1.86	0.0201	2.010	0	92.6	44.9	136	1.882	1.12	30	
2-Methylnaphthalene	1.91	0.0201	2.010	0	95.0	39.2	132	1.926	0.876	30	
1-Methylnaphthalene	1.89	0.0201	2.010	0	94.3	40.9	133	1.912	0.907	30	
Surr: 2-Fluorobiphenyl	0.986		1.005		98.2	22.2	146		0		
Surr: Terphenyl-d14 (surr)	0.936		1.005		93.1	20.2	159		0		

Sample ID: CCV-41588B	SampType: CCV	Units: µg/L			Prep Date: 9/27/2023	RunNo: 86776					
Client ID: CCV	Batch ID: 41588				Analysis Date: 9/27/2023	SeqNo: 1810671					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	937	0.0200	1,000	0	93.7	80	120				
2-Methylnaphthalene	971	0.0200	1,000	0	97.1	80	120				
1-Methylnaphthalene	956	0.0200	1,000	0	95.6	80	120				
Surr: 2,4,6-Tribromophenol	945		1,000		94.5	14	136				
Surr: 2-Fluorobiphenyl	484		500.0		96.8	69.5	150				
Surr: Terphenyl-d14 (surr)	443		500.0		88.6	71.6	145				

Work Order: 2309261
CLIENT: GeoEngineers
Project: 701 South Jackson

QC SUMMARY REPORT
Gasoline by NWTPH-Gx

Sample ID: GX ICB		SampType: ICB		Units: µg/L		Prep Date: 9/20/2023		RunNo: 86636			
Client ID: ICB		Batch ID: 41565				Analysis Date: 9/20/2023		SeqNo: 1807574			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	ND	50.0									
Surr: Toluene-d8	25.0		25.00		99.9	65	135				
Surr: 4-Bromofluorobenzene	24.5		25.00		98.2	65	135				

Sample ID: GX ICV		SampType: ICV		Units: µg/L		Prep Date: 9/20/2023		RunNo: 86636			
Client ID: ICV		Batch ID: 41565				Analysis Date: 9/20/2023		SeqNo: 1807575			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	488	50.0	500.0	0	97.5	80	120				
Surr: Toluene-d8	25.3		25.00		101	65	135				
Surr: 4-Bromofluorobenzene	25.2		25.00		101	65	135				

Sample ID: CCV-41565A		SampType: CCV		Units: mg/Kg		Prep Date: 9/25/2023		RunNo: 86721			
Client ID: CCV		Batch ID: 41565				Analysis Date: 9/25/2023		SeqNo: 1809416			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	473	5.00	500.0	0	94.7	80	120				
Surr: Toluene-d8	23.6		25.00		94.4	65	135				
Surr: 4-Bromofluorobenzene	25.4		25.00		102	65	135				

Sample ID: LCS-41565		SampType: LCS		Units: mg/Kg		Prep Date: 9/25/2023		RunNo: 86721			
Client ID: LCSS		Batch ID: 41565				Analysis Date: 9/25/2023		SeqNo: 1809419			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	23.7	5.00	25.00	0	94.7	65	135				
Surr: Toluene-d8	1.18		1.250		94.4	65	135				
Surr: 4-Bromofluorobenzene	1.27		1.250		102	65	135				

Work Order: 2309261
CLIENT: GeoEngineers
Project: 701 South Jackson

QC SUMMARY REPORT

Gasoline by NWTPH-Gx

Sample ID: MB-41565	SampType: MBLK	Units: mg/Kg	Prep Date: 9/25/2023	RunNo: 86721							
Client ID: MBLKS	Batch ID: 41565		Analysis Date: 9/25/2023	SeqNo: 1809418							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline Range Organics	ND	5.00									
Surr: Toluene-d8	1.20		1.250		96.4	65	135				
Surr: 4-Bromofluorobenzene	1.22		1.250		97.6	65	135				

Sample ID: 2309261-001BDUP	SampType: DUP	Units: mg/Kg-dry	Prep Date: 9/25/2023	RunNo: 86721							
Client ID: R3-B3-79	Batch ID: 41565		Analysis Date: 9/25/2023	SeqNo: 1809410							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline Range Organics	ND	5.09						0		30	
Surr: Toluene-d8	1.22		1.272		95.6	65	135		0		
Surr: 4-Bromofluorobenzene	1.26		1.272		98.7	65	135		0		

Sample ID: 2309343-002BMS	SampType: MS	Units: mg/Kg-dry	Prep Date: 9/25/2023	RunNo: 86721							
Client ID: BATCH	Batch ID: 41565		Analysis Date: 9/25/2023	SeqNo: 1809413							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline Range Organics	32.2	4.90	28.49	0	113	65	135				
Surr: Toluene-d8	1.18		1.225		96.7	65	135				
Surr: 4-Bromofluorobenzene	1.24		1.225		101	65	135				

Sample ID: CCV-41565B	SampType: CCV	Units: mg/Kg	Prep Date: 9/25/2023	RunNo: 86721							
Client ID: CCV	Batch ID: 41565		Analysis Date: 9/25/2023	SeqNo: 1809417							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline Range Organics	452	5.00	500.0	0	90.4	80	120				
Surr: Toluene-d8	24.0		25.00		96.2	65	135				
Surr: 4-Bromofluorobenzene	25.3		25.00		101	65	135				

Work Order: 2309261
CLIENT: GeoEngineers
Project: 701 South Jackson

QC SUMMARY REPORT

Gasoline by NWTPH-Gx

Sample ID: CCV-41565C	SampType: CCV	Units: mg/Kg	Prep Date: 9/26/2023	RunNo: 86721							
Client ID: CCV	Batch ID: 41565	Analysis Date: 9/26/2023	SeqNo: 1809440								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline Range Organics	428	5.00	500.0	0	85.7	80	120				
Surr: Toluene-d8	23.5		25.00		93.8	65	135				
Surr: 4-Bromofluorobenzene	25.3		25.00		101	65	135				

Work Order: 2309261
CLIENT: GeoEngineers
Project: 701 South Jackson

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260D

Sample ID: VOC W ICB		SampType: ICB		Units: µg/L		Prep Date: 9/19/2023		RunNo: 86634			
Client ID: ICB		Batch ID: 41565				Analysis Date: 9/19/2023		SeqNo: 1807720			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.440									
Toluene	ND	1.00									
Ethylbenzene	ND	0.400									
m,p-Xylene	ND	1.00									
o-Xylene	ND	0.500									
Surr: Dibromofluoromethane	24.4		25.00		97.6	80	120				
Surr: Toluene-d8	25.1		25.00		100	80	120				
Surr: 1-Bromo-4-fluorobenzene	24.5		25.00		98.0	80	120				

Sample ID: VOC W ICV		SampType: ICV		Units: µg/L		Prep Date: 9/19/2023		RunNo: 86634			
Client ID: ICV		Batch ID: 41565				Analysis Date: 9/19/2023		SeqNo: 1807721			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	19.6	0.440	20.00	0	98.0	70	130				
Toluene	19.7	1.00	20.00	0	98.6	70	130				
Ethylbenzene	20.0	0.400	20.00	0	99.9	70	130				
m,p-Xylene	39.8	1.00	40.00	0	99.4	70	130				
o-Xylene	20.2	0.500	20.00	0	101	70	130				
Surr: Dibromofluoromethane	25.6		25.00		102	70	130				
Surr: Toluene-d8	24.8		25.00		99.3	70	130				
Surr: 1-Bromo-4-fluorobenzene	24.9		25.00		99.5	70	130				

Sample ID: CCV-41565A		SampType: CCV		Units: µg/L		Prep Date: 9/25/2023		RunNo: 86720			
Client ID: CCV		Batch ID: 41565				Analysis Date: 9/25/2023		SeqNo: 1809321			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	21.8	0.0175	20.00	0	109	80	120				
Toluene	21.6	0.0300	20.00	0	108	80	120				
Ethylbenzene	18.6	0.0250	20.00	0	93.0	80	120				
m,p-Xylene	36.9	0.0500	40.00	0	92.2	80	120				
o-Xylene	18.2	0.0250	20.00	0	90.9	80	120				

Work Order: 2309261
CLIENT: GeoEngineers
Project: 701 South Jackson

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: CCV-41565A		SampType: CCV		Units: µg/L		Prep Date: 9/25/2023		RunNo: 86720			
Client ID: CCV		Batch ID: 41565				Analysis Date: 9/25/2023		SeqNo: 1809321			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	27.9		25.00		112	80	120				
Surr: Toluene-d8	27.3		25.00		109	80	120				
Surr: 1-Bromo-4-fluorobenzene	24.9		25.00		99.8	80	120				

Sample ID: LCS-41565		SampType: LCS		Units: µg/L		Prep Date: 9/25/2023		RunNo: 86720			
Client ID: LCSS		Batch ID: 41565				Analysis Date: 9/25/2023		SeqNo: 1809360			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	1.09	0.0175	1.000	0	109	80	120				
Toluene	1.08	0.0300	1.000	0	108	80	120				
Ethylbenzene	0.930	0.0250	1.000	0	93.0	80	120				
m,p-Xylene	1.84	0.0500	2.000	0	92.2	80	120				
o-Xylene	0.909	0.0250	1.000	0	90.9	80	120				
Surr: Dibromofluoromethane	1.39		1.250		112	74.2	129				
Surr: Toluene-d8	1.36		1.250		109	72	135				
Surr: 1-Bromo-4-fluorobenzene	1.25		1.250		99.8	51	150				

Sample ID: MB-41565		SampType: MBLK		Units: mg/Kg		Prep Date: 9/25/2023		RunNo: 86720			
Client ID: MBLKS		Batch ID: 41565				Analysis Date: 9/25/2023		SeqNo: 1809359			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.0175									
Toluene	ND	0.0300									
Ethylbenzene	ND	0.0250									
m,p-Xylene	ND	0.0500									
o-Xylene	ND	0.0250									
Surr: Dibromofluoromethane	1.32		1.250		106	79.5	124				
Surr: Toluene-d8	1.38		1.250		110	77.5	124				
Surr: 1-Bromo-4-fluorobenzene	1.21		1.250		97.0	60.5	139				

Work Order: 2309261
CLIENT: GeoEngineers
Project: 701 South Jackson

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260D

Sample ID: 2309261-001BDUP	SampType: DUP	Units: mg/Kg-dry			Prep Date: 9/25/2023	RunNo: 86720					
Client ID: R3-B3-79	Batch ID: 41565				Analysis Date: 9/25/2023	SeqNo: 1809353					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.0178						0		30	
Toluene	ND	0.0305						0		30	
Ethylbenzene	ND	0.0254						0		30	
m,p-Xylene	ND	0.0509						0		30	
o-Xylene	ND	0.0254						0		30	
Surr: Dibromofluoromethane	1.31		1.272		103	74.2	129		0		
Surr: Toluene-d8	1.39		1.272		109	72	135		0		
Surr: 1-Bromo-4-fluorobenzene	1.25		1.272		98.1	51	150		0		

Sample ID: 2309343-001BMS	SampType: MS	Units: mg/Kg-dry			Prep Date: 9/25/2023	RunNo: 86720					
Client ID: BATCH	Batch ID: 41565				Analysis Date: 9/25/2023	SeqNo: 1809355					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	1.26	0.0177	1.011	0	124	52.3	147				
Toluene	1.21	0.0303	1.011	0	120	50.1	147				
Ethylbenzene	1.07	0.0253	1.011	0	106	51.7	143				
m,p-Xylene	2.13	0.0506	2.022	0	105	54.5	144				
o-Xylene	1.08	0.0253	1.011	0	107	57.1	141				
Surr: Dibromofluoromethane	1.40		1.264		111	74.2	129				
Surr: Toluene-d8	1.39		1.264		110	72	135				
Surr: 1-Bromo-4-fluorobenzene	1.26		1.264		99.6	51	150				

Client Name: GEI	Work Order Number: 2309261
Logged by: Brianna Barnes	Date Received: 9/20/2023 2:35:00 PM

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
2. How was the sample delivered? Client

Log In

3. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes No Not Present
4. Was an attempt made to cool the samples? Yes No NA
5. Were all items received at a temperature of >2°C to 6°C * Yes No NA
6. Sample(s) in proper container(s)? Yes No
7. Sufficient sample volume for indicated test(s)? Yes No
8. Are samples properly preserved? Yes No
9. Was preservative added to bottles? Yes No NA
- MeOH VOA extracted in lab
10. Is there headspace in the VOA vials? Yes No NA
11. Did all samples containers arrive in good condition(unbroken)? Yes No
12. Does paperwork match bottle labels? Yes No
13. Are matrices correctly identified on Chain of Custody? Yes No
14. Is it clear what analyses were requested? Yes No
15. Were all hold times (except field parameters, pH e.g.) able to be met? Yes No

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

17. Additional remarks:

Item Information

Item #	Temp °C
Sample	6.0

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C



3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790

Chain of Custody Record & Laboratory Services Agreement

Date: **9.20.23** Page: **1** of **1**

Project Name: **701 South Jackson**

Project No: **24504-001-63**

Collected by: **NASTON SOLOMON**

Location: **SEATTLE WA**

Report To (PM): **ROBERT TRAYN**

Laboratory Project No (Internal): **2309261**

Special Remarks:

*** HOLD ADDITIONAL
FALSCHUS-00**

Disposal: Samples will be disposed in 30 days unless otherwise requested.
 Retain volume (Specify above) Return to client

Client: **GEOSYNNESES**

Address:

City, State, Zip:

Telephone:

Email(s): **RTRAYN@GEOSYNNESES.COM**

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	# of Cont.	Analytes										Comments								
					VOCS (EPA 8260 / 624)	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (HX)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8270 - SIM)	Metals** (EPA 6020 / 200.8)	Total (T) Dissolved (D)		Anions (IC)**	EDB (8011)						
R3-B9-78	9.20.23	1400	S	4	X	X																	

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water

**Metals (Circle): MTCA-5 RCR-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Tl Tl V Zn

***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate-Nitrite

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Turn-around Time:
 Standard Next Day
 3 Day Same Day
 2 Day (Specify)

Relinquished (Signature) **[Signature]** Print Name **NASTON SOLOMON** Date/Time **9.20.23 1434**

Relinquished (Signature) **[Signature]** Print Name **BRITTON STONE** Date/Time **9/20/23 2:35pm**



3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790

Chain of Custody Record & Laboratory Services Agreement

Date: 9.20.23 Page: 1 of 1
 Project Name: 701 South Jackson
 Project No: 24504-001-63
 Collected by: NASTON SOLOMON
 Location: SEATTLE WA
 Report To (PM): ROBERT TRAYN
 Laboratory Project No (Internal): 2309261
 Special Remarks: *HOLD ADDITIONAL FINDINGS - SD
 take off hold per RT -mw 9/22/23
 Disposal: Retain volume (specify above) Return to client
 Samples will be disposed in 30 days unless otherwise requested.

Client: GEOSKANSSES
 Address:
 City, State, Zip:
 Telephone:
 Email(s): RTTRAYN@GEOSKANSSES.COM

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	# of Cont.	Analytes											Comments				
					VOCs (EPA 8260 / 624)	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (DX)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8270 - SIM)	Metals** (EPA 6020 / 200.8)	Total (T) Dissolved (D)	Anions (IC)**		EDB (8011)			
1 R3-B9-78	9.20.23	1400	S	4	X	X														
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water
 **Metals (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Tl Ti V Zn
 ***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate-Nitrite
 I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished (Signature) [Signature] Print Name: NASTON SOLOMON Date/Time: 9.20.23 1434
 Relinquished (Signature) [Signature] Print Name: BRIDGESTONE Date/Time: 9/20/23 2:35pm
 Turn-around Time: 3 Day Standard Next Day Same Day (Specify)
 2 Day



Fremont
Analytical

3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790

Chain of Custody Record & Laboratory Services Agreement

Client: GEORGIN NESES
Address:
City, State, Zip:
Telephone:
Email(s): *RTRATTAN@GEORGINNESSES.COM*

Date: 9.20.23 **Page:** 1 of 1
Project Name: 701 South Jackson
Project No.: 24504-001-63
Collected by: NASTHAN SOVOMAN
Location: SEATTLE WA
Report To (PM): ROBART TRATTAN

Laboratory Project No (Internal): 2309261
Special Remarks:
* HOLD ADDITIONAL
FALLCANS -00
take off hold per RT
-nmw 9/22/23
Disposal: Retain volume (specify above) Return to client

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	# of Cont.	Analytes															Comments		
					VOCs (EPA 8260 / 624)	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HICID)	Diesel/Heavy Oil Range Organics (DOR)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 -SIM)	PCBs (EPA 8270 -SIM)	Metals** (EPA 6020 / 200.8)	Total (T) Dissolved (D)	Anions (IC)**	EDB (8011)	Other	Other	Other			
R3-B9-7B	9.20.23	1400	S	4	X	X		X	X													X = run for DX & Naphthalenes on a next day TAT per RT 9/26/23 -CG

Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water
Metals (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Tl Tl V Zn
Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate-Nitrite

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished (Signature): *Nasthan Sovoman* **Print Name:** Nasthan Sovoman **Date/Time:** 9.20.23 1434
Relinquished (Signature): *Brittan Stone* **Print Name:** Brittan Stone **Date/Time:** 9/20/23 2:35pm



3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790

Chain of Custody Record & Laboratory Services Agreement

Date: **9.20.23** Page: **1** of **1**

Project Name: **701 South Jackson**

Project No: **24504-001-63**

Collected by: **NATHAN SOLOMON**

Location: **SEATTLE WA**

Report To (PM): **ROBERT TRAYN**

Laboratory Project No (Internal): **2309261**

Special Remarks:
* HOLD ADDITIONAL
FALSCHS -UP
take off hold per RT
-nmw 9/22/23
update per RT
11/20/2023 LR

Disposal: Samples will be disposed in 30 days unless otherwise requested.
 Retain volume (specify above) Return to client

Client: **GEOSYNNESES**

Address:

City, State, Zip:

Telephone:

Email(s): **RTRAYN@GEOSYNNESES.COM**

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	# of Cont.	Analytes											Comments			
					VOCs (EPA 8260 / 624)	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (DX)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 -SIM)	PCBs (EPA 8270 -SIM)	Metals** (EPA 6020 / 200.8)	Total (T) Dissolved (D)	Anions (IC)**		EDB (8011)		
R3-B3-70 R3-B3-79	9.20.23	1400	S	4	X	X		X	X										X = run for DX & Naphthalenes on a next day TAT per RT 9/26/23 -CG

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water

**Metals (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Tl Tl V Zn

***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate-Nitrite

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished (Signature) *[Signature]* Print Name **Nathan Solomon** Date/Time **9.20.23 1434**

Relinquished (Signature) *[Signature]* Print Name **Robert Trayn** Date/Time **9/20/23 2:35pm**

Turn-around Time:
 3 Day
 Standard
 Next Day
 Same Day
 2 Day
 (Specify)



3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

GeoEngineers

Robert Trahan
2101 4th Ave, Suite 950
Seattle, WA 98121

RE: 701 South Jackson
Work Order Number: 2309343

September 27, 2023

Attention Robert Trahan:

Fremont Analytical, Inc. received 4 sample(s) on 9/25/2023 for the analyses presented in the following report.

- Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.***
- Gasoline by NWTPH-Gx***
- Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)***
- Sample Moisture (Percent Moisture)***
- Volatile Organic Compounds by EPA Method 8260D***

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager

*DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.3 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910*

Revision v1

www.fremontanalytical.com

CLIENT: GeoEngineers
Project: 701 South Jackson
Work Order: 2309343

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2309343-001	R3-B15-83	09/25/2023 8:15 AM	09/25/2023 9:50 AM
2309343-002	R3-B7-78	09/25/2023 8:25 AM	09/25/2023 9:50 AM
2309343-003	R3-SW-1-83	09/25/2023 8:35 AM	09/25/2023 9:50 AM
2309343-004	R3-SW-2-83	09/25/2023 8:45 AM	09/25/2023 9:50 AM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: GeoEngineers
Project: 701 South Jackson

WorkOrder Narrative:

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Rev 1: Additional analyses requested by the client.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Analytical Report

Work Order: 2309343
Date Reported: 9/27/2023

Client: GeoEngineers

Collection Date: 9/25/2023 8:15:00 AM

Project: 701 South Jackson

Lab ID: 2309343-001

Matrix: Soil

Client Sample ID: R3-B15-83

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Batch ID: 41589 Analyst: SK

Diesel Range Organics	ND	58.3		mg/Kg-dry	1	9/26/2023 9:55:51 PM
Heavy Oil	ND	117		mg/Kg-dry	1	9/26/2023 9:55:51 PM
Total Petroleum Hydrocarbons	ND	175		mg/Kg-dry	1	9/26/2023 9:55:51 PM
Surr: 2-Fluorobiphenyl	98.7	50 - 150		%Rec	1	9/26/2023 9:55:51 PM
Surr: o-Terphenyl	97.6	50 - 150		%Rec	1	9/26/2023 9:55:51 PM

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Batch ID: 41588 Analyst: RG

Naphthalene	ND	0.0230		mg/Kg-dry	1	9/27/2023 2:14:44 AM
2-Methylnaphthalene	ND	0.0230		mg/Kg-dry	1	9/27/2023 2:14:44 AM
1-Methylnaphthalene	ND	0.0230		mg/Kg-dry	1	9/27/2023 2:14:44 AM
Surr: 2-Fluorobiphenyl	104	22.2 - 146		%Rec	1	9/27/2023 2:14:44 AM
Surr: Terphenyl-d14 (surr)	106	20.2 - 159		%Rec	1	9/27/2023 2:14:44 AM

Gasoline by NWTPH-Gx

Batch ID: 41565 Analyst: CC

Gasoline Range Organics	ND	5.06		mg/Kg-dry	1	9/25/2023 12:58:15 PM
Surr: Toluene-d8	95.4	65 - 135		%Rec	1	9/25/2023 12:58:15 PM
Surr: 4-Bromofluorobenzene	99.9	65 - 135		%Rec	1	9/25/2023 12:58:15 PM

Volatile Organic Compounds by EPA Method 8260D

Batch ID: 41565 Analyst: CC

Benzene	ND	0.0177		mg/Kg-dry	1	9/25/2023 12:58:15 PM
Toluene	ND	0.0303		mg/Kg-dry	1	9/25/2023 12:58:15 PM
Ethylbenzene	ND	0.0253		mg/Kg-dry	1	9/25/2023 12:58:15 PM
m,p-Xylene	ND	0.0506		mg/Kg-dry	1	9/25/2023 12:58:15 PM
o-Xylene	ND	0.0253		mg/Kg-dry	1	9/25/2023 12:58:15 PM
Surr: Dibromofluoromethane	103	74.2 - 129		%Rec	1	9/25/2023 12:58:15 PM
Surr: Toluene-d8	110	72 - 135		%Rec	1	9/25/2023 12:58:15 PM
Surr: 1-Bromo-4-fluorobenzene	99.3	51 - 150		%Rec	1	9/25/2023 12:58:15 PM

Sample Moisture (Percent Moisture)

Batch ID: R86689 Analyst: BS

Percent Moisture	20.8	0.500		wt%	1	9/25/2023 10:00:00 AM
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Analytical Report

Work Order: 2309343
Date Reported: 9/27/2023

Client: GeoEngineers
Project: 701 South Jackson
Lab ID: 2309343-002
Client Sample ID: R3-B7-78

Collection Date: 9/25/2023 8:25:00 AM
Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.</u>					Batch ID: 41589	Analyst: SK
Diesel Range Organics	ND	55.2		mg/Kg-dry	1	9/26/2023 10:06:43 PM
Heavy Oil	ND	110		mg/Kg-dry	1	9/26/2023 10:06:43 PM
Total Petroleum Hydrocarbons	ND	166		mg/Kg-dry	1	9/26/2023 10:06:43 PM
Surr: 2-Fluorobiphenyl	101	50 - 150		%Rec	1	9/26/2023 10:06:43 PM
Surr: o-Terphenyl	99.3	50 - 150		%Rec	1	9/26/2023 10:06:43 PM
<u>Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)</u>					Batch ID: 41588	Analyst: RG
Naphthalene	ND	0.0220		mg/Kg-dry	1	9/27/2023 2:43:40 AM
2-Methylnaphthalene	ND	0.0220		mg/Kg-dry	1	9/27/2023 2:43:40 AM
1-Methylnaphthalene	ND	0.0220		mg/Kg-dry	1	9/27/2023 2:43:40 AM
Surr: 2-Fluorobiphenyl	114	22.2 - 146		%Rec	1	9/27/2023 2:43:40 AM
Surr: Terphenyl-d14 (surr)	117	20.2 - 159		%Rec	1	9/27/2023 2:43:40 AM
<u>Gasoline by NWTPH-Gx</u>					Batch ID: 41565	Analyst: CC
Gasoline Range Organics	ND	4.90		mg/Kg-dry	1	9/25/2023 1:28:23 PM
Surr: Toluene-d8	95.3	65 - 135		%Rec	1	9/25/2023 1:28:23 PM
Surr: 4-Bromofluorobenzene	97.6	65 - 135		%Rec	1	9/25/2023 1:28:23 PM
<u>Volatile Organic Compounds by EPA Method 8260D</u>					Batch ID: 41565	Analyst: CC
Benzene	ND	0.0172		mg/Kg-dry	1	9/25/2023 1:28:23 PM
Toluene	ND	0.0294		mg/Kg-dry	1	9/25/2023 1:28:23 PM
Ethylbenzene	ND	0.0245		mg/Kg-dry	1	9/25/2023 1:28:23 PM
m,p-Xylene	ND	0.0490		mg/Kg-dry	1	9/25/2023 1:28:23 PM
o-Xylene	ND	0.0245		mg/Kg-dry	1	9/25/2023 1:28:23 PM
Surr: Dibromofluoromethane	104	74.2 - 129		%Rec	1	9/25/2023 1:28:23 PM
Surr: Toluene-d8	110	72 - 135		%Rec	1	9/25/2023 1:28:23 PM
Surr: 1-Bromo-4-fluorobenzene	96.9	51 - 150		%Rec	1	9/25/2023 1:28:23 PM
<u>Sample Moisture (Percent Moisture)</u>					Batch ID: R86689	Analyst: BS
Percent Moisture	14.6	0.500		wt%	1	9/25/2023 10:00:00 AM



Analytical Report

Work Order: 2309343
Date Reported: 9/27/2023

Client: GeoEngineers
Project: 701 South Jackson
Lab ID: 2309343-003
Client Sample ID: R3-SW-1-83

Collection Date: 9/25/2023 8:35:00 AM
Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.</u>			Batch ID: 41589		Analyst: SK	
Diesel Range Organics	ND	60.7		mg/Kg-dry	1	9/26/2023 10:17:40 PM
Heavy Oil	ND	121		mg/Kg-dry	1	9/26/2023 10:17:40 PM
Total Petroleum Hydrocarbons	ND	182		mg/Kg-dry	1	9/26/2023 10:17:40 PM
Surr: 2-Fluorobiphenyl	97.7	50 - 150		%Rec	1	9/26/2023 10:17:40 PM
Surr: o-Terphenyl	96.0	50 - 150		%Rec	1	9/26/2023 10:17:40 PM
<u>Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)</u>			Batch ID: 41588		Analyst: RG	
Naphthalene	ND	0.0225		mg/Kg-dry	1	9/27/2023 3:12:32 AM
2-Methylnaphthalene	ND	0.0225		mg/Kg-dry	1	9/27/2023 3:12:32 AM
1-Methylnaphthalene	ND	0.0225		mg/Kg-dry	1	9/27/2023 3:12:32 AM
Surr: 2-Fluorobiphenyl	95.4	22.2 - 146		%Rec	1	9/27/2023 3:12:32 AM
Surr: Terphenyl-d14 (surr)	97.7	20.2 - 159		%Rec	1	9/27/2023 3:12:32 AM
<u>Gasoline by NWTPH-Gx</u>			Batch ID: 41565		Analyst: CC	
Gasoline Range Organics	ND	5.92		mg/Kg-dry	1	9/25/2023 1:58:31 PM
Surr: Toluene-d8	96.6	65 - 135		%Rec	1	9/25/2023 1:58:31 PM
Surr: 4-Bromofluorobenzene	96.8	65 - 135		%Rec	1	9/25/2023 1:58:31 PM
<u>Volatile Organic Compounds by EPA Method 8260D</u>			Batch ID: 41565		Analyst: CC	
Benzene	ND	0.0207		mg/Kg-dry	1	9/25/2023 1:58:31 PM
Toluene	ND	0.0355		mg/Kg-dry	1	9/25/2023 1:58:31 PM
Ethylbenzene	ND	0.0296		mg/Kg-dry	1	9/25/2023 1:58:31 PM
m,p-Xylene	ND	0.0592		mg/Kg-dry	1	9/25/2023 1:58:31 PM
o-Xylene	ND	0.0296		mg/Kg-dry	1	9/25/2023 1:58:31 PM
Surr: Dibromofluoromethane	102	74.2 - 129		%Rec	1	9/25/2023 1:58:31 PM
Surr: Toluene-d8	110	72 - 135		%Rec	1	9/25/2023 1:58:31 PM
Surr: 1-Bromo-4-fluorobenzene	96.1	51 - 150		%Rec	1	9/25/2023 1:58:31 PM
<u>Sample Moisture (Percent Moisture)</u>			Batch ID: R86689		Analyst: BS	
Percent Moisture	22.3	0.500		wt%	1	9/25/2023 10:00:00 AM



Analytical Report

Work Order: 2309343
Date Reported: 9/27/2023

Client: GeoEngineers

Collection Date: 9/25/2023 8:45:00 AM

Project: 701 South Jackson

Lab ID: 2309343-004

Matrix: Soil

Client Sample ID: R3-SW-2-83

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Batch ID: 41589 Analyst: SK

Diesel Range Organics	ND	62.6		mg/Kg-dry	1	9/26/2023 10:28:43 PM
Heavy Oil	ND	125		mg/Kg-dry	1	9/26/2023 10:28:43 PM
Total Petroleum Hydrocarbons	ND	188		mg/Kg-dry	1	9/26/2023 10:28:43 PM
Surr: 2-Fluorobiphenyl	108	50 - 150		%Rec	1	9/26/2023 10:28:43 PM
Surr: o-Terphenyl	107	50 - 150		%Rec	1	9/26/2023 10:28:43 PM

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Batch ID: 41588 Analyst: RG

Naphthalene	ND	0.0235		mg/Kg-dry	1	9/27/2023 3:41:23 AM
2-Methylnaphthalene	ND	0.0235		mg/Kg-dry	1	9/27/2023 3:41:23 AM
1-Methylnaphthalene	ND	0.0235		mg/Kg-dry	1	9/27/2023 3:41:23 AM
Surr: 2-Fluorobiphenyl	97.3	22.2 - 146		%Rec	1	9/27/2023 3:41:23 AM
Surr: Terphenyl-d14 (surr)	97.5	20.2 - 159		%Rec	1	9/27/2023 3:41:23 AM

Gasoline by NWTPH-Gx

Batch ID: 41565 Analyst: CC

Gasoline Range Organics	ND	5.39		mg/Kg-dry	1	9/25/2023 2:28:42 PM
Surr: Toluene-d8	95.7	65 - 135		%Rec	1	9/25/2023 2:28:42 PM
Surr: 4-Bromofluorobenzene	97.5	65 - 135		%Rec	1	9/25/2023 2:28:42 PM

Volatile Organic Compounds by EPA Method 8260D

Batch ID: 41565 Analyst: CC

Benzene	ND	0.0189		mg/Kg-dry	1	9/25/2023 2:28:42 PM
Toluene	ND	0.0323		mg/Kg-dry	1	9/25/2023 2:28:42 PM
Ethylbenzene	ND	0.0270		mg/Kg-dry	1	9/25/2023 2:28:42 PM
m,p-Xylene	ND	0.0539		mg/Kg-dry	1	9/25/2023 2:28:42 PM
o-Xylene	ND	0.0270		mg/Kg-dry	1	9/25/2023 2:28:42 PM
Surr: Dibromofluoromethane	102	74.2 - 129		%Rec	1	9/25/2023 2:28:42 PM
Surr: Toluene-d8	110	72 - 135		%Rec	1	9/25/2023 2:28:42 PM
Surr: 1-Bromo-4-fluorobenzene	96.9	51 - 150		%Rec	1	9/25/2023 2:28:42 PM

Sample Moisture (Percent Moisture)

Batch ID: R86689 Analyst: BS

Percent Moisture	24.5	0.500		wt%	1	9/25/2023 10:00:00 AM
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Work Order: 2309343
CLIENT: GeoEngineers
Project: 701 South Jackson

QC SUMMARY REPORT

Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Sample ID: HO ICV		SampType: ICV		Units: mg/Kg		Prep Date: 7/27/2023		RunNo: 85547			
Client ID: ICV		Batch ID: 41589				Analysis Date: 7/27/2023		SeqNo: 1784893			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Heavy Oil	515	100	500.0	0	103	70	130				
Surr: 2-Fluorobiphenyl	10.5		10.00		105	50	150				
Surr: o-Terphenyl	10.8		10.00		108	50	150				

Sample ID: HO ICB		SampType: ICB		Units: mg/Kg		Prep Date: 7/27/2023		RunNo: 85547			
Client ID: ICB		Batch ID: 41589				Analysis Date: 7/27/2023		SeqNo: 1784901			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Heavy Oil	ND	100									
Surr: 2-Fluorobiphenyl	9.91		10.00		99.1	50	150				
Surr: o-Terphenyl	9.84		10.00		98.4	50	150				

Sample ID: DX ICB		SampType: ICB		Units: mg/Kg		Prep Date: 7/27/2023		RunNo: 85547			
Client ID: ICB		Batch ID: 41589				Analysis Date: 7/27/2023		SeqNo: 1784903			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel Range Organics	ND	50.0									
Surr: 2-Fluorobiphenyl	10.0		10.00		100	50	150				
Surr: o-Terphenyl	10.0		10.00		100	50	150				

Sample ID: DX ICV		SampType: ICV		Units: mg/Kg		Prep Date: 7/27/2023		RunNo: 85547			
Client ID: ICV		Batch ID: 41589				Analysis Date: 7/27/2023		SeqNo: 1784904			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel Range Organics	479	50.0	500.0	0	95.8	70	130				
Surr: 2-Fluorobiphenyl	10.5		10.00		105	50	150				
Surr: o-Terphenyl	11.0		10.00		110	50	150				

Work Order: 2309343
CLIENT: GeoEngineers
Project: 701 South Jackson

QC SUMMARY REPORT
Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Sample ID: OIL-CCV-41589A		SampType: CCV		Units: mg/Kg		Prep Date: 9/26/2023		RunNo: 86764			
Client ID: CCV		Batch ID: 41589				Analysis Date: 9/26/2023		SeqNo: 1810269			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Heavy Oil	504	100	500.0	0	101	85	115				
Surr: 2-Fluorobiphenyl	9.22		10.00		92.2	50	150				
Surr: o-Terphenyl	9.56		10.00		95.6	50	150				

Sample ID: DX-CCV-41589A		SampType: CCV		Units: mg/Kg		Prep Date: 9/26/2023		RunNo: 86764			
Client ID: CCV		Batch ID: 41589				Analysis Date: 9/26/2023		SeqNo: 1810270			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics	470	50.0	500.0	0	94.0	85	115				
Surr: 2-Fluorobiphenyl	9.46		10.00		94.6	50	150				
Surr: o-Terphenyl	11.4		10.00		114	50	150				

Sample ID: MB-41589		SampType: MBLK		Units: mg/Kg		Prep Date: 9/26/2023		RunNo: 86764			
Client ID: MBLKS		Batch ID: 41589				Analysis Date: 9/26/2023		SeqNo: 1810271			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics	ND	50.0									
Heavy Oil	ND	100									
Total Petroleum Hydrocarbons	ND	150									
Surr: 2-Fluorobiphenyl	10.2		10.00		102	50	150				
Surr: o-Terphenyl	9.99		10.00		99.9	50	150				

Sample ID: LCS-41589		SampType: LCS		Units: mg/Kg		Prep Date: 9/26/2023		RunNo: 86764			
Client ID: LCSS		Batch ID: 41589				Analysis Date: 9/26/2023		SeqNo: 1810272			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Petroleum Hydrocarbons	555	150	500.0	0	111	78.5	123				
Surr: 2-Fluorobiphenyl	10.7		10.00		107	50	150				
Surr: o-Terphenyl	12.9		10.00		129	50	150				

Work Order: 2309343
CLIENT: GeoEngineers
Project: 701 South Jackson

QC SUMMARY REPORT

Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Sample ID: 2309234-061ADUP		SampType: DUP		Units: mg/Kg		Prep Date: 9/26/2023		RunNo: 86764			
Client ID: BATCH		Batch ID: 41589				Analysis Date: 9/26/2023		SeqNo: 1810274			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics	ND	49.1						0		30	
Heavy Oil	ND	98.2						0		30	
Total Petroleum Hydrocarbons	ND	147						0		30	
Surr: 2-Fluorobiphenyl	9.46		9.823		96.3	50	150		0		
Surr: o-Terphenyl	9.22		9.823		93.9	50	150		0		

Sample ID: OIL-CCV-41589B		SampType: CCV		Units: mg/Kg		Prep Date: 9/26/2023		RunNo: 86764			
Client ID: CCV		Batch ID: 41589				Analysis Date: 9/26/2023		SeqNo: 1810281			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Heavy Oil	505	100	500.0	0	101	85	115				
Surr: 2-Fluorobiphenyl	9.30		10.00		93.0	50	150				
Surr: o-Terphenyl	9.77		10.00		97.7	50	150				

Sample ID: DX-CCV-41589B		SampType: CCV		Units: mg/Kg		Prep Date: 9/26/2023		RunNo: 86764			
Client ID: CCV		Batch ID: 41589				Analysis Date: 9/26/2023		SeqNo: 1810282			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics	481	50.0	500.0	0	96.2	85	115				
Surr: 2-Fluorobiphenyl	9.73		10.00		97.3	50	150				
Surr: o-Terphenyl	11.4		10.00		114	50	150				

Sample ID: 2309391-003AMS		SampType: MS		Units: mg/Kg-dry		Prep Date: 9/26/2023		RunNo: 86764			
Client ID: BATCH		Batch ID: 41589				Analysis Date: 9/27/2023		SeqNo: 1810287			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Petroleum Hydrocarbons	722	159	529.0	348.0	70.7	47.9	143				
Surr: 2-Fluorobiphenyl	11.1		10.58		105	50	150				
Surr: o-Terphenyl	14.1		10.58		134	50	150				

Work Order: 2309343
CLIENT: GeoEngineers
Project: 701 South Jackson

QC SUMMARY REPORT

Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Sample ID: 2309391-003AMSD	SampType: MSD	Units: mg/Kg-dry				Prep Date: 9/26/2023	RunNo: 86764				
Client ID: BATCH	Batch ID: 41589					Analysis Date: 9/27/2023	SeqNo: 1810288				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Total Petroleum Hydrocarbons	715	160	533.6	348.0	68.7	47.9	143	721.8	0.976	30	
Surr: 2-Fluorobiphenyl	11.4		10.67		107	50	150		0		
Surr: o-Terphenyl	14.2		10.67		133	50	150		0		

Sample ID: OIL-CCV-41589C	SampType: CCV	Units: mg/Kg				Prep Date: 9/27/2023	RunNo: 86764				
Client ID: CCV	Batch ID: 41589					Analysis Date: 9/27/2023	SeqNo: 1810289				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Heavy Oil	530	100	500.0	0	106	85	115				
Surr: 2-Fluorobiphenyl	9.43		10.00		94.3	50	150				
Surr: o-Terphenyl	9.78		10.00		97.8	50	150				

Sample ID: DX-CCV-41589C	SampType: CCV	Units: mg/Kg				Prep Date: 9/27/2023	RunNo: 86764				
Client ID: CCV	Batch ID: 41589					Analysis Date: 9/27/2023	SeqNo: 1810290				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel Range Organics	481	50.0	500.0	0	96.3	85	115				
Surr: 2-Fluorobiphenyl	9.84		10.00		98.4	50	150				
Surr: o-Terphenyl	11.3		10.00		113	50	150				

Work Order: 2309343
CLIENT: GeoEngineers
Project: 701 South Jackson

QC SUMMARY REPORT

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Sample ID: PAH ICB	SampType: ICB	Units: µg/L			Prep Date: 9/14/2023	RunNo: 86537					
Client ID: ICB	Batch ID: 41588				Analysis Date: 9/14/2023	SeqNo: 1805643					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	ND	20.0									
2-Methylnaphthalene	ND	20.0									
1-Methylnaphthalene	ND	20.0									
Surr: 2-Fluorobiphenyl	377		500.0		75.3	50.4	142				
Surr: Terphenyl-d14 (surr)	398		500.0		79.6	48.8	157				

Sample ID: PAH ICV	SampType: ICV	Units: µg/L			Prep Date: 9/14/2023	RunNo: 86537					
Client ID: ICV	Batch ID: 41588				Analysis Date: 9/14/2023	SeqNo: 1805644					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	1,030	20.0	1,000	0	103	70	130				
2-Methylnaphthalene	1,020	20.0	1,000	0	102	70	130				
1-Methylnaphthalene	1,030	20.0	1,000	0	103	70	130				
Surr: 2-Fluorobiphenyl	567		500.0		113	60.9	160				
Surr: Terphenyl-d14 (surr)	570		500.0		114	62.2	159				

Sample ID: CCV-41588A	SampType: CCV	Units: µg/L			Prep Date: 9/26/2023	RunNo: 86776					
Client ID: CCV	Batch ID: 41588				Analysis Date: 9/26/2023	SeqNo: 1810655					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	947	0.0200	1,000	0	94.7	80	120				
2-Methylnaphthalene	970	0.0200	1,000	0	97.0	80	120				
1-Methylnaphthalene	968	0.0200	1,000	0	96.8	80	120				
Surr: 2-Fluorobiphenyl	481		500.0		96.2	69.5	150				
Surr: Terphenyl-d14 (surr)	450		500.0		90.0	71.6	145				

Work Order: 2309343
CLIENT: GeoEngineers
Project: 701 South Jackson

QC SUMMARY REPORT

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Sample ID: MB-41588	SampType: MBLK	Units: mg/Kg			Prep Date: 9/26/2023	RunNo: 86776					
Client ID: MBLKS	Batch ID: 41588				Analysis Date: 9/26/2023	SeqNo: 1810656					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	ND	0.0200									
2-Methylnaphthalene	ND	0.0200									
1-Methylnaphthalene	ND	0.0200									
Surr: 2-Fluorobiphenyl	0.868		1.000		86.8	22.2	146				
Surr: Terphenyl-d14 (surr)	0.884		1.000		88.4	20.2	159				

Sample ID: LCS-41588	SampType: LCS	Units: mg/Kg			Prep Date: 9/26/2023	RunNo: 86776					
Client ID: LCSS	Batch ID: 41588				Analysis Date: 9/26/2023	SeqNo: 1810657					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	1.69	0.0200	2.000	0	84.6	63.8	120				
2-Methylnaphthalene	1.75	0.0200	2.000	0	87.4	57	118				
1-Methylnaphthalene	1.73	0.0200	2.000	0	86.5	56.6	119				
Surr: 2-Fluorobiphenyl	0.989		1.000		98.9	22.2	146				
Surr: Terphenyl-d14 (surr)	0.942		1.000		94.2	20.2	159				

Sample ID: 2309234-061AMS	SampType: MS	Units: mg/Kg			Prep Date: 9/26/2023	RunNo: 86776					
Client ID: BATCH	Batch ID: 41588				Analysis Date: 9/26/2023	SeqNo: 1810659					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	1.80	0.0190	1.905	0	94.3	44.9	136				
2-Methylnaphthalene	1.84	0.0190	1.905	0	96.5	39.2	132				
1-Methylnaphthalene	1.82	0.0190	1.905	0	95.8	40.9	133				
Surr: 2-Fluorobiphenyl	0.961		0.9524		101	22.2	146				
Surr: Terphenyl-d14 (surr)	0.906		0.9524		95.2	20.2	159				

Work Order: 2309343
CLIENT: GeoEngineers
Project: 701 South Jackson

QC SUMMARY REPORT

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Sample ID: 2309234-061AMSD	SampType: MSD	Units: mg/Kg			Prep Date: 9/26/2023	RunNo: 86776					
Client ID: BATCH	Batch ID: 41588				Analysis Date: 9/26/2023	SeqNo: 1810660					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	1.78	0.0192	1.918	0	92.6	44.9	136	1.795	1.12	30	
2-Methylnaphthalene	1.82	0.0192	1.918	0	95.0	39.2	132	1.838	0.876	30	
1-Methylnaphthalene	1.81	0.0192	1.918	0	94.3	40.9	133	1.824	0.907	30	
Surr: 2-Fluorobiphenyl	0.941		0.9588		98.2	22.2	146		0		
Surr: Terphenyl-d14 (surr)	0.893		0.9588		93.1	20.2	159		0		

Sample ID: CCV-41588B	SampType: CCV	Units: µg/L			Prep Date: 9/27/2023	RunNo: 86776					
Client ID: CCV	Batch ID: 41588				Analysis Date: 9/27/2023	SeqNo: 1810671					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	937	0.0200	1,000	0	93.7	80	120				
2-Methylnaphthalene	971	0.0200	1,000	0	97.1	80	120				
1-Methylnaphthalene	956	0.0200	1,000	0	95.6	80	120				
Surr: 2-Fluorobiphenyl	484		500.0		96.8	69.5	150				
Surr: Terphenyl-d14 (surr)	443		500.0		88.6	71.6	145				

Work Order: 2309343
CLIENT: GeoEngineers
Project: 701 South Jackson

QC SUMMARY REPORT
Gasoline by NWTPH-Gx

Sample ID: GX ICB	SampType: ICB	Units: µg/L	Prep Date: 9/20/2023	RunNo: 86636							
Client ID: ICB	Batch ID: 41565	Analysis Date: 9/20/2023	SeqNo: 1807574								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	ND	50.0									
Surr: Toluene-d8	25.0		25.00		99.9	65	135				
Surr: 4-Bromofluorobenzene	24.5		25.00		98.2	65	135				

Sample ID: GX ICV	SampType: ICV	Units: µg/L	Prep Date: 9/20/2023	RunNo: 86636							
Client ID: ICV	Batch ID: 41565	Analysis Date: 9/20/2023	SeqNo: 1807575								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	488	50.0	500.0	0	97.5	80	120				
Surr: Toluene-d8	25.3		25.00		101	65	135				
Surr: 4-Bromofluorobenzene	25.2		25.00		101	65	135				

Sample ID: CCV-41565A	SampType: CCV	Units: mg/Kg	Prep Date: 9/25/2023	RunNo: 86721							
Client ID: CCV	Batch ID: 41565	Analysis Date: 9/25/2023	SeqNo: 1809416								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	473	5.00	500.0	0	94.7	80	120				
Surr: Toluene-d8	23.6		25.00		94.4	65	135				
Surr: 4-Bromofluorobenzene	25.4		25.00		102	65	135				

Sample ID: LCS-41565	SampType: LCS	Units: mg/Kg	Prep Date: 9/25/2023	RunNo: 86721							
Client ID: LCSS	Batch ID: 41565	Analysis Date: 9/25/2023	SeqNo: 1809419								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	23.7	5.00	25.00	0	94.7	65	135				
Surr: Toluene-d8	1.18		1.250		94.4	65	135				
Surr: 4-Bromofluorobenzene	1.27		1.250		102	65	135				

Work Order: 2309343
CLIENT: GeoEngineers
Project: 701 South Jackson

QC SUMMARY REPORT
Gasoline by NWTPH-Gx

Sample ID: MB-41565		SampType: MBLK		Units: mg/Kg		Prep Date: 9/25/2023		RunNo: 86721			
Client ID: MBLKS		Batch ID: 41565				Analysis Date: 9/25/2023		SeqNo: 1809418			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	ND	5.00									
Surr: Toluene-d8	1.20		1.250		96.4	65	135				
Surr: 4-Bromofluorobenzene	1.22		1.250		97.6	65	135				

Sample ID: 2309261-001BDUP		SampType: DUP		Units: mg/Kg-dry		Prep Date: 9/25/2023		RunNo: 86721			
Client ID: BATCH		Batch ID: 41565				Analysis Date: 9/25/2023		SeqNo: 1809410			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	ND	5.09						0		30	
Surr: Toluene-d8	1.22		1.272		95.6	65	135		0		
Surr: 4-Bromofluorobenzene	1.26		1.272		98.7	65	135		0		

Sample ID: 2309343-002BMS		SampType: MS		Units: mg/Kg-dry		Prep Date: 9/25/2023		RunNo: 86721			
Client ID: R3-B7-78		Batch ID: 41565				Analysis Date: 9/25/2023		SeqNo: 1809413			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	32.2	4.90	28.49	0	113	65	135				
Surr: Toluene-d8	1.18		1.225		96.7	65	135				
Surr: 4-Bromofluorobenzene	1.24		1.225		101	65	135				

Sample ID: CCV-41565B		SampType: CCV		Units: mg/Kg		Prep Date: 9/25/2023		RunNo: 86721			
Client ID: CCV		Batch ID: 41565				Analysis Date: 9/25/2023		SeqNo: 1809417			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	452	5.00	500.0	0	90.4	80	120				
Surr: Toluene-d8	24.0		25.00		96.2	65	135				
Surr: 4-Bromofluorobenzene	25.3		25.00		101	65	135				

Work Order: 2309343
CLIENT: GeoEngineers
Project: 701 South Jackson

QC SUMMARY REPORT
Gasoline by NWTPH-Gx

Sample ID: CCV-41565C	SampType: CCV	Units: mg/Kg	Prep Date: 9/26/2023	RunNo: 86721							
Client ID: CCV	Batch ID: 41565		Analysis Date: 9/26/2023	SeqNo: 1809440							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline Range Organics	428	5.00	500.0	0	85.7	80	120				
Surr: Toluene-d8	23.5		25.00		93.8	65	135				
Surr: 4-Bromofluorobenzene	25.3		25.00		101	65	135				

Work Order: 2309343
CLIENT: GeoEngineers
Project: 701 South Jackson

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: VOC W ICB		SampType: ICB		Units: µg/L		Prep Date: 9/19/2023		RunNo: 86634			
Client ID: ICB		Batch ID: 41565				Analysis Date: 9/19/2023		SeqNo: 1807720			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.440									
Toluene	ND	1.00									
Ethylbenzene	ND	0.400									
m,p-Xylene	ND	1.00									
o-Xylene	ND	0.500									
Surr: Dibromofluoromethane	24.4		25.00		97.6	80	120				
Surr: Toluene-d8	25.1		25.00		100	80	120				
Surr: 1-Bromo-4-fluorobenzene	24.5		25.00		98.0	80	120				

Sample ID: VOC W ICV		SampType: ICV		Units: µg/L		Prep Date: 9/19/2023		RunNo: 86634			
Client ID: ICV		Batch ID: 41565				Analysis Date: 9/19/2023		SeqNo: 1807721			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	19.6	0.440	20.00	0	98.0	70	130				
Toluene	19.7	1.00	20.00	0	98.6	70	130				
Ethylbenzene	20.0	0.400	20.00	0	99.9	70	130				
m,p-Xylene	39.8	1.00	40.00	0	99.4	70	130				
o-Xylene	20.2	0.500	20.00	0	101	70	130				
Surr: Dibromofluoromethane	25.6		25.00		102	70	130				
Surr: Toluene-d8	24.8		25.00		99.3	70	130				
Surr: 1-Bromo-4-fluorobenzene	24.9		25.00		99.5	70	130				

Sample ID: CCV-41565A		SampType: CCV		Units: µg/L		Prep Date: 9/25/2023		RunNo: 86720			
Client ID: CCV		Batch ID: 41565				Analysis Date: 9/25/2023		SeqNo: 1809321			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	21.8	0.0175	20.00	0	109	80	120				
Toluene	21.6	0.0300	20.00	0	108	80	120				
Ethylbenzene	18.6	0.0250	20.00	0	93.0	80	120				
m,p-Xylene	36.9	0.0500	40.00	0	92.2	80	120				
o-Xylene	18.2	0.0250	20.00	0	90.9	80	120				

Work Order: 2309343
CLIENT: GeoEngineers
Project: 701 South Jackson

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: CCV-41565A	SampType: CCV	Units: µg/L	Prep Date: 9/25/2023	RunNo: 86720							
Client ID: CCV	Batch ID: 41565		Analysis Date: 9/25/2023	SeqNo: 1809321							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Surr: Dibromofluoromethane	27.9		25.00		112	80	120				
Surr: Toluene-d8	27.3		25.00		109	80	120				
Surr: 1-Bromo-4-fluorobenzene	24.9		25.00		99.8	80	120				

Sample ID: LCS-41565	SampType: LCS	Units: µg/L	Prep Date: 9/25/2023	RunNo: 86720							
Client ID: LCSS	Batch ID: 41565		Analysis Date: 9/25/2023	SeqNo: 1809360							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	1.09	0.0175	1.000	0	109	80	120				
Toluene	1.08	0.0300	1.000	0	108	80	120				
Ethylbenzene	0.930	0.0250	1.000	0	93.0	80	120				
m,p-Xylene	1.84	0.0500	2.000	0	92.2	80	120				
o-Xylene	0.909	0.0250	1.000	0	90.9	80	120				
Surr: Dibromofluoromethane	1.39		1.250		112	74.2	129				
Surr: Toluene-d8	1.36		1.250		109	72	135				
Surr: 1-Bromo-4-fluorobenzene	1.25		1.250		99.8	51	150				

Sample ID: MB-41565	SampType: MBLK	Units: mg/Kg	Prep Date: 9/25/2023	RunNo: 86720							
Client ID: MBLKS	Batch ID: 41565		Analysis Date: 9/25/2023	SeqNo: 1809359							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	ND	0.0175									
Toluene	ND	0.0300									
Ethylbenzene	ND	0.0250									
m,p-Xylene	ND	0.0500									
o-Xylene	ND	0.0250									
Surr: Dibromofluoromethane	1.32		1.250		106	79.5	124				
Surr: Toluene-d8	1.38		1.250		110	77.5	124				
Surr: 1-Bromo-4-fluorobenzene	1.21		1.250		97.0	60.5	139				

Work Order: 2309343
CLIENT: GeoEngineers
Project: 701 South Jackson

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: 2309261-001BDUP		SampType: DUP		Units: mg/Kg-dry		Prep Date: 9/25/2023		RunNo: 86720			
Client ID: BATCH		Batch ID: 41565				Analysis Date: 9/25/2023		SeqNo: 1809353			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.0178						0		30	
Toluene	ND	0.0305						0		30	
Ethylbenzene	ND	0.0254						0		30	
m,p-Xylene	ND	0.0509						0		30	
o-Xylene	ND	0.0254						0		30	
Surr: Dibromofluoromethane	1.31		1.272		103	74.2	129		0		
Surr: Toluene-d8	1.39		1.272		109	72	135		0		
Surr: 1-Bromo-4-fluorobenzene	1.25		1.272		98.1	51	150		0		

Sample ID: 2309343-001BMS		SampType: MS		Units: mg/Kg-dry		Prep Date: 9/25/2023		RunNo: 86720			
Client ID: R3-B15-83		Batch ID: 41565				Analysis Date: 9/25/2023		SeqNo: 1809355			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	1.26	0.0177	1.011	0	124	52.3	147				
Toluene	1.21	0.0303	1.011	0	120	50.1	147				
Ethylbenzene	1.07	0.0253	1.011	0	106	51.7	143				
m,p-Xylene	2.13	0.0506	2.022	0	105	54.5	144				
o-Xylene	1.08	0.0253	1.011	0	107	57.1	141				
Surr: Dibromofluoromethane	1.40		1.264		111	74.2	129				
Surr: Toluene-d8	1.39		1.264		110	72	135				
Surr: 1-Bromo-4-fluorobenzene	1.26		1.264		99.6	51	150				

Client Name: GEI	Work Order Number: 2309343
Logged by: Morgan Wilson	Date Received: 9/25/2023 9:50:00 AM

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
2. How was the sample delivered? Client

Log In

3. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes No Not Present
4. Was an attempt made to cool the samples? Yes No NA
5. Were all items received at a temperature of >2°C to 6°C * Yes No NA
6. Sample(s) in proper container(s)? Yes No
7. Sufficient sample volume for indicated test(s)? Yes No
8. Are samples properly preserved? Yes No
9. Was preservative added to bottles? Yes No NA
10. Is there headspace in the VOA vials? Yes No NA
11. Did all samples containers arrive in good condition(unbroken)? Yes No
12. Does paperwork match bottle labels? Yes No
13. Are matrices correctly identified on Chain of Custody? Yes No
14. Is it clear what analyses were requested? Yes No
15. Were all holding times able to be met? Yes No

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

17. Additional remarks:

Item Information

Item #	Temp °C
Sample	4.7

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C



3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Chain of Custody Record & Laboratory Services Agreement

Client: **GEOTECHNICAL ENGINEERS**

Address:

City, State, Zip:

Telephone:

Fax:

Date: **9.25.2023** Page: **1** of **1**
Project Name: **701 SOUTH JACKSON**
Project No: **24SD4-001-03**
Collected by: **NATHAN SOLOMON**

Location: **SEATTLE WA**
Report To (PM): **ROBERT TRAYNANT**
PM Email: **TRAYNANT@GEOTECHNICALENGINEERS.COM**

Laboratory Project No (Internal): **2309343**
Special Remarks: **HOLD FOR NARTH & DR FARROW UP**

Sample Disposal: Return to client Disposal by lab (after 30 days)

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	Analytes											Comments						
				VOCS (EPA 8260 / 624)	GX/BTEX	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HID)	Diesel/Heavy Oil Range Organics (HX)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T) Dissolved (D)		Anions (I/C)**	EDB (801)				
1 R3-B15-83	9.25.23	0825	S	X																	
2 R3-B1-7B		0825		X																	
3 R3-SW-1-B3		0835		X																	
4 R3-SW-2-83		0845		X																	
5																					
6																					
7																					
8																					
9																					
10																					

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water

**Metals (Circle): MICA-5 RCRA-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Tl U V Zn

***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide Iodide Phosphate Fluoride Nitrate+Nitrite

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above and that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished	Date/Time	Received	Date/Time
<i>[Signature]</i>	9.25.2023	<i>[Signature]</i>	9.25.2023
Relinquished	Date/Time	Received	Date/Time
<i>[Signature]</i>	07:56	<i>[Signature]</i>	9:50



3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Chain of Custody Record & Laboratory Services Agreement

Client: **GEOTECHNICAL ENGINEERS**

Address:

City, State, Zip:

Telephone:

Fax:

Date: **9.25.2023** Page: **1** of **1**
Project Name: **701 SOUTH JACKSON**

Project No: **24504-001-03**

Collected by: **NATHAN SOLOMON**

Location: **SEATTLE WA**

Report To (PM): **ROBERT TRAYNANT**

PM Email: **TRAYNANT@GEOTECHNICALENGINEERS.COM**

Laboratory Project No (Internal): **2309343**

Special Remarks:
HOLD FOR NARTH & DA FAVOUS UP

X = run for DX & Naphthalenes on a next day TAT per RT 9/26/23 -CG

Sample Disposal: Return to client Disposal by lab (after 30 days)

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	Analytes													Comments								
				VOCs (EPA 8260 / 624)	GX/BTEX	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HID)	Diesel/Heavy Oil Range Organics (DHO)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T) Dissolved (D)	Anions (IC)**	EDB (8011)									
1 R3-B15-83	9.25.23	0825	S	X			X				X														
2 R3-B1-7B		0825		X			X				X														
3 R3-SW-1-B3		0835		X			X				X														
4 R3-SW-2-83		0845		X			X				X														
5																									
6																									
7																									
8																									
9																									
10																									

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water

**Metals (Circle): MICA-5 RCRA-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Tl U V Zn

***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide Iodide Fluoride Nitrate+Nitrite

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above and that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished	Date/Time	Received	Date/Time
<i>[Signature]</i>	9.25.2023	<i>[Signature]</i>	9.25.2023
Relinquished	Date/Time	Received	Date/Time
<i>[Signature]</i>	07:56	<i>[Signature]</i>	9:50

DATA SET for Review - Deliverable Requirements

Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Fremont Analytical Work Order No. 2309343

GeoEngineers

Project Name: South Jackson Street

Project Number: 24504-001-03

This data set contains the following:

- Analytical Sequence Summary
- Calibration Information

Data Directory: D:\GC-24\Data\2023\230727FRONT\

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) 07270002.D CO	DX_220112.M	150	1.000	27 Jul 2023 10:39 am
2) 07270004.D HO 20	DX_220112.M	21	1.000	27 Jul 2023 10:50 am
3) 07270006.D HO 100	DX_220112.M	22	1.000	27 Jul 2023 11:01 am
4) 07270008.D HO 500	DX_220112.M	23	1.000	27 Jul 2023 11:12 am
5) 07270010.D HO 1000	DX_220112.M	24	1.000	27 Jul 2023 11:23 am
6) 07270012.D HO 2000	DX_220112.M	25	1.000	27 Jul 2023 11:34 am
7) 07270014.D HO 5000	DX_220112.M	26	1.000	27 Jul 2023 11:45 am
8) 07270016.D HO 10000	DX_220112.M	27	1.000	27 Jul 2023 11:56 am
9) 07270018.D CO	DX_220112.M	150	1.000	27 Jul 2023 12:07 pm
10) 07270020.D CO	DX_220112.M	150	1.000	27 Jul 2023 12:18 pm
11) 07270022.D CO	DX_220112.M	148	1.000	27 Jul 2023 12:29 pm
12) 07270024.D HO ICB	DX_220112.M	28	1.000	27 Jul 2023 12:40 pm
13) 07270026.D HO 20	DX_220112.M	21	1.000	27 Jul 2023 12:51 pm
14) 07270028.D HO ICV	DX_220112.M	29	1.000	27 Jul 2023 01:02 pm
15) 07270030.D CO	DX_220112.M	150	1.000	27 Jul 2023 01:13 pm
16) 07270032.D DX 20	DX_220112.M	11	1.000	27 Jul 2023 01:23 pm
17) 07270034.D DX 100	DX_220112.M	12	1.000	27 Jul 2023 01:34 pm
18) 07270036.D DX 500	DX_220112.M	13	1.000	27 Jul 2023 01:46 pm
19) 07270038.D DX 1000	DX_220112.M	14	1.000	27 Jul 2023 01:57 pm
20) 07270040.D DX 2000	DX_220112.M	15	1.000	27 Jul 2023 02:08 pm
21) 07270042.D DX 5000	DX_220112.M	16	1.000	27 Jul 2023 02:19 pm

22) 07270044.D DX 10000	DX_220112.M	17	1.000	27 Jul 2023	02:30 pm
23) 07270046.D HO ICB	DX_220112.M	28	1.000	27 Jul 2023	02:41 pm
24) 07270048.D HO 20	DX_220112.M	21	1.000	27 Jul 2023	02:52 pm
25) 07270050.D CO	DX_220112.M	150	1.000	27 Jul 2023	03:03 pm
26) 07270052.D CO	DX_220112.M	150	1.000	27 Jul 2023	03:14 pm
27) 07270054.D DX ICB	DX_220112.M	18	1.000	27 Jul 2023	03:25 pm
28) 07270056.D DX ICV	DX_220112.M	19	1.000	27 Jul 2023	03:42 pm
29) 07270058.D CO	DX_220112.M	150	1.000	27 Jul 2023	03:53 pm
30) 07270060.D CO	DX_220112.M	150	1.000	27 Jul 2023	04:04 pm
31) 07270062.D CO	DX_220112.M	150	1.000	27 Jul 2023	04:15 pm
32) 07270064.D CO	DX_220112.M	150	1.000	27 Jul 2023	04:26 pm
33) 07270066.D OIL-CCV	DX_220112.M	2	1.000	27 Jul 2023	04:37 pm
34) 07270068.D DX-CCV	DX_220112.M	1	1.000	27 Jul 2023	04:48 pm
35) 07270070.D CO	DX_220112.M	150	1.000	27 Jul 2023	04:59 pm
36) 07270072.D MB-40979	DX_220112.M	61	1.000	27 Jul 2023	05:10 pm
37) 07270074.D LCS-40979	DX_220112.M	62	1.000	27 Jul 2023	05:21 pm
38) 07270076.D LCSD-40979	DX_220112.M	63	1.000	27 Jul 2023	05:32 pm
39) 07270078.D Dx MDL	DX_220112.M	73	1.000	27 Jul 2023	05:43 pm
40) 07270080.D RRO MDL	DX_220112.M	74	1.000	27 Jul 2023	05:54 pm
41) 07270082.D CO	DX_220112.M	150	1.000	27 Jul 2023	06:05 pm
42) 07270084.D CO	DX_220112.M	150	1.000	27 Jul 2023	06:16 pm
43) 07270086.D OIL-CCV	DX_220112.M	2	1.000	27 Jul 2023	06:27 pm
44) 07270088.D DX-CCV	DX_220112.M	1	1.000	27 Jul 2023	06:38 pm
45) 07270090.D	DX_220112.M				

CO			150	1.000	27 Jul 2023	06:49	pm
46)	07270092.D MB-41004	DX_220112.M	111	1.000	27 Jul 2023	07:00	pm
47)	07270094.D LCS-41004	DX_220112.M	112	1.000	27 Jul 2023	07:11	pm
48)	07270096.D 2307262-001B	DX_220112.M	113	1.000	27 Jul 2023	07:22	pm
49)	07270098.D 2307262-002B	DX_220112.M	114	1.000	27 Jul 2023	07:33	pm
50)	07270100.D 2307262-003B	DX_220112.M	115	1.000	27 Jul 2023	07:44	pm
51)	07270102.D 2307262-004B	DX_220112.M	116	1.000	27 Jul 2023	07:55	pm
52)	07270104.D 2307262-005B	DX_220112.M	117	1.000	27 Jul 2023	08:06	pm
53)	07270106.D 2307262-006B	DX_220112.M	118	1.000	27 Jul 2023	08:17	pm
54)	07270108.D 2307262-007B	DX_220112.M	119	1.000	27 Jul 2023	08:28	pm
55)	07270110.D 2307262-007BDUP	DX_220112.M	120	1.000	27 Jul 2023	08:39	pm
56)	07270112.D CO	DX_220112.M	150	1.000	27 Jul 2023	08:50	pm
57)	07270114.D OIL-CCV	DX_220112.M	2	1.000	27 Jul 2023	09:01	pm
58)	07270116.D DX-CCV	DX_220112.M	1	1.000	27 Jul 2023	09:12	pm
59)	07270118.D CO	DX_220112.M	150	1.000	27 Jul 2023	09:23	pm
60)	07270120.D 2307262-008B	DX_220112.M	121	1.000	27 Jul 2023	09:34	pm
61)	07270122.D 2307262-009B	DX_220112.M	122	1.000	27 Jul 2023	09:45	pm
62)	07270124.D 2307262-010B	DX_220112.M	123	1.000	27 Jul 2023	09:56	pm
63)	07270126.D 2307284-001B	DX_220112.M	124	1.000	27 Jul 2023	10:07	pm
64)	07270128.D 2307284-002B	DX_220112.M	125	1.000	27 Jul 2023	10:18	pm
65)	07270130.D 2307284-003B	DX_220112.M	126	1.000	27 Jul 2023	10:29	pm
66)	07270132.D 2307284-004B	DX_220112.M	127	1.000	27 Jul 2023	10:40	pm
67)	07270134.D 2307285-001A	DX_220112.M	128	1.000	27 Jul 2023	10:51	pm
68)	07270136.D CO	DX_220112.M	150	1.000	27 Jul 2023	11:02	pm

69) 07270138.D OIL-CCV	DX_220112.M	2	1.000	27 Jul 2023	11:12 pm
70) 07270140.D DX-CCV	DX_220112.M	1	1.000	27 Jul 2023	11:23 pm
71) 07270142.D CO	DX_220112.M	150	1.000	27 Jul 2023	11:34 pm
72) 07270144.D MB-40989	DX_220112.M	131	1.000	27 Jul 2023	11:45 pm
73) 07270146.D LCS-40989	DX_220112.M	132	1.000	27 Jul 2023	11:56 pm
74) 07270148.D 2307278-002A	DX_220112.M	136	1.000	28 Jul 2023	12:07 am
75) 07270150.D 2307278-002ADUP	DX_220112.M	137	1.000	28 Jul 2023	12:18 am
76) 07270152.D 2307278-003A	DX_220112.M	138	1.000	28 Jul 2023	12:29 am
77) 07270154.D 2307278-004A	DX_220112.M	139	1.000	28 Jul 2023	12:40 am
78) 07270156.D 2307278-005A	DX_220112.M	140	1.000	28 Jul 2023	12:51 am
79) 07270158.D 2307278-006A	DX_220112.M	141	1.000	28 Jul 2023	01:02 am
80) 07270160.D 2307278-009A	DX_220112.M	144	1.000	28 Jul 2023	01:13 am
81) 07270162.D 2307278-010A	DX_220112.M	145	1.000	28 Jul 2023	01:24 am
82) 07270164.D CO	DX_220112.M	150	1.000	28 Jul 2023	01:35 am
83) 07270166.D OIL-CCV	DX_220112.M	2	1.000	28 Jul 2023	01:46 am
84) 07270168.D DX-CCV	DX_220112.M	1	1.000	28 Jul 2023	01:57 am
85) 07270170.D CO	DX_220112.M	150	1.000	28 Jul 2023	02:08 am
86) 07270172.D 2307278-012A	DX_220112.M	147	1.000	28 Jul 2023	02:18 am
87) 07270174.D 2307278-001A	DX_220112.M	133	1.000	28 Jul 2023	02:29 am
88) 07270176.D CO	DX_220112.M	150	1.000	28 Jul 2023	02:40 am
89) 07270178.D 2307278-001AMS	DX_220112.M	134	1.000	28 Jul 2023	02:51 am
90) 07270180.D CO	DX_220112.M	150	1.000	28 Jul 2023	03:02 am
91) 07270182.D 2307278-001AMSD	DX_220112.M	135	1.000	28 Jul 2023	03:13 am

92) 07270184.D CO	DX_220112.M	150	1.000	28 Jul 2023	03:24 am
93) 07270186.D 2307278-011A	DX_220112.M	146	1.000	28 Jul 2023	03:35 am
94) 07270188.D CO	DX_220112.M	150	1.000	28 Jul 2023	03:46 am
95) 07270190.D 2307278-008A	DX_220112.M	143	1.000	28 Jul 2023	03:57 am
96) 07270192.D CO	DX_220112.M	150	1.000	28 Jul 2023	04:08 am
97) 07270194.D 2307278-007A	DX_220112.M	142	1.000	28 Jul 2023	04:19 am
98) 07270196.D CO	DX_220112.M	150	1.000	28 Jul 2023	04:30 am
99) 07270198.D CO	DX_220112.M	150	1.000	28 Jul 2023	04:41 am
100) 07270200.D OIL-CCV	DX_220112.M	2	1.000	28 Jul 2023	04:52 am
101) 07270202.D DX-CCV	DX_220112.M	1	1.000	28 Jul 2023	05:03 am
102) 07270204.D CO	DX_220112.M	150	1.000	28 Jul 2023	05:14 am

Data Directory: D:\GC-24\Data\2023\230926FRONT\

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) 09260002.D CO	DX_220112.M	150	1.000	26 Sep 2023 08:20 am
2) 09260004.D OIL-CCV	DX_220112.M	2	1.000	26 Sep 2023 08:31 am
3) 09260006.D DX-CCV	DX_220112.M	1	1.000	26 Sep 2023 08:42 am
4) 09260008.D CO	DX_220112.M	150	1.000	26 Sep 2023 08:53 am
5) 09260010.D 2309234-036A 10x	DX_220112.M	145	1.000	26 Sep 2023 10:20 am
6) 09260012.D CO	DX_220112.M	150	1.000	26 Sep 2023 10:31 am
7) 09260014.D CO	DX_220112.M	150	1.000	26 Sep 2023 10:42 am
8) 09260016.D OIL-CCV	DX_220112.M	2	1.000	26 Sep 2023 10:53 am
9) 09260018.D DX-CCV	DX_220112.M	1	1.000	26 Sep 2023 11:04 am
10) 09260020.D CO	DX_220112.M	150	1.000	26 Sep 2023 11:15 am
11) 09260022.D OIL-CCV	DX_220112.M	2	1.000	26 Sep 2023 12:46 pm
12) 09260024.D DX-CCV	DX_220112.M	1	1.000	26 Sep 2023 12:56 pm
13) 09260026.D CO	DX_220112.M	150	1.000	26 Sep 2023 01:07 pm
14) 09260028.D MB-41584	DX_220112.M	11	1.000	26 Sep 2023 01:18 pm
15) 09260030.D LCS-41584	DX_220112.M	12	1.000	26 Sep 2023 01:29 pm
16) 09260032.D 2309292-001A	DX_220112.M	21	1.000	26 Sep 2023 01:40 pm
17) 09260034.D 2309384-001B	DX_220112.M	27	1.000	26 Sep 2023 01:51 pm
18) 09260036.D 2309373-001B	DX_220112.M	28	1.000	26 Sep 2023 02:02 pm
19) 09260038.D 2309373-001BDUP	DX_220112.M	29	1.000	26 Sep 2023 02:13 pm
20) 09260040.D 2309373-002B	DX_220112.M	30	1.000	26 Sep 2023 02:24 pm
21) 09260042.D 2309373-003B	DX_220112.M	31	1.000	26 Sep 2023 02:43 pm

22)	09260044.D	DX_220112.M	145	1.000	26 Sep 2023	02:54 pm
	2309234-036A 10x					
23)	09260046.D	DX_220112.M	150	1.000	26 Sep 2023	03:05 pm
	CO					
24)	09260048.D	DX_220112.M	150	1.000	26 Sep 2023	03:16 pm
	CO					
25)	09260050.D	DX_220112.M	2	1.000	26 Sep 2023	03:27 pm
	OIL-CCV					
26)	09260052.D	DX_220112.M	1	1.000	26 Sep 2023	03:38 pm
	DX-CCV					
27)	09260054.D	DX_220112.M	150	1.000	26 Sep 2023	03:49 pm
	CO					
28)	09260056.D	DX_220112.M	15	1.000	26 Sep 2023	04:27 pm
	2309253-001A					
29)	09260058.D	DX_220112.M	19	1.000	26 Sep 2023	04:38 pm
	2309265-001A					
30)	09260060.D	DX_220112.M	22	1.000	26 Sep 2023	04:49 pm
	2309305-001B					
31)	09260062.D	DX_220112.M	23	1.000	26 Sep 2023	05:00 pm
	2309305-001BDUP					
32)	09260064.D	DX_220112.M	24	1.000	26 Sep 2023	05:11 pm
	2309326-001A					
33)	09260066.D	DX_220112.M	26	1.000	26 Sep 2023	05:22 pm
	2309332-001B					
34)	09260068.D	DX_220112.M	13	1.000	26 Sep 2023	05:33 pm
	2309252-001A					
35)	09260070.D	DX_220112.M	150	1.000	26 Sep 2023	05:44 pm
	CO					
36)	09260072.D	DX_220112.M	14	1.000	26 Sep 2023	05:55 pm
	2309252-002A					
37)	09260074.D	DX_220112.M	150	1.000	26 Sep 2023	06:06 pm
	CO					
38)	09260076.D	DX_220112.M	16	1.000	26 Sep 2023	06:17 pm
	2309254-001A					
39)	09260078.D	DX_220112.M	150	1.000	26 Sep 2023	06:28 pm
	CO					
40)	09260080.D	DX_220112.M	17	1.000	26 Sep 2023	06:39 pm
	2309262-001A					
41)	09260082.D	DX_220112.M	150	1.000	26 Sep 2023	06:50 pm
	CO					
42)	09260084.D	DX_220112.M	18	1.000	26 Sep 2023	07:00 pm
	2309263-001A					
43)	09260086.D	DX_220112.M	150	1.000	26 Sep 2023	07:12 pm
	CO					
44)	09260088.D	DX_220112.M	20	1.000	26 Sep 2023	07:22 pm
	2309266-001A					
45)	09260090.D	DX_220112.M				

CO			150	1.000	26 Sep 2023	07:33	pm
46)	09260092.D 2309328-001A	DX_220112.M	25	1.000	26 Sep 2023	07:44	pm
47)	09260094.D CO	DX_220112.M	150	1.000	26 Sep 2023	07:55	pm
48)	09260096.D CO	DX_220112.M	150	1.000	26 Sep 2023	08:06	pm
49)	09260098.D OIL-CCV	DX_220112.M	2	1.000	26 Sep 2023	08:17	pm
50)	09260100.D DX-CCV	DX_220112.M	1	1.000	26 Sep 2023	08:28	pm
51)	09260102.D CO	DX_220112.M	150	1.000	26 Sep 2023	08:39	pm
52)	09260104.D MB-41589	DX_220112.M	41	1.000	26 Sep 2023	08:50	pm
53)	09260106.D LCS-41589	DX_220112.M	42	1.000	26 Sep 2023	09:01	pm
54)	09260108.D 2309234-061A	DX_220112.M	44	1.000	26 Sep 2023	09:12	pm
55)	09260110.D 2309234-061ADUP	DX_220112.M	45	1.000	26 Sep 2023	09:23	pm
56)	09260112.D 2309234-063A	DX_220112.M	46	1.000	26 Sep 2023	09:34	pm
57)	09260114.D 2309261-001A	DX_220112.M	47	1.000	26 Sep 2023	09:44	pm
58)	09260116.D 2309343-001A	DX_220112.M	48	1.000	26 Sep 2023	09:55	pm
59)	09260118.D 2309343-002A	DX_220112.M	49	1.000	26 Sep 2023	10:06	pm
60)	09260120.D 2309343-003A	DX_220112.M	50	1.000	26 Sep 2023	10:17	pm
61)	09260122.D 2309343-004A	DX_220112.M	51	1.000	26 Sep 2023	10:28	pm
62)	09260124.D CO	DX_220112.M	150	1.000	26 Sep 2023	10:39	pm
63)	09260126.D OIL-CCV	DX_220112.M	2	1.000	26 Sep 2023	10:50	pm
64)	09260128.D DX-CCV	DX_220112.M	1	1.000	26 Sep 2023	11:01	pm
65)	09260130.D CO	DX_220112.M	150	1.000	26 Sep 2023	11:12	pm
66)	09260132.D 2309387-001A	DX_220112.M	52	1.000	26 Sep 2023	11:23	pm
67)	09260134.D 2309234-059A	DX_220112.M	43	1.000	26 Sep 2023	11:34	pm
68)	09260136.D CO	DX_220112.M	150	1.000	26 Sep 2023	11:44	pm

69)	09260138.D	DX_220112.M	53	1.000	26 Sep 2023	11:55 pm
	2309391-002A					
70)	09260140.D	DX_220112.M	150	1.000	27 Sep 2023	12:06 am
	CO					
71)	09260142.D	DX_220112.M	150	1.000	27 Sep 2023	12:17 am
	CO					
72)	09260144.D	DX_220112.M	54	1.000	27 Sep 2023	12:28 am
	2309391-003A					
73)	09260146.D	DX_220112.M	150	1.000	27 Sep 2023	12:39 am
	CO					
74)	09260148.D	DX_220112.M	150	1.000	27 Sep 2023	12:50 am
	CO					
75)	09260150.D	DX_220112.M	55	1.000	27 Sep 2023	01:01 am
	2309391-003AMS					
76)	09260152.D	DX_220112.M	150	1.000	27 Sep 2023	01:12 am
	CO					
77)	09260154.D	DX_220112.M	150	1.000	27 Sep 2023	01:23 am
	CO					
78)	09260156.D	DX_220112.M	56	1.000	27 Sep 2023	01:34 am
	2309391-003AMSD					
79)	09260158.D	DX_220112.M	150	1.000	27 Sep 2023	01:45 am
	CO					
80)	09260160.D	DX_220112.M	150	1.000	27 Sep 2023	01:56 am
	CO					
81)	09260162.D	DX_220112.M	2	1.000	27 Sep 2023	02:06 am
	OIL-CCV					
82)	09260164.D	DX_220112.M	1	1.000	27 Sep 2023	02:17 am
	DX-CCV					
83)	09260166.D	DX_220112.M	150	1.000	27 Sep 2023	02:28 am
	CO					



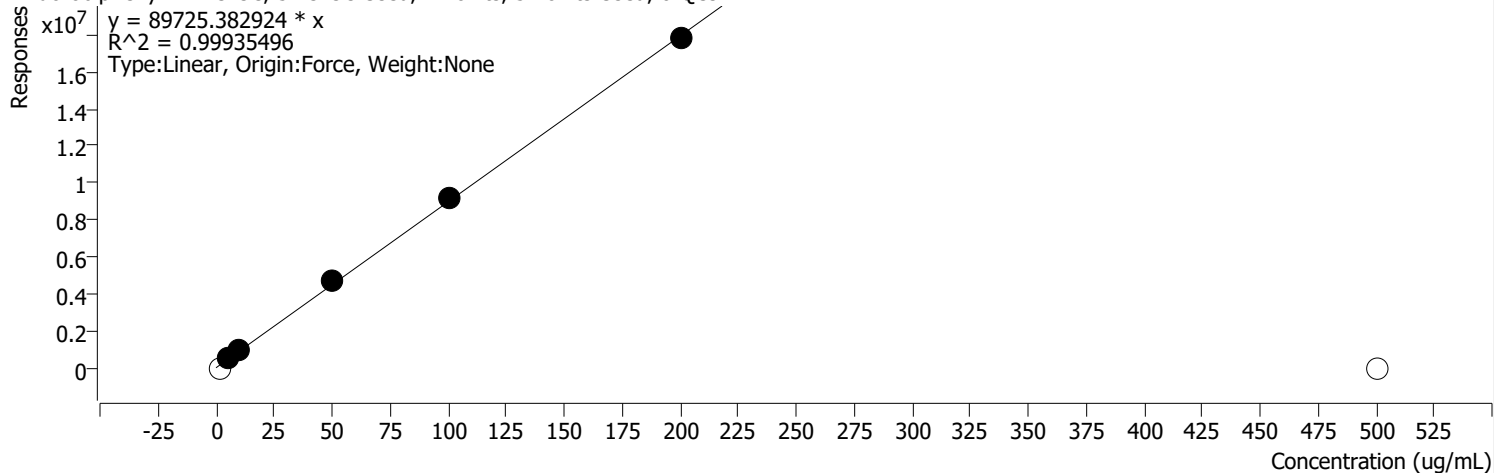
Calibration

Calibration Report

Batch Path	D:\GC-24\Data\2023\230727FRONT\QuantResults\Dx-Oil Cal.batch.bin		
Analysis Time	7/28/2023 9:47:30 AM	Analyst Name	FA\GC24
Report Time	7/28/2023 9:50:54 AM	Reporter Name	GC24
Last Calib Update	7/28/2023 9:45:03 AM	Batch State	Processed

2-Fluorobiphenyl

2-Fluorobiphenyl - 7 Levels, 5 Levels Used, 7 Points, 5 Points Used, 0 QCs



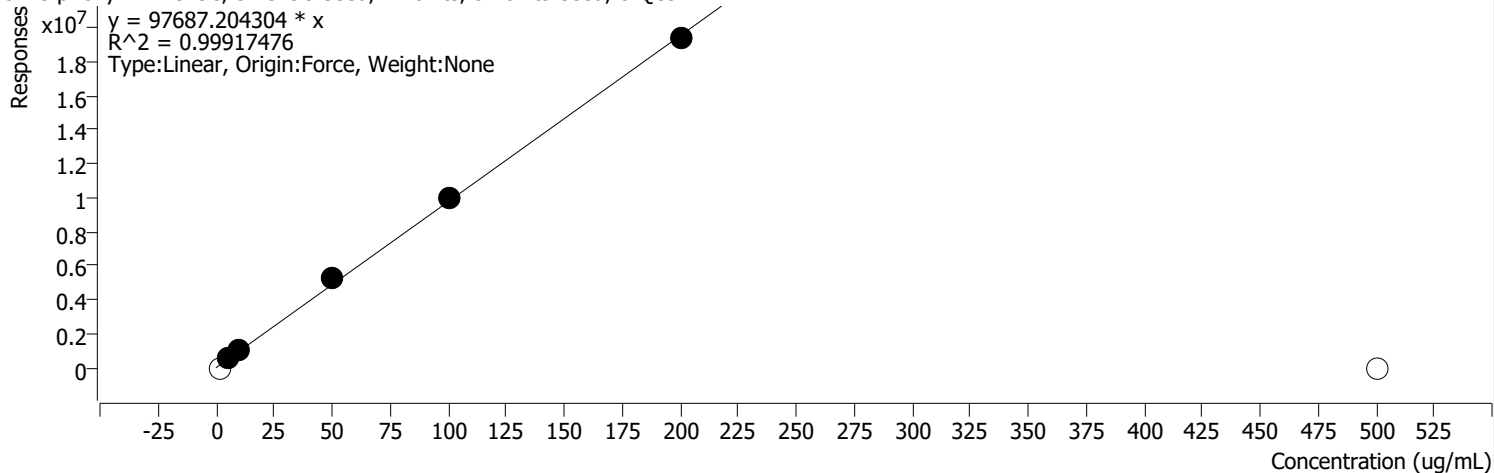
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-24\Data\2023\230727FRONT\07270048.D	Calibration	1		0	2.0000	0.0000
D:\GC-24\Data\2023\230727FRONT\07270006.D	Calibration	2	x	499781	5.0000	99956.2936
D:\GC-24\Data\2023\230727FRONT\07270008.D	Calibration	3	x	1001008	10.0000	100100.7802
D:\GC-24\Data\2023\230727FRONT\07270010.D	Calibration	4	x	4748564	50.0000	94971.2777
D:\GC-24\Data\2023\230727FRONT\07270012.D	Calibration	5	x	9133555	100.0000	91335.5456
D:\GC-24\Data\2023\230727FRONT\07270014.D	Calibration	6	x	17792528	200.0000	88962.6410
D:\GC-24\Data\2023\230727FRONT\07270016.D	Calibration	7		0	500.0000	0.0000

Calibration Report

Batch Path	D:\GC-24\Data\2023\230727FRONT\QuantResults\Dx-Oil Cal.batch.bin		
Analysis Time	7/28/2023 9:47:30 AM	Analyst Name	FA\GC24
Report Time	7/28/2023 9:50:56 AM	Reporter Name	GC24
Last Calib Update	7/28/2023 9:45:03 AM	Batch State	Processed

O-Terphenyl

O-Terphenyl - 7 Levels, 5 Levels Used, 7 Points, 5 Points Used, 0 QCs



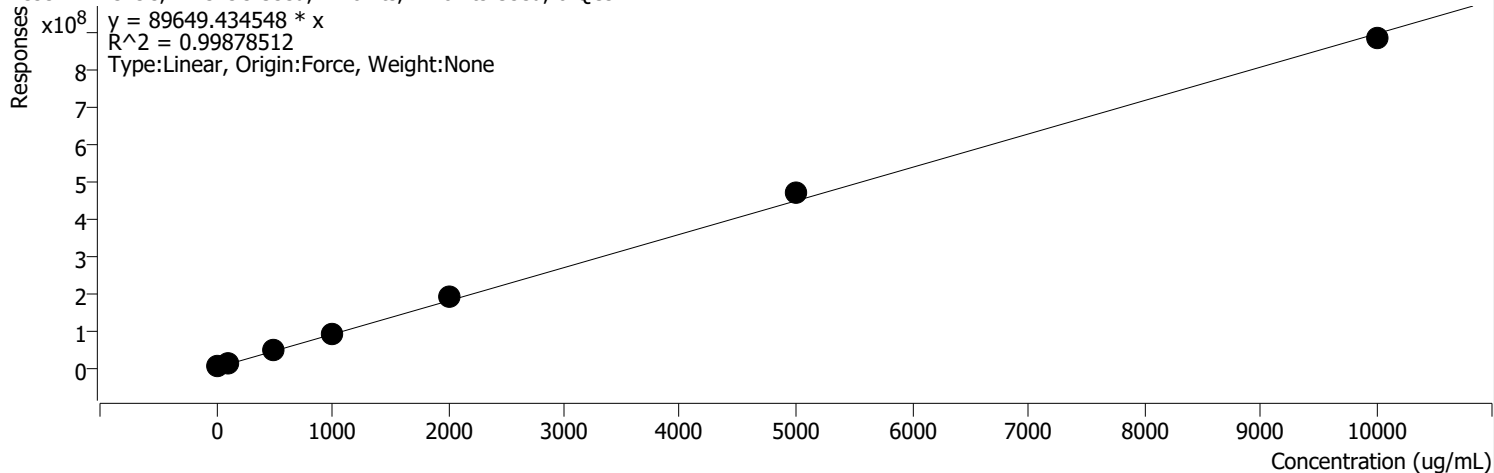
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-24\Data\2023\230727FRONT\07270048.D	Calibration	1		0	2.0000	0.0000
D:\GC-24\Data\2023\230727FRONT\07270006.D	Calibration	2	x	559603	5.0000	111920.5680
D:\GC-24\Data\2023\230727FRONT\07270008.D	Calibration	3	x	1118016	10.0000	111801.6431
D:\GC-24\Data\2023\230727FRONT\07270010.D	Calibration	4	x	5218661	50.0000	104373.2229
D:\GC-24\Data\2023\230727FRONT\07270012.D	Calibration	5	x	9941086	100.0000	99410.8621
D:\GC-24\Data\2023\230727FRONT\07270014.D	Calibration	6	x	19358846	200.0000	96794.2318
D:\GC-24\Data\2023\230727FRONT\07270016.D	Calibration	7		0	500.0000	0.0000

Calibration Report

Batch Path	D:\GC-24\Data\2023\230727FRONT\QuantResults\Dx-Oil Cal.batch.bin		
Analysis Time	7/28/2023 9:47:30 AM	Analyst Name	FA\GC24
Report Time	7/28/2023 9:50:56 AM	Reporter Name	GC24
Last Calib Update	7/28/2023 9:45:03 AM	Batch State	Processed

Diesel

Diesel - 7 Levels, 7 Levels Used, 7 Points, 7 Points Used, 0 QCs



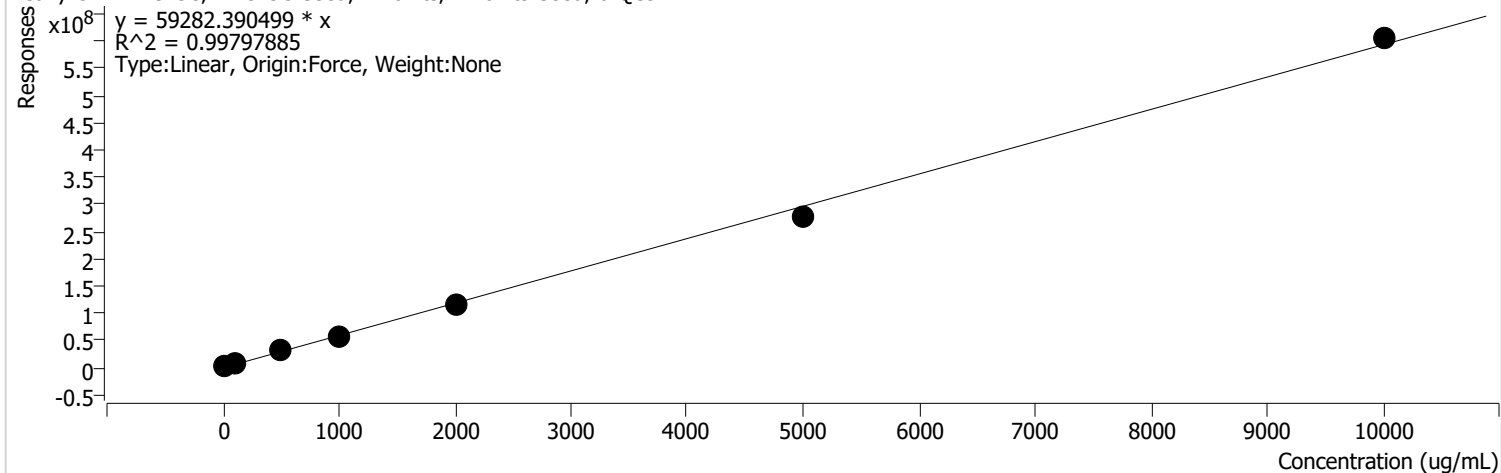
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-24\Data\2023\230727FRONT\07270032.D	Calibration	1	x	1532157	20.0000	76607.8377
D:\GC-24\Data\2023\230727FRONT\07270034.D	Calibration	2	x	8909518	100.0000	89095.1823
D:\GC-24\Data\2023\230727FRONT\07270036.D	Calibration	3	x	45292573	500.0000	90585.1454
D:\GC-24\Data\2023\230727FRONT\07270038.D	Calibration	4	x	91275534	1000.0000	91275.5337
D:\GC-24\Data\2023\230727FRONT\07270040.D	Calibration	5	x	188230632	2000.0000	94115.3159
D:\GC-24\Data\2023\230727FRONT\07270042.D	Calibration	6	x	470981718	5000.0000	94196.3435
D:\GC-24\Data\2023\230727FRONT\07270044.D	Calibration	7	x	883155794	10000.0000	88315.5794

Calibration Report

Batch Path D:\GC-24\Data\2023\230727FRONT\QuantResults\Dx-Oil Cal.batch.bin
Analysis Time 7/28/2023 9:47:30 AM **Analyst Name** FA\GC24
Report Time 7/28/2023 9:50:56 AM **Reporter Name** GC24
Last Calib Update 7/28/2023 9:45:03 AM **Batch State** Processed

Heavy Oil

Heavy Oil - 7 Levels, 7 Levels Used, 7 Points, 7 Points Used, 0 QCs



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-24\Data\2023\230727FRONT\07270048.D	Calibration	1	x	1139369	20.0000	56968.4627
D:\GC-24\Data\2023\230727FRONT\07270006.D	Calibration	2	x	6651487	100.0000	66514.8704
D:\GC-24\Data\2023\230727FRONT\07270008.D	Calibration	3	x	32500169	500.0000	65000.3388
D:\GC-24\Data\2023\230727FRONT\07270010.D	Calibration	4	x	56908464	1000.0000	56908.4636
D:\GC-24\Data\2023\230727FRONT\07270012.D	Calibration	5	x	117299033	2000.0000	58649.5166
D:\GC-24\Data\2023\230727FRONT\07270014.D	Calibration	6	x	275285166	5000.0000	55057.0333
D:\GC-24\Data\2023\230727FRONT\07270016.D	Calibration	7	x	603727752	10000.0000	60372.7752

Heavy Oil Calibration

Date: 7/27/23

Oil CAL STD: 28320

Concentration: 50,000 ug/L

Analyst: AHP

Oil ICV (SS): 27047

Concentration: 50,000 ug/L

MeCl2: 7583

SURROGATE: 28541

Concentration: 1,000 ug/L

	Calibration Point (ppm)	Surr Cal Point (ppm)	MeCl2 (uL)	STD Conc (ppm)	STD Amt (uL)	Surr Amt (uL)	Final Vol. (mL)	Comments
21	20	2	980	1000*	20*	-	1	*Note: the 1000 point w/ HO and surr will be used to make points 100 and 20
22	100	5	900	1000*	100*	-	1	
23	500	10	980	50,000	10	10	1	
24	1000*	50	930	50,000	20	50	1	
25	2000	100	860	50,000	40	100	1	
26	5000	200	700	50,000	100	200	1	
27	10000	500 -	800 ⁸⁰⁰	50,000	200	500	1	
28	ICB	-	990	-	-	10	1	
29	ICV (500)	10	980	50,000 SS	10 ^{SS}	10	1	

Signature and Date: Alex Posters 7/27/23

Diesel Calibration

Date: 7/27/23

DX CAL STD: 27149 Concentration: 50,000 ug/L

Analyst: AHP

DX ICV (SS): 28397 Concentration: 50,000 ug/L

MeCl2: 7583

Surr: 28541 Concentration 1000 mg/L
3 2

	Calibration Point (ppm)	MeCl2 (uL)	STD Conc (ppm)	STD Amt (uL)	Surr (uL)	Final Vol. (mL)	Comments
11	20	980	1000*	20	-	1	
12	100	900	1000*	100	-	1	
13	500	990	50,000	10	-	1	
14	1000*	980	50,000	20	-	1	
15	2000	960	50,000	40	-	1	
16	5000	900	50,000	100	-	1	*Note: the 1000 point will be used to make points 100 and 20
17	10000	800	50,000	200	-	1	
18	ICB	990	-	-	10	1	
19	ICV (500)	980	50,000 SS	10 ⁵⁰	10	1	

Signature and Date: Alex Potter 7/27/23

DATA SET for Review - Deliverable Requirements

Gasoline by NWTPH-Gx

Fremont Analytical Work Order No. 2309343

GeoEngineers

Project Name: South Jackson Street

Project Number: 24504-001-03

This data set contains the following:

- Analytical Sequence Summary
- Calibration Information
- Tune Information
- Internal Standards Report

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) 092001.D R	8260.M O-VOC-W		1.000	20 Sep 2023 08:30
2) 092002.D VOC S CCV A	8260.M O-VOC-S	1	1.000	20 Sep 2023 09:01
3) 092003.D R	8260.M O-VOC-W		1.000	20 Sep 2023 09:30
4) 092004.D MB	8260.M O-VOC-S	2	1.000	20 Sep 2023 10:00
5) 092005.D 2309010-001B	8260.M O-VOC-S	3	1.000	20 Sep 2023 10:30
6) 092006.D R	8260.M O-VOC-S		1.000	20 Sep 2023 10:59
7) 092007.D VOC W CCV A	8260.M O-VOC-W	4	1.000	20 Sep 2023 11:42
8) 092008.D R	8260.M O-VOC-W		1.000	20 Sep 2023 12:11
9) 092009.D R	8260.M O-VOC-W		1.000	20 Sep 2023 12:40
10) 092010.D R	8260.M O-VOC-W		1.000	20 Sep 2023 13:09
11) 092011.D R	8260.M O-VOC-W		1.000	20 Sep 2023 13:38
12) 092012.D GX CAL 1	8260.M O-VOC-GX-W	5	1.000	20 Sep 2023 14:08
13) 092013.D GX CAL 2	8260.M O-VOC-GX-W	6	1.000	20 Sep 2023 14:38
14) 092014.D GX CAL 3	8260.M O-VOC-GX-W	7	1.000	20 Sep 2023 15:08
15) 092015.D GX CAL 4	8260.M O-VOC-GX-W	8	1.000	20 Sep 2023 15:39
16) 092016.D GX CAL 5	8260.M O-VOC-GX-W	9	1.000	20 Sep 2023 16:09
17) 092017.D GX CAL 6	8260.M O-VOC-GX-W	10	1.000	20 Sep 2023 16:39
18) 092018.D GX CAL 7	8260.M O-VOC-GX-W	11	1.000	20 Sep 2023 17:09
19) 092019.D R	8260.M O-VOC-GX-W		1.000	20 Sep 2023 17:38
20) 092020.D R	8260.M O-VOC-GX-W		1.000	20 Sep 2023 18:07
21) 092021.D GX ICB	8260.M O-VOC-GX-W	12	1.000	20 Sep 2023 18:37

22) 092022.D	8260.M					
GX ICV	O-VOC-GX-W	13	1.000	20 Sep 2023	19:07	
23) 092023.D	8260.M					
VOC W ICV	O-VOC-W	14	1.000	20 Sep 2023	19:37	
24) 092024.D	8260.M					
VOC S CCV A	O-VOC-S	15	1.000	20 Sep 2023	20:08	
25) 092025.D	8260.M					
GX CCV A	O-VOC-GX-S	16	1.000	20 Sep 2023	20:38	
26) 092026.D	8260.M					
R	O-VOC-GX-S		1.000	20 Sep 2023	21:07	
27) 092027.D	8260.M					
R	O-VOC-GX-S		1.000	20 Sep 2023	21:36	
28) 092028.D	8260.M					
MB-41532	O-VOC-GX-S	17	1.000	20 Sep 2023	22:06	
29) 092029.D	8260.M					
2309211-001B	O-VOC-GX-S	18	1.000	20 Sep 2023	22:36	
30) 092030.D	8260.M					
2309211-001BDUP	O-VOC-GX-S	19	1.000	20 Sep 2023	23:06	
31) 092031.D	8260.M					
2309211-002B	O-VOC-GX-S	20	1.000	20 Sep 2023	23:36	
32) 092032.D	8260.M					
2309211-003B	O-VOC-GX-S	21	1.000	21 Sep 2023	00:06	
33) 092033.D	8260.M					
2309211-002BMS VOC	O-VOC-GX-S	22	1.000	21 Sep 2023	00:37	
34) 092034.D	8260.M					
2309211-003BMS GX	O-VOC-GX-S	23	1.000	21 Sep 2023	01:07	
35) 092035.D	8260.M					
R	O-VOC-GX-S		1.000	21 Sep 2023	01:36	
36) 092036.D	8260.M					
R	O-VOC-GX-S		1.000	21 Sep 2023	02:05	
37) 092037.D	8260.M					
R	O-VOC-GX-S		1.000	21 Sep 2023	02:34	
38) 092038.D	8260.M					
GX CCV B	O-VOC-GX-S	24	1.000	21 Sep 2023	03:04	
39) 092039.D	8260.M					
R	O-VOC-GX-S		1.000	21 Sep 2023	03:33	
40) 092040.D	8260.M					
R	O-VOC-GX-S		1.000	21 Sep 2023	04:02	
41) 092041.D	8260.M					
R	O-VOC-GX-S		1.000	21 Sep 2023	04:31	

Data Directory: D:\GC-19\Data\092523\

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) 092550.D No data found	8260.M		0.000	N/A
2) 092501.D R	8260.M O-VOC-W		1.000	25 Sep 2023 08:28
3) 092502.D VOC W CCV A	8260.M O-VOC-W	1	1.000	25 Sep 2023 08:58
4) 092503.D VOC S CCV A	8260.M O-VOC-W	2	1.000	25 Sep 2023 09:28
5) 092504.D GX CCV A	8260.M O-VOC-W	3	1.000	25 Sep 2023 09:58
6) 092505.D 1122 TETRA TEST	8260.M O-VOC-W	4	1.000	25 Sep 2023 10:28
7) 092506.D R	8260.M O-VOC-W		1.000	25 Sep 2023 10:57
8) 092507.D MB S	8260.M O-VOC-S	5	1.000	25 Sep 2023 11:27
9) 092508.D 2309261-001B	8260.M O-VOC-S	6	1.000	25 Sep 2023 11:57
10) 092509.D 2309261-001BDUP	8260.M O-VOC-S	7	1.000	25 Sep 2023 12:28
11) 092510.D 2309343-001B	8260.M O-VOC-S	8	1.000	25 Sep 2023 12:58
12) 092511.D 2309343-002B	8260.M O-VOC-S	9	1.000	25 Sep 2023 13:28
13) 092512.D 2309343-003B	8260.M O-VOC-S	10	1.000	25 Sep 2023 13:58
14) 092513.D 2309343-004B	8260.M O-VOC-S	11	1.000	25 Sep 2023 14:28
15) 092514.D 2309343-001BMS VOC	8260.M O-VOC-S	12	1.000	25 Sep 2023 14:58
16) 092515.D 2309343-002BMS GX	8260.M O-VOC-S	13	1.000	25 Sep 2023 15:29
17) 092516.D R	8260.M O-VOC-S		1.000	25 Sep 2023 15:58
18) 092517.D GX CCV B	8260.M O-VOC-S	14	1.000	25 Sep 2023 16:28
19) 092518.D VOC W CCV B	8260.M O-VOC-W	15	1.000	25 Sep 2023 16:58
20) 092519.D R	8260.M O-VOC-S		1.000	25 Sep 2023 17:27
21) 092520.D 2309364-002B	8260.M O-VOC-S	16	1.000	25 Sep 2023 17:57

22)	092521.D		8260.M				
	2309364-001B	O-VOC-S		17	1.000	25 Sep 2023	18:27

	23) 092522.D		8260.M				
R		O-VOC-W			1.000	25 Sep 2023	18:56

	24) 092523.D		8260.M				
R		O-VOC-W			1.000	25 Sep 2023	19:25

	25) 092524.D		8260.M				
MB W		O-VOC-W		18	1.000	25 Sep 2023	19:55

	26) 092525.D		8260.M				
	2309136-004A 10,000X	O-VOC-W		19	1.000	25 Sep 2023	20:25

	27) 092526.D		8260.M				
	2309137-033A 500X	O-VOC-W		36	1.000	25 Sep 2023	20:56

	28) 092527.D		8260.M				
R		O-VOC-W			1.000	25 Sep 2023	21:24

	29) 092528.D		8260.M				
	2309136-011A	O-VOC-W		20	1.000	25 Sep 2023	21:55

	30) 092529.D		8260.M				
	2309136-017A	O-VOC-W		21	1.000	25 Sep 2023	22:25

	31) 092530.D		8260.M				
	2309137-001A	O-VOC-W		22	1.000	25 Sep 2023	22:55

	32) 092531.D		8260.M				
	2309137-022A	O-VOC-W		23	1.000	25 Sep 2023	23:25

	33) 092532.D		8260.M				
	2309137-023A	O-VOC-W		24	1.000	25 Sep 2023	23:55

	34) 092533.D		8260.M				
	2309137-021A	O-VOC-W		25	1.000	26 Sep 2023	00:25

	35) 092534.D		8260.M				
R		O-VOC-W			1.000	26 Sep 2023	00:54

	36) 092535.D		8260.M				
	2309169-007A	O-VOC-W		26	1.000	26 Sep 2023	01:25

	37) 092536.D		8260.M				
	2309169-008A	O-VOC-W		27	1.000	26 Sep 2023	01:55

	38) 092537.D		8260.M				
	2309169-009A	O-VOC-W		28	1.000	26 Sep 2023	02:25

	39) 092538.D		8260.M				
	2309169-010A	O-VOC-W		29	1.000	26 Sep 2023	02:55

	40) 092539.D		8260.M				
	2309169-011A	O-VOC-W		30	1.000	26 Sep 2023	03:25

	41) 092540.D		8260.M				
	2309169-012A	O-VOC-W		31	1.000	26 Sep 2023	03:55

	42) 092541.D		8260.M				
	2309169-019A	O-VOC-W		32	1.000	26 Sep 2023	04:26

	43) 092542.D		8260.M				
	2309169-019ADUP	O-VOC-W		33	1.000	26 Sep 2023	04:56

	44) 092543.D		8260.M				
	2309169-007AMS VOC	O-VOC-W		34	1.000	26 Sep 2023	05:26

	45) 092544.D		8260.M				

2309169-008AMS GX	O-VOC-W		35	1.000	26 Sep 2023	05:56

46) 092545.D	8260.M					
R	O-VOC-W			1.000	26 Sep 2023	06:25

47) 092546.D	8260.M					
VOC W CCV C	O-VOC-W	37		1.000	26 Sep 2023	06:55

48) 092547.D	8260.M					
GX CCV C	O-VOC-W	38		1.000	26 Sep 2023	07:25

49) 092548.D	8260.M					
R	O-VOC-W			1.000	26 Sep 2023	07:54

50) 092549.D	8260.M					
2309362-001A	O-VOC-W	39		1.000	26 Sep 2023	08:25

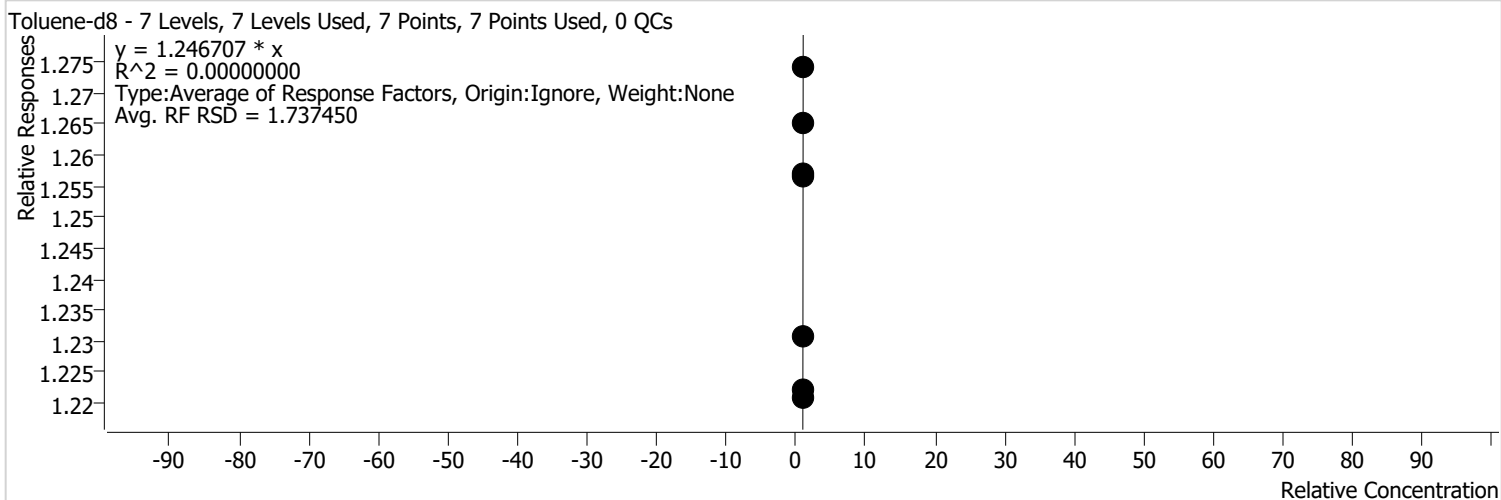


Calibration

Calibration Report

Batch Path	D:\GC-19\Data\092023\QuantResults\GX CAL.batch.bin		
Analysis Time	9/21/2023 8:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 8:22:53 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 8:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Toluene-d8 %RSE =

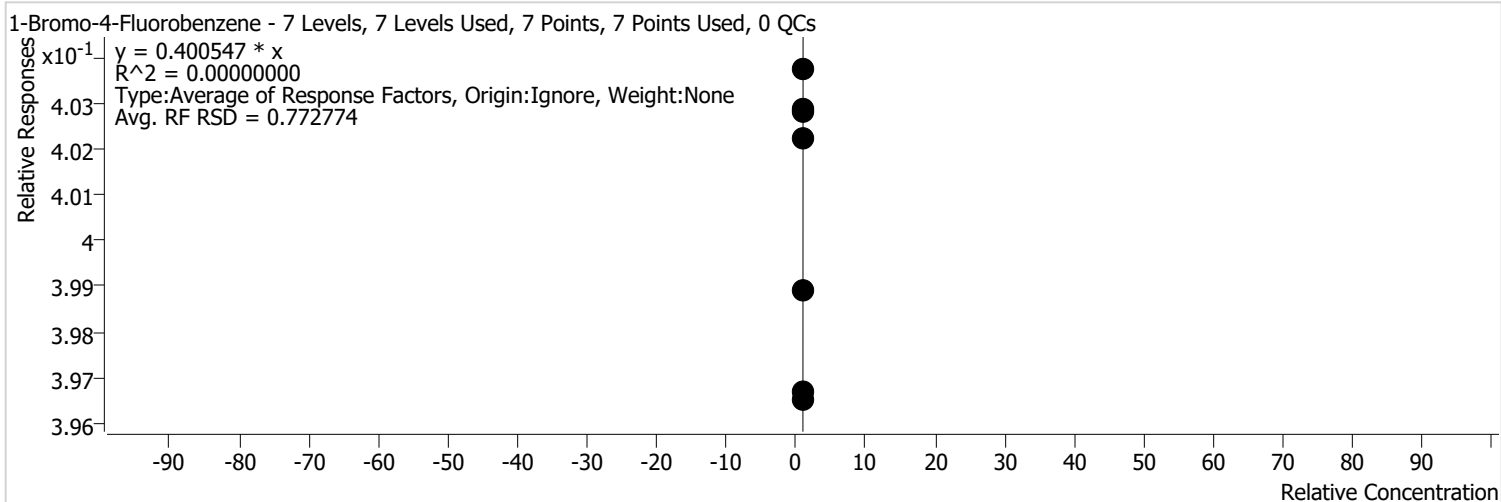


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\092023\092018.D	Calibration	7	x	2363126	25.0000	1.2741	
D:\GC-19\Data\092023\092017.D	Calibration	6	x	2293113	25.0000	1.2652	
D:\GC-19\Data\092023\092016.D	Calibration	5	x	2337721	25.0000	1.2309	
D:\GC-19\Data\092023\092015.D	Calibration	4	x	2282806	25.0000	1.2572	
D:\GC-19\Data\092023\092014.D	Calibration	3	x	2338754	25.0000	1.2565	
D:\GC-19\Data\092023\092013.D	Calibration	2	x	2321142	25.0000	1.2220	
D:\GC-19\Data\092023\092012.D	Calibration	1	x	2394453	25.0000	1.2210	

Calibration Report

Batch Path	D:\GC-19\Data\092023\QuantResults\GX CAL.batch.bin		
Analysis Time	9/21/2023 8:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 8:22:54 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 8:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1-Bromo-4-Fluorobenzene %RSE =



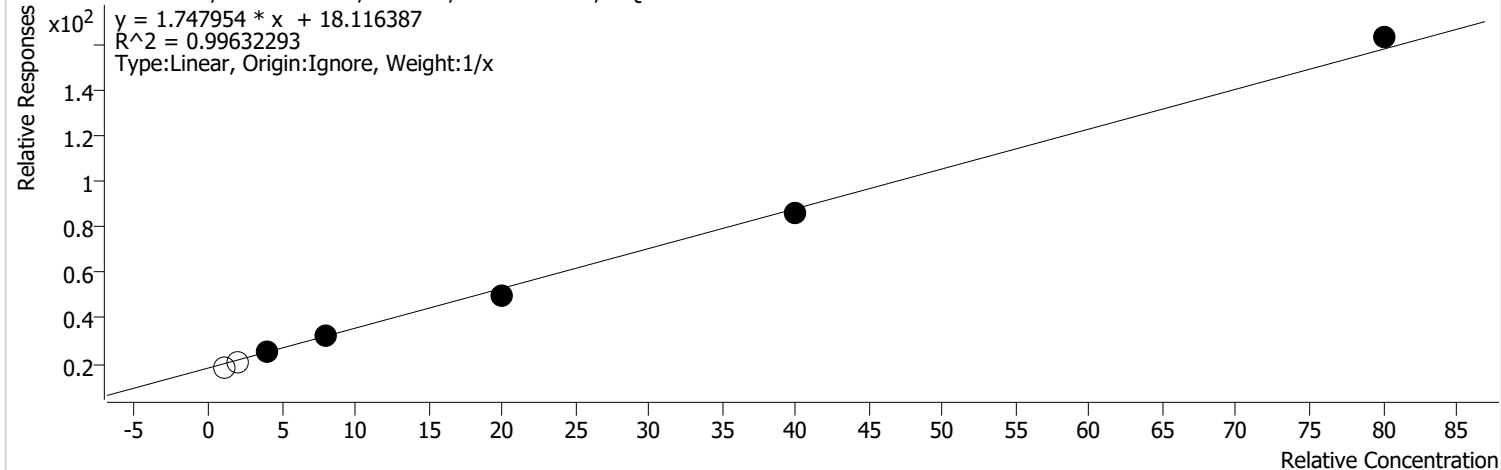
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\092023\092018.D	Calibration	7	x	735731	25.0000	0.3967	
D:\GC-19\Data\092023\092017.D	Calibration	6	x	718703	25.0000	0.3965	
D:\GC-19\Data\092023\092016.D	Calibration	5	x	766786	25.0000	0.4037	
D:\GC-19\Data\092023\092015.D	Calibration	4	x	731510	25.0000	0.4028	
D:\GC-19\Data\092023\092014.D	Calibration	3	x	742518	25.0000	0.3989	
D:\GC-19\Data\092023\092013.D	Calibration	2	x	763959	25.0000	0.4022	
D:\GC-19\Data\092023\092012.D	Calibration	1	x	790078	25.0000	0.4029	

Calibration Report

Batch Path	D:\GC-19\Data\092023\QuantResults\GX CAL.batch.bin		
Analysis Time	9/21/2023 8:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 8:22:54 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 8:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

GASOLINE %RSE = 8.0

GASOLINE - 7 Levels, 5 Levels Used, 7 Points, 5 Points Used, 0 QCs



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\092023\092012.D	Calibration	1		27057575	25.0000	18.6606	
D:\GC-19\Data\092023\092013.D	Calibration	2		29142729	50.0000	10.3595	
D:\GC-19\Data\092023\092014.D	Calibration	3	x	35071581	100.0000	6.4276	
D:\GC-19\Data\092023\092015.D	Calibration	4	x	42980870	200.0000	4.0257	
D:\GC-19\Data\092023\092016.D	Calibration	5	x	72000267	500.0000	2.4870	
D:\GC-19\Data\092023\092017.D	Calibration	6	x	116219873	1000.0000	2.1413	
D:\GC-19\Data\092023\092018.D	Calibration	7	x	227038092	2000.0000	2.0371	

GX Calibration



Date: 9/20/23
 Analyst: CC
 Instrument: GC-19

Cal	ICV
GX Standard: <u>28954</u>	GX Standard: <u>28963</u>

IS/Surrogate 28947

Cal Level	Spike Conc. (ppb)	Cal GX Spike (uL)	ICV GX Spike (uL)	Final Vol. (mL)	Comments
1	25	0.50	--	50	
2	50	1.00	--	50	
3	100	2.00	--	50	
4	200	4.00	--	50	
5	500	10.00	--	50	
6	1000	20.00	--	50	
7	2000	40.00	--	50	
	ICV (500 ppb)	--	10.00	50	

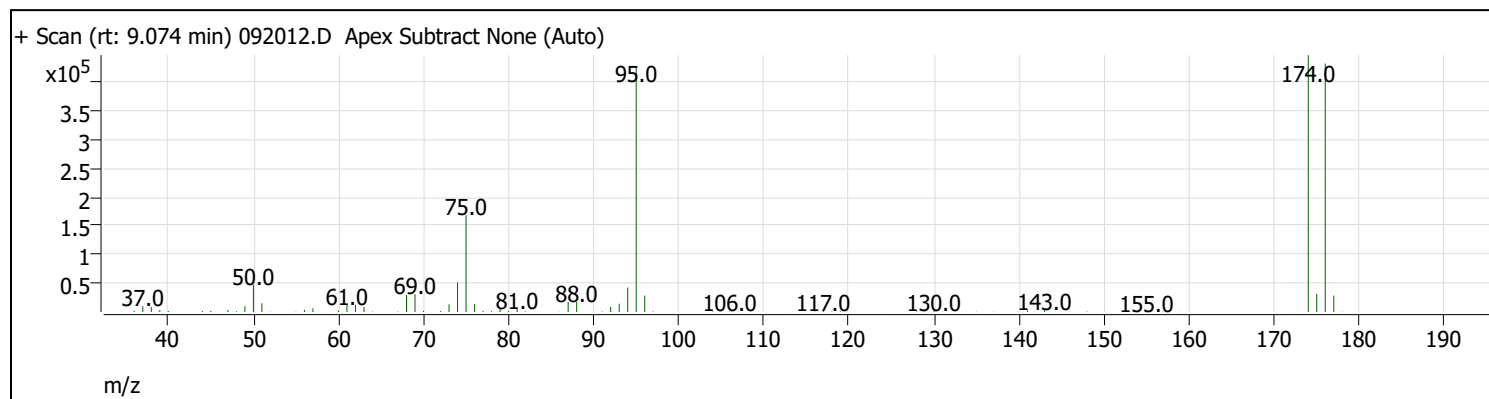
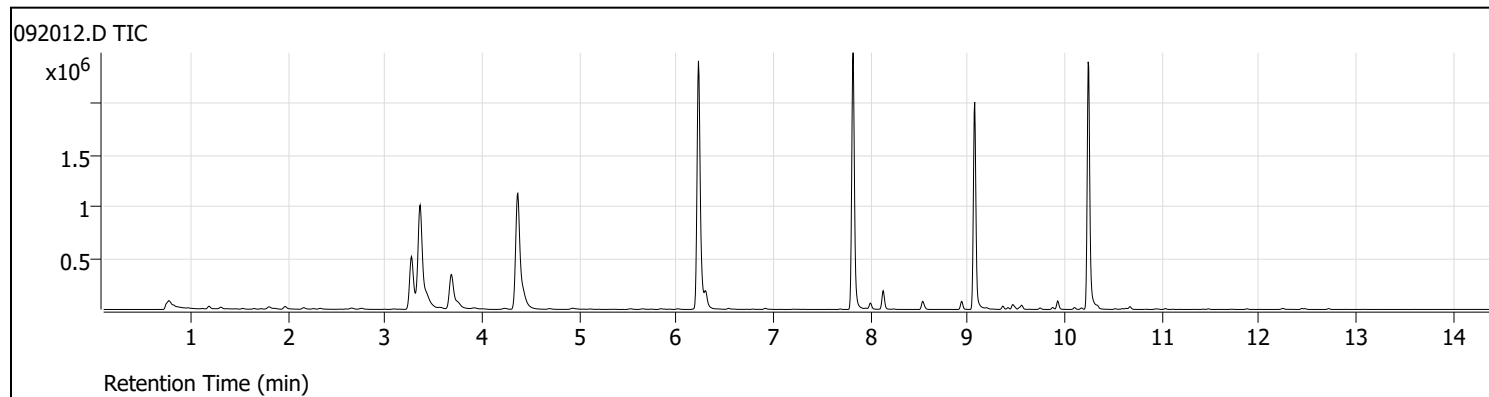
Signature and Date: 9/20/23



Tunes

Tune Evaluation Report

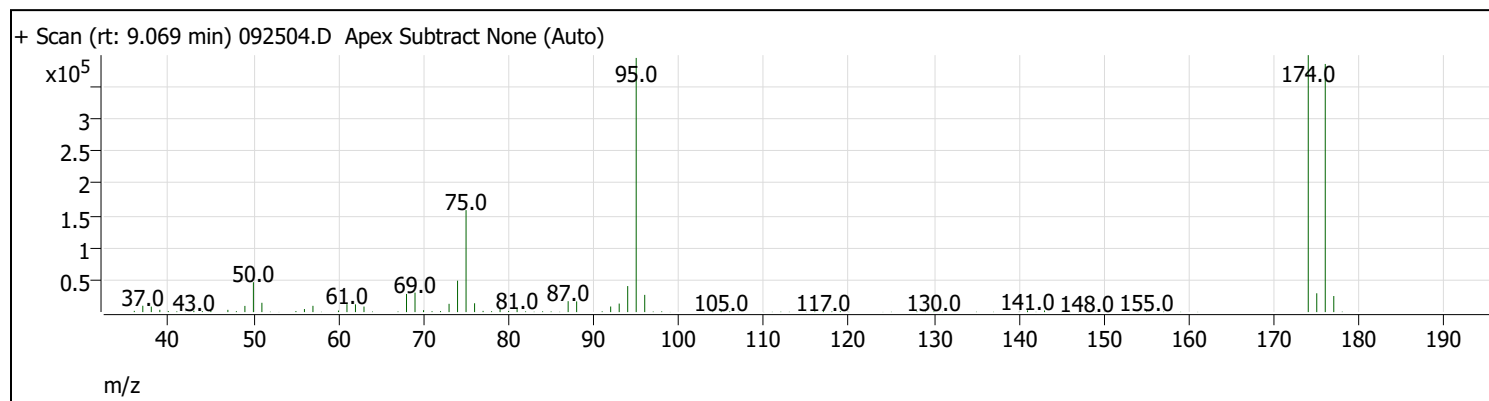
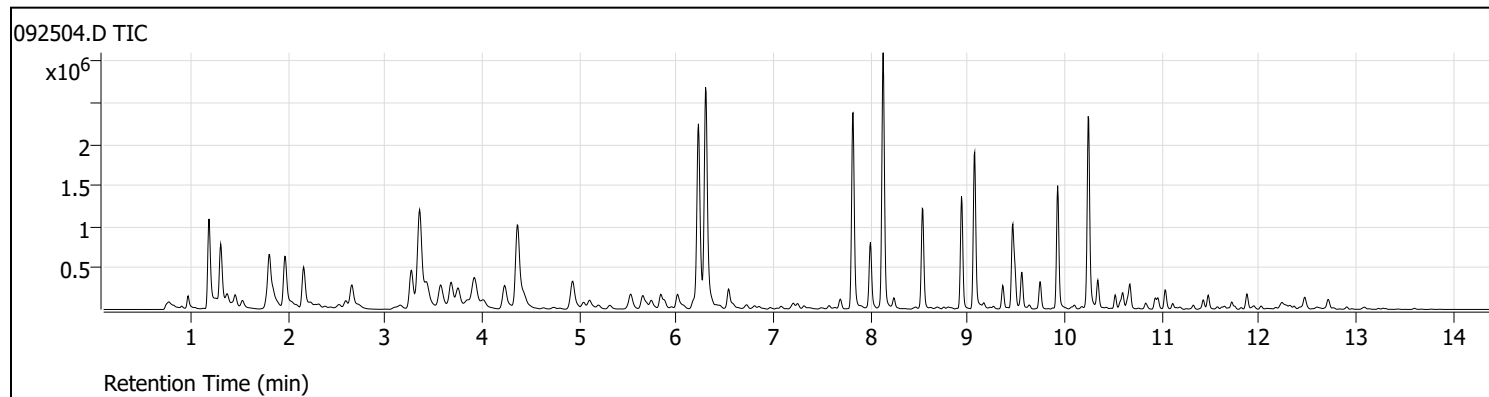
Data Path: D:\GC-19\Data\092023\092012.D
 Acq on: 9/20/2023 2:08:38 PM
 Operator: FA\GC19
 Sample: GX CAL 1
 Inst Name: GC19
 ALS Vial: 5
 Method: D:\MassHunter\Methods\Quant\BFB2021.m



Target Mass	Rel. To Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Pass/Fail
95	174	50	200	95.1	424345	Pass
96	95	5	9	6.7	28514	Pass
173	174	0	2	0.0	0	Pass
174	95	50	200	105.1	446167	Pass
175	174	5	9	7.1	31732	Pass
176	174	95	105	96.7	431457	Pass
177	176	5	10	6.6	28523	Pass

Tune Evaluation Report

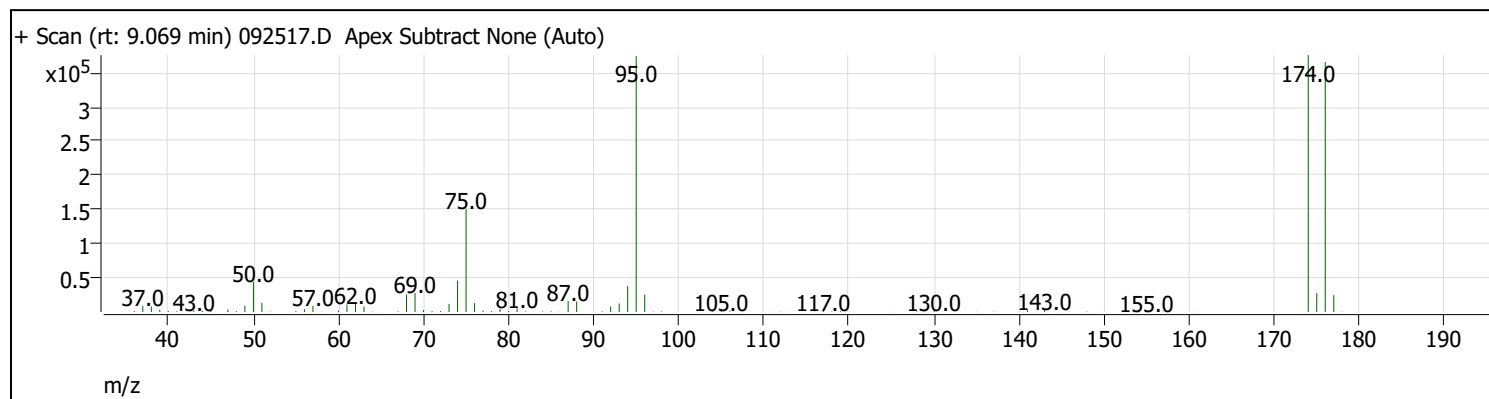
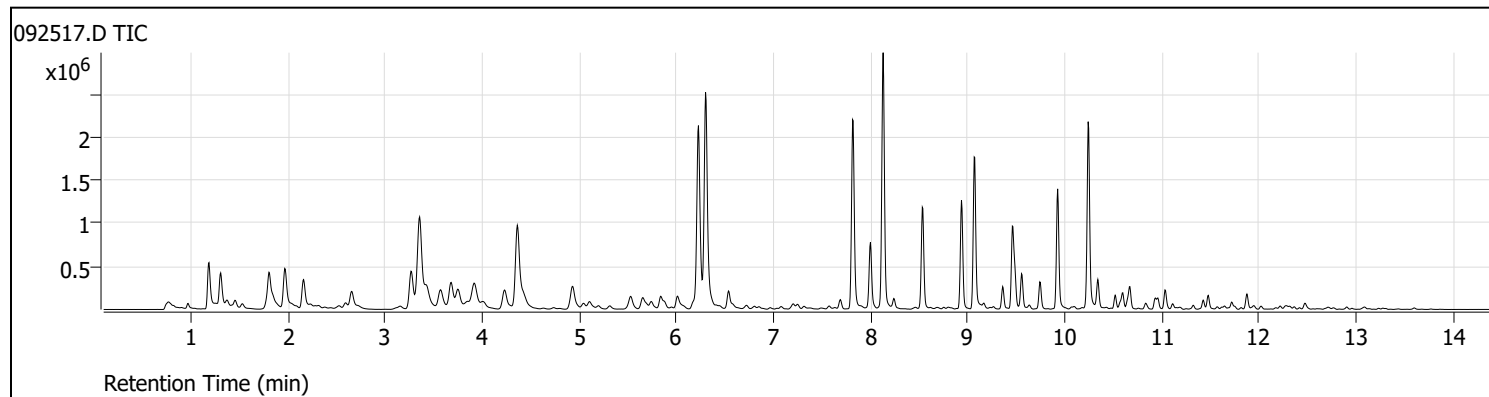
Data Path: D:\GC-19\Data\092523\092504.D
 Acq on: 9/25/2023 9:58:34 AM
 Operator: FA\GC19
 Sample: GX CCV A
 Inst Name: GC19
 ALS Vial: 3
 Method: D:\MassHunter\Methods\Quant\BFB2021.m



Target Mass	Rel. To Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Pass/Fail
95	174	50	200	98.9	395435	Pass
96	95	5	9	6.8	26825	Pass
173	174	0	2	0.0	0	Pass
174	95	50	200	101.1	399743	Pass
175	174	5	9	7.3	29300	Pass
176	174	95	105	96.6	386032	Pass
177	176	5	10	6.5	25013	Pass

Tune Evaluation Report

Data Path: D:\GC-19\Data\092523\092517.D
 Acq on: 9/25/2023 4:28:13 PM
 Operator: FA\GC19
 Sample: GX CCV B
 Inst Name: GC19
 ALS Vial: 14
 Method: D:\MassHunter\Methods\Quant\BFB2021.m



Target Mass	Rel. To Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Pass/Fail
95	174	50	200	99.7	374439	Pass
96	95	5	9	6.8	25635	Pass
173	174	0	2	0.0	0	Pass
174	95	50	200	100.3	375671	Pass
175	174	5	9	7.4	27705	Pass
176	174	95	105	97.3	365628	Pass
177	176	5	10	6.8	24729	Pass



Internal Standards

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-19 230925I CCV Name: GX 86636
 Run No: 86721 CCV SeqNo: 1809420
 Lab File ID (Standard): 092016.D Date Analyzed: 9/20/2023
 Instrument ID: GC-19 Time Analyzed: 16:09
 GC Column: ID (mm): Length (M):

	IS1 (CBZ) AREA #	RT #	IS2 (14DCBZ) AREA #	RT #				
12 HOUR STD	1899197	7.821	1447544	10.249				
UPPER LIMIT	3798394	8.321	2895088	10.749				
LOWER LIMIT	949599	7.321	723772	9.749				
SAMPLE NO.								
01 CCV-41565A	1.82664e+006	7.821	1.38896e+006	10.249				
02 CCV-41565B	1.71876e+006	7.822	1.30059e+006	10.244				
03 CCV-41565C	1.72445e+006	7.821	1.29927e+006	10.243				

IS1 (CBZ) = Chlorobenzene-d5

IS2 (14DCBZ) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-19 230925I CCV Name: CCV-41565A
 Run No: 86721 CCV SeqNo: 1809416
 Lab File ID (Standard): 092504.D Date Analyzed: 9/25/2023
 Instrument ID: GC-19 Time Analyzed: 9:58
 GC Column: ID (mm): Length (M):

	IS1 (CBZ) AREA #	RT #	IS2 (14DCBZ) AREA #	RT #				
12 HOUR STD	1826638	7.821	1388962	10.249				
UPPER LIMIT	3653276	8.321	2777924	10.749				
LOWER LIMIT	913319	7.321	694481	9.749				
SAMPLE NO.								
01 LCS-41565	1.82664e+006	7.821	1.38896e+006	10.249				
02 MB-41565	1.7348e+006	7.816	1.29032e+006	10.254				
03 2309261-001B	1.80345e+006	7.816	1.36813e+006	10.249				
04 2309261-001BDUP	1.756e+006	7.816	1.32509e+006	10.249				
05 2309343-001B	1.7482e+006	7.816	1.33844e+006	10.249				
06 2309343-002B	1.74634e+006	7.816	1.30045e+006	10.249				
07 2309343-003B	1.70968e+006	7.816	1.25529e+006	10.249				
08 2309343-004B	1.72368e+006	7.816	1.28775e+006	10.249				
09 2309343-002BMS	1.74014e+006	7.816	1.3637e+006	10.249				

IS1 (CBZ) = Chlorobenzene-d5

IS2 (14DCBZ) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-19 230925I CCV Name: CCV-41565B
 Run No: 86721 CCV SeqNo: 1809417
 Lab File ID (Standard): 092517.D Date Analyzed: 9/25/2023
 Instrument ID: GC-19 Time Analyzed: 16:28
 GC Column: ID (mm): Length (M):

	IS1 (CBZ) AREA #	RT #	IS2 (14DCBZ) AREA #	RT #				
12 HOUR STD	1718763	7.822	1300585	10.244				
UPPER LIMIT	3437526	8.322	2601170	10.744				
LOWER LIMIT	859382	7.322	650293	9.744				
SAMPLE NO.								
01 2309364-001B	1.78021e+006	7.816	1.35885e+006	10.249				

IS1 (CBZ) = Chlorobenzene-d5

IS2 (14DCBZ) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

DATA SET for Review - Deliverable Requirements

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Fremont Analytical Work Order No. 2309343

GeoEngineers

Project Name: South Jackson Street

Project Number: 24504-001-03

This data set contains the following:

- Analytical Sequence Summary
- Calibration Information
- Tune Information
- Internal Standards Report

Data Directory: C:\GC-14\Data\2023\091423\

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) 091448.D No data found	8270E_SIM_625.M		0.000	N/A
2) 091401.D CO	8270E_SIM_625.M	2	1.000	14 Sep 2023 08:21 am
3) 091402.D INT CHECK	8270E_SIM_625.M	3	1.000	14 Sep 2023 09:02 am
4) 091403.D CCV-NEW TUNE	8270E_SIM_625.M	3	1.000	14 Sep 2023 10:28 am
5) 091404.D 2309081-010A	8270E_SIM_625.M	31	1.000	14 Sep 2023 10:57 am
6) 091405.D 2309081-011A	8270E_SIM_625.M	32	1.000	14 Sep 2023 11:26 am
7) 091406.D QCS	8270E_SIM_625.M	3	1.000	14 Sep 2023 11:55 am
8) 091407.D CO	8270E_SIM_625.M	3	1.000	14 Sep 2023 12:27 pm
9) 091408.D CO	8270E_SIM_625.M	3	1.000	14 Sep 2023 02:18 pm
10) 091409.D tune	8270E_SCAN_625.M	1	1.000	14 Sep 2023 02:47 pm
11) 091410.D PAH 10	8270E_SIM_625.M	12	1.000	14 Sep 2023 03:16 pm
12) 091411.D PAH 20	8270E_SIM_625.M	13	1.000	14 Sep 2023 03:45 pm
13) 091412.D PAH 40	8270E_SIM_625.M	14	1.000	14 Sep 2023 04:15 pm
14) 091413.D PAH 100	8270E_SIM_625.M	15	1.000	14 Sep 2023 04:44 pm
15) 091414.D PAH 200	8270E_SIM_625.M	16	1.000	14 Sep 2023 05:13 pm
16) 091415.D PAH 400	8270E_SIM_625.M	17	1.000	14 Sep 2023 05:42 pm
17) 091416.D PAH 750	8270E_SIM_625.M	18	1.000	14 Sep 2023 06:12 pm
18) 091417.D PAH 1000	8270E_SIM_625.M	19	1.000	14 Sep 2023 06:41 pm
19) 091418.D PAH 2000	8270E_SIM_625.M	20	1.000	14 Sep 2023 07:10 pm
20) 091419.D PAH 5000	8270E_SIM_625.M	21	1.000	14 Sep 2023 07:40 pm
21) 091420.D PAH ICB	8270E_SIM_625.M	22	1.000	14 Sep 2023 08:09 pm

22)	091421.D	8270E_SIM_625.M	23	1.000	14 Sep 2023	08:38	pm

23)	091422.D	8270E_SCAN_625.M	1	1.000	14 Sep 2023	09:07	pm

24)	091423.D	8270E_SIM_625_LOWLEVEL.M	11	1.000	14 Sep 2023	09:36	pm

25)	091424.D	8270E_SIM_625_LOWLEVEL.M	12	1.000	14 Sep 2023	10:05	pm

26)	091425.D	8270E_SIM_625_LOWLEVEL.M	13	1.000	14 Sep 2023	10:34	pm

27)	091426.D	8270E_SIM_625_LOWLEVEL.M	14	1.000	14 Sep 2023	11:03	pm

28)	091427.D	8270E_SIM_625_LOWLEVEL.M	15	1.000	14 Sep 2023	11:32	pm

29)	091428.D	8270E_SIM_625_LOWLEVEL.M	16	1.000	15 Sep 2023	12:01	am

30)	091429.D	8270E_SIM_625_LOWLEVEL.M	17	1.000	15 Sep 2023	12:30	am

31)	091430.D	8270E_SIM_625_LOWLEVEL.M	18	1.000	15 Sep 2023	12:59	am

32)	091431.D	8270E_SIM_625_LOWLEVEL.M	19	1.000	15 Sep 2023	01:28	am

33)	091432.D	8270E_SIM_625_LOWLEVEL.M	20	1.000	15 Sep 2023	01:57	am

34)	091433.D	8270E_SIM_625_LOWLEVEL.M	21	1.000	15 Sep 2023	02:26	am

35)	091434.D	8270E_SIM_625_LOWLEVEL.M	23	1.000	15 Sep 2023	02:55	am

36)	091435.D	8270E_SIM_625_LOWLEVEL.M	22	1.000	15 Sep 2023	03:24	am

37)	091436.D	8270E_SIM_625.M	2	1.000	15 Sep 2023	03:53	am

38)	091437.D	8270E_SIM_625.M	31	1.000	15 Sep 2023	04:22	am

39)	091438.D	8270E_SIM_625.M	32	1.000	15 Sep 2023	04:51	am

40)	091439.D	8270E_SIM_625.M	33	1.000	15 Sep 2023	05:20	am

41)	091440.D	8270E_SIM_625.M	34	1.000	15 Sep 2023	05:49	am

42)	091441.D	8270E_SIM_625.M	35	1.000	15 Sep 2023	06:17	am

43)	091442.D	8270E_SIM_625.M	36	1.000	15 Sep 2023	06:46	am

44)	091443.D	8270E_SIM_625.M	37	1.000	15 Sep 2023	07:15	am

45)	091444.D	8270E_SCAN_625.M					

tune 1 1.000 15 Sep 2023 08:11 am

46) 091445.D 8270E_SIM_625.M
CCV 2 1.000 15 Sep 2023 08:39 am

47) 091446.D 8270E_SIM_625.M
MB-41447 31 1.000 15 Sep 2023 09:08 am

48) 091447.D 8270E_SIM_625.M
LCS-41447 32 1.000 15 Sep 2023 09:37 am

Data Directory: C:\GC-14\Data\2023\092623\

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) 092601.D CO	8270E_SIM_625.M	2	1.000	26 Sep 2023 02:13 pm
2) 092602.D tune	8270E_SCAN_625.M	1	1.000	26 Sep 2023 02:42 pm
3) 092603.D CCV	8270E_SIM_625.M	2	1.000	26 Sep 2023 03:10 pm
4) 092604.D CCV-LL	8270E_SIM_625_LOWLEVEL.M	2	1.000	26 Sep 2023 04:37 pm
5) 092605.D MB-41563	8270E_SIM_625_LOWLEVEL.M	61	1.000	26 Sep 2023 05:06 pm
6) 092606.D LCS-41563	8270E_SIM_625_LOWLEVEL.M	62	1.000	26 Sep 2023 05:35 pm
7) 092607.D LCS-LL-41563	8270E_SIM_625_LOWLEVEL.M	63	1.000	26 Sep 2023 06:04 pm
8) 092608.D 2309109-002A	8270E_SIM_625_LOWLEVEL.M	64	1.000	26 Sep 2023 06:33 pm
9) 092609.D 2309287-001A	8270E_SIM_625_LOWLEVEL.M	65	1.000	26 Sep 2023 07:02 pm
10) 092610.D 2309287-001ADUP	8270E_SIM_625_LOWLEVEL.M	66	1.000	26 Sep 2023 07:31 pm
11) 092611.D CCV-LL	8270E_SIM_625_LOWLEVEL.M	2	1.000	26 Sep 2023 07:59 pm
12) 092612.D tune	8270E_SCAN_625.M	1	1.000	26 Sep 2023 08:28 pm
13) 092613.D CCV	8270E_SIM_625.M	2	1.000	26 Sep 2023 08:57 pm
14) 092614.D 2309234-037C	8270E_SIM_625.M	67	1.000	26 Sep 2023 09:26 pm
15) 092615.D MB-41588	8270E_SIM_625.M	71	1.000	26 Sep 2023 09:54 pm
16) 092616.D LCS-41588	8270E_SIM_625.M	72	1.000	26 Sep 2023 10:23 pm
17) 092617.D 2309234-061A	8270E_SIM_625.M	73	1.000	26 Sep 2023 10:52 pm
18) 092618.D 2309234-061AMS	8270E_SIM_625.M	74	1.000	26 Sep 2023 11:21 pm
19) 092619.D 2309234-061AMSD	8270E_SIM_625.M	75	1.000	26 Sep 2023 11:50 pm
20) 092620.D 2309234-063A	8270E_SIM_625.M	76	1.000	27 Sep 2023 12:19 am
21) 092621.D 2309261-001A	8270E_SIM_625.M	77	1.000	27 Sep 2023 12:48 am

22) 092622.D	8270E_SIM_625.M	78	1.000	27 Sep 2023	01:17 am
2309275-001A					
23) 092623.D	8270E_SIM_625.M	79	1.000	27 Sep 2023	01:45 am
2309297-002A					
24) 092624.D	8270E_SIM_625.M	80	1.000	27 Sep 2023	02:14 am
2309343-001A					
25) 092625.D	8270E_SIM_625.M	81	1.000	27 Sep 2023	02:43 am
2309343-002A					
26) 092626.D	8270E_SIM_625.M	82	1.000	27 Sep 2023	03:12 am
2309343-003A					
27) 092627.D	8270E_SIM_625.M	83	1.000	27 Sep 2023	03:41 am
2309343-004A					
28) 092628.D	8270E_SIM_625.M	84	1.000	27 Sep 2023	04:10 am
2309387-001A					
29) 092629.D	8270E_SIM_625.M	2	1.000	27 Sep 2023	04:39 am
CCV					
30) 092703.D	8270E_SIM_625.M	2	1.000	27 Sep 2023	09:51 am
CCV					
31) 092706.D	8270E_SIM_625.M	10	1.000	27 Sep 2023	11:25 am
2309387-001A re-vial					
32) 092707.D	8270E_SIM_625.M	2	1.000	27 Sep 2023	11:54 am
CCV					

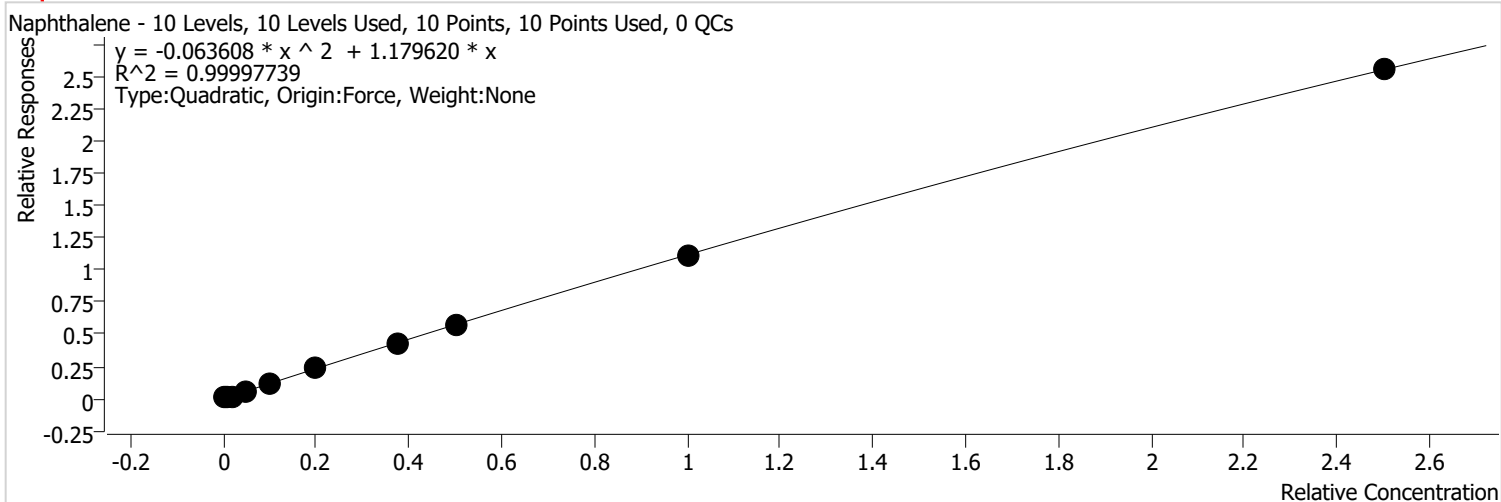


Calibration

Calibration Report

Batch Path	C:\GC-14\Data\2023\091423\QuantResults\ccv.batch.bin		
Analysis Time	9/15/2023 9:55 AM	Analyst Name	FA\GC14
Report Time	9/15/2023 9:58:47 AM	Reporter Name	FA\GC14
Last Calib Update	9/15/2023 9:54 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Naphthalene %RSE = 6.0



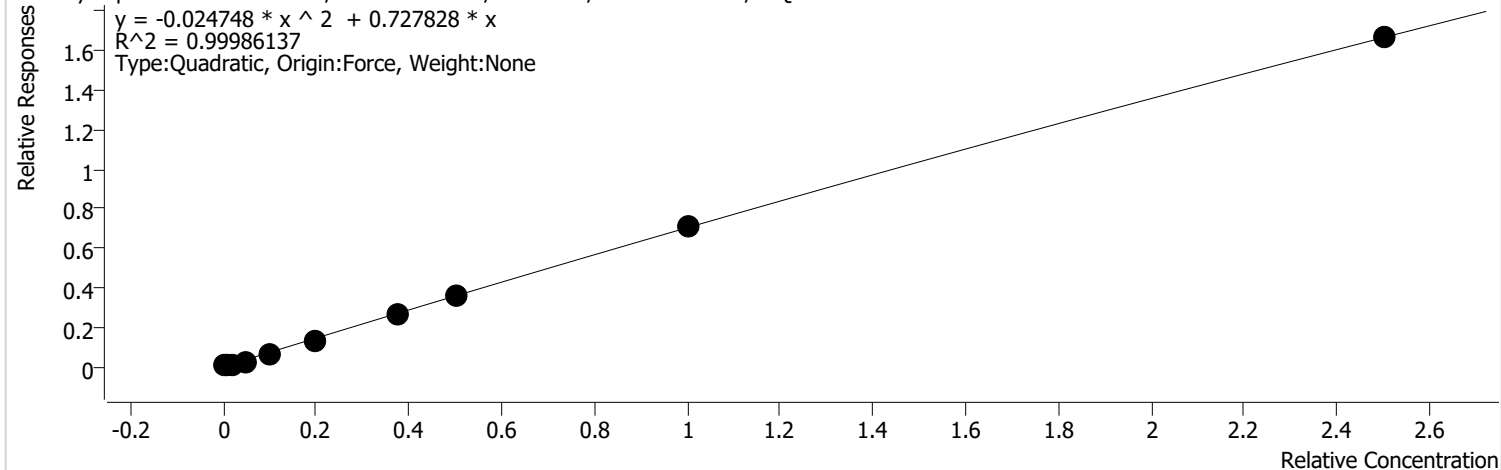
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C:\GC-14\Data\2023\091423\091411.D	Calibration	2	x	5277	20.0000	1.1013	
C:\GC-14\Data\2023\091423\091412.D	Calibration	3	x	10312	40.0000	1.1048	
C:\GC-14\Data\2023\091423\091413.D	Calibration	4	x	24754	100.0000	1.0472	
C:\GC-14\Data\2023\091423\091414.D	Calibration	5	x	51573	200.0000	1.0968	
C:\GC-14\Data\2023\091423\091415.D	Calibration	6	x	107163	400.0000	1.1676	
C:\GC-14\Data\2023\091423\091416.D	Calibration	7	x	201924	750.0000	1.1615	
C:\GC-14\Data\2023\091423\091417.D	Calibration	8	x	283079	1000.0000	1.1562	
C:\GC-14\Data\2023\091423\091418.D	Calibration	9	x	549613	2000.0000	1.1139	
C:\GC-14\Data\2023\091423\091419.D	Calibration	10	x	1317098	5000.0000	1.0207	

Calibration Report

Batch Path	C:\GC-14\Data\2023\091423\QuantResults\ccv.batch.bin		
Analysis Time	9/15/2023 9:55 AM	Analyst Name	FA\GC14
Report Time	9/15/2023 9:58:49 AM	Reporter Name	FA\GC14
Last Calib Update	9/15/2023 9:54 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

2-Methylnaphthalene %RSE = 15.6

2-Methylnaphthalene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



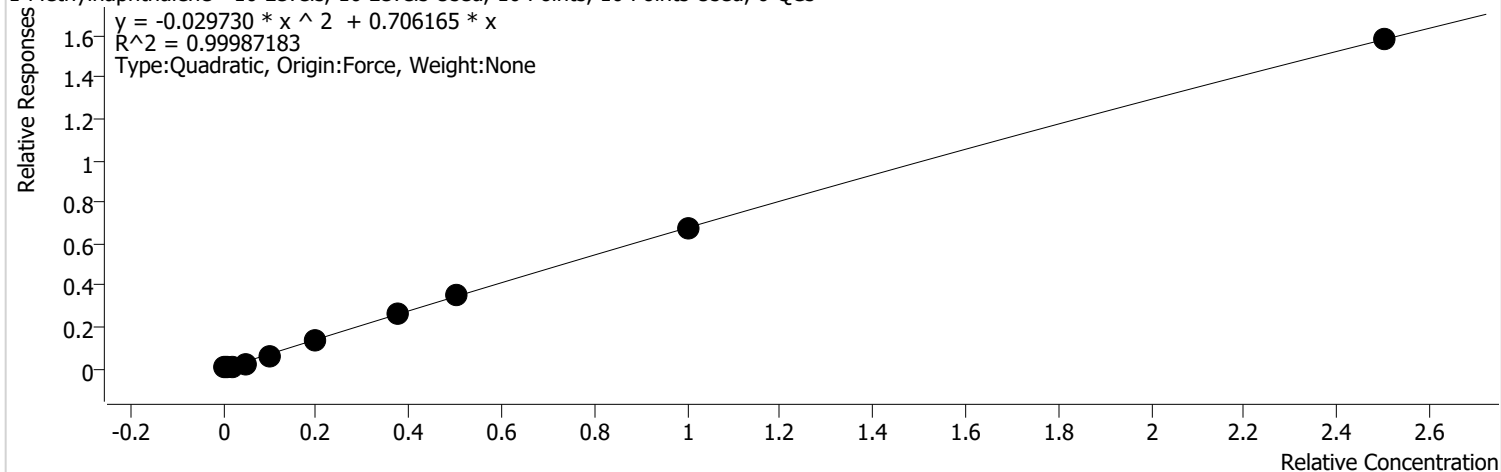
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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C:\GC-14\Data\2023\091423\091412.D	Calibration	3	x	5503	40.0000	0.5896	
C:\GC-14\Data\2023\091423\091413.D	Calibration	4	x	13591	100.0000	0.5749	
C:\GC-14\Data\2023\091423\091414.D	Calibration	5	x	28783	200.0000	0.6121	
C:\GC-14\Data\2023\091423\091415.D	Calibration	6	x	62353	400.0000	0.6794	
C:\GC-14\Data\2023\091423\091416.D	Calibration	7	x	122983	750.0000	0.7074	
C:\GC-14\Data\2023\091423\091417.D	Calibration	8	x	175531	1000.0000	0.7169	
C:\GC-14\Data\2023\091423\091418.D	Calibration	9	x	350351	2000.0000	0.7100	
C:\GC-14\Data\2023\091423\091419.D	Calibration	10	x	858879	5000.0000	0.6656	

Calibration Report

Batch Path	C:\GC-14\Data\2023\091423\QuantResults\ccv.batch.bin		
Analysis Time	9/15/2023 9:55 AM	Analyst Name	FA\GC14
Report Time	9/15/2023 9:58:49 AM	Reporter Name	FA\GC14
Last Calib Update	9/15/2023 9:54 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1-Methylnaphthalene %RSE = 18.3

1-Methylnaphthalene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs

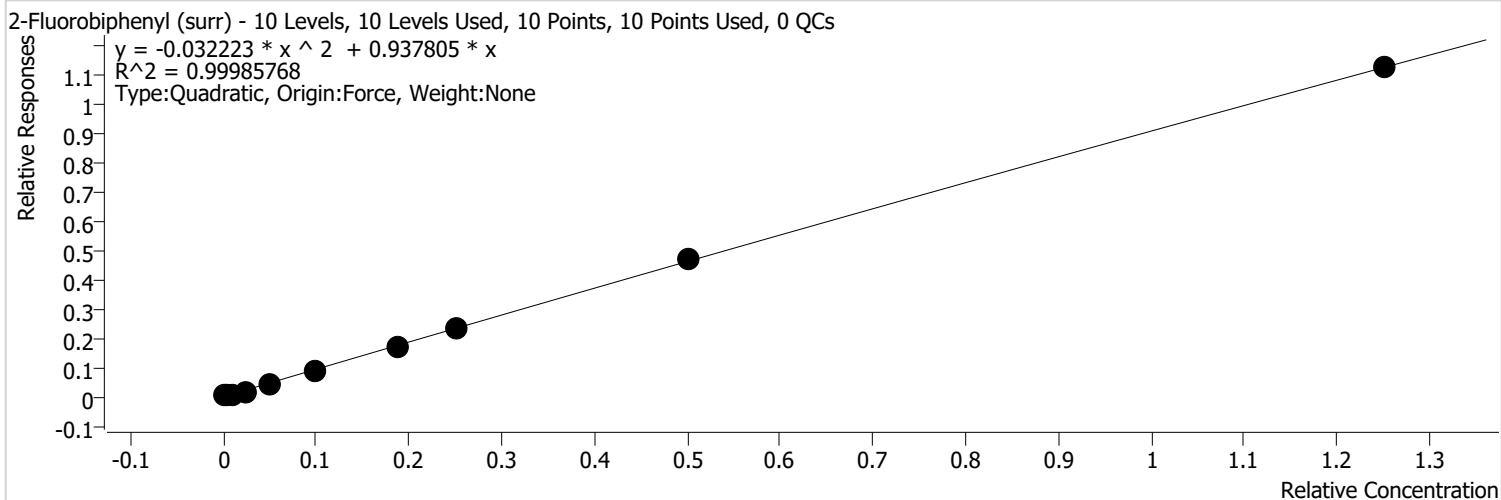


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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C:\GC-14\Data\2023\091423\091412.D	Calibration	3	x	5103	40.0000	0.5467	
C:\GC-14\Data\2023\091423\091413.D	Calibration	4	x	12716	100.0000	0.5379	
C:\GC-14\Data\2023\091423\091414.D	Calibration	5	x	27436	200.0000	0.5835	
C:\GC-14\Data\2023\091423\091415.D	Calibration	6	x	61467	400.0000	0.6697	
C:\GC-14\Data\2023\091423\091416.D	Calibration	7	x	120616	750.0000	0.6938	
C:\GC-14\Data\2023\091423\091417.D	Calibration	8	x	170968	1000.0000	0.6983	
C:\GC-14\Data\2023\091423\091418.D	Calibration	9	x	335019	2000.0000	0.6790	
C:\GC-14\Data\2023\091423\091419.D	Calibration	10	x	815108	5000.0000	0.6317	

Calibration Report

Batch Path	C:\GC-14\Data\2023\091423\QuantResults\ccv.batch.bin		
Analysis Time	9/15/2023 9:55 AM	Analyst Name	FA\GC14
Report Time	9/15/2023 9:58:49 AM	Reporter Name	FA\GC14
Last Calib Update	9/15/2023 9:54 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

2-Fluorobiphenyl (surr) %RSE =



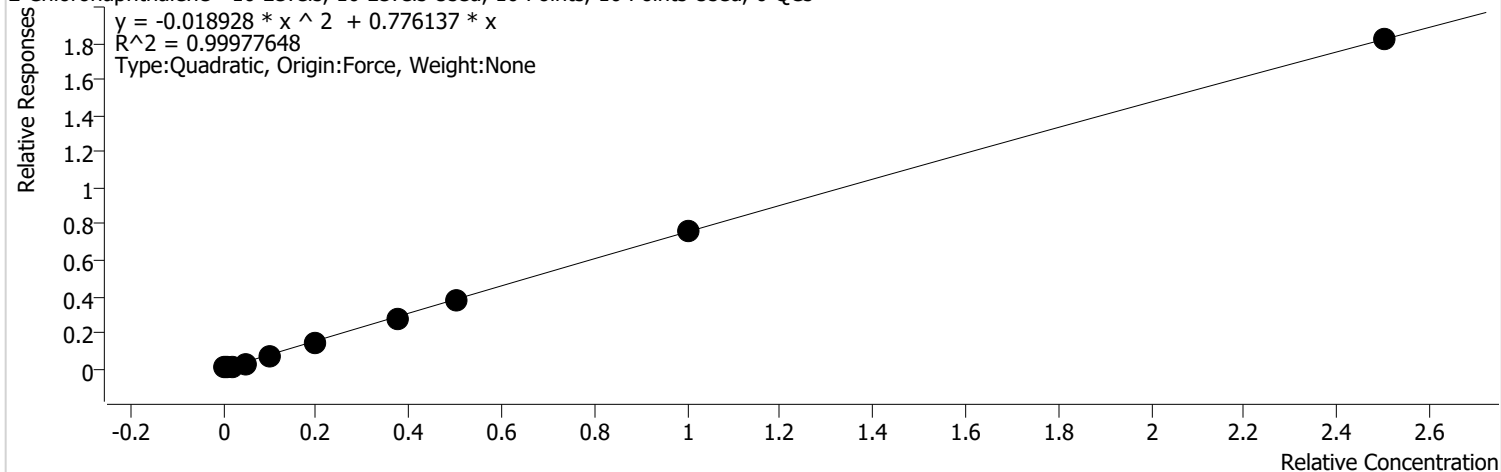
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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C:\GC-14\Data\2023\091423\091411.D	Calibration	2	x	1866	10.0000	0.7790	
C:\GC-14\Data\2023\091423\091412.D	Calibration	3	x	3560	20.0000	0.7628	
C:\GC-14\Data\2023\091423\091413.D	Calibration	4	x	8552	50.0000	0.7236	
C:\GC-14\Data\2023\091423\091414.D	Calibration	5	x	18253	100.0000	0.7764	
C:\GC-14\Data\2023\091423\091415.D	Calibration	6	x	40311	200.0000	0.8784	
C:\GC-14\Data\2023\091423\091416.D	Calibration	7	x	79906	375.0000	0.9192	
C:\GC-14\Data\2023\091423\091417.D	Calibration	8	x	113740	500.0000	0.9291	
C:\GC-14\Data\2023\091423\091418.D	Calibration	9	x	229797	1000.0000	0.9314	
C:\GC-14\Data\2023\091423\091419.D	Calibration	10	x	578757	2500.0000	0.8970	

Calibration Report

Batch Path	C:\GC-14\Data\2023\091423\QuantResults\ccv.batch.bin		
Analysis Time	9/15/2023 9:55 AM	Analyst Name	FA\GC14
Report Time	9/15/2023 9:58:49 AM	Reporter Name	FA\GC14
Last Calib Update	9/15/2023 9:54 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

2-Chloronaphthalene %RSE = 21.5

2-Chloronaphthalene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs

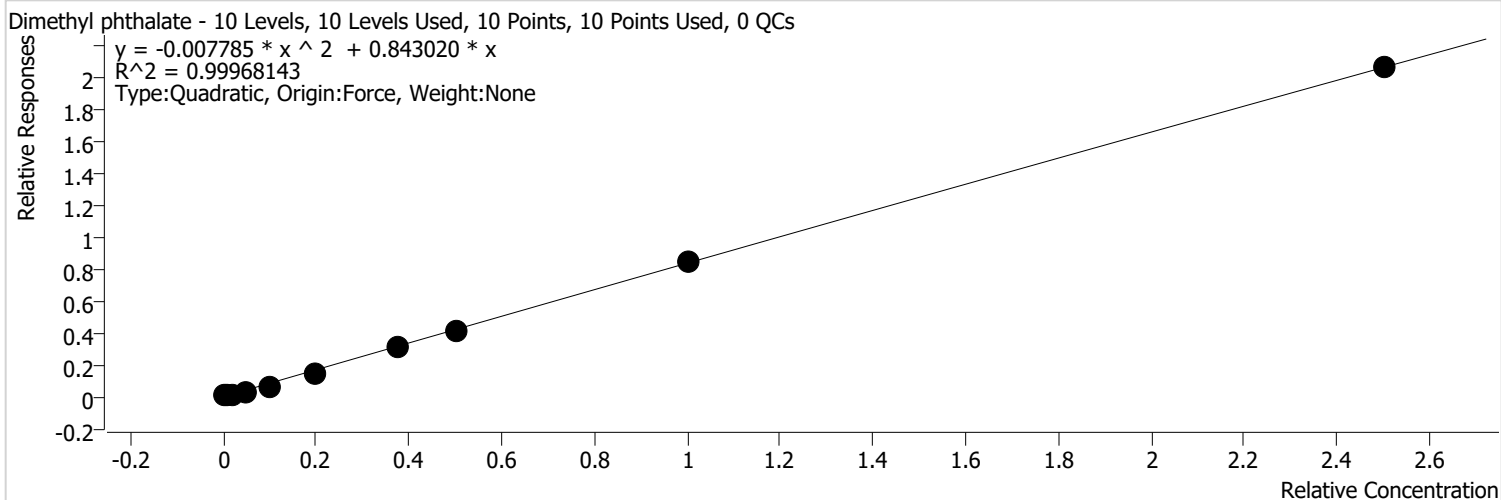


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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C:\GC-14\Data\2023\091423\091412.D	Calibration	3	x	5443	40.0000	0.5832	
C:\GC-14\Data\2023\091423\091413.D	Calibration	4	x	13624	100.0000	0.5763	
C:\GC-14\Data\2023\091423\091414.D	Calibration	5	x	29311	200.0000	0.6234	
C:\GC-14\Data\2023\091423\091415.D	Calibration	6	x	65235	400.0000	0.7108	
C:\GC-14\Data\2023\091423\091416.D	Calibration	7	x	130660	750.0000	0.7516	
C:\GC-14\Data\2023\091423\091417.D	Calibration	8	x	187831	1000.0000	0.7671	
C:\GC-14\Data\2023\091423\091418.D	Calibration	9	x	378810	2000.0000	0.7677	
C:\GC-14\Data\2023\091423\091419.D	Calibration	10	x	939755	5000.0000	0.7282	

Calibration Report

Batch Path	C:\GC-14\Data\2023\091423\QuantResults\ccv.batch.bin		
Analysis Time	9/15/2023 9:55 AM	Analyst Name	FA\GC14
Report Time	9/15/2023 9:58:49 AM	Reporter Name	FA\GC14
Last Calib Update	9/15/2023 9:54 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Dimethyl phthalate %RSE = 20.8



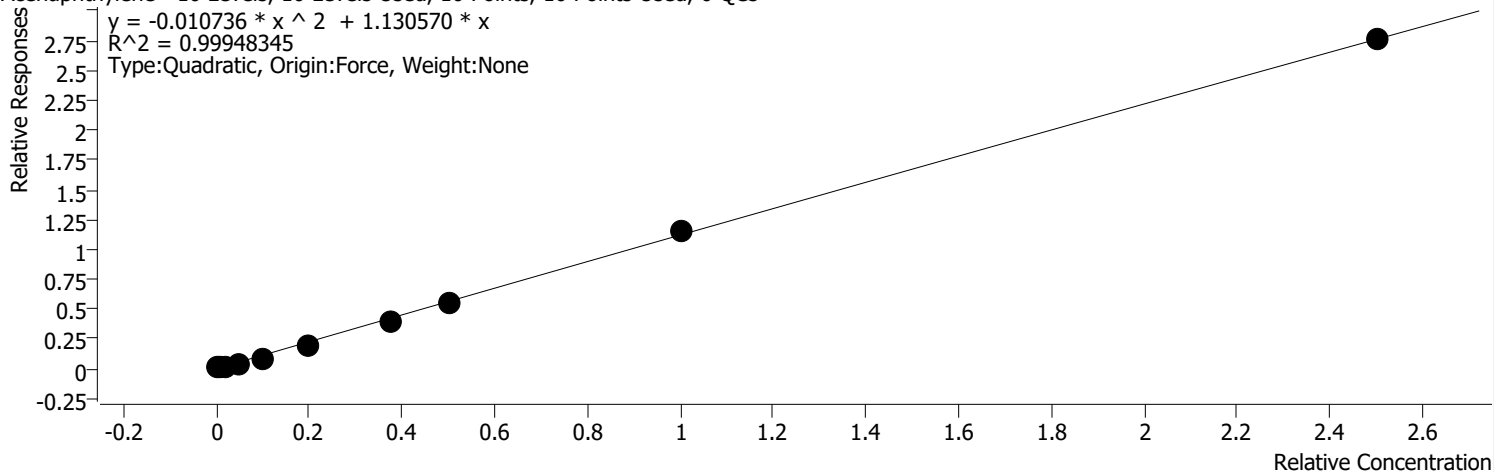
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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C:\GC-14\Data\2023\091423\091412.D	Calibration	3	x	5780	40.0000	0.6193	
C:\GC-14\Data\2023\091423\091413.D	Calibration	4	x	14326	100.0000	0.6060	
C:\GC-14\Data\2023\091423\091414.D	Calibration	5	x	30653	200.0000	0.6519	
C:\GC-14\Data\2023\091423\091415.D	Calibration	6	x	69070	400.0000	0.7526	
C:\GC-14\Data\2023\091423\091416.D	Calibration	7	x	141933	750.0000	0.8164	
C:\GC-14\Data\2023\091423\091417.D	Calibration	8	x	204269	1000.0000	0.8343	
C:\GC-14\Data\2023\091423\091418.D	Calibration	9	x	420019	2000.0000	0.8512	
C:\GC-14\Data\2023\091423\091419.D	Calibration	10	x	1061662	5000.0000	0.8227	

Calibration Report

Batch Path	C:\GC-14\Data\2023\091423\QuantResults\ccv.batch.bin		
Analysis Time	9/15/2023 9:55 AM	Analyst Name	FA\GC14
Report Time	9/15/2023 9:58:49 AM	Reporter Name	FA\GC14
Last Calib Update	9/15/2023 9:54 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Acenaphthylene %RSE = 26.7

Acenaphthylene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



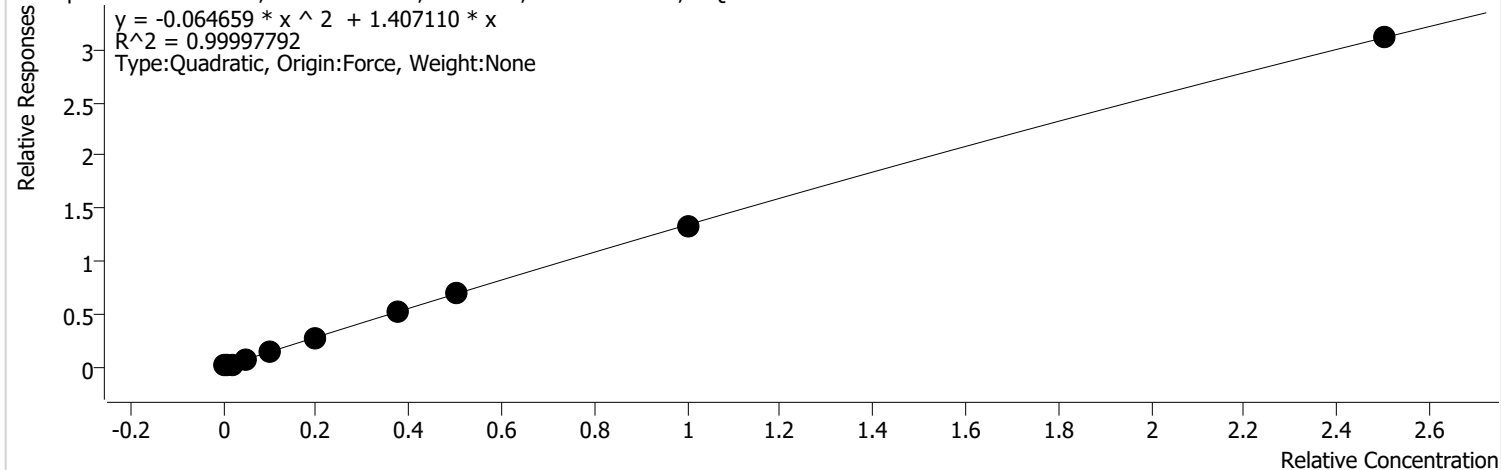
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C:\GC-14\Data\2023\091423\091414.D	Calibration	5	x	39352	200.0000	0.8369	
C:\GC-14\Data\2023\091423\091415.D	Calibration	6	x	89549	400.0000	0.9757	
C:\GC-14\Data\2023\091423\091416.D	Calibration	7	x	186147	750.0000	1.0707	
C:\GC-14\Data\2023\091423\091417.D	Calibration	8	x	274246	1000.0000	1.1201	
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Calibration Report

Batch Path	C:\GC-14\Data\2023\091423\QuantResults\ccv.batch.bin		
Analysis Time	9/15/2023 9:55 AM	Analyst Name	FA\GC14
Report Time	9/15/2023 9:58:49 AM	Reporter Name	FA\GC14
Last Calib Update	9/15/2023 9:54 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Acenaphthene %RSE = 5.6

Acenaphthene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



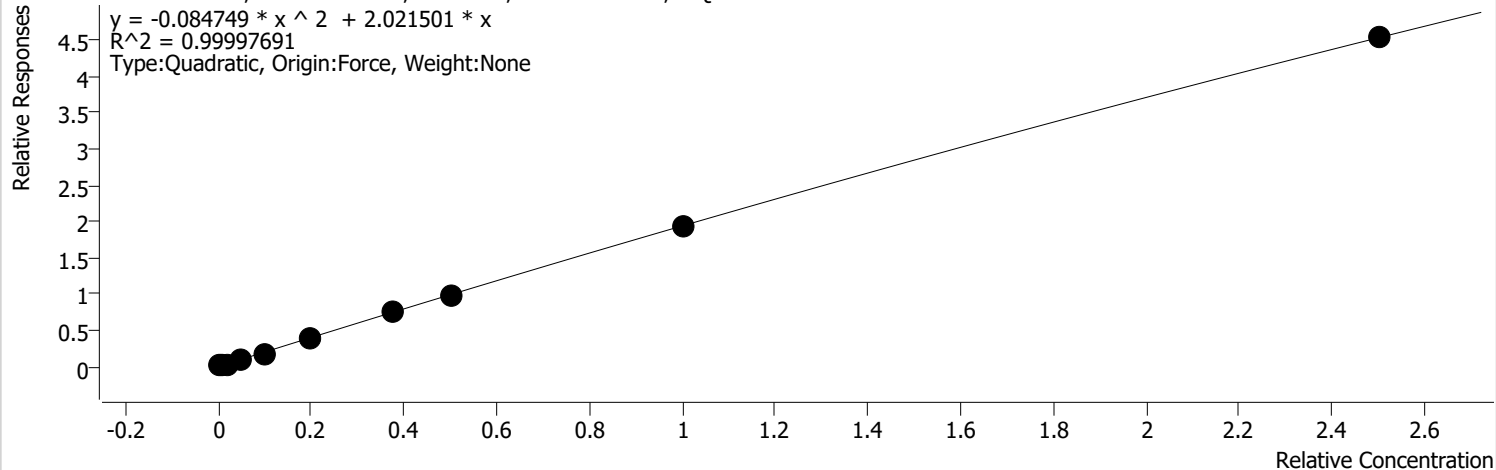
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C:\GC-14\Data\2023\091423\091412.D	Calibration	3	x	5747	40.0000	1.3194	
C:\GC-14\Data\2023\091423\091413.D	Calibration	4	x	14104	100.0000	1.2623	
C:\GC-14\Data\2023\091423\091414.D	Calibration	5	x	30225	200.0000	1.3166	
C:\GC-14\Data\2023\091423\091415.D	Calibration	6	x	66761	400.0000	1.4053	
C:\GC-14\Data\2023\091423\091416.D	Calibration	7	x	132847	750.0000	1.3976	
C:\GC-14\Data\2023\091423\091417.D	Calibration	8	x	188730	1000.0000	1.3817	
C:\GC-14\Data\2023\091423\091418.D	Calibration	9	x	373005	2000.0000	1.3385	
C:\GC-14\Data\2023\091423\091419.D	Calibration	10	x	909740	5000.0000	1.2456	

Calibration Report

Batch Path	C:\GC-14\Data\2023\091423\QuantResults\ccv.batch.bin		
Analysis Time	9/15/2023 9:55 AM	Analyst Name	FA\GC14
Report Time	9/15/2023 9:58:49 AM	Reporter Name	FA\GC14
Last Calib Update	9/15/2023 9:54 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Dibenzofuran %RSE = 7.7

Dibenzofuran - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



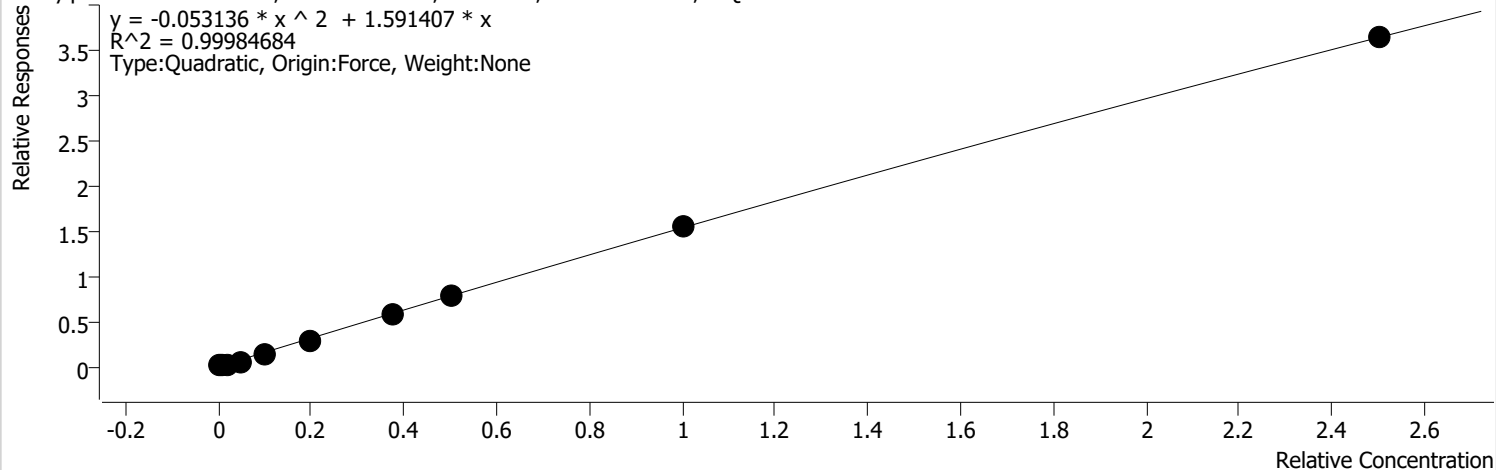
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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C:\GC-14\Data\2023\091423\091412.D	Calibration	3	x	7990	40.0000	1.8343	
C:\GC-14\Data\2023\091423\091413.D	Calibration	4	x	19931	100.0000	1.7839	
C:\GC-14\Data\2023\091423\091414.D	Calibration	5	x	42831	200.0000	1.8657	
C:\GC-14\Data\2023\091423\091415.D	Calibration	6	x	94803	400.0000	1.9956	
C:\GC-14\Data\2023\091423\091416.D	Calibration	7	x	189012	750.0000	1.9885	
C:\GC-14\Data\2023\091423\091417.D	Calibration	8	x	272067	1000.0000	1.9919	
C:\GC-14\Data\2023\091423\091418.D	Calibration	9	x	539726	2000.0000	1.9368	
C:\GC-14\Data\2023\091423\091419.D	Calibration	10	x	1321614	5000.0000	1.8095	

Calibration Report

Batch Path	C:\GC-14\Data\2023\091423\QuantResults\ccv.batch.bin		
Analysis Time	9/15/2023 9:55 AM	Analyst Name	FA\GC14
Report Time	9/15/2023 9:58:49 AM	Reporter Name	FA\GC14
Last Calib Update	9/15/2023 9:54 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Diethylphthalate %RSE = 14.0

Diethylphthalate - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



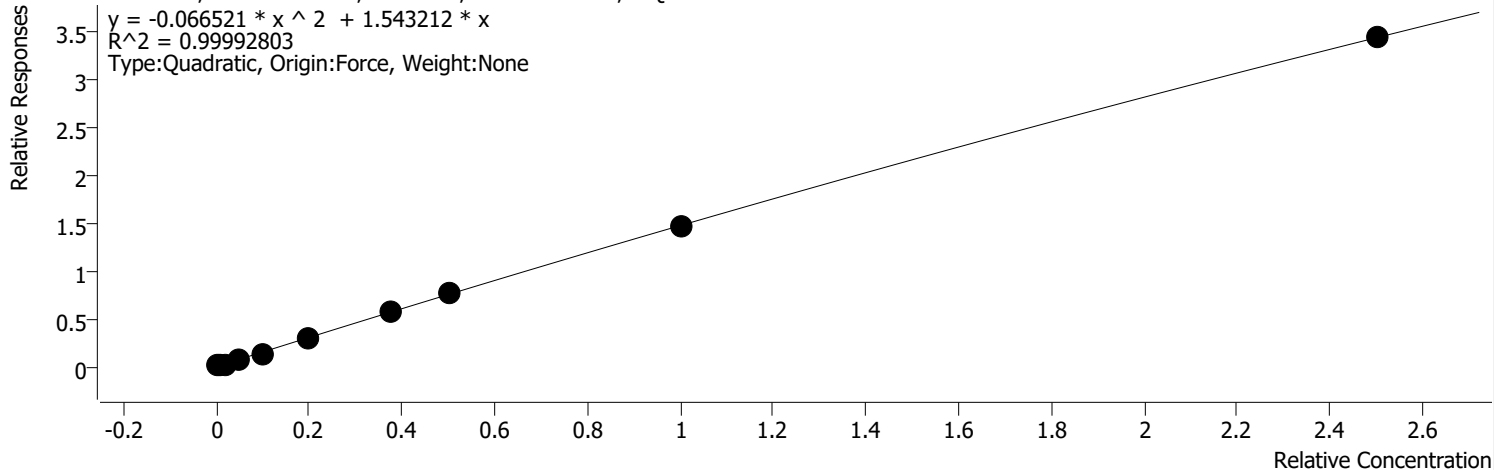
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\091423\091410.D	Calibration	1	x	1763	10.0000	1.5127	
C:\GC-14\Data\2023\091423\091411.D	Calibration	2	x	3035	20.0000	1.3624	
C:\GC-14\Data\2023\091423\091412.D	Calibration	3	x	5619	40.0000	1.2900	
C:\GC-14\Data\2023\091423\091413.D	Calibration	4	x	13883	100.0000	1.2425	
C:\GC-14\Data\2023\091423\091414.D	Calibration	5	x	30446	200.0000	1.3262	
C:\GC-14\Data\2023\091423\091415.D	Calibration	6	x	70731	400.0000	1.4889	
C:\GC-14\Data\2023\091423\091416.D	Calibration	7	x	146578	750.0000	1.5421	
C:\GC-14\Data\2023\091423\091417.D	Calibration	8	x	213587	1000.0000	1.5637	
C:\GC-14\Data\2023\091423\091418.D	Calibration	9	x	433602	2000.0000	1.5560	
C:\GC-14\Data\2023\091423\091419.D	Calibration	10	x	1064576	5000.0000	1.4576	

Calibration Report

Batch Path	C:\GC-14\Data\2023\091423\QuantResults\ccv.batch.bin		
Analysis Time	9/15/2023 9:55 AM	Analyst Name	FA\GC14
Report Time	9/15/2023 9:58:49 AM	Reporter Name	FA\GC14
Last Calib Update	9/15/2023 9:54 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Fluorene %RSE = 13.0

Fluorene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



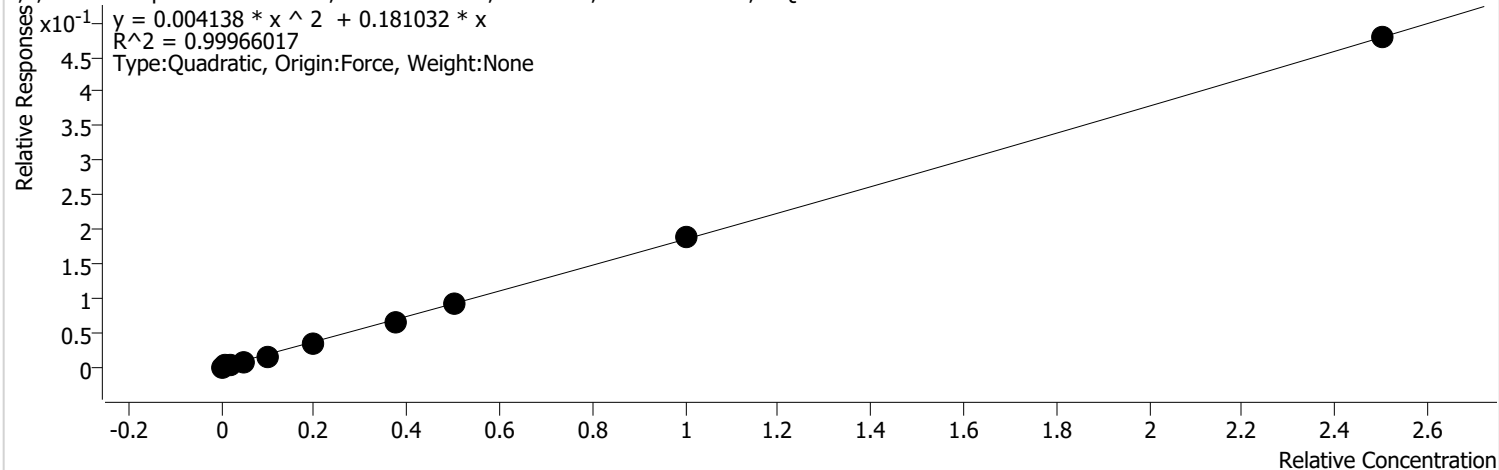
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\091423\091410.D	Calibration	1	x	1558	10.0000	1.3370	
C:\GC-14\Data\2023\091423\091411.D	Calibration	2	x	2904	20.0000	1.3035	
C:\GC-14\Data\2023\091423\091412.D	Calibration	3	x	5594	40.0000	1.2844	
C:\GC-14\Data\2023\091423\091413.D	Calibration	4	x	14184	100.0000	1.2695	
C:\GC-14\Data\2023\091423\091414.D	Calibration	5	x	30817	200.0000	1.3424	
C:\GC-14\Data\2023\091423\091415.D	Calibration	6	x	70173	400.0000	1.4772	
C:\GC-14\Data\2023\091423\091416.D	Calibration	7	x	144244	750.0000	1.5175	
C:\GC-14\Data\2023\091423\091417.D	Calibration	8	x	207664	1000.0000	1.5203	
C:\GC-14\Data\2023\091423\091418.D	Calibration	9	x	412726	2000.0000	1.4810	
C:\GC-14\Data\2023\091423\091419.D	Calibration	10	x	1005404	5000.0000	1.3766	

Calibration Report

Batch Path	C:\GC-14\Data\2023\091423\QuantResults\ccv.batch.bin		
Analysis Time	9/15/2023 9:55 AM	Analyst Name	FA\GC14
Report Time	9/15/2023 9:58:49 AM	Reporter Name	FA\GC14
Last Calib Update	9/15/2023 9:54 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

2,4,6-Tribromophenol %RSE =

2,4,6-Tribromophenol - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



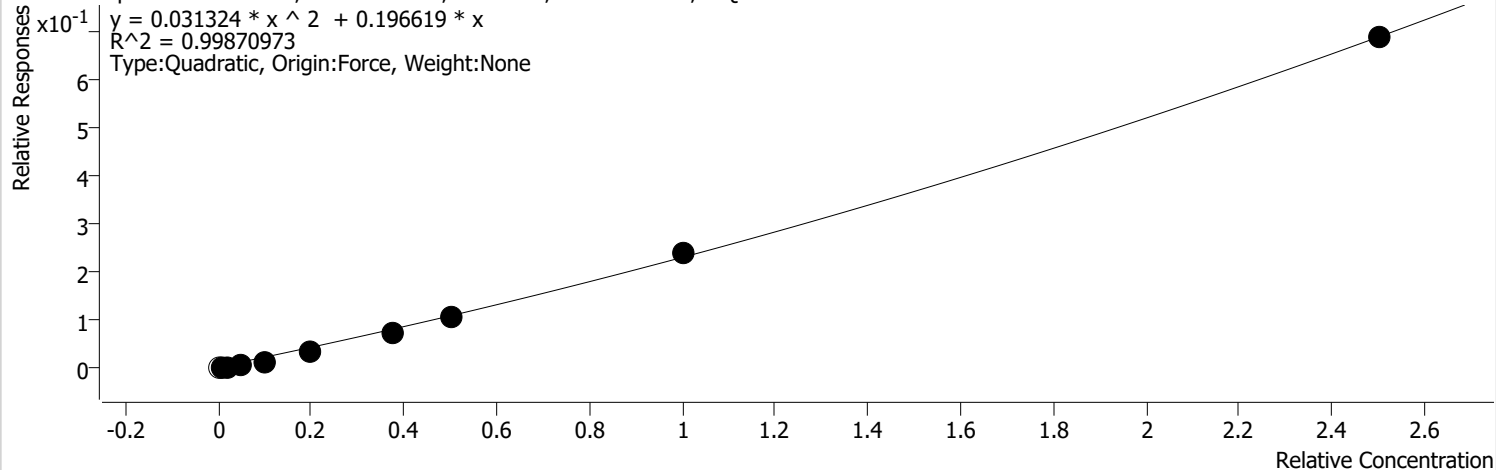
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\091423\091410.D	Calibration	1	x	115	10.0000	0.0988	
C:\GC-14\Data\2023\091423\091411.D	Calibration	2	x	183	20.0000	0.0819	
C:\GC-14\Data\2023\091423\091412.D	Calibration	3	x	391	40.0000	0.0898	
C:\GC-14\Data\2023\091423\091413.D	Calibration	4	x	1352	100.0000	0.1210	
C:\GC-14\Data\2023\091423\091414.D	Calibration	5	x	3329	200.0000	0.1450	
C:\GC-14\Data\2023\091423\091415.D	Calibration	6	x	7865	400.0000	0.1656	
C:\GC-14\Data\2023\091423\091416.D	Calibration	7	x	16613	750.0000	0.1748	
C:\GC-14\Data\2023\091423\091417.D	Calibration	8	x	24611	1000.0000	0.1802	
C:\GC-14\Data\2023\091423\091418.D	Calibration	9	x	52839	2000.0000	0.1896	
C:\GC-14\Data\2023\091423\091419.D	Calibration	10	x	139611	5000.0000	0.1912	

Calibration Report

Batch Path	C:\GC-14\Data\2023\091423\QuantResults\ccv.batch.bin		
Analysis Time	9/15/2023 9:55 AM	Analyst Name	FA\GC14
Report Time	9/15/2023 9:58:49 AM	Reporter Name	FA\GC14
Last Calib Update	9/15/2023 9:54 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Pentachlorophenol %RSE = 69.3

Pentachlorophenol - 10 Levels, 9 Levels Used, 10 Points, 9 Points Used, 0 QCs

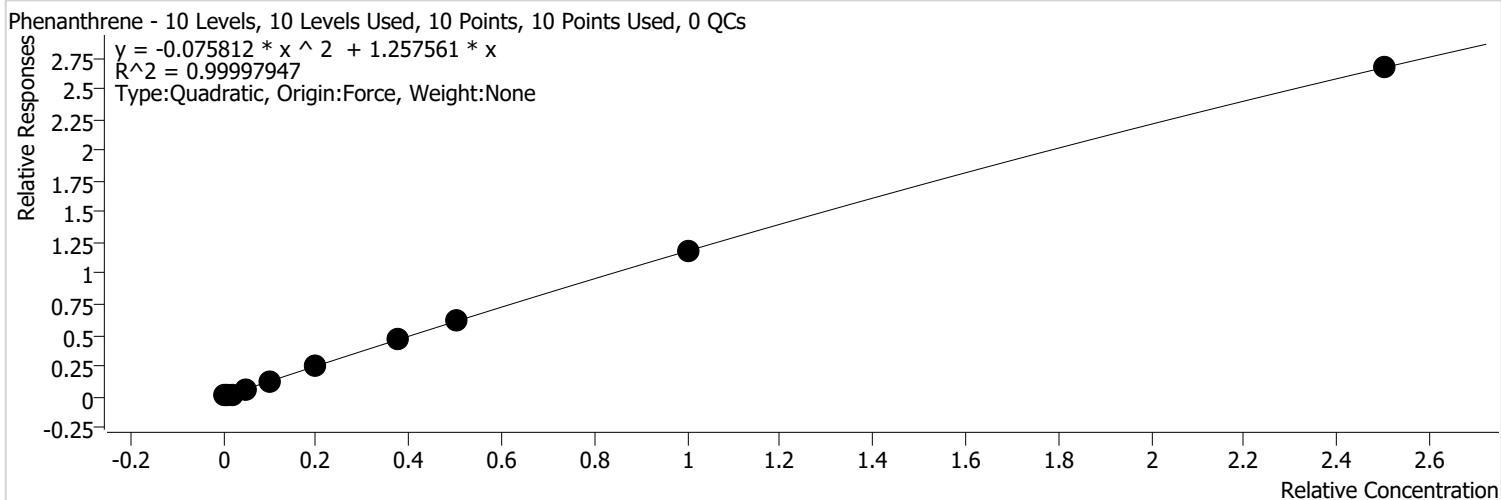


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\091423\091410.D	Calibration	1		0	10.0000	0.0000	
C:\GC-14\Data\2023\091423\091411.D	Calibration	2	x	29	20.0000	0.0129	
C:\GC-14\Data\2023\091423\091412.D	Calibration	3	x	51	40.0000	0.0117	
C:\GC-14\Data\2023\091423\091413.D	Calibration	4	x	322	100.0000	0.0288	
C:\GC-14\Data\2023\091423\091414.D	Calibration	5	x	1959	200.0000	0.0853	
C:\GC-14\Data\2023\091423\091415.D	Calibration	6	x	7142	400.0000	0.1503	
C:\GC-14\Data\2023\091423\091416.D	Calibration	7	x	17950	750.0000	0.1888	
C:\GC-14\Data\2023\091423\091417.D	Calibration	8	x	28415	1000.0000	0.2080	
C:\GC-14\Data\2023\091423\091418.D	Calibration	9	x	66644	2000.0000	0.2391	
C:\GC-14\Data\2023\091423\091419.D	Calibration	10	x	200372	5000.0000	0.2743	

Calibration Report

Batch Path	C:\GC-14\Data\2023\091423\QuantResults\ccv.batch.bin		
Analysis Time	9/15/2023 9:55 AM	Analyst Name	FA\GC14
Report Time	9/15/2023 9:58:49 AM	Reporter Name	FA\GC14
Last Calib Update	9/15/2023 9:54 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Phenanthrene %RSE = 5.2



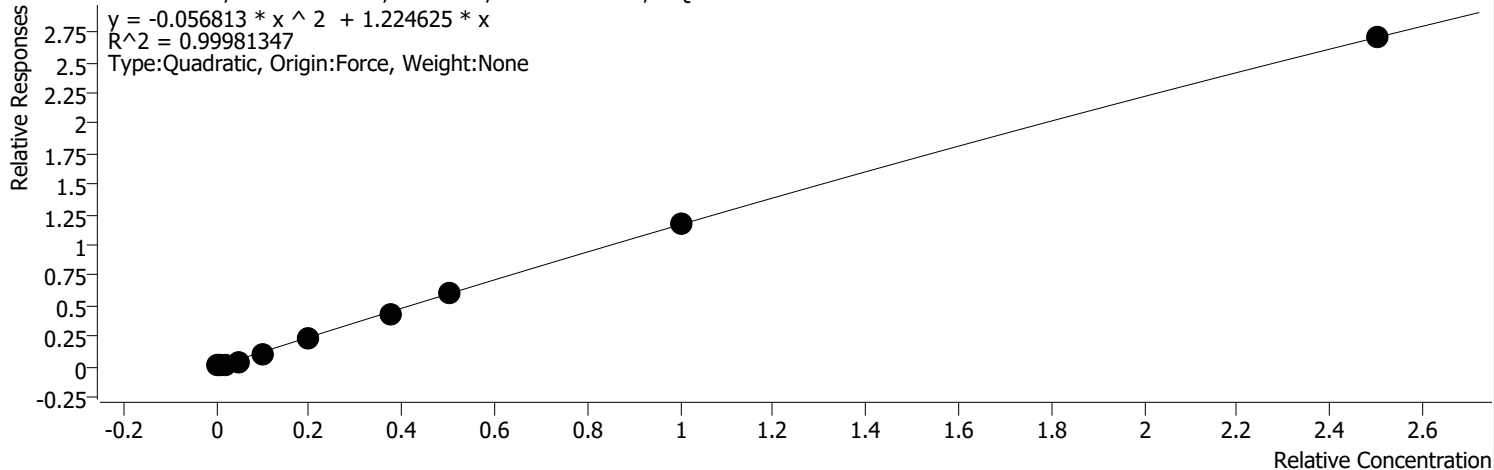
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\091423\091410.D	Calibration	1	x	2893	10.0000	1.2425	
C:\GC-14\Data\2023\091423\091411.D	Calibration	2	x	5421	20.0000	1.2172	
C:\GC-14\Data\2023\091423\091412.D	Calibration	3	x	10213	40.0000	1.1798	
C:\GC-14\Data\2023\091423\091413.D	Calibration	4	x	24835	100.0000	1.1329	
C:\GC-14\Data\2023\091423\091414.D	Calibration	5	x	52473	200.0000	1.1629	
C:\GC-14\Data\2023\091423\091415.D	Calibration	6	x	113490	400.0000	1.2390	
C:\GC-14\Data\2023\091423\091416.D	Calibration	7	x	218870	750.0000	1.2251	
C:\GC-14\Data\2023\091423\091417.D	Calibration	8	x	309839	1000.0000	1.2263	
C:\GC-14\Data\2023\091423\091418.D	Calibration	9	x	612240	2000.0000	1.1825	
C:\GC-14\Data\2023\091423\091419.D	Calibration	10	x	1478956	5000.0000	1.0680	

Calibration Report

Batch Path	C:\GC-14\Data\2023\091423\QuantResults\ccv.batch.bin		
Analysis Time	9/15/2023 9:55 AM	Analyst Name	FA\GC14
Report Time	9/15/2023 9:58:49 AM	Reporter Name	FA\GC14
Last Calib Update	9/15/2023 9:54 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Anthracene %RSE = 18.0

Anthracene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs

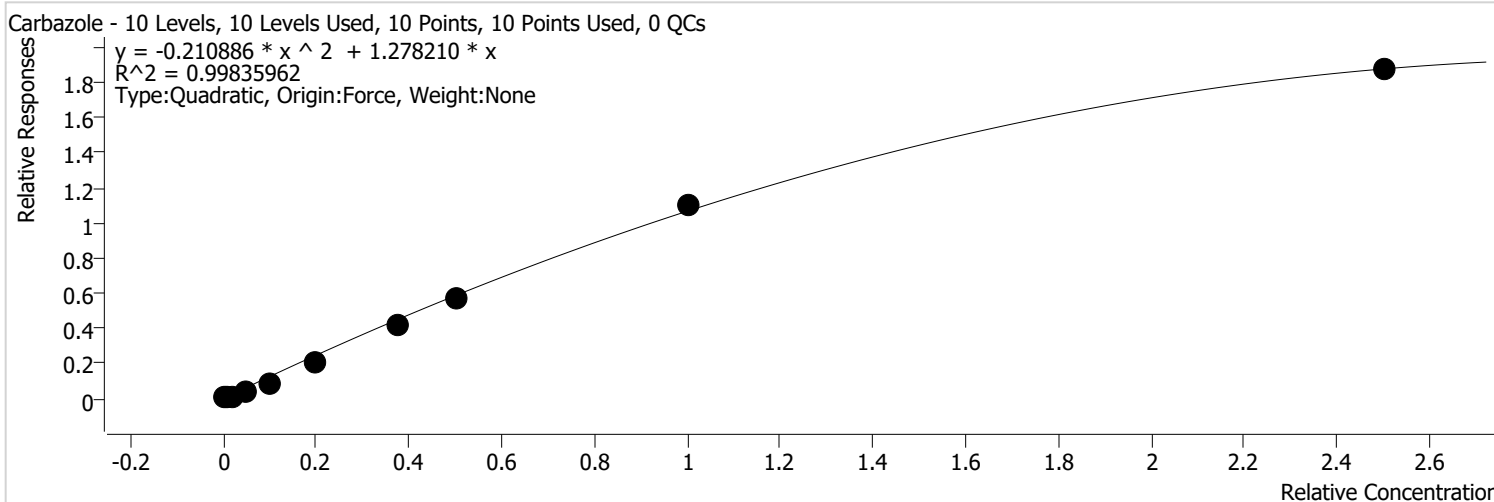


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\091423\091410.D	Calibration	1	x	2276	10.0000	0.9773	
C:\GC-14\Data\2023\091423\091411.D	Calibration	2	x	4268	20.0000	0.9584	
C:\GC-14\Data\2023\091423\091412.D	Calibration	3	x	8257	40.0000	0.9539	
C:\GC-14\Data\2023\091423\091413.D	Calibration	4	x	20586	100.0000	0.9391	
C:\GC-14\Data\2023\091423\091414.D	Calibration	5	x	45253	200.0000	1.0029	
C:\GC-14\Data\2023\091423\091415.D	Calibration	6	x	104157	400.0000	1.1371	
C:\GC-14\Data\2023\091423\091416.D	Calibration	7	x	210454	750.0000	1.1780	
C:\GC-14\Data\2023\091423\091417.D	Calibration	8	x	303235	1000.0000	1.2001	
C:\GC-14\Data\2023\091423\091418.D	Calibration	9	x	611498	2000.0000	1.1811	
C:\GC-14\Data\2023\091423\091419.D	Calibration	10	x	1498206	5000.0000	1.0819	

Calibration Report

Batch Path	C:\GC-14\Data\2023\091423\QuantResults\ccv.batch.bin		
Analysis Time	9/15/2023 9:55 AM	Analyst Name	FA\GC14
Report Time	9/15/2023 9:58:49 AM	Reporter Name	FA\GC14
Last Calib Update	9/15/2023 9:54 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Carbazole %RSE = 27.0



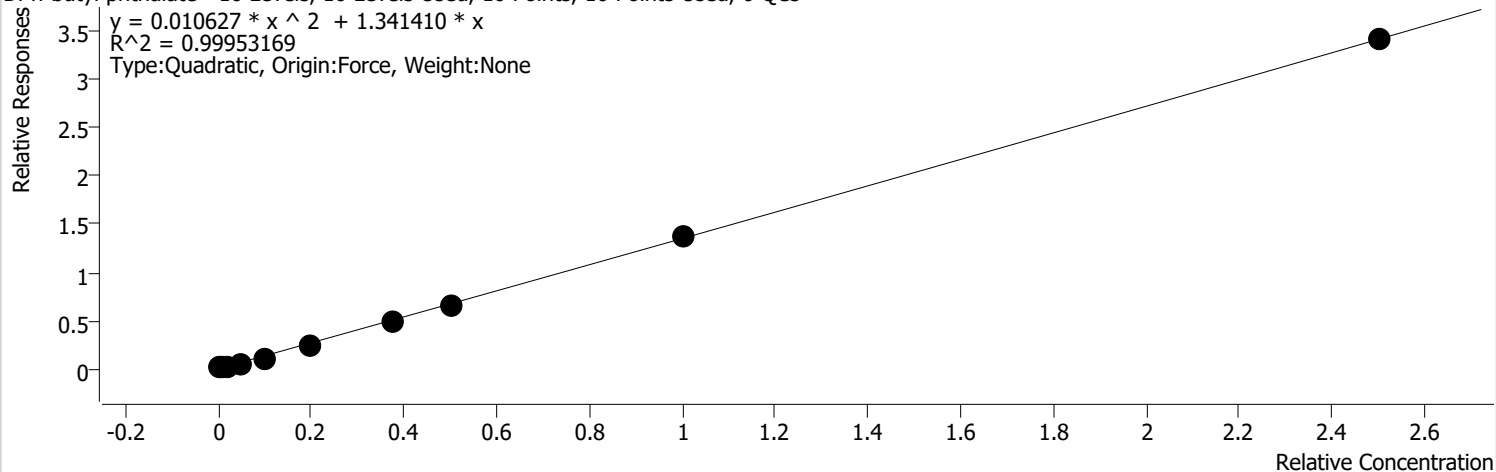
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\091423\091410.D	Calibration	1	x	2124	10.0000	0.9122	
C:\GC-14\Data\2023\091423\091411.D	Calibration	2	x	3835	20.0000	0.8612	
C:\GC-14\Data\2023\091423\091412.D	Calibration	3	x	7329	40.0000	0.8466	
C:\GC-14\Data\2023\091423\091413.D	Calibration	4	x	18612	100.0000	0.8490	
C:\GC-14\Data\2023\091423\091414.D	Calibration	5	x	41543	200.0000	0.9207	
C:\GC-14\Data\2023\091423\091415.D	Calibration	6	x	98277	400.0000	1.0729	
C:\GC-14\Data\2023\091423\091416.D	Calibration	7	x	199743	750.0000	1.1180	
C:\GC-14\Data\2023\091423\091417.D	Calibration	8	x	290099	1000.0000	1.1482	
C:\GC-14\Data\2023\091423\091418.D	Calibration	9	x	574262	2000.0000	1.1091	
C:\GC-14\Data\2023\091423\091419.D	Calibration	10	x	1037113	5000.0000	0.7489	

Calibration Report

Batch Path	C:\GC-14\Data\2023\091423\QuantResults\ccv.batch.bin		
Analysis Time	9/15/2023 9:55 AM	Analyst Name	FA\GC14
Report Time	9/15/2023 9:58:49 AM	Reporter Name	FA\GC14
Last Calib Update	9/15/2023 9:54 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Di-n-butyl phthalate %RSE = 43.6

Di-n-butyl phthalate - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs

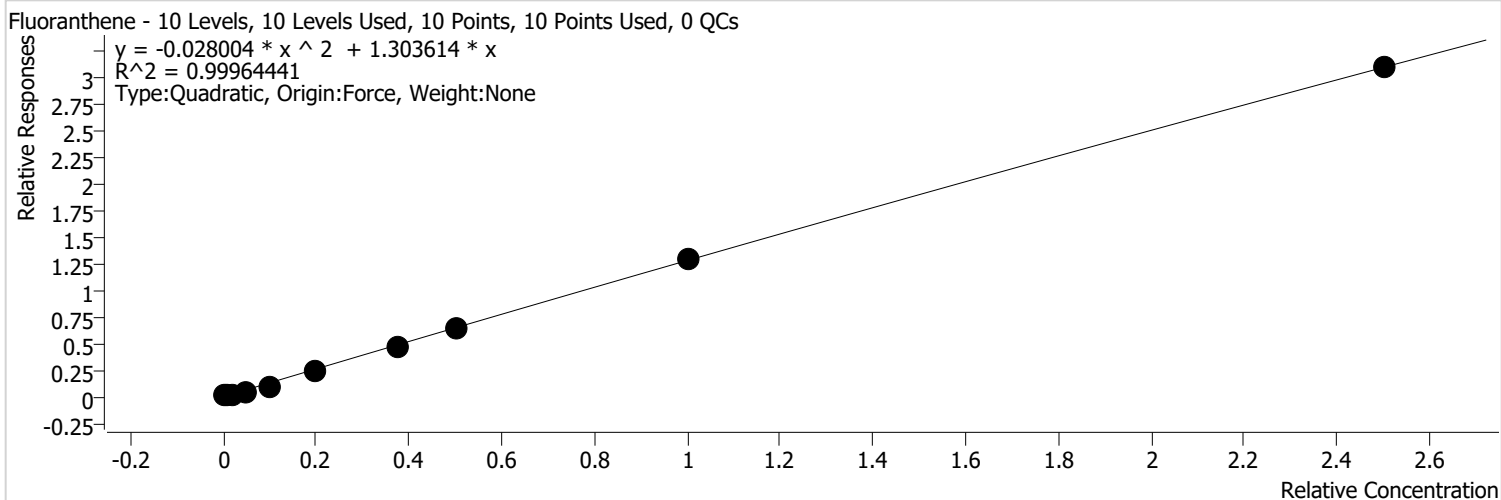


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\091423\091410.D	Calibration	1	x	6445	10.0000	2.7676	
C:\GC-14\Data\2023\091423\091411.D	Calibration	2	x	7243	20.0000	1.6265	
C:\GC-14\Data\2023\091423\091412.D	Calibration	3	x	10484	40.0000	1.2111	
C:\GC-14\Data\2023\091423\091413.D	Calibration	4	x	21854	100.0000	0.9969	
C:\GC-14\Data\2023\091423\091414.D	Calibration	5	x	45904	200.0000	1.0173	
C:\GC-14\Data\2023\091423\091415.D	Calibration	6	x	107206	400.0000	1.1704	
C:\GC-14\Data\2023\091423\091416.D	Calibration	7	x	227056	750.0000	1.2709	
C:\GC-14\Data\2023\091423\091417.D	Calibration	8	x	336867	1000.0000	1.3332	
C:\GC-14\Data\2023\091423\091418.D	Calibration	9	x	718936	2000.0000	1.3886	
C:\GC-14\Data\2023\091423\091419.D	Calibration	10	x	1891859	5000.0000	1.3661	

Calibration Report

Batch Path	C:\GC-14\Data\2023\091423\QuantResults\ccv.batch.bin		
Analysis Time	9/15/2023 9:55 AM	Analyst Name	FA\GC14
Report Time	9/15/2023 9:58:49 AM	Reporter Name	FA\GC14
Last Calib Update	9/15/2023 9:54 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Fluoranthene %RSE = 19.0

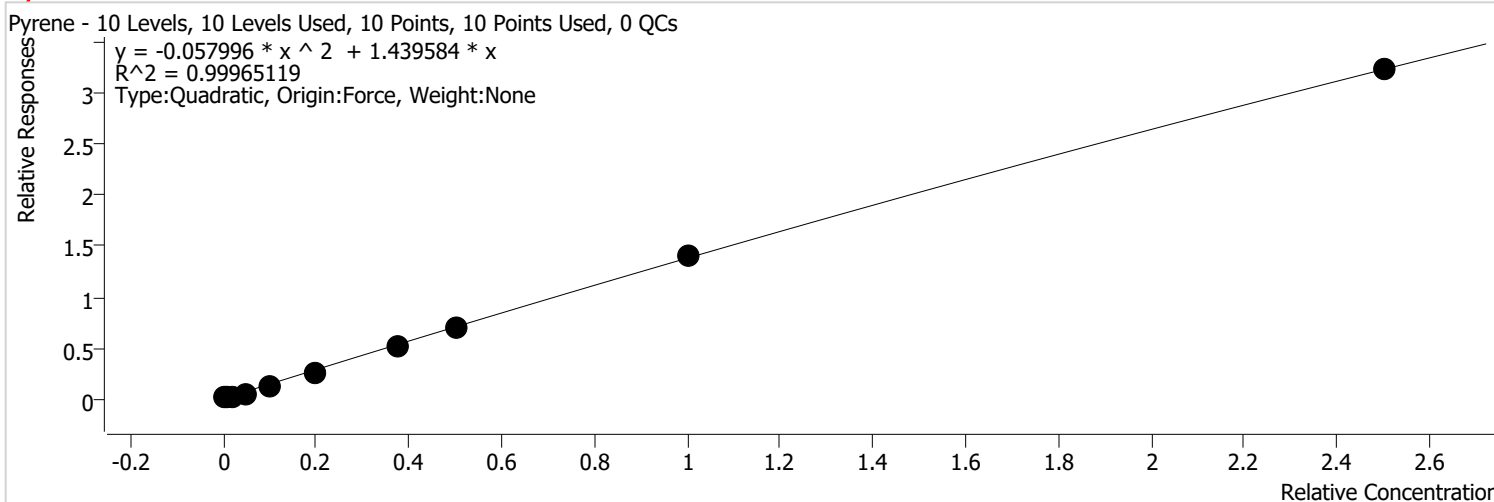


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\091423\091410.D	Calibration	1	x	2468	10.0000	1.0598	
C:\GC-14\Data\2023\091423\091411.D	Calibration	2	x	4533	20.0000	1.0178	
C:\GC-14\Data\2023\091423\091412.D	Calibration	3	x	8687	40.0000	1.0036	
C:\GC-14\Data\2023\091423\091413.D	Calibration	4	x	21543	100.0000	0.9828	
C:\GC-14\Data\2023\091423\091414.D	Calibration	5	x	46578	200.0000	1.0323	
C:\GC-14\Data\2023\091423\091415.D	Calibration	6	x	106471	400.0000	1.1624	
C:\GC-14\Data\2023\091423\091416.D	Calibration	7	x	220712	750.0000	1.2354	
C:\GC-14\Data\2023\091423\091417.D	Calibration	8	x	324686	1000.0000	1.2850	
C:\GC-14\Data\2023\091423\091418.D	Calibration	9	x	674530	2000.0000	1.3028	
C:\GC-14\Data\2023\091423\091419.D	Calibration	10	x	1706392	5000.0000	1.2322	

Calibration Report

Batch Path	C:\GC-14\Data\2023\091423\QuantResults\ccv.batch.bin		
Analysis Time	9/15/2023 9:55 AM	Analyst Name	FA\GC14
Report Time	9/15/2023 9:58:49 AM	Reporter Name	FA\GC14
Last Calib Update	9/15/2023 9:54 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Pyrene %RSE = 18.9

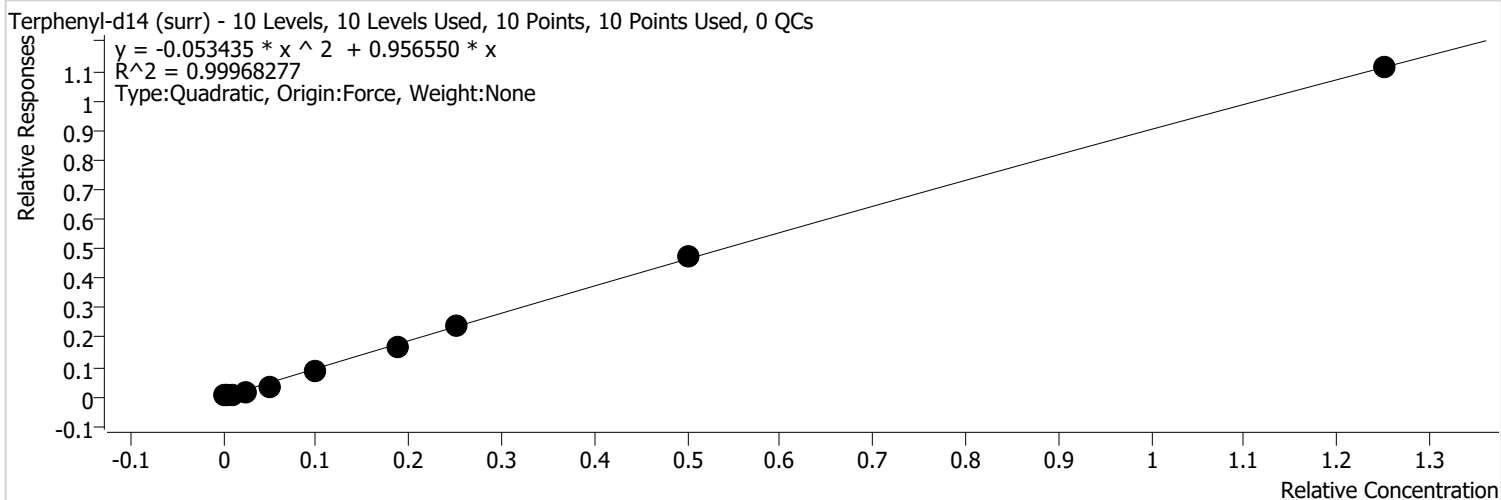


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\091423\091410.D	Calibration	1	x	3020	10.0000	1.2968	
C:\GC-14\Data\2023\091423\091411.D	Calibration	2	x	5127	20.0000	1.1512	
C:\GC-14\Data\2023\091423\091412.D	Calibration	3	x	9412	40.0000	1.0874	
C:\GC-14\Data\2023\091423\091413.D	Calibration	4	x	22860	100.0000	1.0428	
C:\GC-14\Data\2023\091423\091414.D	Calibration	5	x	49800	200.0000	1.1037	
C:\GC-14\Data\2023\091423\091415.D	Calibration	6	x	116667	400.0000	1.2737	
C:\GC-14\Data\2023\091423\091416.D	Calibration	7	x	246058	750.0000	1.3773	
C:\GC-14\Data\2023\091423\091417.D	Calibration	8	x	358278	1000.0000	1.4180	
C:\GC-14\Data\2023\091423\091418.D	Calibration	9	x	726840	2000.0000	1.4038	
C:\GC-14\Data\2023\091423\091419.D	Calibration	10	x	1791097	5000.0000	1.2934	

Calibration Report

Batch Path	C:\GC-14\Data\2023\091423\QuantResults\ccv.batch.bin		
Analysis Time	9/15/2023 9:55 AM	Analyst Name	FA\GC14
Report Time	9/15/2023 9:58:49 AM	Reporter Name	FA\GC14
Last Calib Update	9/15/2023 9:54 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Terphenyl-d14 (surr) %RSE =



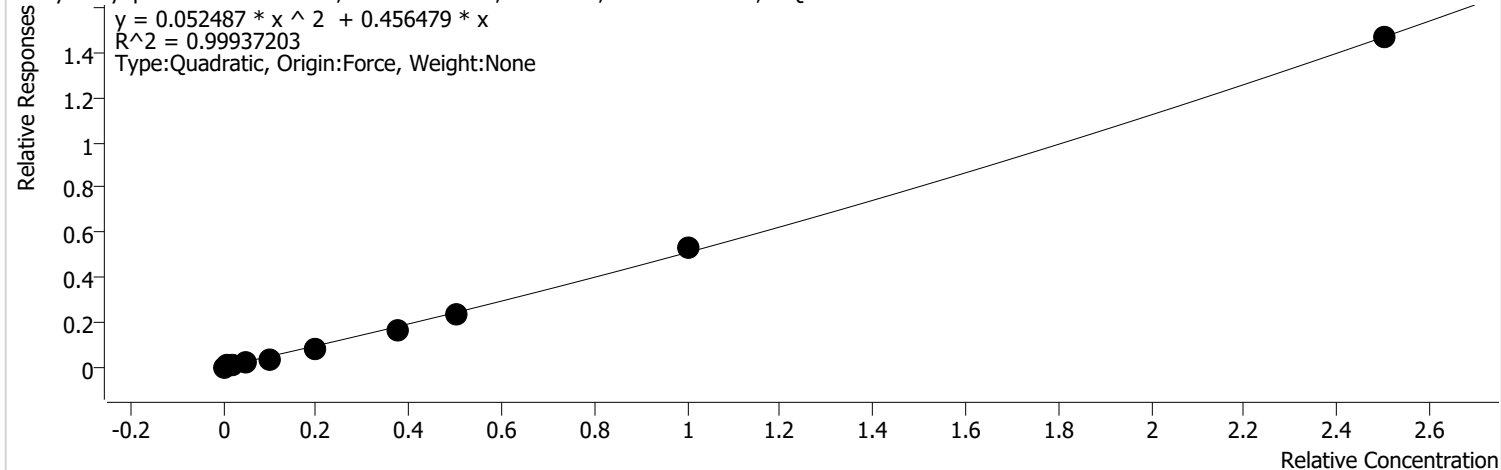
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\091423\091410.D	Calibration	1	x	852	5.0000	0.7319	
C:\GC-14\Data\2023\091423\091411.D	Calibration	2	x	1577	10.0000	0.7080	
C:\GC-14\Data\2023\091423\091412.D	Calibration	3	x	3030	20.0000	0.7000	
C:\GC-14\Data\2023\091423\091413.D	Calibration	4	x	7524	50.0000	0.6865	
C:\GC-14\Data\2023\091423\091414.D	Calibration	5	x	16558	100.0000	0.7339	
C:\GC-14\Data\2023\091423\091415.D	Calibration	6	x	39398	200.0000	0.8603	
C:\GC-14\Data\2023\091423\091416.D	Calibration	7	x	81769	375.0000	0.9154	
C:\GC-14\Data\2023\091423\091417.D	Calibration	8	x	120030	500.0000	0.9501	
C:\GC-14\Data\2023\091423\091418.D	Calibration	9	x	244417	1000.0000	0.9441	
C:\GC-14\Data\2023\091423\091419.D	Calibration	10	x	615533	2500.0000	0.8890	

Calibration Report

Batch Path	C:\GC-14\Data\2023\091423\QuantResults\ccv.batch.bin		
Analysis Time	9/15/2023 9:55 AM	Analyst Name	FA\GC14
Report Time	9/15/2023 9:58:49 AM	Reporter Name	FA\GC14
Last Calib Update	9/15/2023 9:54 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Benzyl Butyl phthalate %RSE = 23.7

Benzyl Butyl phthalate - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



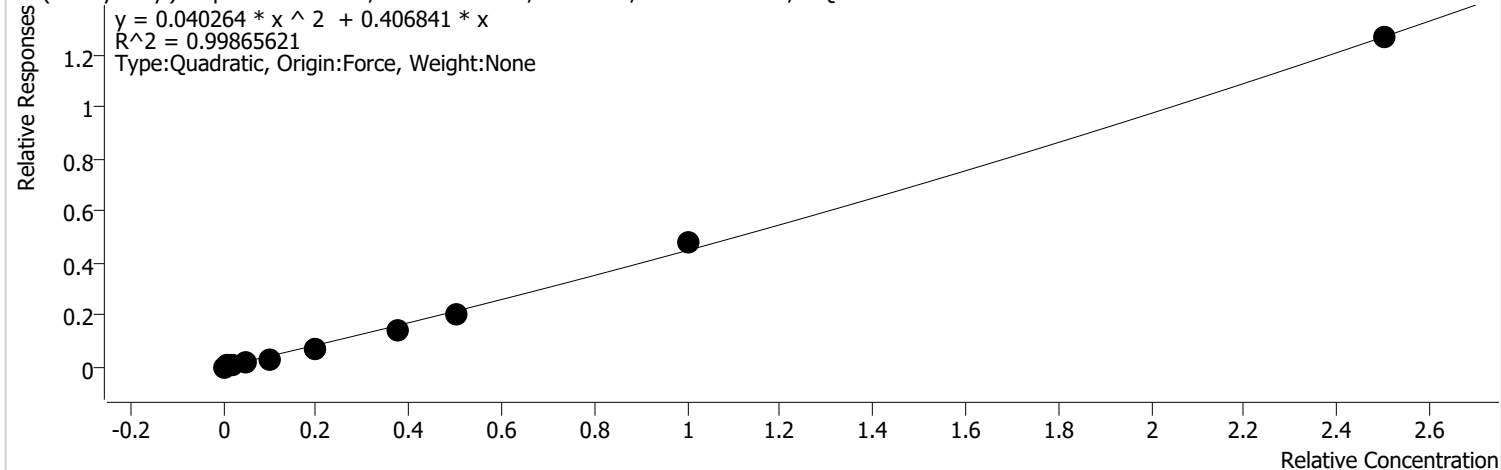
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\091423\091410.D	Calibration	1	x	834	10.0000	0.3580	
C:\GC-14\Data\2023\091423\091411.D	Calibration	2	x	1505	20.0000	0.3379	
C:\GC-14\Data\2023\091423\091412.D	Calibration	3	x	2830	40.0000	0.3269	
C:\GC-14\Data\2023\091423\091413.D	Calibration	4	x	6937	100.0000	0.3164	
C:\GC-14\Data\2023\091423\091414.D	Calibration	5	x	15437	200.0000	0.3421	
C:\GC-14\Data\2023\091423\091415.D	Calibration	6	x	35859	400.0000	0.3915	
C:\GC-14\Data\2023\091423\091416.D	Calibration	7	x	76785	750.0000	0.4298	
C:\GC-14\Data\2023\091423\091417.D	Calibration	8	x	119120	1000.0000	0.4715	
C:\GC-14\Data\2023\091423\091418.D	Calibration	9	x	273992	2000.0000	0.5292	
C:\GC-14\Data\2023\091423\091419.D	Calibration	10	x	812485	5000.0000	0.5867	

Calibration Report

Batch Path	C:\GC-14\Data\2023\091423\QuantResults\ccv.batch.bin		
Analysis Time	9/15/2023 9:55 AM	Analyst Name	FA\GC14
Report Time	9/15/2023 9:58:49 AM	Reporter Name	FA\GC14
Last Calib Update	9/15/2023 9:54 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

bis (2-Ethylhexyl) adipate %RSE = 30.2

bis (2-Ethylhexyl) adipate - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs

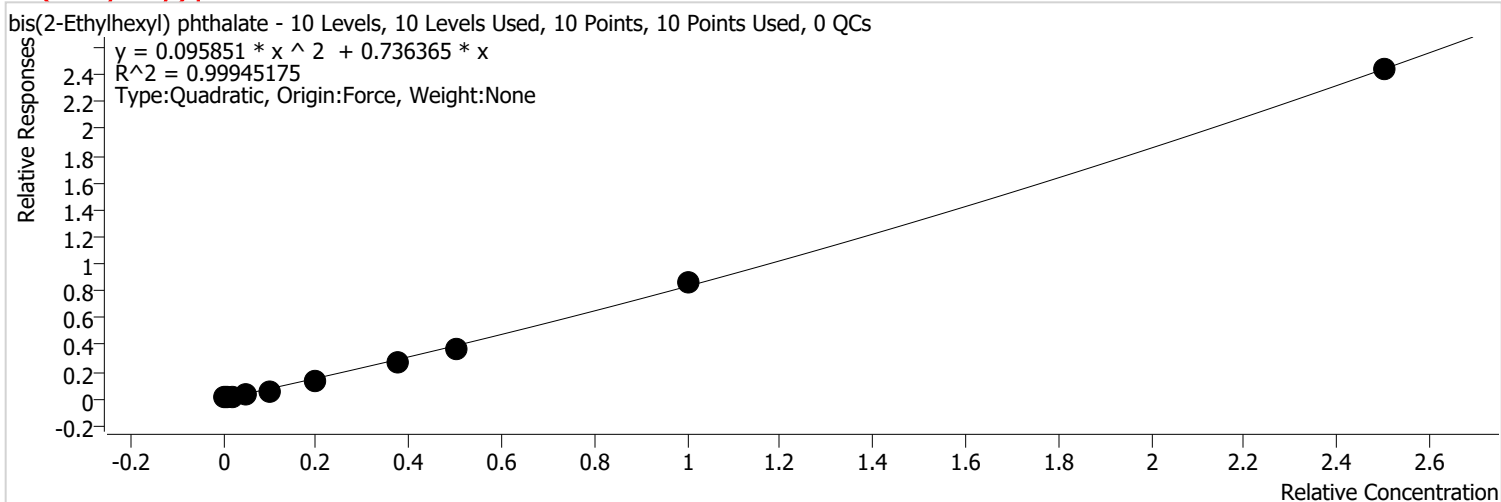


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\091423\091410.D	Calibration	1	x	726	10.0000	0.3119	
C:\GC-14\Data\2023\091423\091411.D	Calibration	2	x	1191	20.0000	0.2675	
C:\GC-14\Data\2023\091423\091412.D	Calibration	3	x	2207	40.0000	0.2550	
C:\GC-14\Data\2023\091423\091413.D	Calibration	4	x	5485	100.0000	0.2502	
C:\GC-14\Data\2023\091423\091414.D	Calibration	5	x	12456	200.0000	0.2761	
C:\GC-14\Data\2023\091423\091415.D	Calibration	6	x	29470	400.0000	0.3217	
C:\GC-14\Data\2023\091423\091416.D	Calibration	7	x	64966	750.0000	0.3636	
C:\GC-14\Data\2023\091423\091417.D	Calibration	8	x	103029	1000.0000	0.4078	
C:\GC-14\Data\2023\091423\091418.D	Calibration	9	x	245294	2000.0000	0.4738	
C:\GC-14\Data\2023\091423\091419.D	Calibration	10	x	701015	5000.0000	0.5062	

Calibration Report

Batch Path	C:\GC-14\Data\2023\091423\QuantResults\ccv.batch.bin		
Analysis Time	9/15/2023 9:55 AM	Analyst Name	FA\GC14
Report Time	9/15/2023 9:58:49 AM	Reporter Name	FA\GC14
Last Calib Update	9/15/2023 9:54 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

bis(2-Ethylhexyl) phthalate %RSE = 17.4

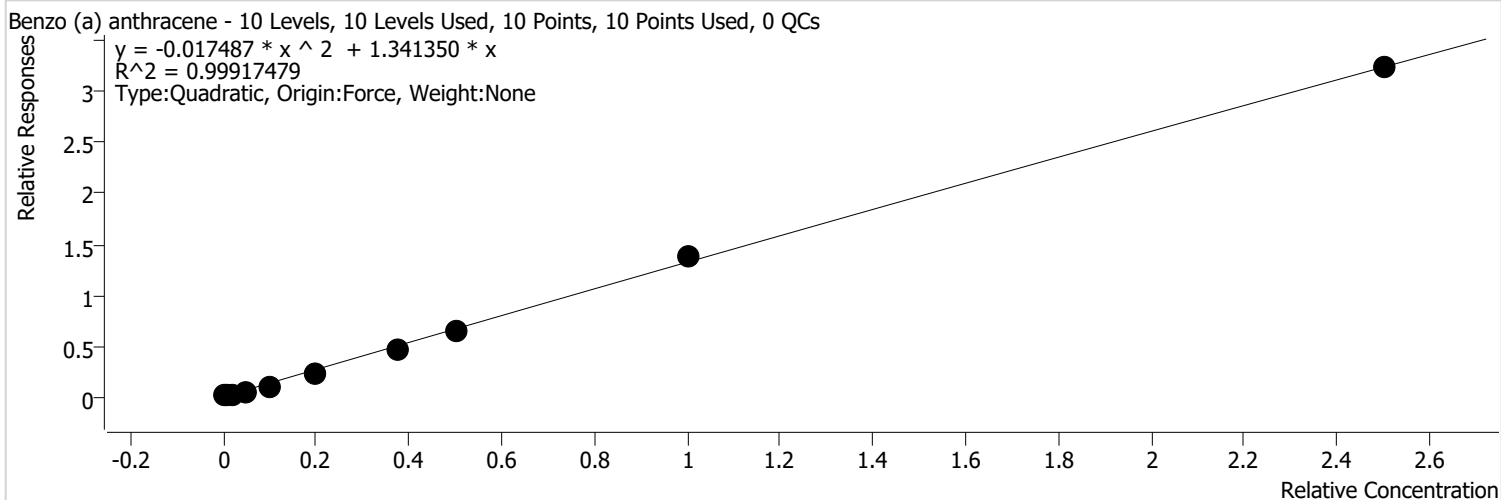


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\091423\091410.D	Calibration	1	x	1663	10.0000	0.8870	
C:\GC-14\Data\2023\091423\091411.D	Calibration	2	x	2533	20.0000	0.7042	
C:\GC-14\Data\2023\091423\091412.D	Calibration	3	x	4403	40.0000	0.6167	
C:\GC-14\Data\2023\091423\091413.D	Calibration	4	x	10059	100.0000	0.5541	
C:\GC-14\Data\2023\091423\091414.D	Calibration	5	x	22060	200.0000	0.5752	
C:\GC-14\Data\2023\091423\091415.D	Calibration	6	x	52360	400.0000	0.6576	
C:\GC-14\Data\2023\091423\091416.D	Calibration	7	x	114565	750.0000	0.7043	
C:\GC-14\Data\2023\091423\091417.D	Calibration	8	x	179284	1000.0000	0.7524	
C:\GC-14\Data\2023\091423\091418.D	Calibration	9	x	426658	2000.0000	0.8660	
C:\GC-14\Data\2023\091423\091419.D	Calibration	10	x	1238960	5000.0000	0.9744	

Calibration Report

Batch Path	C:\GC-14\Data\2023\091423\QuantResults\ccv.batch.bin		
Analysis Time	9/15/2023 9:55 AM	Analyst Name	FA\GC14
Report Time	9/15/2023 9:58:49 AM	Reporter Name	FA\GC14
Last Calib Update	9/15/2023 9:54 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Benzo (a) anthracene %RSE = 18.4



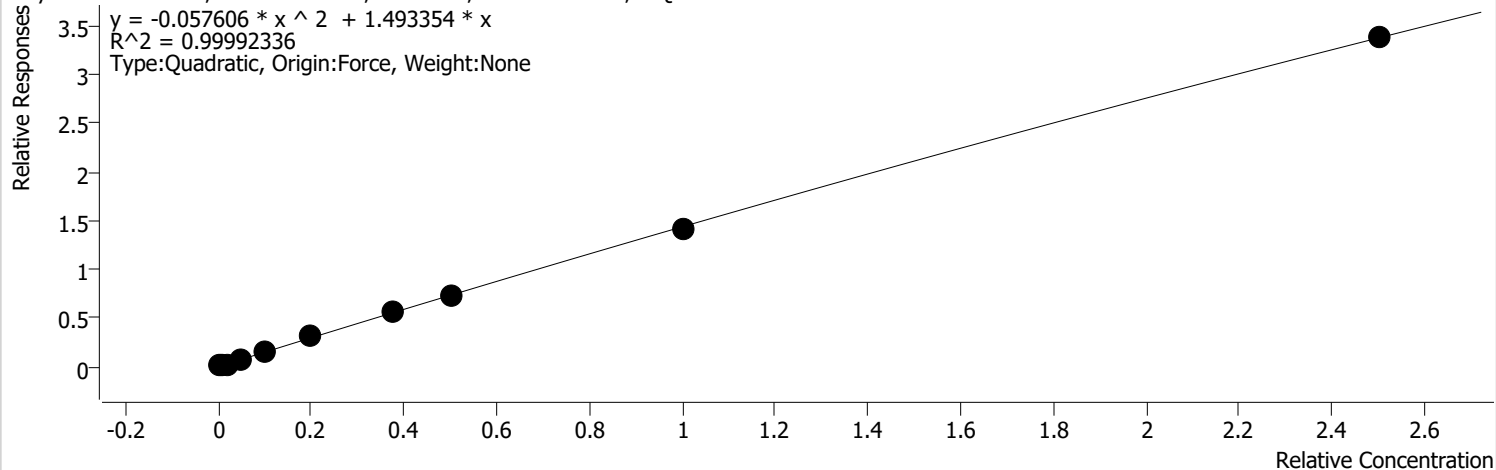
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\091423\091410.D	Calibration	1	x	3361	10.0000	1.4432	
C:\GC-14\Data\2023\091423\091411.D	Calibration	2	x	5222	20.0000	1.1726	
C:\GC-14\Data\2023\091423\091412.D	Calibration	3	x	8959	40.0000	1.0350	
C:\GC-14\Data\2023\091423\091413.D	Calibration	4	x	21231	100.0000	0.9685	
C:\GC-14\Data\2023\091423\091414.D	Calibration	5	x	46202	200.0000	1.0239	
C:\GC-14\Data\2023\091423\091415.D	Calibration	6	x	105218	400.0000	1.1487	
C:\GC-14\Data\2023\091423\091416.D	Calibration	7	x	217647	750.0000	1.2182	
C:\GC-14\Data\2023\091423\091417.D	Calibration	8	x	329010	1000.0000	1.3022	
C:\GC-14\Data\2023\091423\091418.D	Calibration	9	x	712233	2000.0000	1.3756	
C:\GC-14\Data\2023\091423\091419.D	Calibration	10	x	1793487	5000.0000	1.2951	

Calibration Report

Batch Path	C:\GC-14\Data\2023\091423\QuantResults\ccv.batch.bin		
Analysis Time	9/15/2023 9:55 AM	Analyst Name	FA\GC14
Report Time	9/15/2023 9:58:49 AM	Reporter Name	FA\GC14
Last Calib Update	9/15/2023 9:54 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Chrysene %RSE = 4.4

Chrysene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



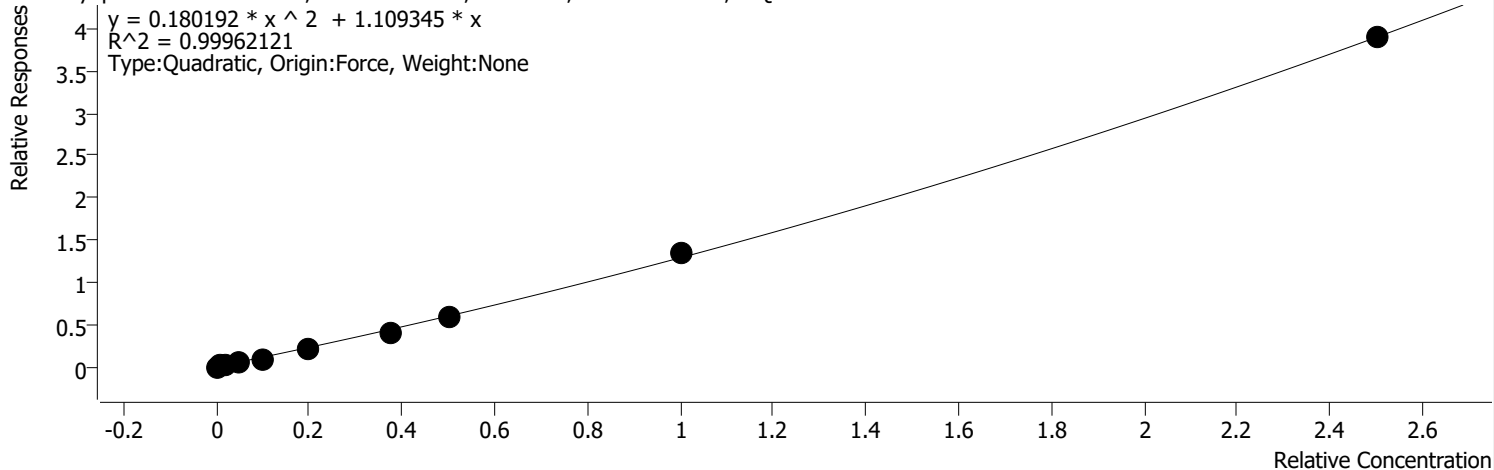
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\091423\091410.D	Calibration	1	x	2796	10.0000	1.4918	
C:\GC-14\Data\2023\091423\091411.D	Calibration	2	x	5193	20.0000	1.4436	
C:\GC-14\Data\2023\091423\091412.D	Calibration	3	x	10109	40.0000	1.4159	
C:\GC-14\Data\2023\091423\091413.D	Calibration	4	x	24960	100.0000	1.3750	
C:\GC-14\Data\2023\091423\091414.D	Calibration	5	x	54944	200.0000	1.4328	
C:\GC-14\Data\2023\091423\091415.D	Calibration	6	x	122590	400.0000	1.5395	
C:\GC-14\Data\2023\091423\091416.D	Calibration	7	x	245680	750.0000	1.5103	
C:\GC-14\Data\2023\091423\091417.D	Calibration	8	x	353528	1000.0000	1.4836	
C:\GC-14\Data\2023\091423\091418.D	Calibration	9	x	699406	2000.0000	1.4196	
C:\GC-14\Data\2023\091423\091419.D	Calibration	10	x	1716662	5000.0000	1.3501	

Calibration Report

Batch Path	C:\GC-14\Data\2023\091423\QuantResults\ccv.batch.bin		
Analysis Time	9/15/2023 9:55 AM	Analyst Name	FA\GC14
Report Time	9/15/2023 9:58:49 AM	Reporter Name	FA\GC14
Last Calib Update	9/15/2023 9:54 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Di-n-octyl phthalate %RSE = 16.9

Di-n-octyl phthalate - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



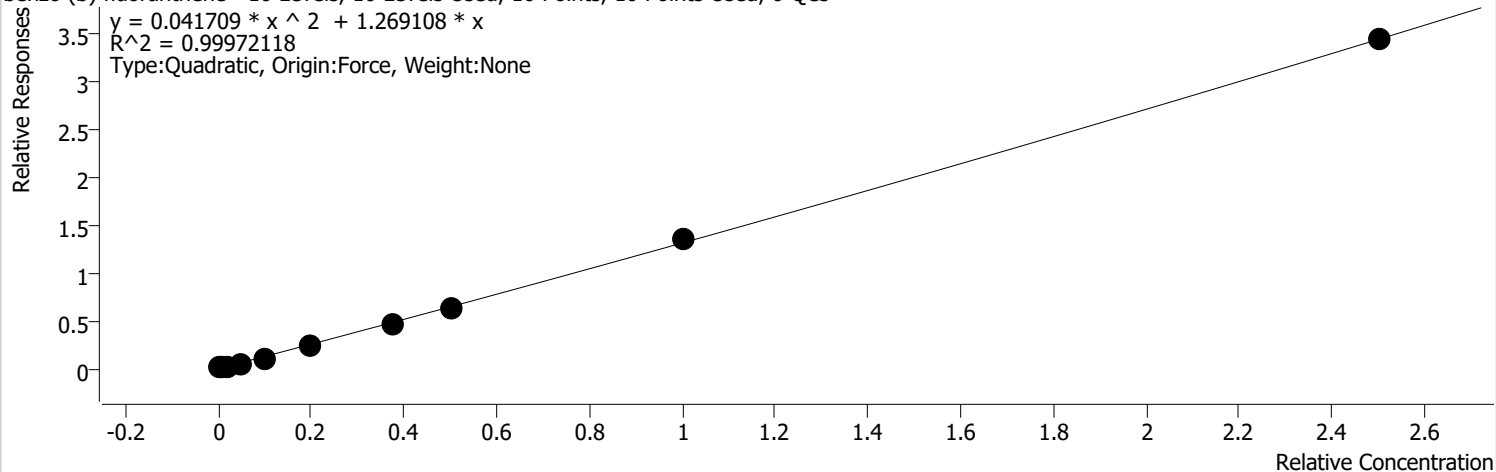
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\091423\091410.D	Calibration	1	x	1780	10.0000	0.9499	
C:\GC-14\Data\2023\091423\091411.D	Calibration	2	x	3293	20.0000	0.9154	
C:\GC-14\Data\2023\091423\091412.D	Calibration	3	x	6396	40.0000	0.8959	
C:\GC-14\Data\2023\091423\091413.D	Calibration	4	x	15513	100.0000	0.8546	
C:\GC-14\Data\2023\091423\091414.D	Calibration	5	x	34835	200.0000	0.9084	
C:\GC-14\Data\2023\091423\091415.D	Calibration	6	x	80790	400.0000	1.0146	
C:\GC-14\Data\2023\091423\091416.D	Calibration	7	x	177641	750.0000	1.0920	
C:\GC-14\Data\2023\091423\091417.D	Calibration	8	x	274744	1000.0000	1.1529	
C:\GC-14\Data\2023\091423\091418.D	Calibration	9	x	657593	2000.0000	1.3347	
C:\GC-14\Data\2023\091423\091419.D	Calibration	10	x	1980648	5000.0000	1.5577	

Calibration Report

Batch Path	C:\GC-14\Data\2023\091423\QuantResults\ccv.batch.bin		
Analysis Time	9/15/2023 9:55 AM	Analyst Name	FA\GC14
Report Time	9/15/2023 9:58:49 AM	Reporter Name	FA\GC14
Last Calib Update	9/15/2023 9:54 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

benzo (b) fluoranthene %RSE = 8.6

benzo (b) fluoranthene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



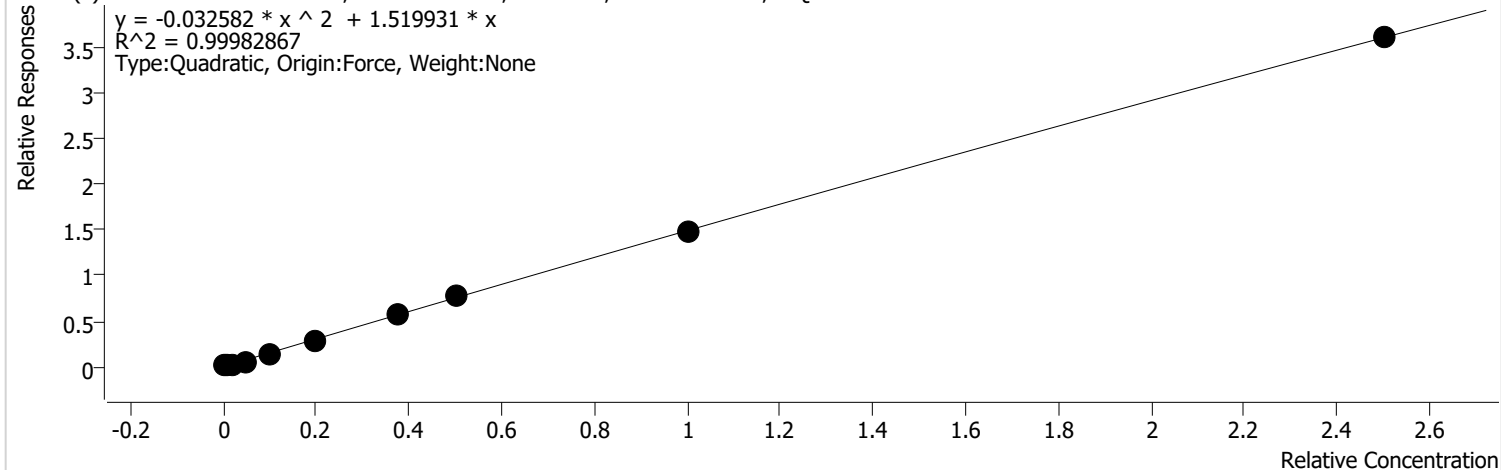
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\091423\091410.D	Calibration	1	x	2332	10.0000	1.2442	
C:\GC-14\Data\2023\091423\091411.D	Calibration	2	x	4218	20.0000	1.1726	
C:\GC-14\Data\2023\091423\091412.D	Calibration	3	x	8070	40.0000	1.1303	
C:\GC-14\Data\2023\091423\091413.D	Calibration	4	x	20118	100.0000	1.1083	
C:\GC-14\Data\2023\091423\091414.D	Calibration	5	x	43995	200.0000	1.1473	
C:\GC-14\Data\2023\091423\091415.D	Calibration	6	x	96847	400.0000	1.2162	
C:\GC-14\Data\2023\091423\091416.D	Calibration	7	x	198600	750.0000	1.2209	
C:\GC-14\Data\2023\091423\091417.D	Calibration	8	x	295620	1000.0000	1.2405	
C:\GC-14\Data\2023\091423\091418.D	Calibration	9	x	663419	2000.0000	1.3466	
C:\GC-14\Data\2023\091423\091419.D	Calibration	10	x	1744229	5000.0000	1.3717	

Calibration Report

Batch Path	C:\GC-14\Data\2023\091423\QuantResults\ccv.batch.bin		
Analysis Time	9/15/2023 9:55 AM	Analyst Name	FA\GC14
Report Time	9/15/2023 9:58:49 AM	Reporter Name	FA\GC14
Last Calib Update	9/15/2023 9:54 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

benzo (k) fluoranthene %RSE = 19.3

benzo (k) fluoranthene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs

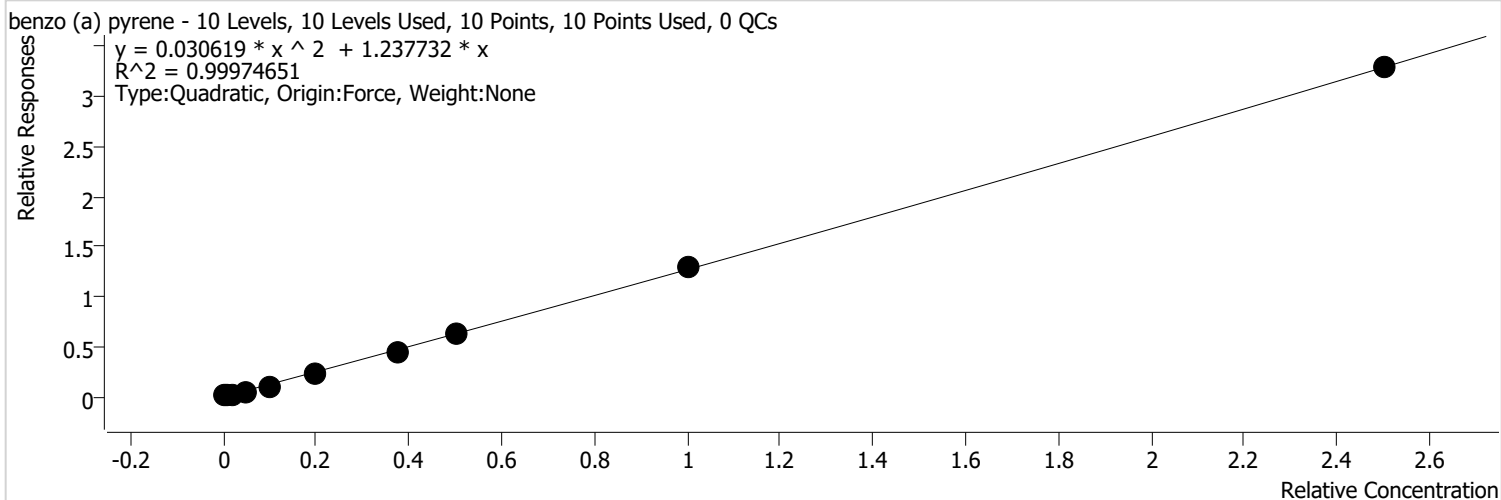


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\091423\091410.D	Calibration	1	x	2187	10.0000	1.1668	
C:\GC-14\Data\2023\091423\091411.D	Calibration	2	x	4105	20.0000	1.1411	
C:\GC-14\Data\2023\091423\091412.D	Calibration	3	x	8493	40.0000	1.1895	
C:\GC-14\Data\2023\091423\091413.D	Calibration	4	x	20874	100.0000	1.1499	
C:\GC-14\Data\2023\091423\091414.D	Calibration	5	x	47674	200.0000	1.2432	
C:\GC-14\Data\2023\091423\091415.D	Calibration	6	x	112568	400.0000	1.4137	
C:\GC-14\Data\2023\091423\091416.D	Calibration	7	x	242837	750.0000	1.4928	
C:\GC-14\Data\2023\091423\091417.D	Calibration	8	x	367382	1000.0000	1.5417	
C:\GC-14\Data\2023\091423\091418.D	Calibration	9	x	734052	2000.0000	1.4899	
C:\GC-14\Data\2023\091423\091419.D	Calibration	10	x	1828639	5000.0000	1.4381	

Calibration Report

Batch Path	C:\GC-14\Data\2023\091423\QuantResults\ccv.batch.bin		
Analysis Time	9/15/2023 9:55 AM	Analyst Name	FA\GC14
Report Time	9/15/2023 9:58:49 AM	Reporter Name	FA\GC14
Last Calib Update	9/15/2023 9:54 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

benzo (a) pyrene %RSE = 16.6

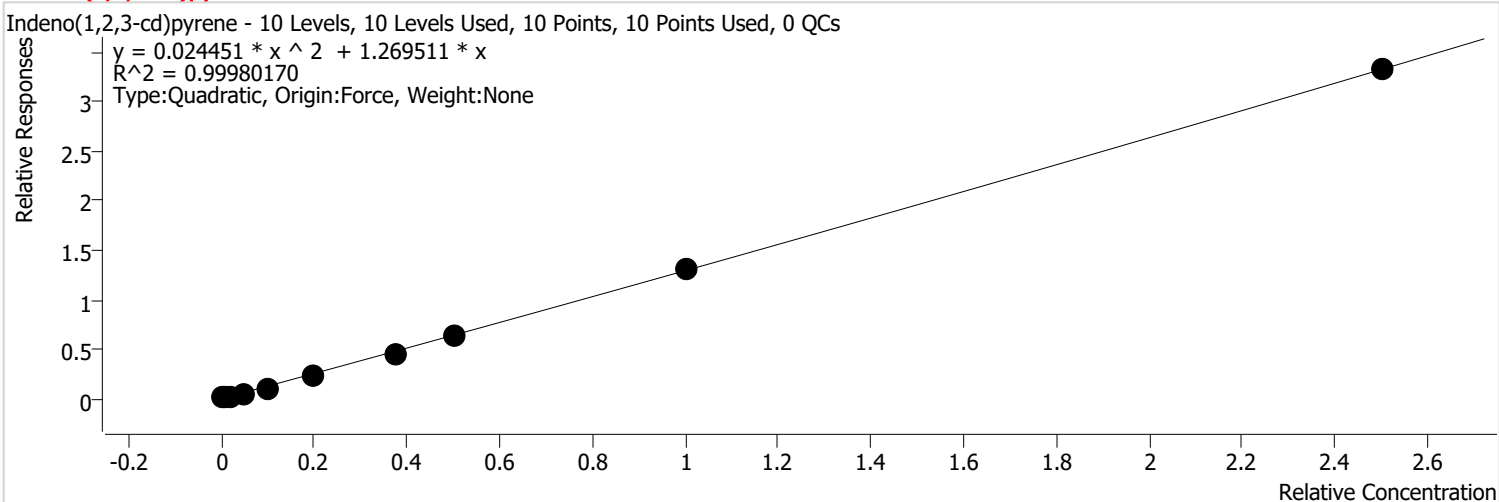


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\091423\091410.D	Calibration	1	x	1977	10.0000	1.0549	
C:\GC-14\Data\2023\091423\091411.D	Calibration	2	x	3627	20.0000	1.0083	
C:\GC-14\Data\2023\091423\091412.D	Calibration	3	x	7034	40.0000	0.9851	
C:\GC-14\Data\2023\091423\091413.D	Calibration	4	x	17408	100.0000	0.9590	
C:\GC-14\Data\2023\091423\091414.D	Calibration	5	x	38952	200.0000	1.0157	
C:\GC-14\Data\2023\091423\091415.D	Calibration	6	x	90158	400.0000	1.1322	
C:\GC-14\Data\2023\091423\091416.D	Calibration	7	x	194186	750.0000	1.1937	
C:\GC-14\Data\2023\091423\091417.D	Calibration	8	x	296180	1000.0000	1.2429	
C:\GC-14\Data\2023\091423\091418.D	Calibration	9	x	637813	2000.0000	1.2946	
C:\GC-14\Data\2023\091423\091419.D	Calibration	10	x	1669458	5000.0000	1.3129	

Calibration Report

Batch Path	C:\GC-14\Data\2023\091423\QuantResults\ccv.batch.bin		
Analysis Time	9/15/2023 9:55 AM	Analyst Name	FA\GC14
Report Time	9/15/2023 9:58:49 AM	Reporter Name	FA\GC14
Last Calib Update	9/15/2023 9:54 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Indeno(1,2,3-cd)pyrene %RSE = 14.2

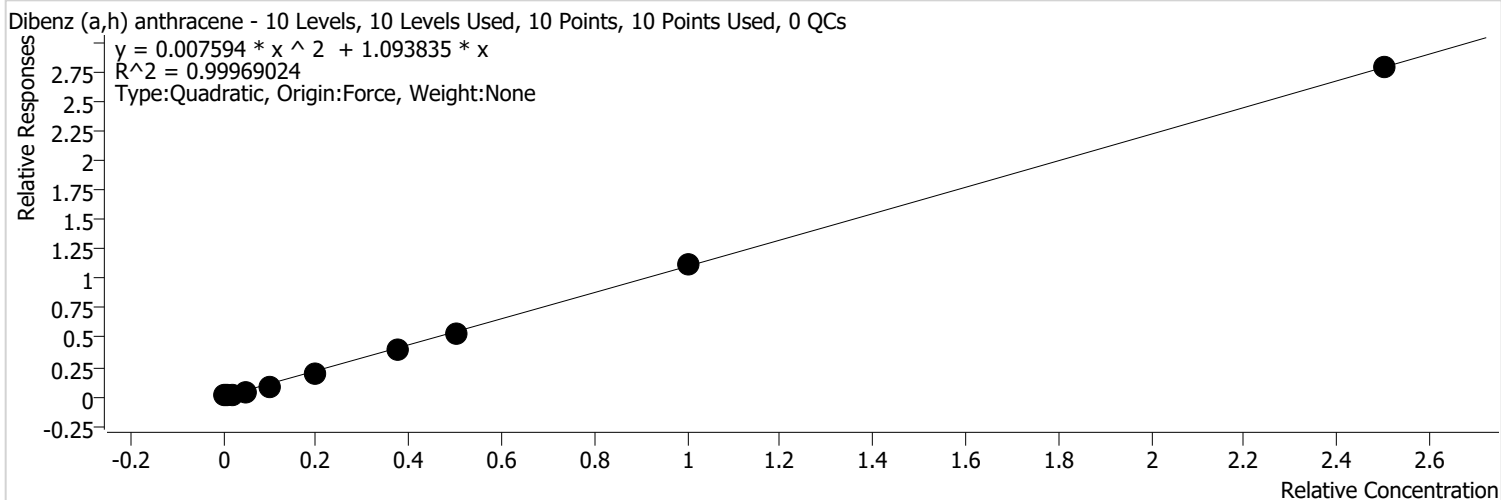


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\091423\091410.D	Calibration	1	x	2720	10.0000	1.1517	
C:\GC-14\Data\2023\091423\091411.D	Calibration	2	x	4723	20.0000	1.0448	
C:\GC-14\Data\2023\091423\091412.D	Calibration	3	x	9279	40.0000	1.0396	
C:\GC-14\Data\2023\091423\091413.D	Calibration	4	x	22981	100.0000	1.0231	
C:\GC-14\Data\2023\091423\091414.D	Calibration	5	x	51022	200.0000	1.0809	
C:\GC-14\Data\2023\091423\091415.D	Calibration	6	x	115026	400.0000	1.1848	
C:\GC-14\Data\2023\091423\091416.D	Calibration	7	x	236690	750.0000	1.2236	
C:\GC-14\Data\2023\091423\091417.D	Calibration	8	x	352767	1000.0000	1.2713	
C:\GC-14\Data\2023\091423\091418.D	Calibration	9	x	745973	2000.0000	1.3182	
C:\GC-14\Data\2023\091423\091419.D	Calibration	10	x	1981804	5000.0000	1.3294	

Calibration Report

Batch Path	C:\GC-14\Data\2023\091423\QuantResults\ccv.batch.bin		
Analysis Time	9/15/2023 9:55 AM	Analyst Name	FA\GC14
Report Time	9/15/2023 9:58:49 AM	Reporter Name	FA\GC14
Last Calib Update	9/15/2023 9:54 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Dibenz (a,h) anthracene %RSE = 17.3



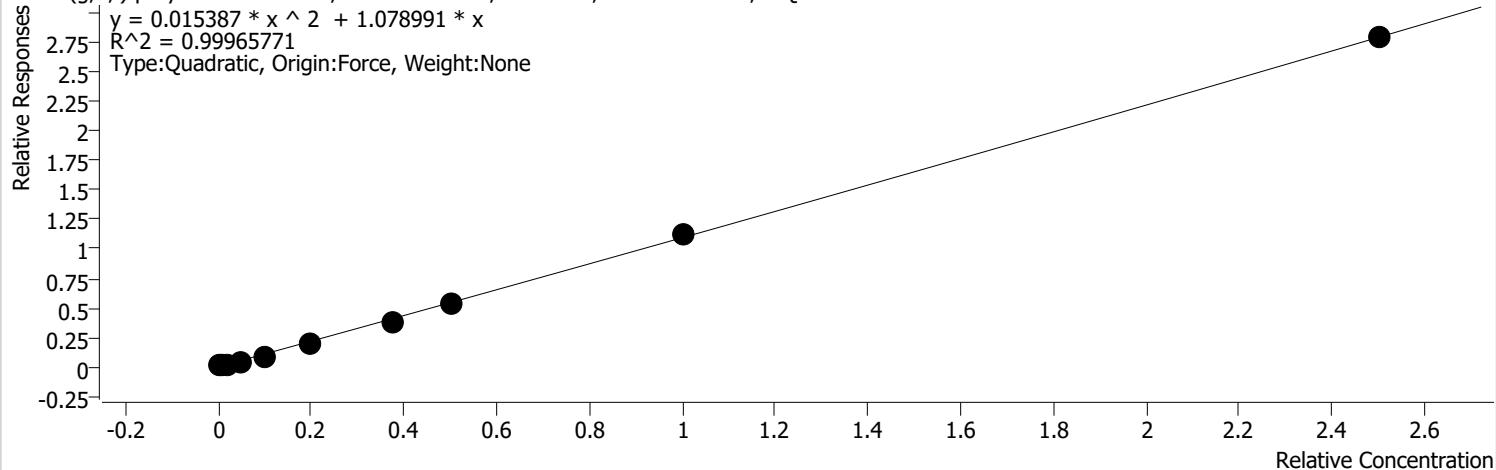
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\091423\091410.D	Calibration	1	x	2197	10.0000	0.9303	
C:\GC-14\Data\2023\091423\091411.D	Calibration	2	x	3868	20.0000	0.8557	
C:\GC-14\Data\2023\091423\091412.D	Calibration	3	x	7634	40.0000	0.8553	
C:\GC-14\Data\2023\091423\091413.D	Calibration	4	x	19149	100.0000	0.8526	
C:\GC-14\Data\2023\091423\091414.D	Calibration	5	x	42563	200.0000	0.9017	
C:\GC-14\Data\2023\091423\091415.D	Calibration	6	x	96426	400.0000	0.9932	
C:\GC-14\Data\2023\091423\091416.D	Calibration	7	x	201355	750.0000	1.0409	
C:\GC-14\Data\2023\091423\091417.D	Calibration	8	x	301308	1000.0000	1.0858	
C:\GC-14\Data\2023\091423\091418.D	Calibration	9	x	637789	2000.0000	1.1270	
C:\GC-14\Data\2023\091423\091419.D	Calibration	10	x	1656996	5000.0000	1.1115	

Calibration Report

Batch Path	C:\GC-14\Data\2023\091423\QuantResults\ccv.batch.bin		
Analysis Time	9/15/2023 9:55 AM	Analyst Name	FA\GC14
Report Time	9/15/2023 9:58:49 AM	Reporter Name	FA\GC14
Last Calib Update	9/15/2023 9:54 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Benzo (g,h,i) perylene %RSE = 15.7

Benzo (g,h,i) perylene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
C:\GC-14\Data\2023\091423\091410.D	Calibration	1	x	3384	10.0000	1.4328	
C:\GC-14\Data\2023\091423\091411.D	Calibration	2	x	4995	20.0000	1.1049	
C:\GC-14\Data\2023\091423\091412.D	Calibration	3	x	8839	40.0000	0.9903	
C:\GC-14\Data\2023\091423\091413.D	Calibration	4	x	20424	100.0000	0.9093	
C:\GC-14\Data\2023\091423\091414.D	Calibration	5	x	43720	200.0000	0.9262	
C:\GC-14\Data\2023\091423\091415.D	Calibration	6	x	96095	400.0000	0.9898	
C:\GC-14\Data\2023\091423\091416.D	Calibration	7	x	196116	750.0000	1.0138	
C:\GC-14\Data\2023\091423\091417.D	Calibration	8	x	296206	1000.0000	1.0675	
C:\GC-14\Data\2023\091423\091418.D	Calibration	9	x	635961	2000.0000	1.1238	
C:\GC-14\Data\2023\091423\091419.D	Calibration	10	x	1663696	5000.0000	1.1160	

Semivolatile Calibration

Date: 9/14/23

Analyst: SRH

MeCl2: 3017/7684

8270 Surrogate: 28818

Internal Standard: 28835

Cal	ICV
8270 Megamix: 28714	8270 Megamix: 28486
2,4-DNP: 28791	2,4-DNP: 28196
Benzoic Acid: 27263	Benzoic Acid: 28493
Benzidines: 23501	Benzidines: 28634

GC-21	Spike Conc. (ppb)	BN/Acid Surr Conc. (ppb)	2° Spike (uL)	B/N Surr (uL)	Internal Standard (uL)	Remove (uL)	Final Vol. (mL)	Comments
	2	2/1	0.2	--	10	10.2	1	For PAH-LL Cal Only
121	10	10/5	1	--	10	11	1	
122	20	20/10	2	--	10	12	1	
123	40	40/20	4	--	10	14	1	
124	100	100/50	10	--	10	20	1	
125	200	200/100	20	--	10	30	1	
126	500-400	500/250 ²⁰⁰	40	--	10	50	1	
127	750	750/375	75	--	10	85	1	
128	1000	1000/500	100	--	10	110	1	
129	2000	2000/1000	200	--	10	210	1	
130	5000	5000/2500	500	--	10	510	1	
131	ICB	1000/500		5	10	15	1	
132	ICV (1000 ppb)	1000/500	100 (2° SS)	--	10	110	1	

	Mega Mix (uL)	2,4-DNP (uL)	Benzoic Acid	8270 Surr	Benzidine	Final
2° Intermediate (cal)	100	100	100	500	50	10
2° Intermediate (SS)	10	10	10	50	5	1

Signature and Date: *SRH* 9/14/23

Signature: AK

700 Building Calibration Template - SVOC v1.3

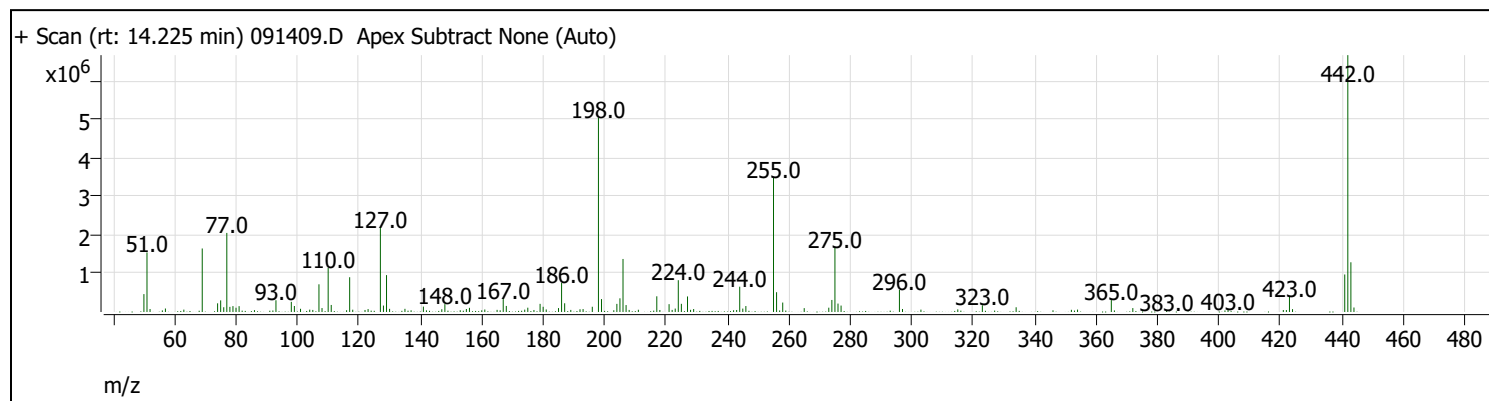
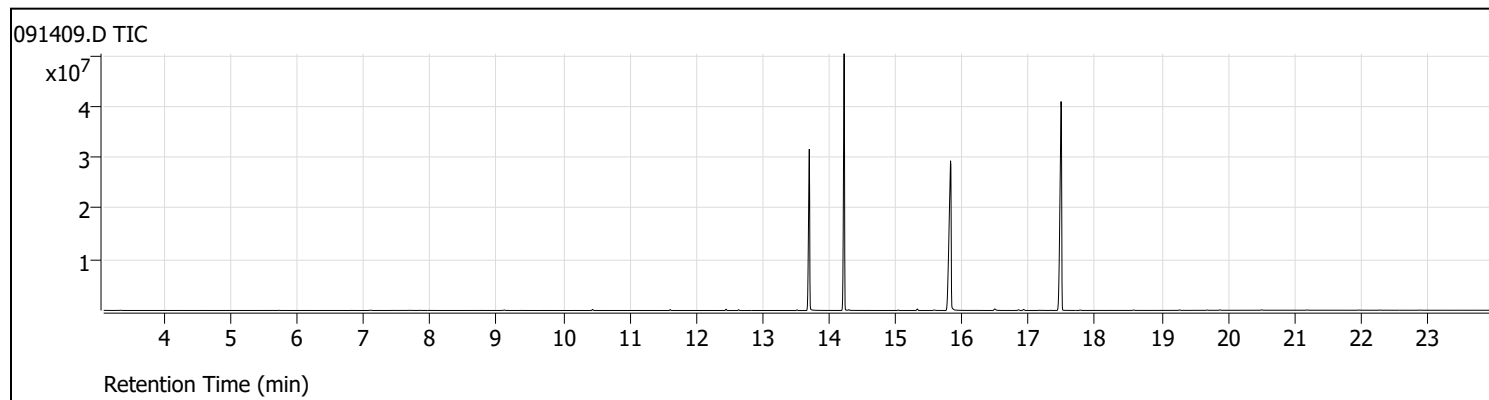
Official Approval: 7/6/2023



Tunes

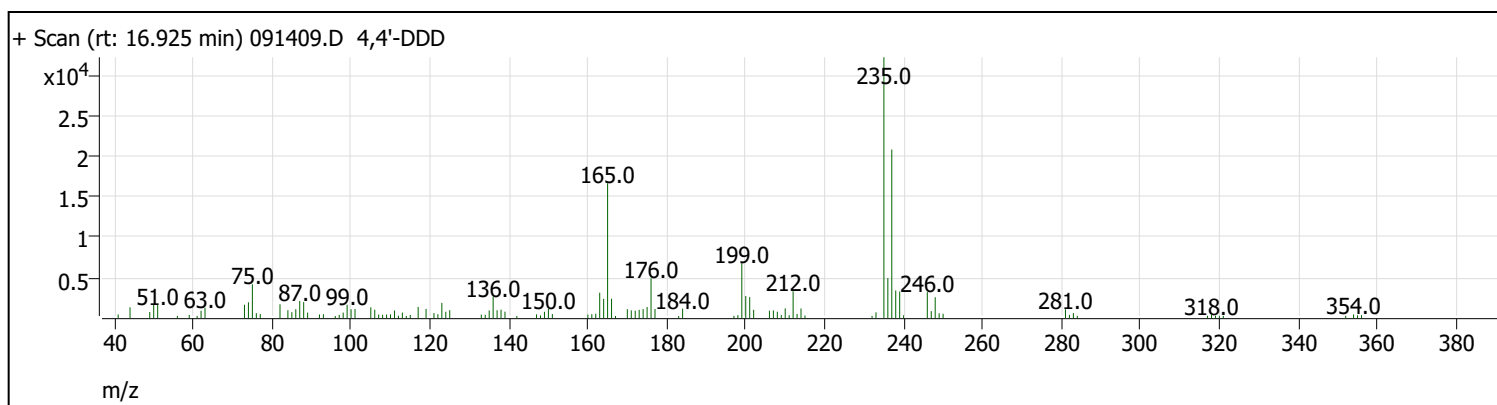
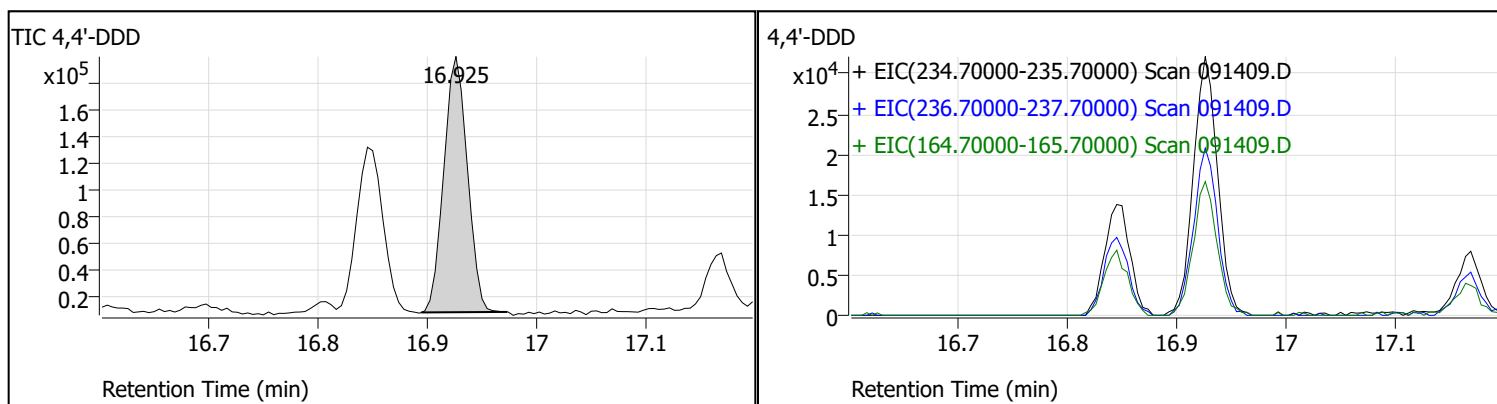
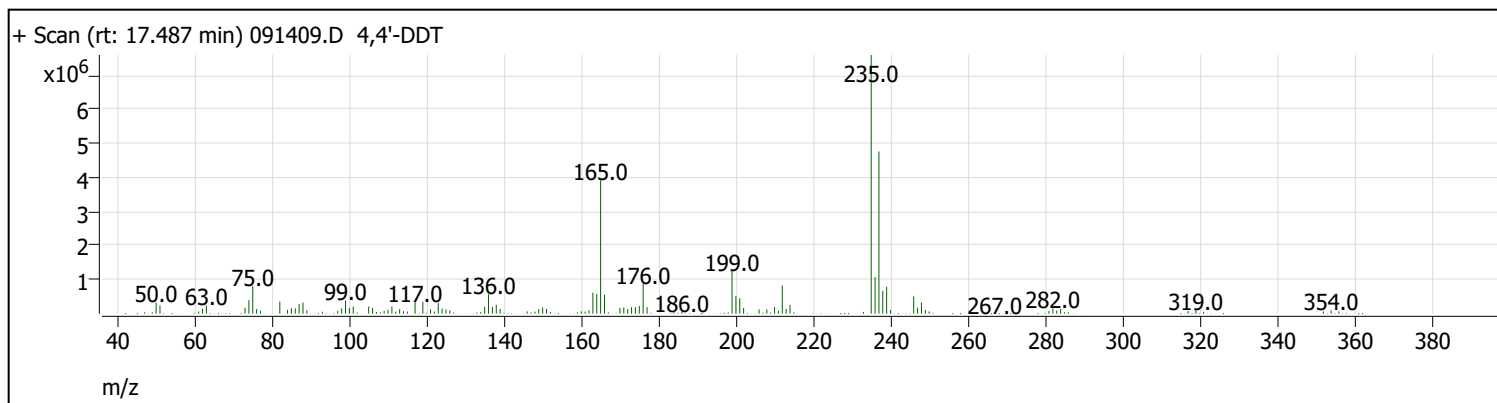
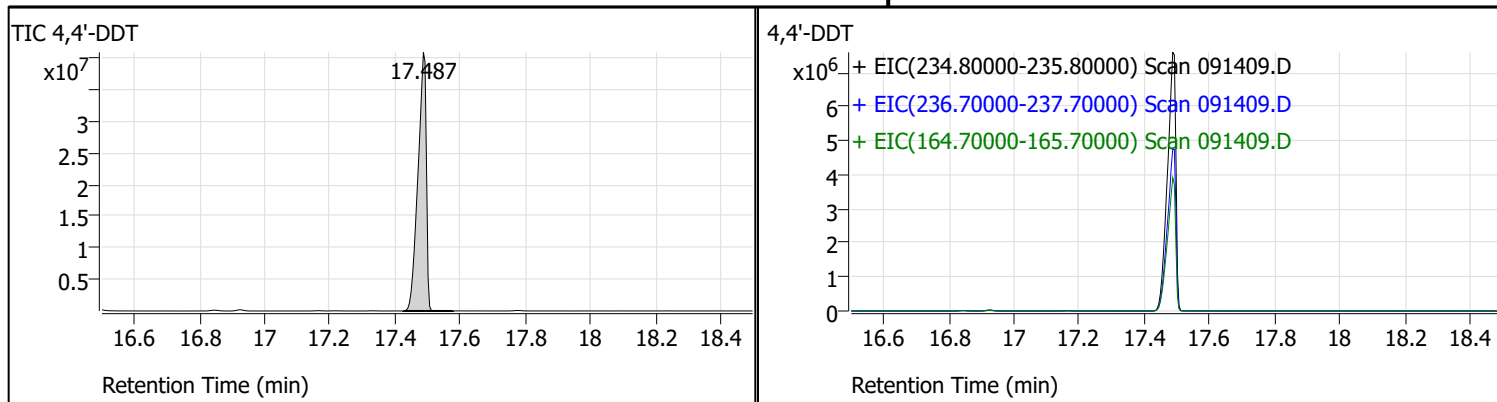
Tune Evaluation Report

Data Path: C:\GC-14\Data\2023\091423\091409.D
 Acq on: 9/14/2023 2:47:59 PM
 Operator: FA\GC14
 Sample: tune
 Inst Name: GC-14
 ALS Vial: 1
 Method: C:\GC-14\Methods\Quant
 Methods\TUNE\DFTPPwBreak&TailingGC218270E.m



Target Mass	Rel. To Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Pass/Fail
68	69	0	2	2.0	32512	Pass
70	69	0	2	0.6	9168	Pass
197	198	0	2	0.0	0	Pass
198	198	100	100	100.0	5041664	Pass
199	198	5	9	6.6	334784	Pass
365	442	1	100	4.6	308672	Pass
441	443	1E-10	150	75.4	972288	Pass
442	442	100	100	100.0	6661120	Pass
443	442	15	24	19.4	1289216	Pass
69	69	100	100	100.0	1647104	Pass

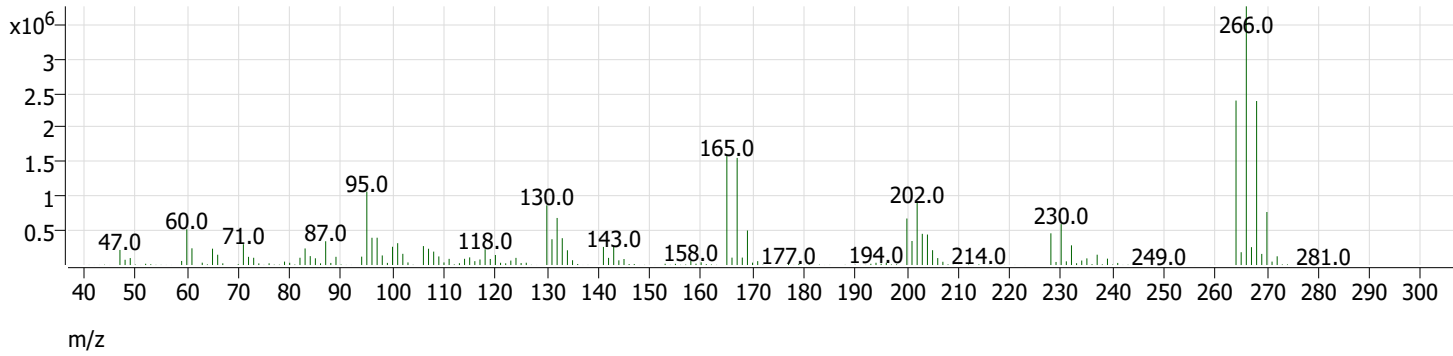
Tune Evaluation Report



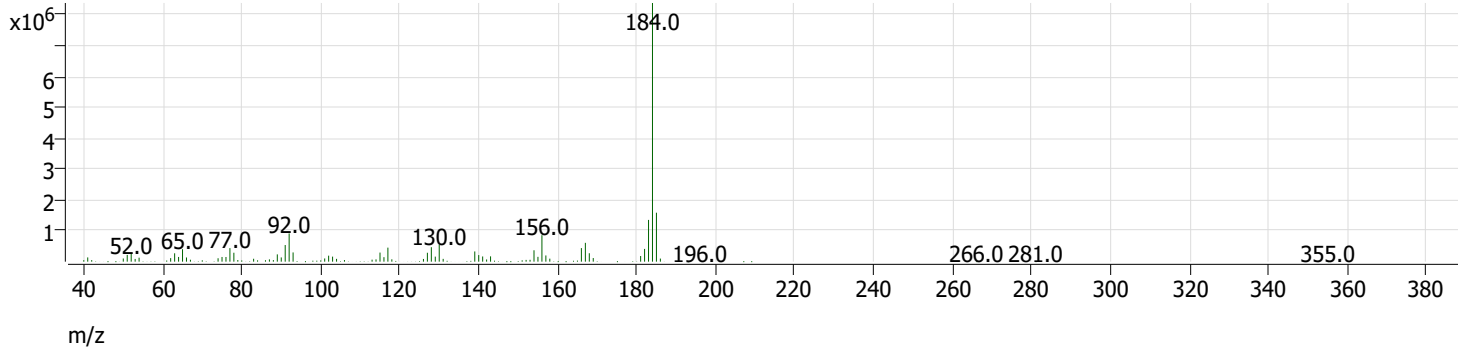
Compound Name	Expected RT	Observed RT	TIC Area	Breakdown %	Pass/Fail
4,4'-DDT	17.500	17.487	72283318	0.4	Pass
4,4'-DDD	16.900	16.925	286183		

Tune Evaluation Report

+ Scan (rt: 13.701 min) 091409.D Pentachlorophenol



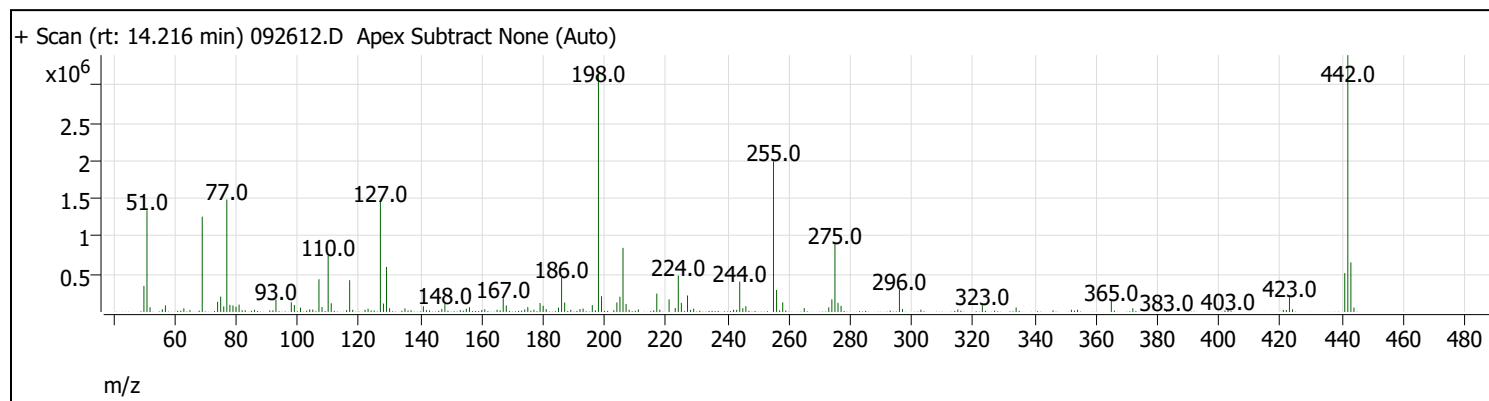
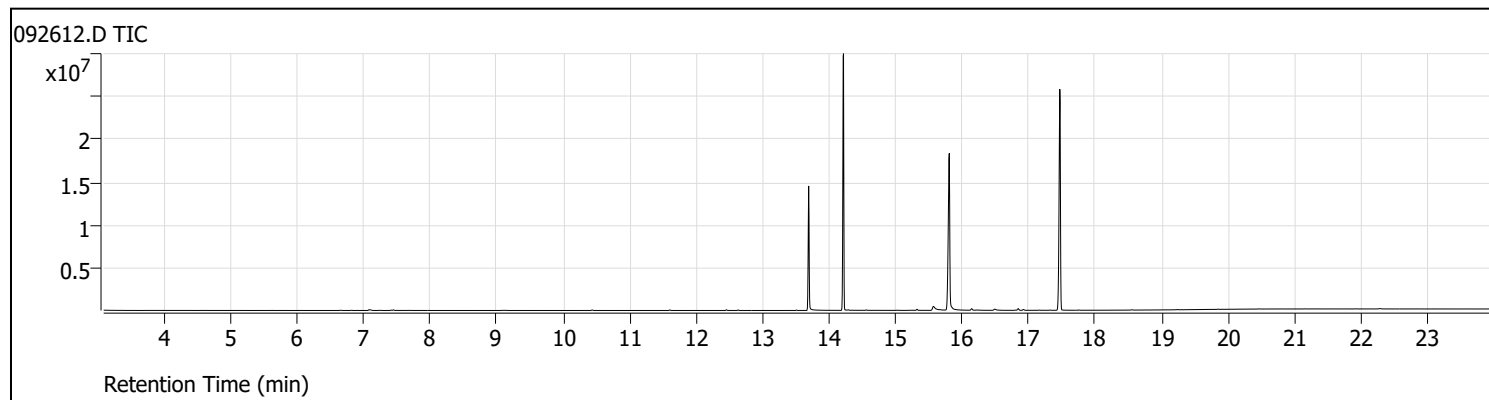
+ Scan (rt: 15.825 min) 091409.D Benzidine



Compound Name	Expected RT	Observed RT	Tailing Factor	PGF	Pass/Fail
Pentachlorophenol	13.700	13.701	0.5	3.1	Pass
Benzidine	15.800	15.825	0.3	1.7	Pass

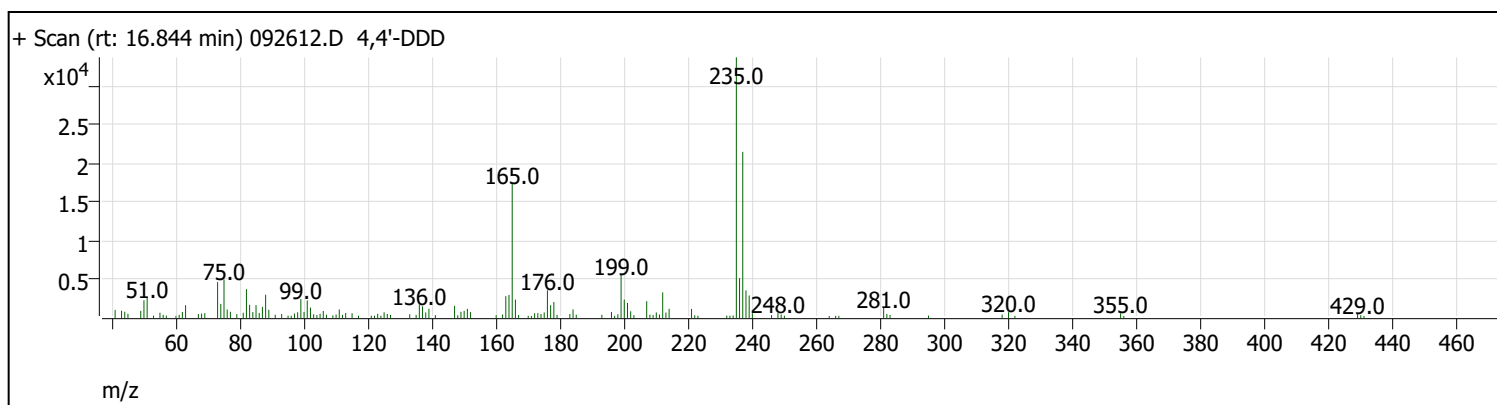
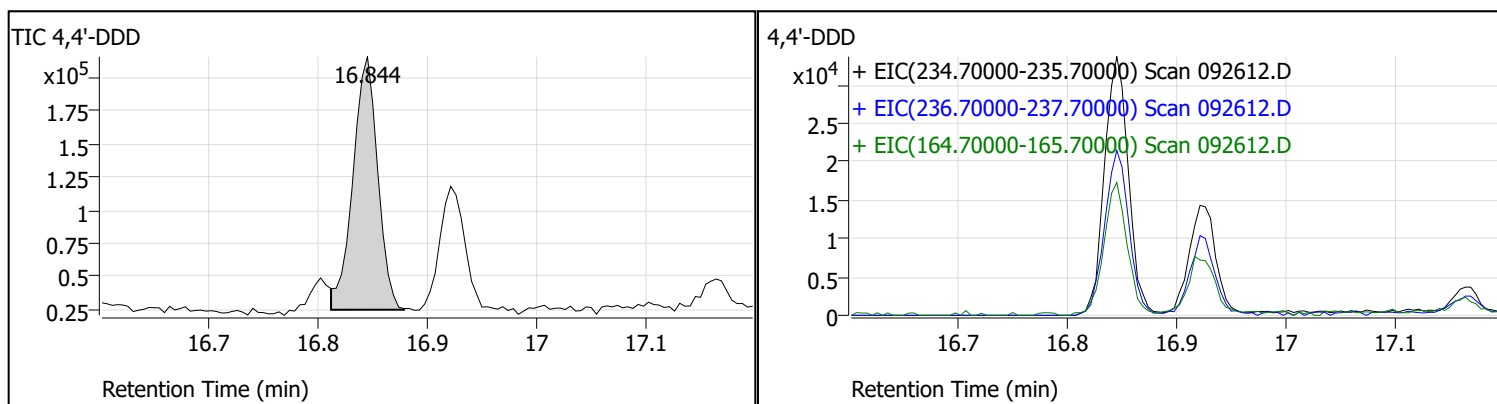
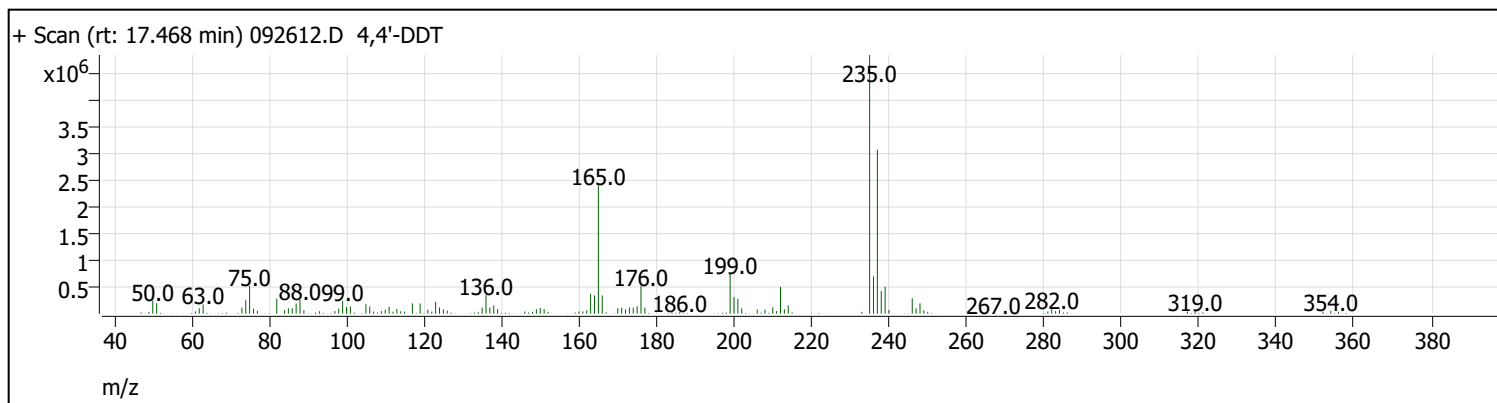
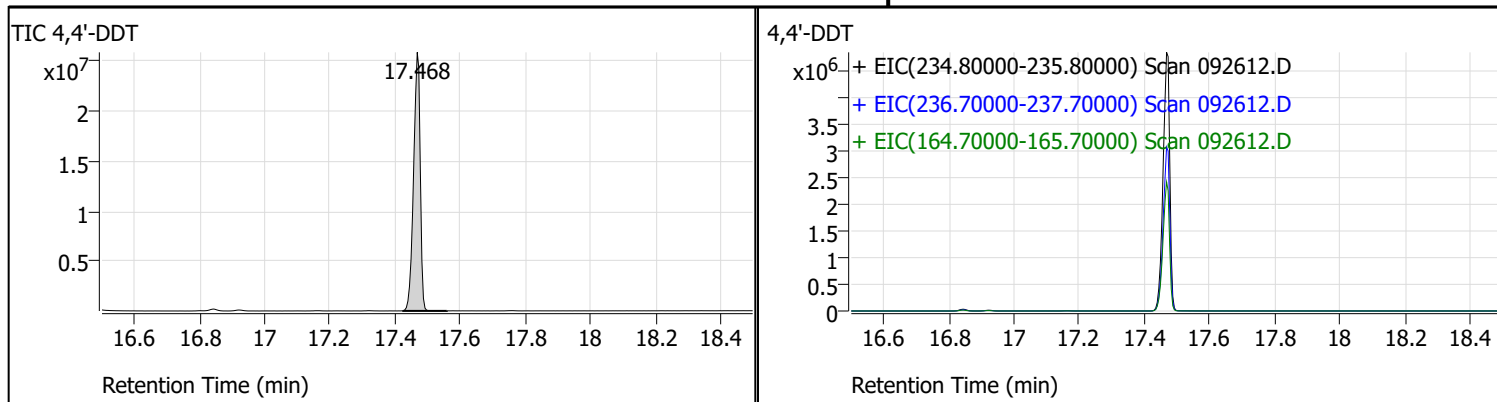
Tune Evaluation Report

Data Path: C:\GC-14\Data\2023\092623\092612.D
 Acq on: 9/26/2023 8:28:47 PM
 Operator: FA\GC14
 Sample: tune
 Inst Name: GC-14
 ALS Vial: 1
 Method: C:\GC-14\Methods\Quant
 Methods\TUNE\DFTPPwBreak&TailingGC218270E.m



Target Mass	Rel. To Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Pass/Fail
68	69	0	2	1.4	17848	Pass
70	69	0	2	0.5	6811	Pass
197	198	0	2	0.7	22456	Pass
198	198	100	100	100.0	3133952	Pass
199	198	5	9	6.6	207808	Pass
365	442	1	100	4.5	151232	Pass
441	443	1E-10	150	78.4	513664	Pass
442	442	100	100	100.0	3394048	Pass
443	442	15	24	19.3	655424	Pass
69	69	100	100	100.0	1260032	Pass

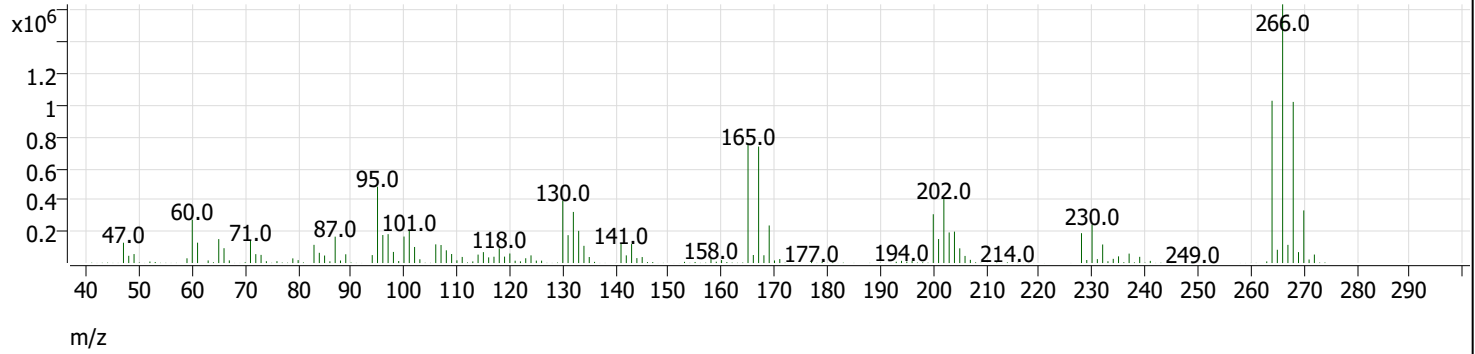
Tune Evaluation Report



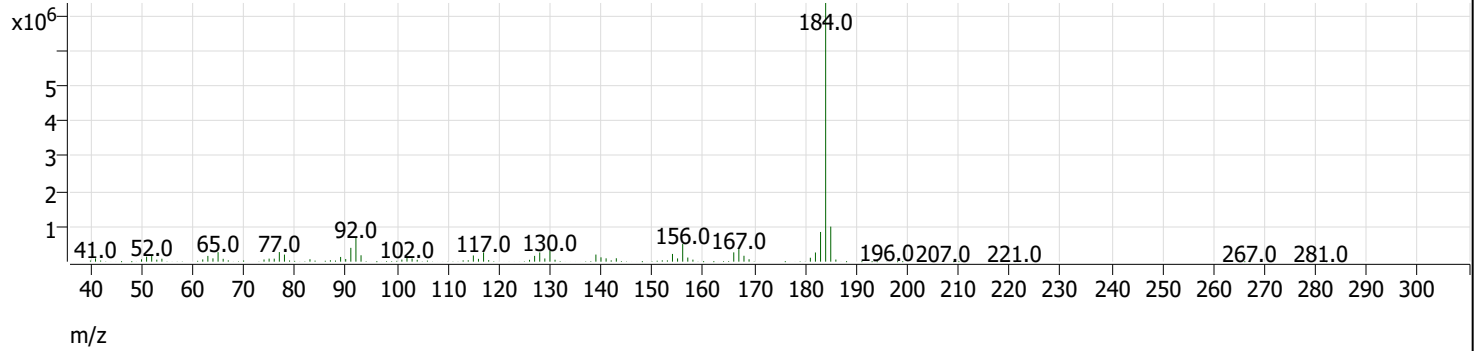
Compound Name	Expected RT	Observed RT	TIC Area	Breakdown %	Pass/Fail
4,4'-DDT	17.500	17.468	36457342	0.8	Pass
4,4'-DDD	16.900	16.844	300840		

Tune Evaluation Report

+ Scan (rt: 13.692 min) 092612.D Pentachlorophenol



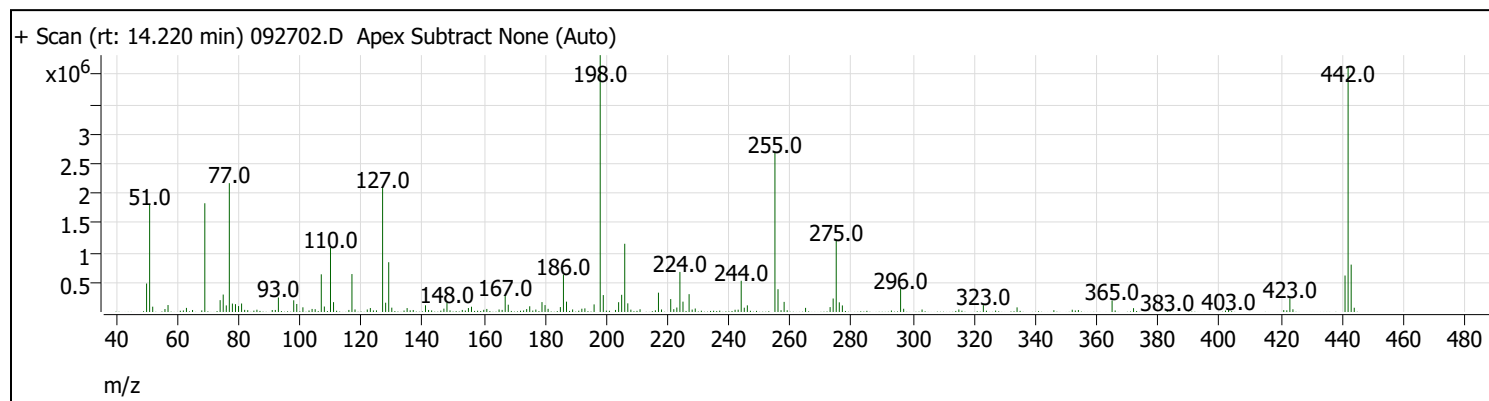
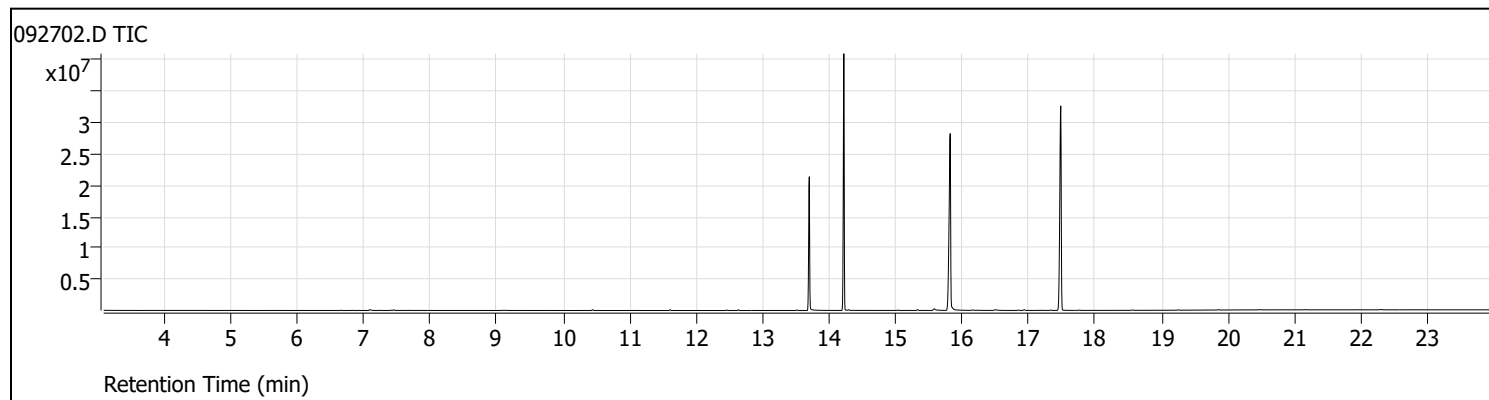
+ Scan (rt: 15.806 min) 092612.D Benzidine



Compound Name	Expected RT	Observed RT	Tailing Factor	PGF	Pass/Fail
Pentachlorophenol	13.700	13.692	0.9	22.2	Pass
Benzidine	15.800	15.806	0.5	14.2	Pass

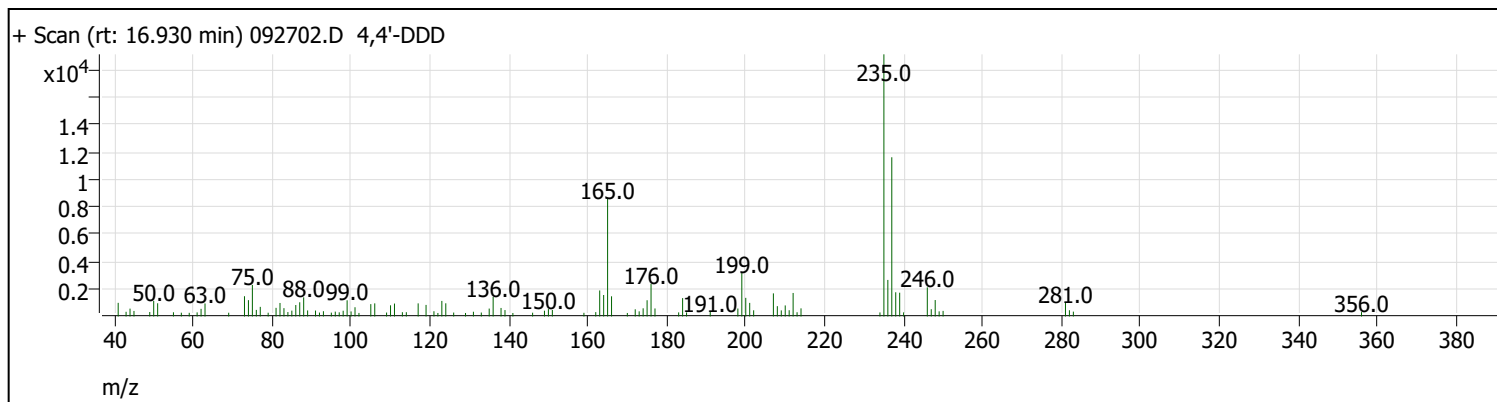
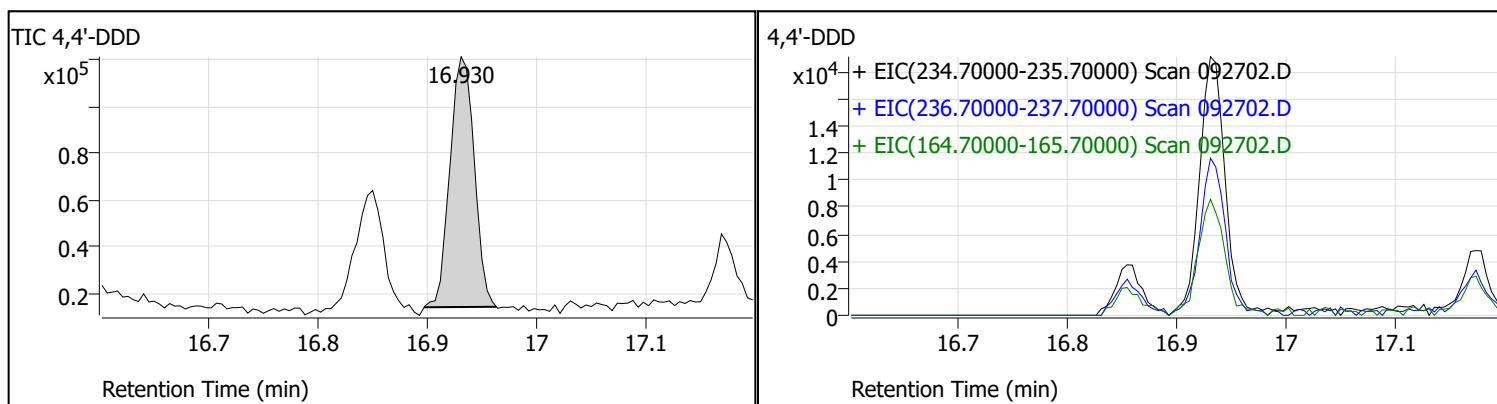
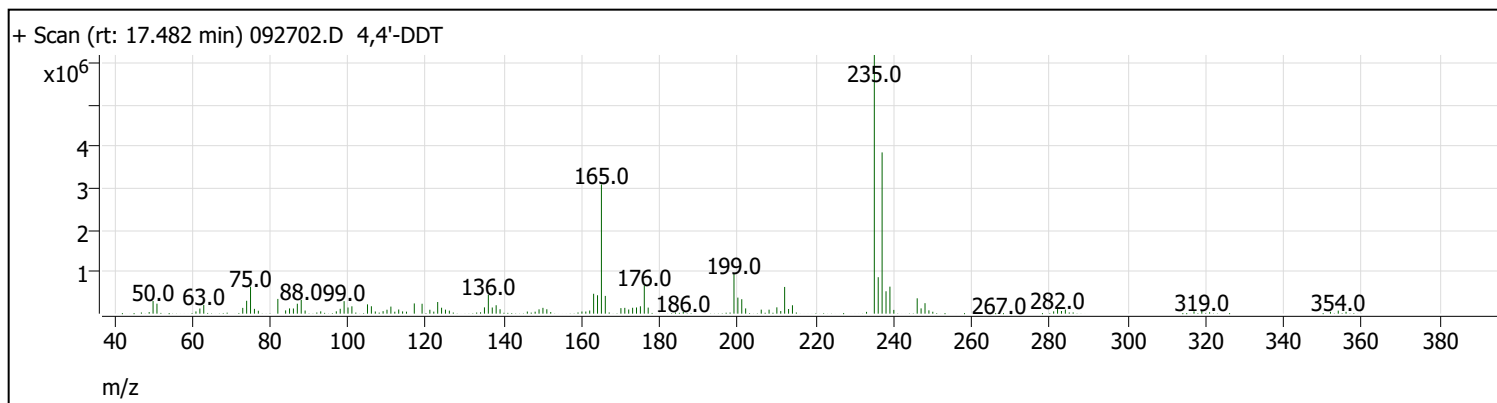
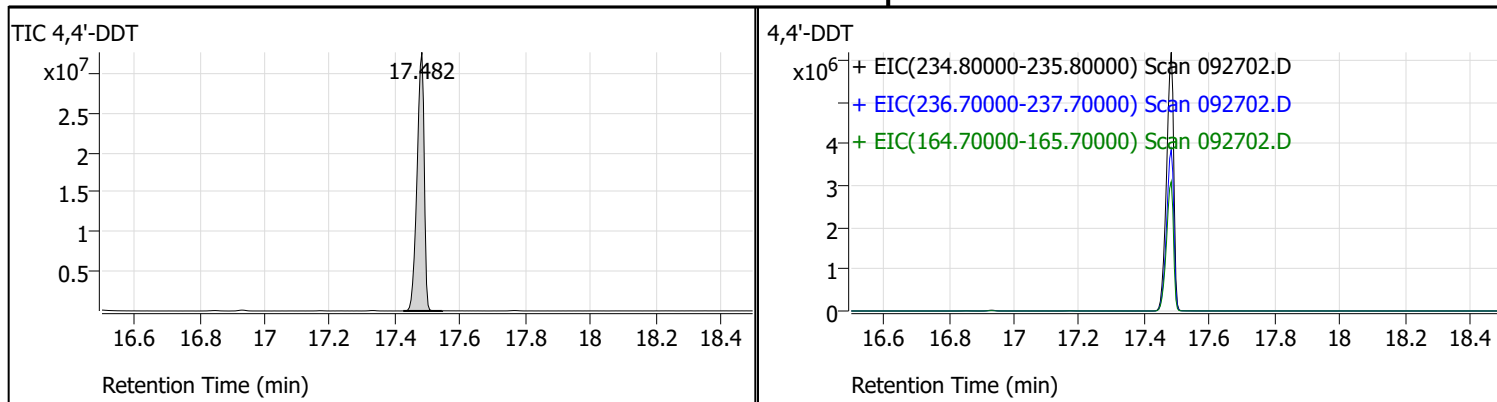
Tune Evaluation Report

Data Path: C:\GC-14\Data\2023\092723\092702.D
 Acq on: 9/27/2023 9:22:57 AM
 Operator: FA\GC14
 Sample: tune
 Inst Name: GC-14
 ALS Vial: 1
 Method: C:\GC-14\Methods\Quant
 Methods\TUNE\DFTPPwBreak&TailingGC218270E.m



Target Mass	Rel. To Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Pass/Fail
68	69	0	2	1.5	26696	Pass
70	69	0	2	0.5	10069	Pass
197	198	0	2	0.0	0	Pass
198	198	100	100	100.0	4328960	Pass
199	198	5	9	6.6	285056	Pass
365	198	1	100	4.5	194752	Pass
441	443	1E-10	150	77.0	614592	Pass
442	442	100	100	100.0	4133888	Pass
443	442	15	24	19.3	798400	Pass
69	69	100	100	100.0	1832448	Pass

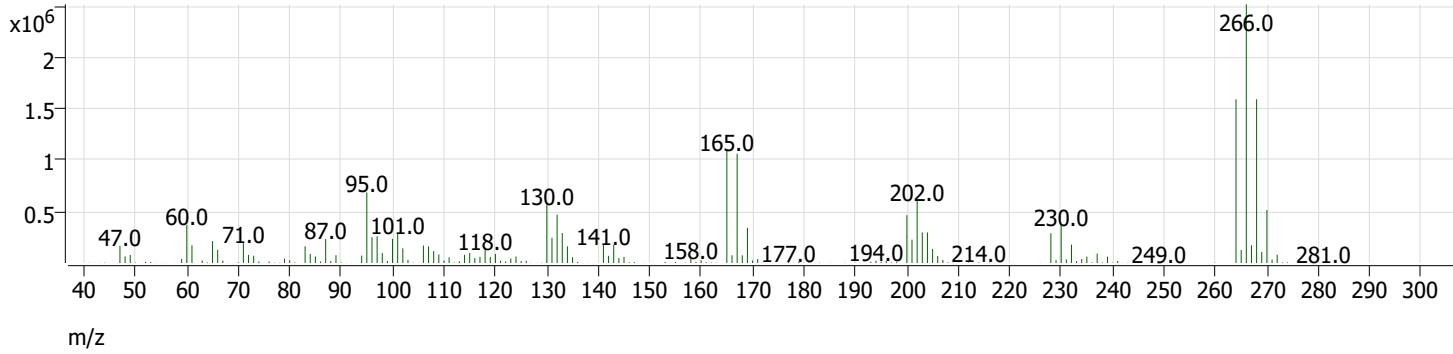
Tune Evaluation Report



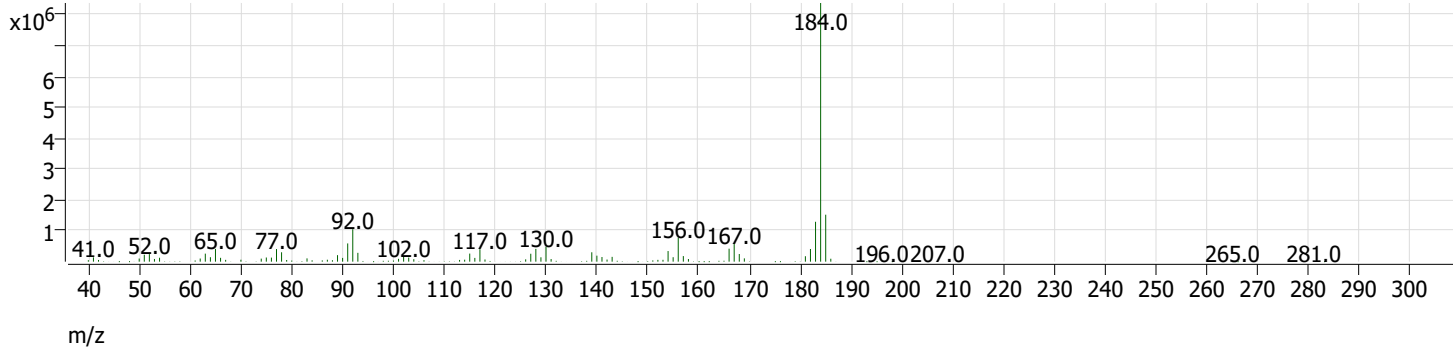
Compound Name	Expected RT	Observed RT	TIC Area	Breakdown %	Pass/Fail
4,4'-DDT	17.500	17.482	49685748	0.3	Pass
4,4'-DDD	16.900	16.930	164699		

Tune Evaluation Report

+ Scan (rt: 13.701 min) 092702.D Pentachlorophenol



+ Scan (rt: 15.820 min) 092702.D Benzidine



Compound Name	Expected RT	Observed RT	Tailing Factor	PGF	Pass/Fail
Pentachlorophenol	13.700	13.701	0.6	20.5	Pass
Benzidine	15.800	15.820	0.4	13.0	Pass



Internal Standards

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-14 230927B CCV Name: CAL MIDPOINT
 Run No: 86776 CCV SeqNo: 1810654
 Lab File ID (Standard): 091417.D Date Analyzed: 9/14/2023
 Instrument ID: GC-14 Time Analyzed: 18:41
 GC Column: ID (mm): Length (M):

	IS1 (14DCBZ)		IS2 Acenaphthene-d10		IS3 Chrysene-d12		IS4 Naphthalene-d8	
	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	0	0.000	273179	12.051	476595	18.382	489690	9.821
UPPER LIMIT	0	0.500	546358	12.551	953190	18.882	979380	10.321
LOWER LIMIT	0	-0.500	136590	11.551	238298	17.882	244845	9.321
SAMPLE NO.								
01	CCV-41588A	0	380195	12.051	611039	18.384	678933	9.817
02	QCS-41588A	0	420266	12.057	690018	18.386	741966	9.826
03	CCV-41588B	0	417286	12.051	687115	18.387	739611	9.821
04	QCS-41588B	0	434756	12.051	700515	18.387	768946	9.821

IS1 (14DCBZ) = 1,4-Dichlorobenzene-d4

IS3 Chrysene-d12 = Chrysene-d12

IS2 Acenaphthene-d10 = Acenaphthene-d10

IS4 Naphthalene-d8 = Naphthalene-d8

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-14 230927B CCV Name: CAL MIDPOINT
 Run No: 86776 CCV SeqNo: 1810654
 Lab File ID (Standard): 091417.D Date Analyzed: 9/14/2023
 Instrument ID: GC-14 Time Analyzed: 18:41
 GC Column: ID (mm): Length (M):

	S5 Perylene-d12		S6 Phenanthrene-d10					
	AREA #	RT #	AREA #	RT #				
12 HOUR STD	554974	20.776	505333	13.935				
UPPER LIMIT	1109948	21.276	1010666	14.435				
LOWER LIMIT	277487	20.276	252667	13.435				
SAMPLE NO.								
01	CCV-41588A	695515	20.773	684327	13.935			
02	QCS-41588A	781633	20.777	776534	13.942			
03	CCV-41588B	784767	20.783	773931	13.942			
04	QCS-41588B	819659	20.778	790959	13.936			

IS5 Perylene-d12 = Perylene-d12

IS6 Phenanthrene-d10 = Phenanthrene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-14 230927B CCV Name: CCV-41588A
 Run No: 86776 CCV SeqNo: 1810655
 Lab File ID (Standard): 092613.D Date Analyzed: 9/26/2023
 Instrument ID: GC-14 Time Analyzed: 20:57
 GC Column: ID (mm): Length (M):

	IS1 (14DCBZ)		2 Acenaphthene-d		IS3 Chrysene-d12		S4 Naphthalene-d8	
	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	0	0.000	380195	12.051	611039	18.384	678933	9.817
UPPER LIMIT	0	0.500	760390	12.551	1222078	18.884	1357866	10.317
LOWER LIMIT	0	-0.500	190098	11.551	305520	17.884	339467	9.317
SAMPLE NO.								
01 MB-41588	0	0	313800	12.051	454295	18.382	642645	9.821
02 LCS-41588	0	0	381279	12.051	602370	18.38	686373	9.821
03 2309234-061A	0	0	334577	12.051	481105	18.387	687270	9.821
04 2309234-061AMS	0	0	353304	12.051	547463	18.381	638228	9.821
05 2309234-061AMSD	0	0	371018	12.051	569134	18.381	681092	9.821
06 2309234-063A	0	0	344125	12.051	598820	18.387	692124	9.821
07 2309261-001A	0	0	325074	12.051	499385	18.387	653393	9.821
08 2309275-001A	0	0	312140	12.051	467820	18.387	645568	9.821
09 2309297-002A	0	0	375237	12.051	509489	18.459	652537	9.821
10 2309343-001A	0	0	323735	12.051	517027	18.384	631203	9.821
11 2309343-002A	0	0	330750	12.051	497702	18.384	660585	9.821
12 2309343-003A	0	0	330801	12.051	492102	18.384	664885	9.821
13 2309343-004A	0	0	316325	12.057	462193	18.387	639350	9.826
14 2309387-001A	0	0	640278	12.057	1.05879e+006	18.391	1.20712e+006	9.821

IS1 (14DCBZ) = 1,4-Dichlorobenzene-d4

IS2 Acenaphthene-d10 = Acenaphthene-d10

IS3 Chrysene-d12 = Chrysene-d12

IS4 Naphthalene-d8 = Naphthalene-d8

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-14 230927B CCV Name: CCV-41588A
 Run No: 86776 CCV SeqNo: 1810655
 Lab File ID (Standard): 092613.D Date Analyzed: 9/26/2023
 Instrument ID: GC-14 Time Analyzed: 20:57
 GC Column: ID (mm): Length (M):

	S5 Perylene-d12		S6 Phenanthrene-d10					
	AREA #	RT #	AREA #	RT #				
12 HOUR STD	695515	20.773	684327	13.935				
UPPER LIMIT	1391030	21.273	1368654	14.435				
LOWER LIMIT	347758	20.273	342164	13.435				
SAMPLE NO.								
01 MB-41588	563551	20.776	583687	13.935				
02 LCS-41588	677897	20.774	686750	13.936				
03 2309234-061A	585494	20.778	628195	13.935				
04 2309234-061AMS	624952	20.775	633980	13.935				
05 2309234-061AMSD	648180	20.775	662996	13.935				
06 2309234-063A	684266	20.778	654738	13.942				
07 2309261-001A	598912	20.778	607198	13.942				
08 2309275-001A	582235	20.778	569081	13.942				
09 2309297-002A	371844	20.822	768988	13.942				
10 2309343-001A	597781	20.778	626973	13.942				
11 2309343-002A	590489	20.778	629631	13.942				
12 2309343-003A	588144	20.778	621896	13.942				
13 2309343-004A	560034	20.778	602410	13.942				
14 2309387-001A	1.20352e+006	20.778	1.24358e+006	13.942				

IS5 Perylene-d12 = Perylene-d12

IS6 Phenanthrene-d10 = Phenanthrene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-14 230927B CCV Name: CCV-41588B
 Run No: 86776 CCV SeqNo: 1810671
 Lab File ID (Standard): 092703.D Date Analyzed: 9/27/2023
 Instrument ID: GC-14 Time Analyzed: 9:51
 GC Column: ID (mm): Length (M):

	IS1 (14DCBZ)		2 Acenaphthene-d		IS3 Chrysene-d12		S4 Naphthalene-d	
	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	0	0.000	417286	12.051	687115	18.387	739611	9.821
UPPER LIMIT	0	0.500	834572	12.551	1374230	18.887	1479222	10.321
LOWER LIMIT	0	-0.500	208643	11.551	343558	17.887	369806	9.321
SAMPLE NO.								
01 2309387-001A	0	0	327698	12.051	529311	18.387	657821	9.821

IS1 (14DCBZ) = 1,4-Dichlorobenzene-d4

IS3 Chrysene-d12 = Chrysene-d12

IS2 Acenaphthene-d10 = Acenaphthene-d10

IS4 Naphthalene-d8 = Naphthalene-d8

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-14 230927B CCV Name: CCV-41588B
 Run No: 86776 CCV SeqNo: 1810671
 Lab File ID (Standard): 092703.D Date Analyzed: 9/27/2023
 Instrument ID: GC-14 Time Analyzed: 9:51
 GC Column: ID (mm): Length (M):

	S5 Perylene-d12		S6 Phenanthrene-d10					
	AREA #	RT #	AREA #	RT #				
12 HOUR STD	784767	20.783	773931	13.942				
UPPER LIMIT	1569534	21.283	1547862	14.442				
LOWER LIMIT	392384	20.283	386966	13.442				
SAMPLE NO.								
01 2309387-001A	648670	20.782	627578	13.935				

IS5 Perylene-d12 = Perylene-d12

IS6 Phenanthrene-d10 = Phenanthrene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

DATA SET for Review - Deliverable Requirements

Volatile Organic Compounds by EPA Method 8260D

Fremont Analytical Work Order No. 2309343

GeoEngineers

Project Name: South Jackson Street

Project Number: 24504-001-03

This data set contains the following:

- Analytical Sequence Summary
- Calibration Information
- Tune Information
- Internal Standards Report

Data Directory: D:\GC-19\Data\091823A\

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) 091801.D	8260.M			
R	O-VOC-W		1.000	18 Sep 2023 13:12

2) 091802.D	8260.M			
HCl rinse	O-VOC-W	1	1.000	18 Sep 2023 13:42

3) 091803.D	8260.M			
HCl rinse	O-VOC-W	1	1.000	18 Sep 2023 14:12

4) 091804.D	8260.M			
HCl rinse	O-VOC-W	2	1.000	18 Sep 2023 14:42

5) 091805.D	8260.M			
HCl rinse	O-VOC-W	2	1.000	18 Sep 2023 15:13

6) 091806.D	8260.M			
HCl rinse	O-VOC-W	3	1.000	18 Sep 2023 15:43

7) 091807.D	8260.M			
VOC S CCV A	O-VOC-S	7	1.000	18 Sep 2023 16:13

8) 091808.D	8260.M			
GX CCV A	O-VOC-GX-S	8	1.000	18 Sep 2023 16:43

9) 091809.D	8260.M			
R	O-VOC-W		1.000	18 Sep 2023 17:12

10) 091810.D	8260.M			
HCl rinse	O-VOC-W	4	1.000	18 Sep 2023 17:42

11) 091811.D	8260.M			
HCl rinse	O-VOC-W	4	1.000	18 Sep 2023 18:12

12) 091812.D	8260.M			
MeOH rinse	O-VOC-W	5	1.000	18 Sep 2023 18:42

13) 091815.D	8260.M			
MeOH rinse	O-VOC-W	6	1.000	18 Sep 2023 19:13

14) 091816.D	8260.M			
R	O-VOC-W		1.000	18 Sep 2023 19:42

15) 091817.D	8260.M			
R	O-VOC-W		1.000	18 Sep 2023 20:11

16) 091818.D	8260.M			
R	O-VOC-W		1.000	18 Sep 2023 20:40

17) 091819.D	8260.M			
R	O-VOC-W		1.000	18 Sep 2023 21:08

18) 091820.D	8260.M			
R	O-VOC-W		1.000	18 Sep 2023 21:37

19) 091821.D	8260.M			
VOC W CAL 1	O-VOC-W	9	1.000	18 Sep 2023 22:08

20) 091822.D	8260.M			
VOC W CAL 2	O-VOC-W	10	1.000	18 Sep 2023 22:38

21) 091823.D	8260.M			
VOC W CAL 3	O-VOC-W	11	1.000	18 Sep 2023 23:08

22)	091824.D	8260.M				
VOC W CAL 4	O-VOC-W		12	1.000	18 Sep 2023	23:38

23)	091825.D	8260.M				
VOC W CAL 5	O-VOC-W		13	1.000	19 Sep 2023	00:08

24)	091826.D	8260.M				
VOC W CAL 6	O-VOC-W		14	1.000	19 Sep 2023	00:38

25)	091827.D	8260.M				
VOC W CAL 7	O-VOC-W		15	1.000	19 Sep 2023	01:08

26)	091828.D	8260.M				
VOC W CAL 8	O-VOC-W		16	1.000	19 Sep 2023	01:39

27)	091829.D	8260.M				
VOC W CAL 9	O-VOC-W		17	1.000	19 Sep 2023	02:09

28)	091830.D	8260.M				
R	O-VOC-W			1.000	19 Sep 2023	02:38

29)	091831.D	8260.M				
R	O-VOC-W			1.000	19 Sep 2023	03:07

30)	091832.D	8260.M				
R	O-VOC-W			1.000	19 Sep 2023	03:36

31)	091833.D	8260.M				
VOC W ICB	O-VOC-W		18	1.000	19 Sep 2023	04:06

32)	091834.D	8260.M				
VOC W ICV	O-VOC-W		19	1.000	19 Sep 2023	04:36

33)	091835.D	8260.M				
R	O-VOC-W			1.000	19 Sep 2023	05:05

34)	091836.D	8260.M				
R	O-VOC-W			1.000	19 Sep 2023	05:34

35)	091837.D	8260.M				
R	O-VOC-W			1.000	19 Sep 2023	06:03

36)	091838.D	8260.M				
R	O-VOC-W			1.000	19 Sep 2023	06:32

37)	091904.D	8260.M				
VOC W CAL 3	O-VOC-W		4	1.000	19 Sep 2023	10:17

Data Directory: D:\GC-19\Data\092523\

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) 092550.D No data found	8260.M		0.000	N/A
2) 092501.D R	8260.M O-VOC-W		1.000	25 Sep 2023 08:28
3) 092502.D VOC W CCV A	8260.M O-VOC-W	1	1.000	25 Sep 2023 08:58
4) 092503.D VOC S CCV A	8260.M O-VOC-W	2	1.000	25 Sep 2023 09:28
5) 092504.D GX CCV A	8260.M O-VOC-W	3	1.000	25 Sep 2023 09:58
6) 092505.D 1122 TETRA TEST	8260.M O-VOC-W	4	1.000	25 Sep 2023 10:28
7) 092506.D R	8260.M O-VOC-W		1.000	25 Sep 2023 10:57
8) 092507.D MB S	8260.M O-VOC-S	5	1.000	25 Sep 2023 11:27
9) 092508.D 2309261-001B	8260.M O-VOC-S	6	1.000	25 Sep 2023 11:57
10) 092509.D 2309261-001BDUP	8260.M O-VOC-S	7	1.000	25 Sep 2023 12:28
11) 092510.D 2309343-001B	8260.M O-VOC-S	8	1.000	25 Sep 2023 12:58
12) 092511.D 2309343-002B	8260.M O-VOC-S	9	1.000	25 Sep 2023 13:28
13) 092512.D 2309343-003B	8260.M O-VOC-S	10	1.000	25 Sep 2023 13:58
14) 092513.D 2309343-004B	8260.M O-VOC-S	11	1.000	25 Sep 2023 14:28
15) 092514.D 2309343-001BMS VOC	8260.M O-VOC-S	12	1.000	25 Sep 2023 14:58
16) 092515.D 2309343-002BMS GX	8260.M O-VOC-S	13	1.000	25 Sep 2023 15:29
17) 092516.D R	8260.M O-VOC-S		1.000	25 Sep 2023 15:58
18) 092517.D GX CCV B	8260.M O-VOC-S	14	1.000	25 Sep 2023 16:28
19) 092518.D VOC W CCV B	8260.M O-VOC-W	15	1.000	25 Sep 2023 16:58
20) 092519.D R	8260.M O-VOC-S		1.000	25 Sep 2023 17:27
21) 092520.D 2309364-002B	8260.M O-VOC-S	16	1.000	25 Sep 2023 17:57

22)	092521.D		8260.M				
	2309364-001B	O-VOC-S		17	1.000	25 Sep 2023	18:27

	23) 092522.D		8260.M				
R		O-VOC-W			1.000	25 Sep 2023	18:56

	24) 092523.D		8260.M				
R		O-VOC-W			1.000	25 Sep 2023	19:25

	25) 092524.D		8260.M				
MB W		O-VOC-W		18	1.000	25 Sep 2023	19:55

	26) 092525.D		8260.M				
	2309136-004A 10,000X	O-VOC-W		19	1.000	25 Sep 2023	20:25

	27) 092526.D		8260.M				
	2309137-033A 500X	O-VOC-W		36	1.000	25 Sep 2023	20:56

	28) 092527.D		8260.M				
R		O-VOC-W			1.000	25 Sep 2023	21:24

	29) 092528.D		8260.M				
	2309136-011A	O-VOC-W		20	1.000	25 Sep 2023	21:55

	30) 092529.D		8260.M				
	2309136-017A	O-VOC-W		21	1.000	25 Sep 2023	22:25

	31) 092530.D		8260.M				
	2309137-001A	O-VOC-W		22	1.000	25 Sep 2023	22:55

	32) 092531.D		8260.M				
	2309137-022A	O-VOC-W		23	1.000	25 Sep 2023	23:25

	33) 092532.D		8260.M				
	2309137-023A	O-VOC-W		24	1.000	25 Sep 2023	23:55

	34) 092533.D		8260.M				
	2309137-021A	O-VOC-W		25	1.000	26 Sep 2023	00:25

	35) 092534.D		8260.M				
R		O-VOC-W			1.000	26 Sep 2023	00:54

	36) 092535.D		8260.M				
	2309169-007A	O-VOC-W		26	1.000	26 Sep 2023	01:25

	37) 092536.D		8260.M				
	2309169-008A	O-VOC-W		27	1.000	26 Sep 2023	01:55

	38) 092537.D		8260.M				
	2309169-009A	O-VOC-W		28	1.000	26 Sep 2023	02:25

	39) 092538.D		8260.M				
	2309169-010A	O-VOC-W		29	1.000	26 Sep 2023	02:55

	40) 092539.D		8260.M				
	2309169-011A	O-VOC-W		30	1.000	26 Sep 2023	03:25

	41) 092540.D		8260.M				
	2309169-012A	O-VOC-W		31	1.000	26 Sep 2023	03:55

	42) 092541.D		8260.M				
	2309169-019A	O-VOC-W		32	1.000	26 Sep 2023	04:26

	43) 092542.D		8260.M				
	2309169-019ADUP	O-VOC-W		33	1.000	26 Sep 2023	04:56

	44) 092543.D		8260.M				
	2309169-007AMS VOC	O-VOC-W		34	1.000	26 Sep 2023	05:26

	45) 092544.D		8260.M				

2309169-008AMS GX	O-VOC-W		35	1.000	26 Sep 2023	05:56

46) 092545.D	8260.M					
R	O-VOC-W			1.000	26 Sep 2023	06:25

47) 092546.D	8260.M					
VOC W CCV C	O-VOC-W	37		1.000	26 Sep 2023	06:55

48) 092547.D	8260.M					
GX CCV C	O-VOC-W	38		1.000	26 Sep 2023	07:25

49) 092548.D	8260.M					
R	O-VOC-W			1.000	26 Sep 2023	07:54

50) 092549.D	8260.M					
2309362-001A	O-VOC-W	39		1.000	26 Sep 2023	08:25



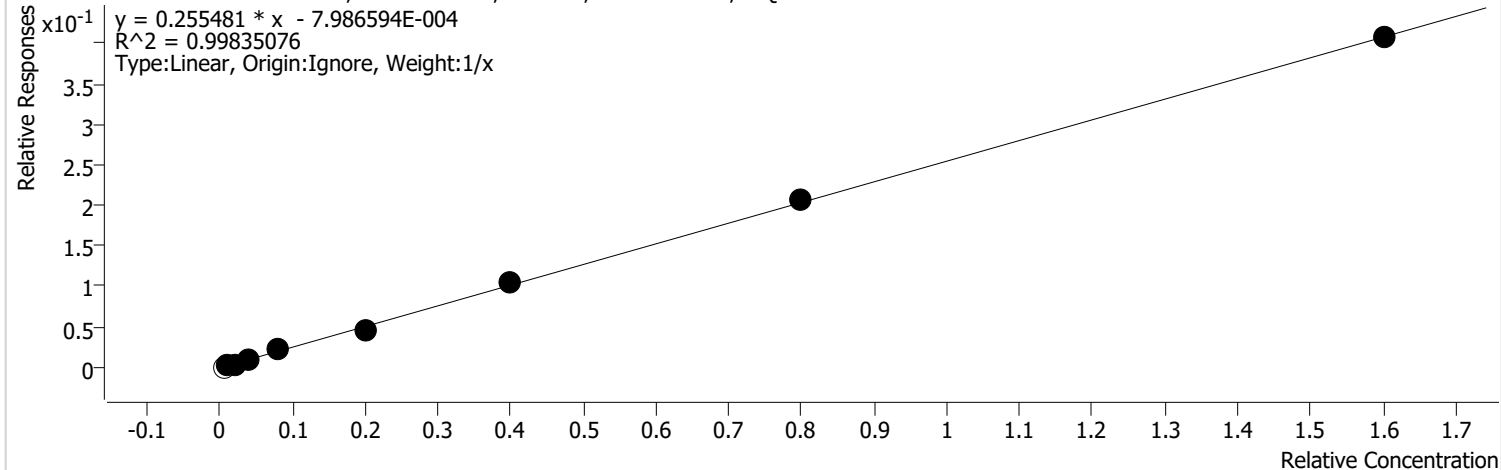
Calibration

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\loc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:51 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Dichlorodifluoromethane %RSE = 9.7

Dichlorodifluoromethane - 9 Levels, 8 Levels Used, 9 Points, 8 Points Used, 0 QCs

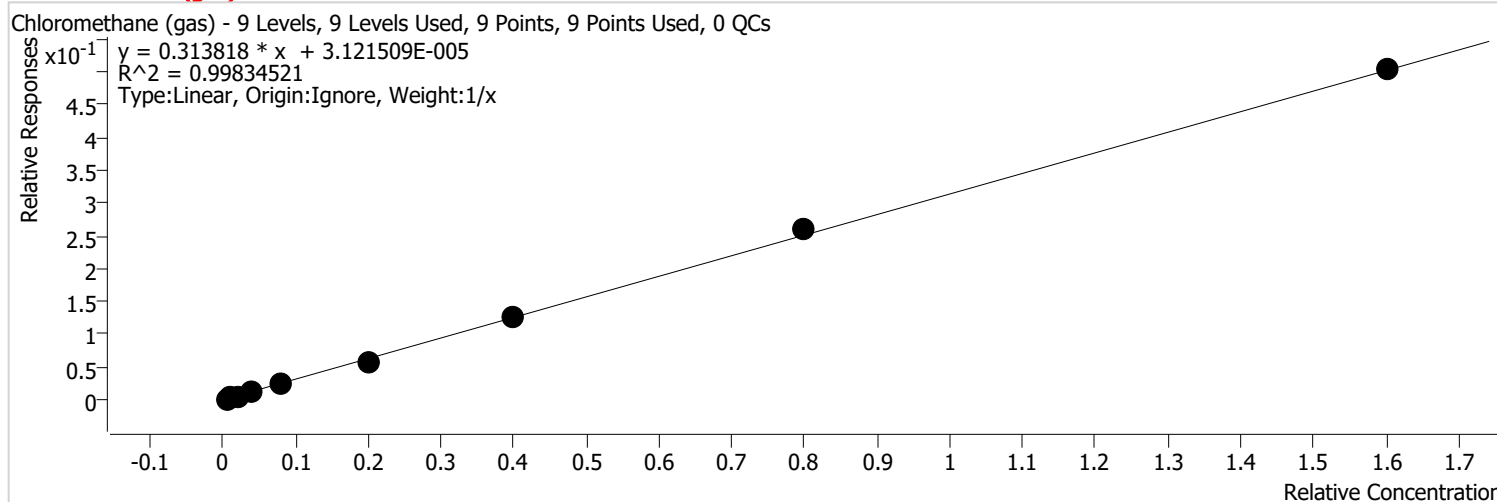


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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D:\GC-19\Data\091823A\091822.D	Calibration	2	x	2334	0.2000	0.1909	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	5745	0.5000	0.1956	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	13239	1.0000	0.2142	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	32698	2.0000	0.2694	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	66603	5.0000	0.2215	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	156219	10.0000	0.2638	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	309212	20.0000	0.2568	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	638946	40.0000	0.2544	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Chloromethane (gas) %RSE = 11.6

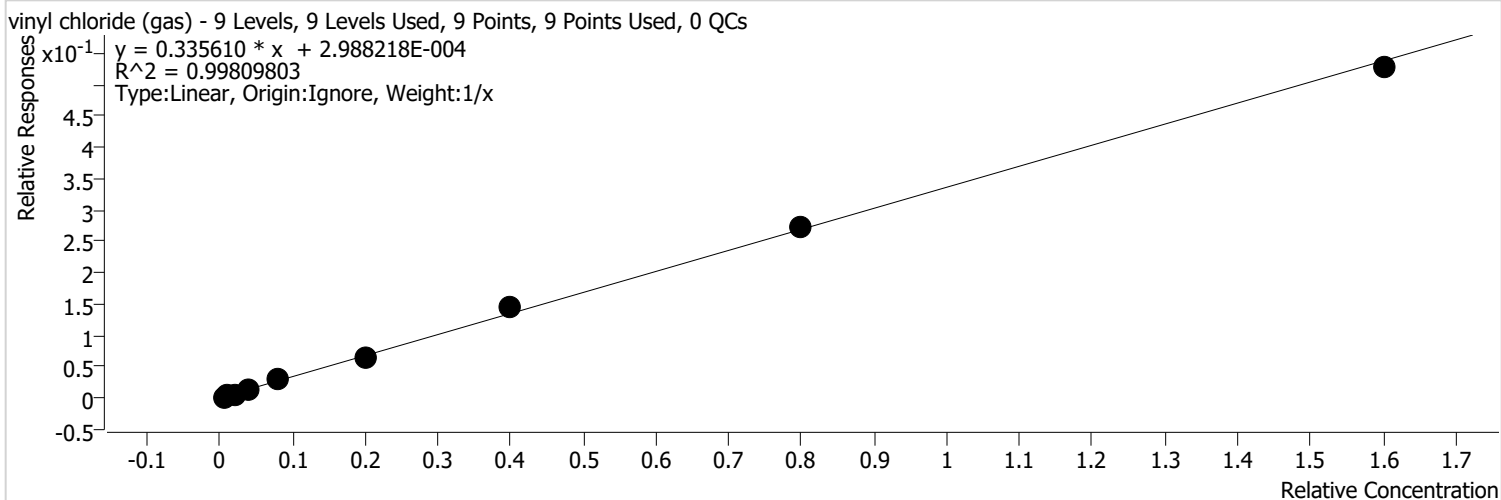


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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D:\GC-19\Data\091823A\091822.D	Calibration	2	x	4748	0.2000	0.3884	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	8318	0.5000	0.2832	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	17291	1.0000	0.2797	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	38641	2.0000	0.3184	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	82880	5.0000	0.2757	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	185456	10.0000	0.3131	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	390009	20.0000	0.3239	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	789755	40.0000	0.3145	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

vinyl chloride (gas) %RSE = 8.9

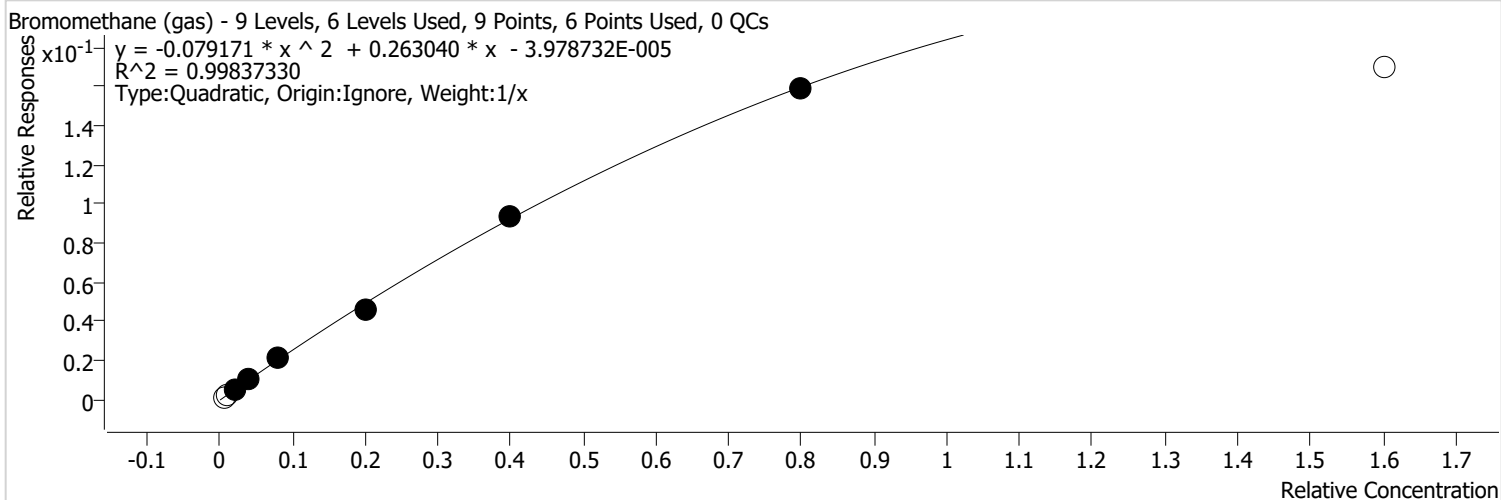


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1	x	2432	0.1000	0.3952	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	4844	0.2000	0.3962	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	9059	0.5000	0.3085	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	20311	1.0000	0.3285	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	47220	2.0000	0.3891	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	94827	5.0000	0.3154	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	212675	10.0000	0.3591	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	409978	20.0000	0.3404	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	826032	40.0000	0.3289	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Bromomethane (gas) %RSE = 7.2

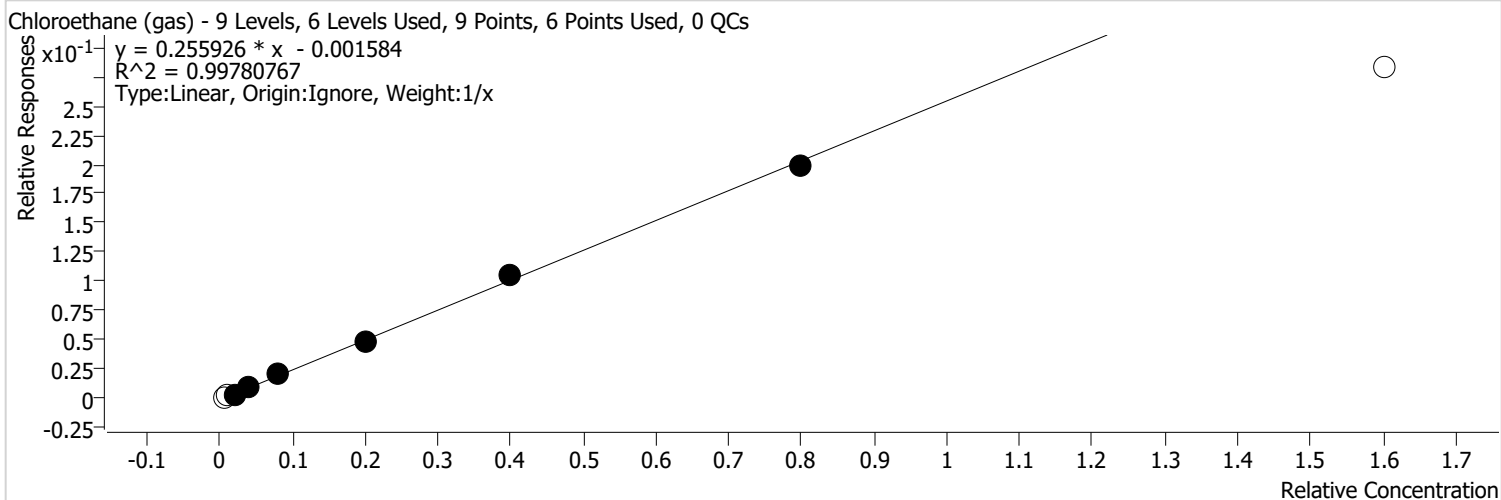


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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D:\GC-19\Data\091823A\091822.D	Calibration	2		4249	0.2000	0.3476	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	7101	0.5000	0.2418	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	16704	1.0000	0.2702	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	33151	2.0000	0.2732	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	69828	5.0000	0.2323	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	139643	10.0000	0.2358	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	239962	20.0000	0.1993	
D:\GC-19\Data\091823A\091829.D	Calibration	9		265905	40.0000	0.1059	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Chloroethane (gas) %RSE = 9.1



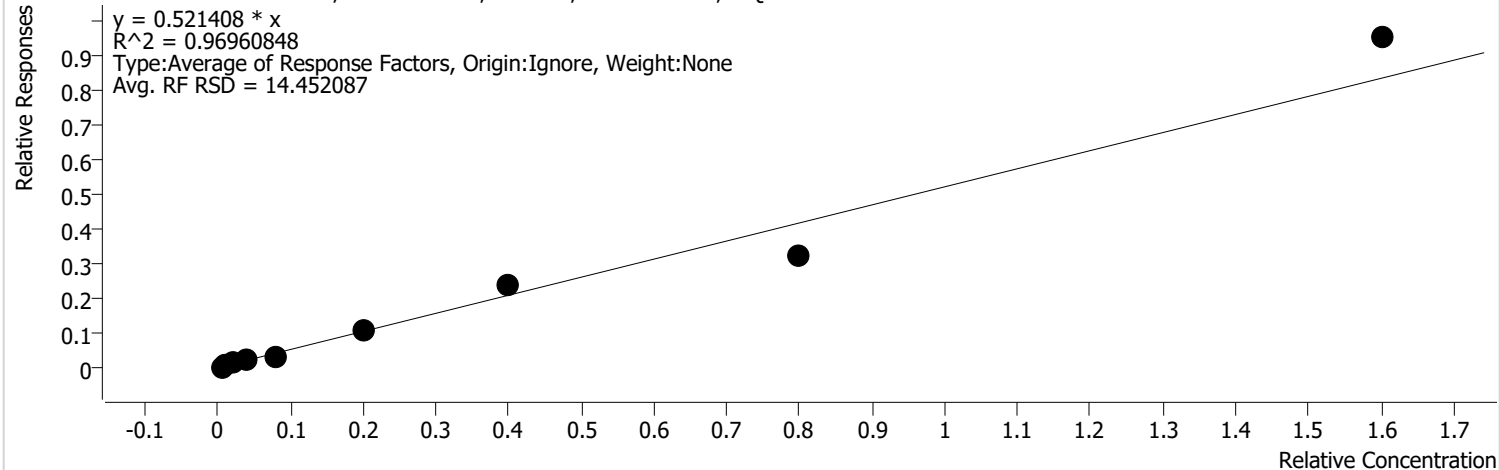
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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D:\GC-19\Data\091823A\091904.D	Calibration	3	x	4237	0.5000	0.1443	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	14234	1.0000	0.2302	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	31783	2.0000	0.2619	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	70667	5.0000	0.2351	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	155043	10.0000	0.2618	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	300834	20.0000	0.2498	
D:\GC-19\Data\091823A\091829.D	Calibration	9		443586	40.0000	0.1766	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Trichlorofluoromethane %RSE = 14.5

Trichlorofluoromethane - 9 Levels, 9 Levels Used, 9 Points, 9 Points Used, 0 QCs



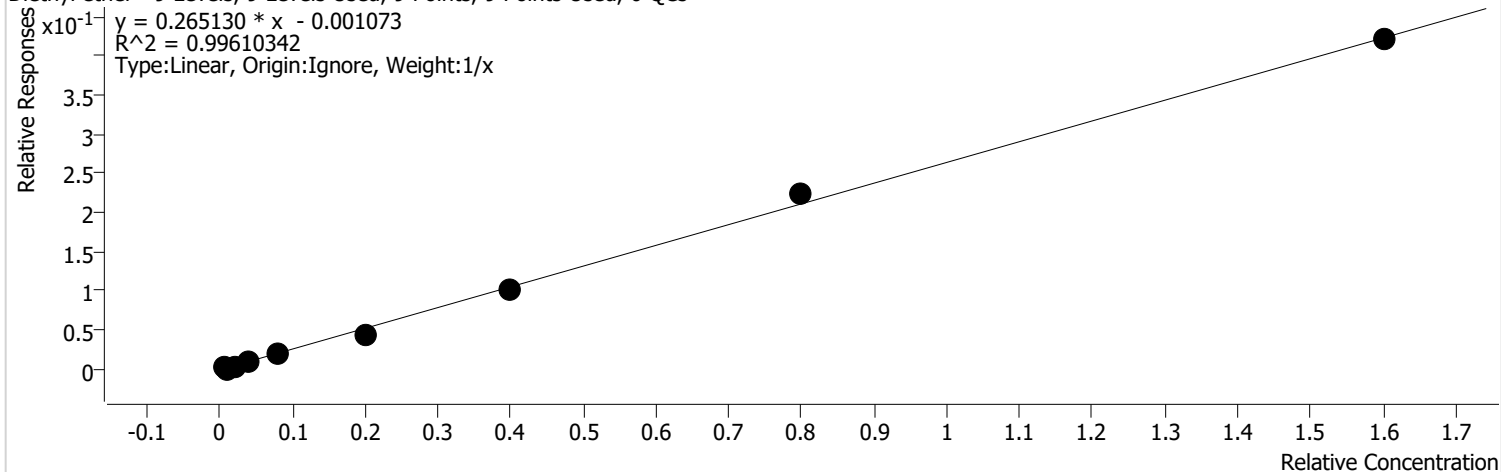
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D:\GC-19\Data\091823A\091904.D	Calibration	3	x	16551	0.5000	0.5636	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	32816	1.0000	0.5308	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	47949	2.0000	0.3951	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	156069	5.0000	0.5191	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	356925	10.0000	0.6027	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	489964	20.0000	0.4069	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	1492625	40.0000	0.5943	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Diethyl ether %RSE = 33.3

Diethyl ether - 9 Levels, 9 Levels Used, 9 Points, 9 Points Used, 0 QCs



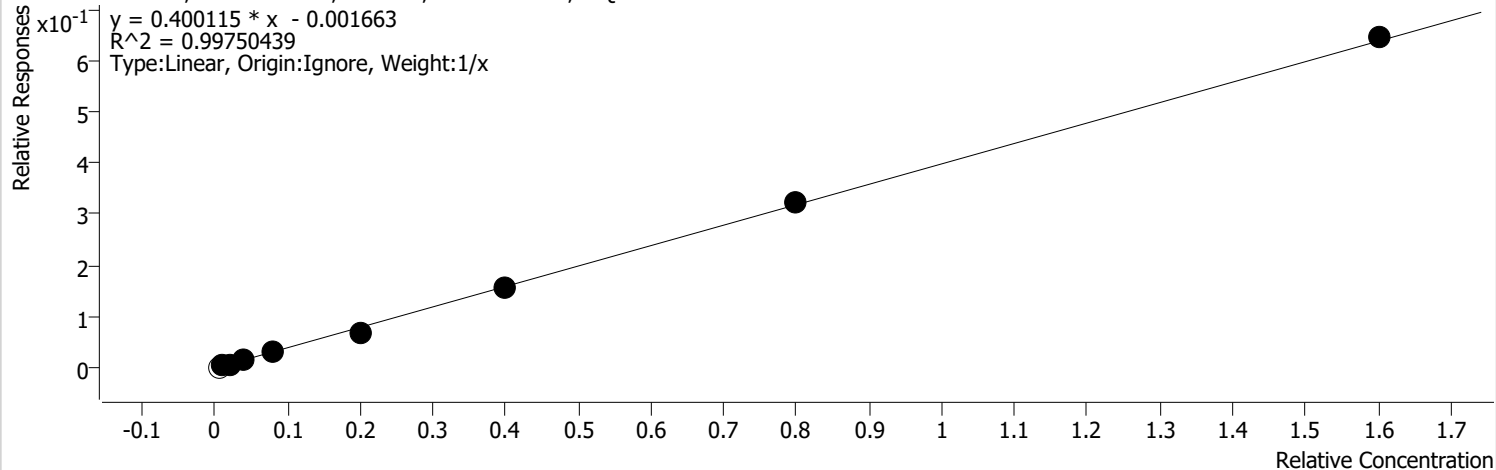
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D:\GC-19\Data\091823A\091824.D	Calibration	4	x	13164	1.0000	0.2129	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	29554	2.0000	0.2435	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	67390	5.0000	0.2242	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	151954	10.0000	0.2566	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	338835	20.0000	0.2814	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	660364	40.0000	0.2629	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

CFC 113 %RSE = 12.6

CFC 113 - 9 Levels, 8 Levels Used, 9 Points, 8 Points Used, 0 QCs

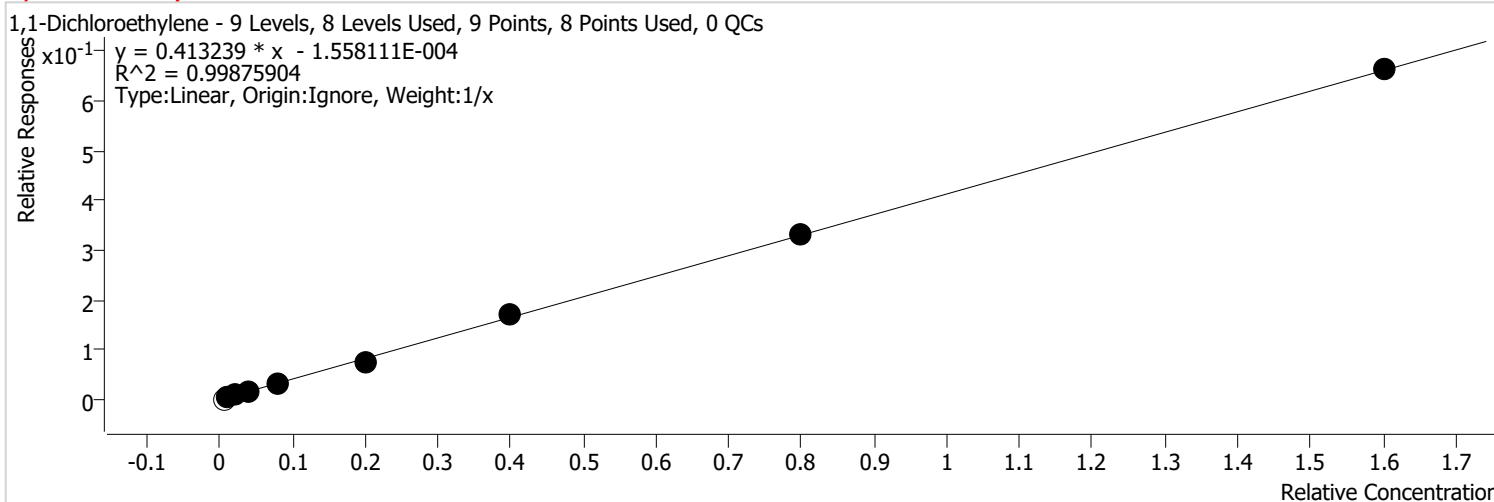


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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D:\GC-19\Data\091823A\091904.D	Calibration	3	x	8587	0.5000	0.2924	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	20372	1.0000	0.3295	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	47949	2.0000	0.3951	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	97408	5.0000	0.3240	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	233797	10.0000	0.3948	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	489964	20.0000	0.4069	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	1012618	40.0000	0.4032	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,1-Dichloroethylene %RSE = 8.1



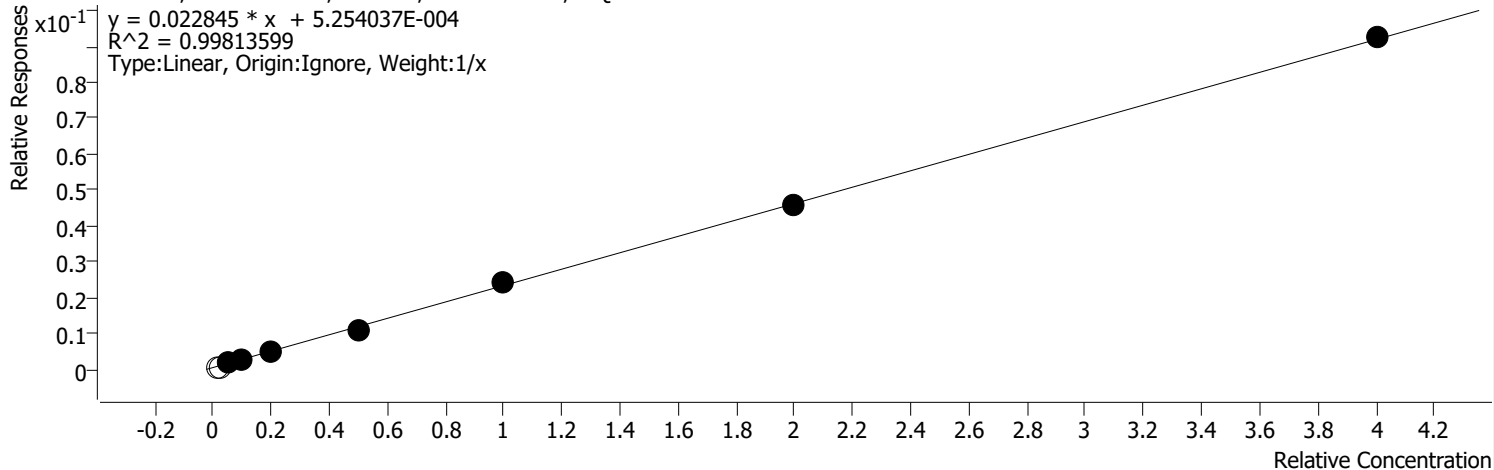
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1		2043	0.1000	0.3320	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	5462	0.2000	0.4469	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	11918	0.5000	0.4058	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	23096	1.0000	0.3736	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	51599	2.0000	0.4252	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	109660	5.0000	0.3648	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	250642	10.0000	0.4232	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	503199	20.0000	0.4178	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	1039812	40.0000	0.4140	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Acetone %RSE = 14.6

Acetone - 9 Levels, 7 Levels Used, 9 Points, 7 Points Used, 0 QCs



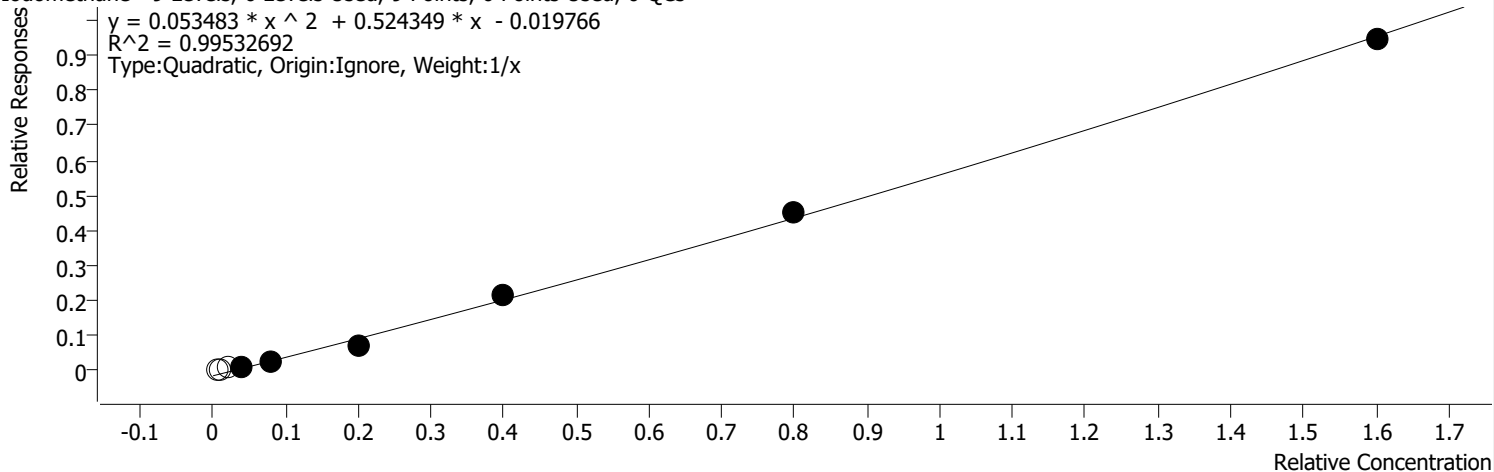
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1		1123	0.2500	0.0730	
D:\GC-19\Data\091823A\091822.D	Calibration	2		1226	0.5000	0.0401	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	2866	1.2500	0.0390	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	3679	2.5000	0.0238	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	7597	5.0000	0.0250	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	16506	12.5000	0.0220	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	36060	25.0000	0.0244	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	69204	50.0000	0.0230	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	144979	100.0000	0.0231	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\loc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Iodomethane %RSE = 17.6

Iodomethane - 9 Levels, 6 Levels Used, 9 Points, 6 Points Used, 0 QCs



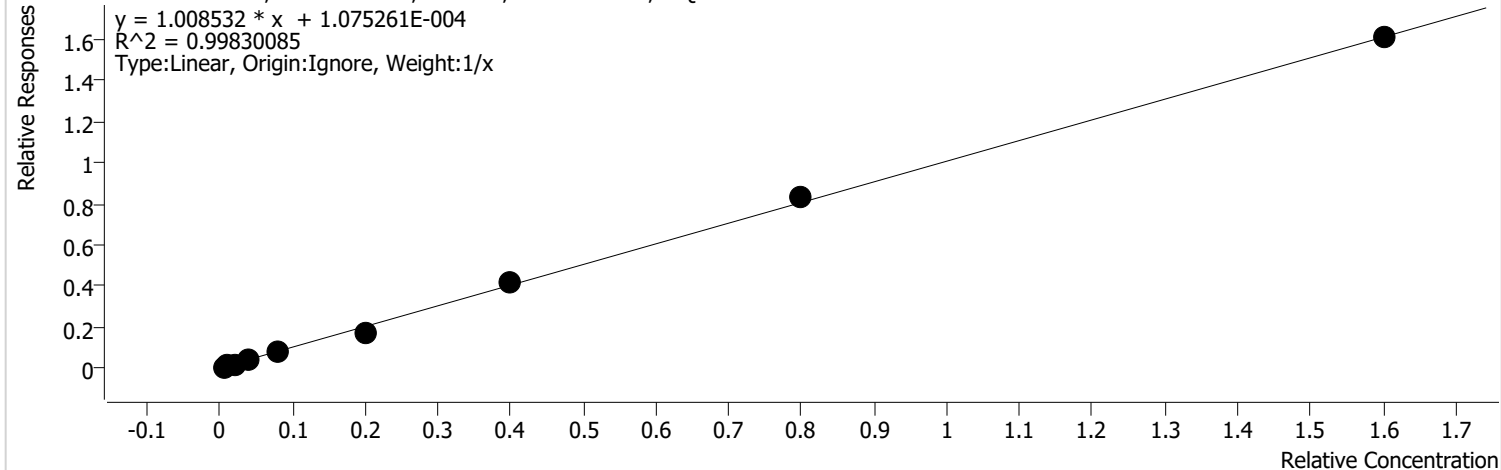
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1		520	0.1000	0.0846	
D:\GC-19\Data\091823A\091822.D	Calibration	2		1168	0.2000	0.0955	
D:\GC-19\Data\091823A\091904.D	Calibration	3		6999	0.5000	0.2383	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	8614	1.0000	0.1393	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	28663	2.0000	0.2362	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	98168	5.0000	0.3265	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	312319	10.0000	0.5274	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	680806	20.0000	0.5653	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	1485888	40.0000	0.5917	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Carbon disulfide %RSE = 9.4

Carbon disulfide - 9 Levels, 9 Levels Used, 9 Points, 9 Points Used, 0 QCs



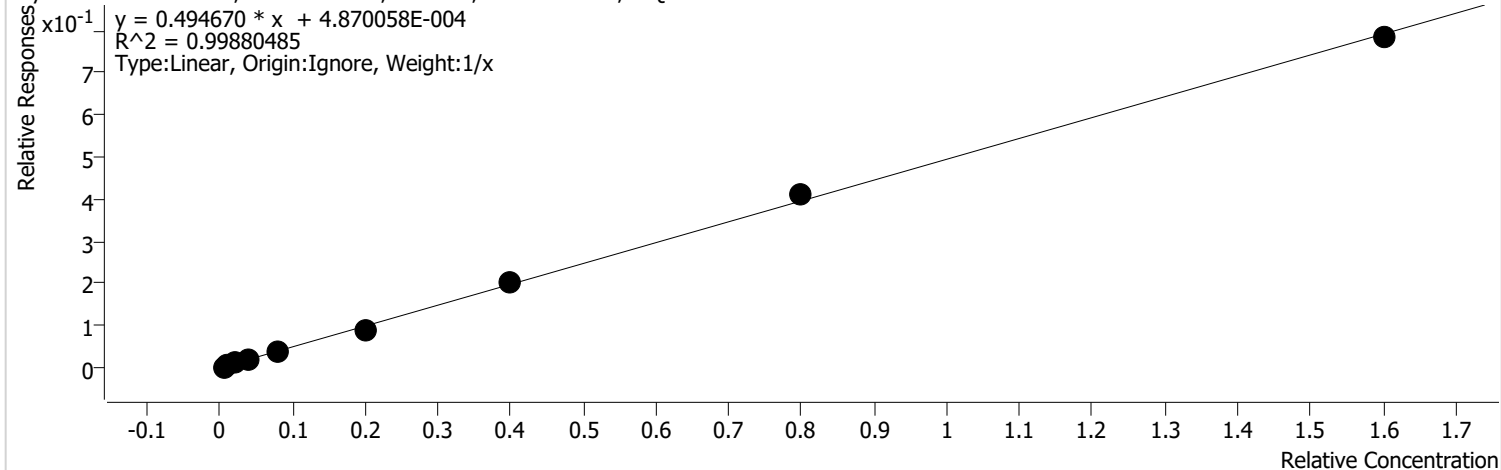
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1	x	7226	0.1000	1.1745	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	13515	0.2000	1.1056	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	29091	0.5000	0.9906	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	54241	1.0000	0.8774	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	124199	2.0000	1.0234	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	264340	5.0000	0.8793	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	611287	10.0000	1.0322	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	1250078	20.0000	1.0380	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	2527670	40.0000	1.0065	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Allyl Chloride %RSE = 8.4

Allyl Chloride - 9 Levels, 9 Levels Used, 9 Points, 9 Points Used, 0 QCs

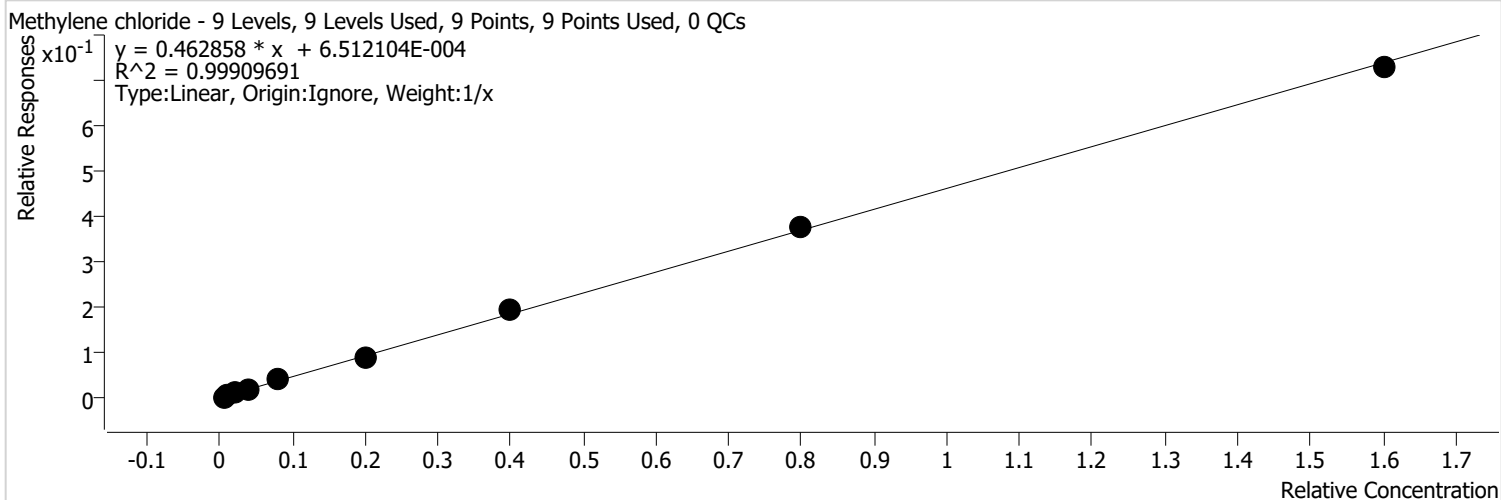


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1	x	3891	0.1000	0.6324	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	7685	0.2000	0.6287	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	14788	0.5000	0.5036	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	27402	1.0000	0.4432	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	61612	2.0000	0.5077	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	137613	5.0000	0.4577	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	299447	10.0000	0.5056	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	618236	20.0000	0.5134	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	1229182	40.0000	0.4894	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Methylene chloride %RSE = 7.1



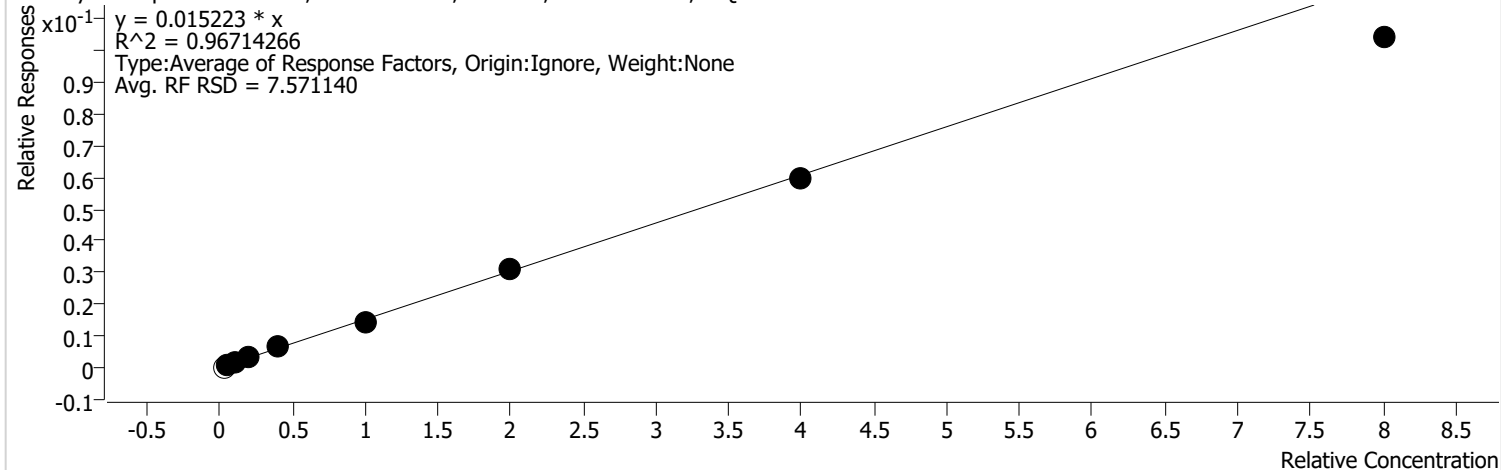
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1	x	3573	0.1000	0.5807	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	7049	0.2000	0.5766	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	15717	0.5000	0.5352	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	27146	1.0000	0.4391	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	58740	2.0000	0.4840	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	132884	5.0000	0.4420	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	288429	10.0000	0.4870	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	568355	20.0000	0.4719	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	1145959	40.0000	0.4563	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

2-Methyl-2-Propanol %RSE = 7.6

2-Methyl-2-Propanol - 9 Levels, 8 Levels Used, 9 Points, 8 Points Used, 0 QCs



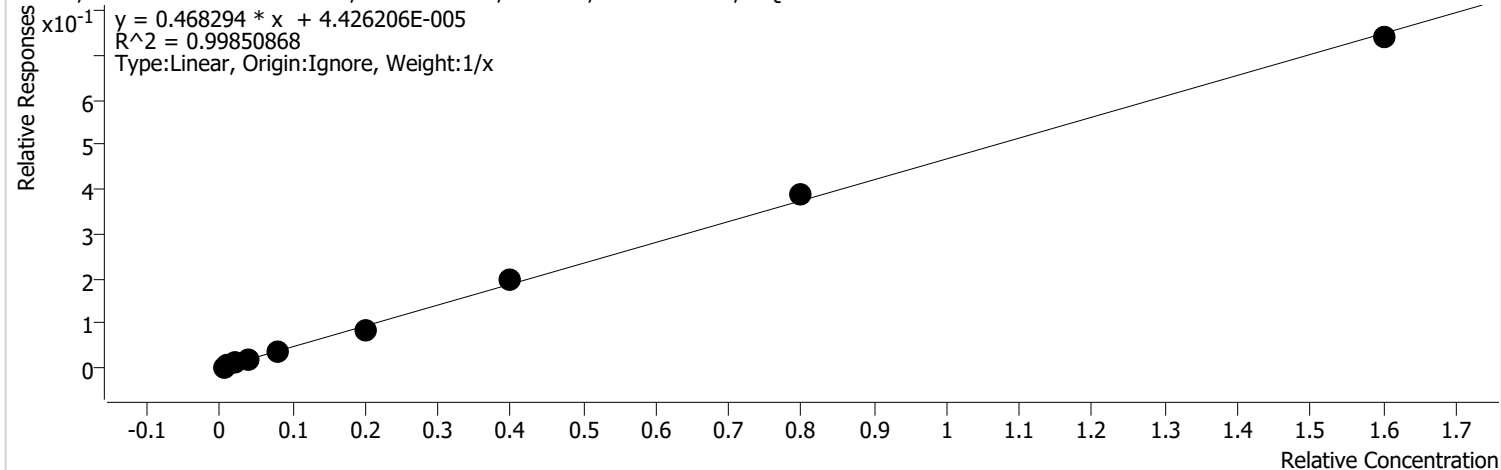
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1		292	0.5000	0.0095	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	1000	1.0000	0.0164	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	2270	2.5000	0.0155	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	4940	5.0000	0.0160	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	9978	10.0000	0.0164	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	21430	25.0000	0.0143	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	45445	50.0000	0.0153	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	89819	100.0000	0.0149	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	163515	200.0000	0.0130	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\loc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

trans-1,2-Dichloroethene %RSE = 7.5

trans-1,2-Dichloroethene - 9 Levels, 9 Levels Used, 9 Points, 9 Points Used, 0 QCs

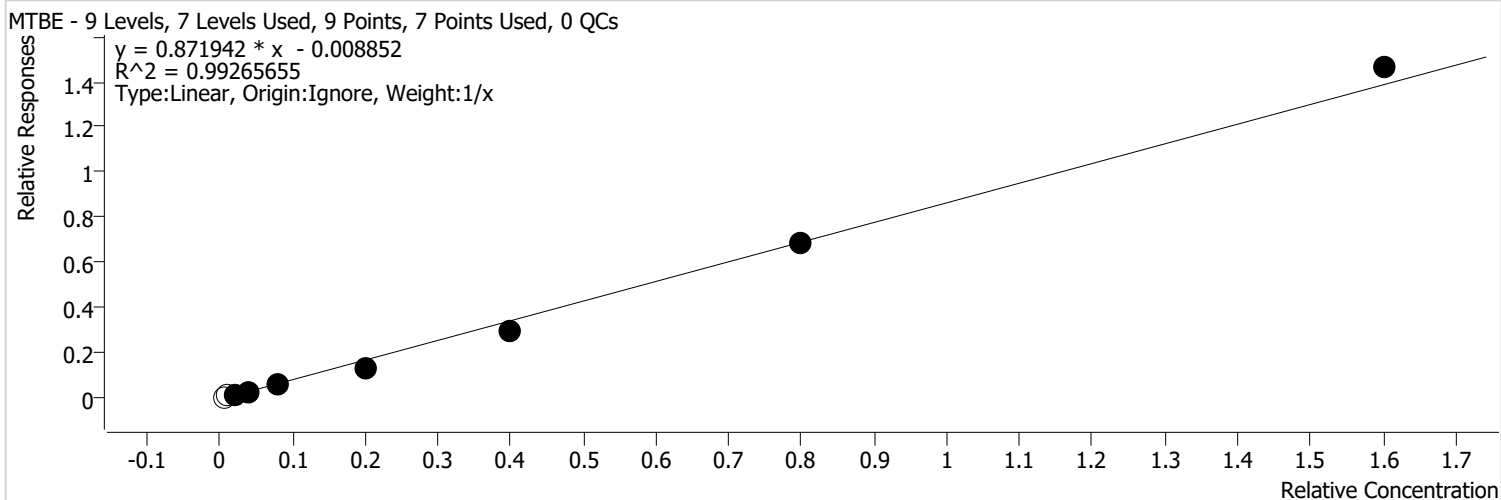


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1	x	2963	0.1000	0.4816	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	6489	0.2000	0.5308	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	13732	0.5000	0.4676	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	26113	1.0000	0.4224	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	58255	2.0000	0.4800	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	126372	5.0000	0.4204	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	287914	10.0000	0.4861	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	583234	20.0000	0.4843	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	1160982	40.0000	0.4623	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

MTBE %RSE = 16.3



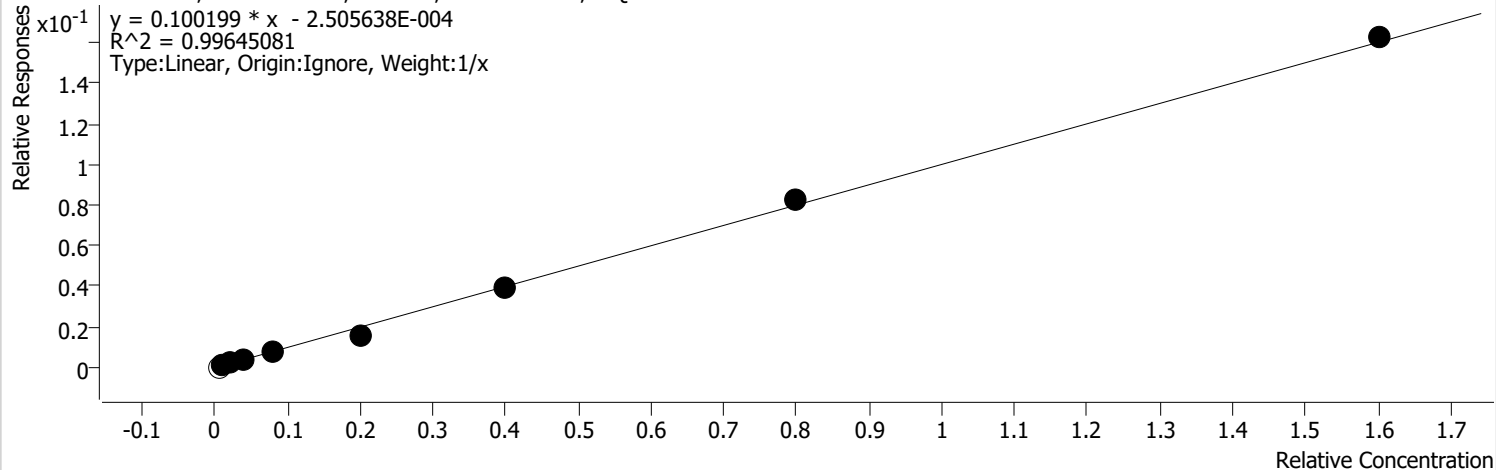
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1		3527	0.1000	0.5733	
D:\GC-19\Data\091823A\091822.D	Calibration	2		7230	0.2000	0.5915	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	19743	0.5000	0.6723	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	39774	1.0000	0.6434	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	91766	2.0000	0.7562	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	198579	5.0000	0.6605	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	440692	10.0000	0.7441	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	1030897	20.0000	0.8560	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	2294265	40.0000	0.9136	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

n-Hexane %RSE = 10.8

n-Hexane - 9 Levels, 8 Levels Used, 9 Points, 8 Points Used, 0 QCs

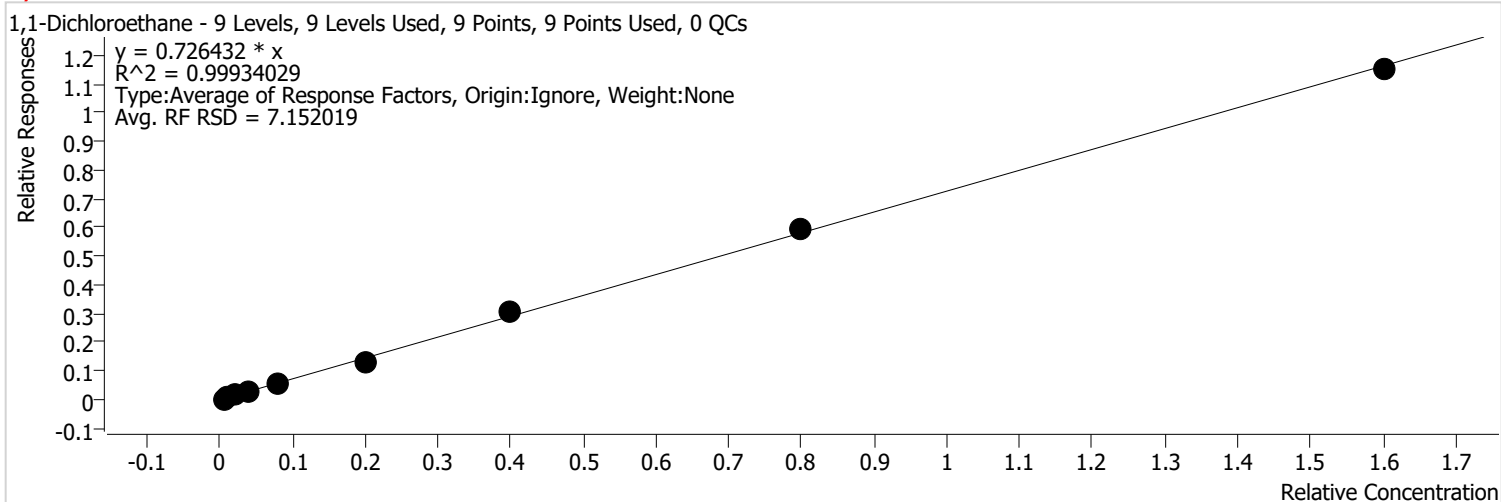


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1		296	0.1000	0.0481	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	935	0.2000	0.0765	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	2931	0.5000	0.0998	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	5408	1.0000	0.0875	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	12406	2.0000	0.1022	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	23661	5.0000	0.0787	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	57420	10.0000	0.0970	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	123914	20.0000	0.1029	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	254744	40.0000	0.1014	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,1-Dichloroethane %RSE = 7.2

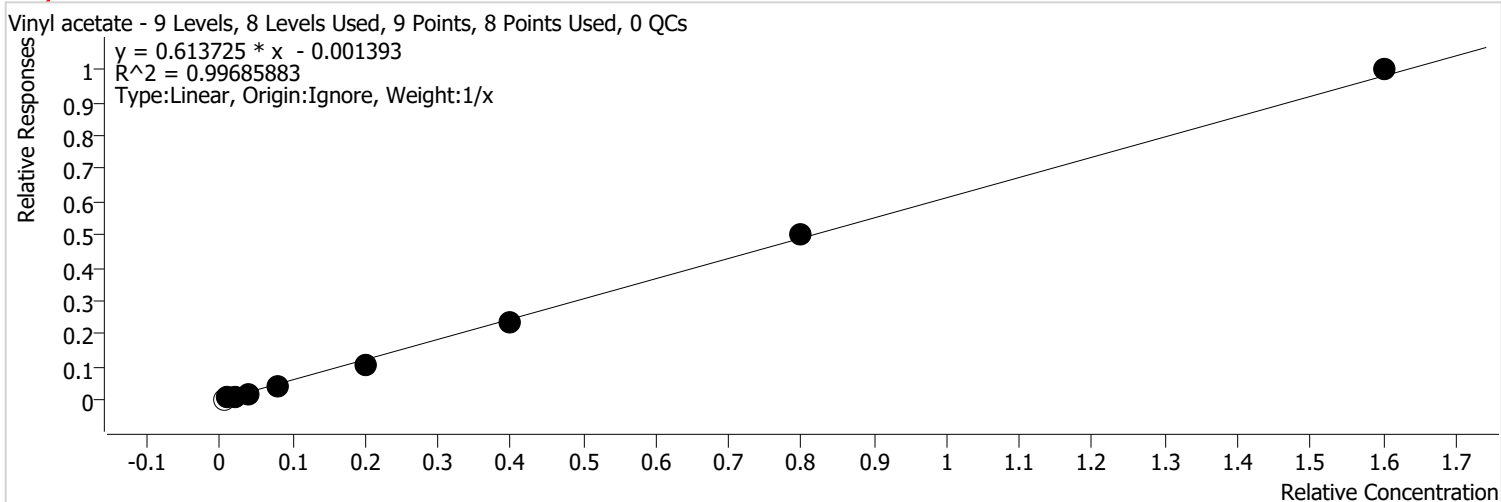


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1	x	4528	0.1000	0.7359	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	9967	0.2000	0.8154	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	20887	0.5000	0.7112	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	39281	1.0000	0.6354	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	90329	2.0000	0.7443	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	201543	5.0000	0.6704	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	449711	10.0000	0.7593	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	900763	20.0000	0.7480	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	1802986	40.0000	0.7179	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Vinyl acetate %RSE = 21.7



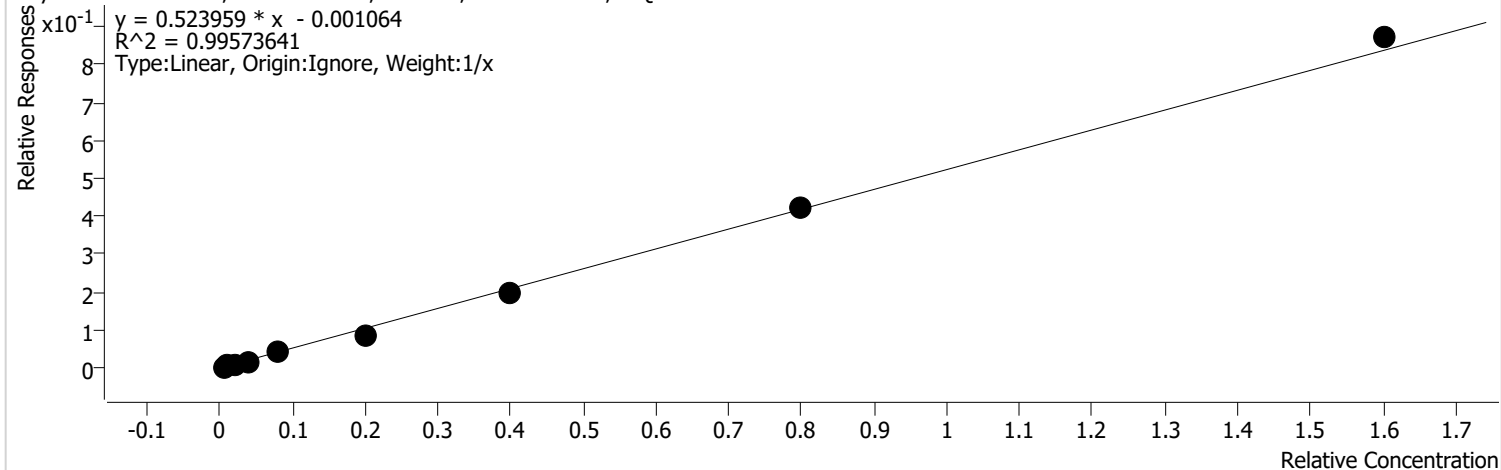
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1		3861	0.1000	0.6275	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	8891	0.2000	0.7274	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	14344	0.5000	0.4884	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	29737	1.0000	0.4810	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	65253	2.0000	0.5377	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	157537	5.0000	0.5240	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	348613	10.0000	0.5886	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	757257	20.0000	0.6288	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	1569160	40.0000	0.6248	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Acrylonitrile %RSE = 16.3

Acrylonitrile - 9 Levels, 9 Levels Used, 9 Points, 9 Points Used, 0 QCs



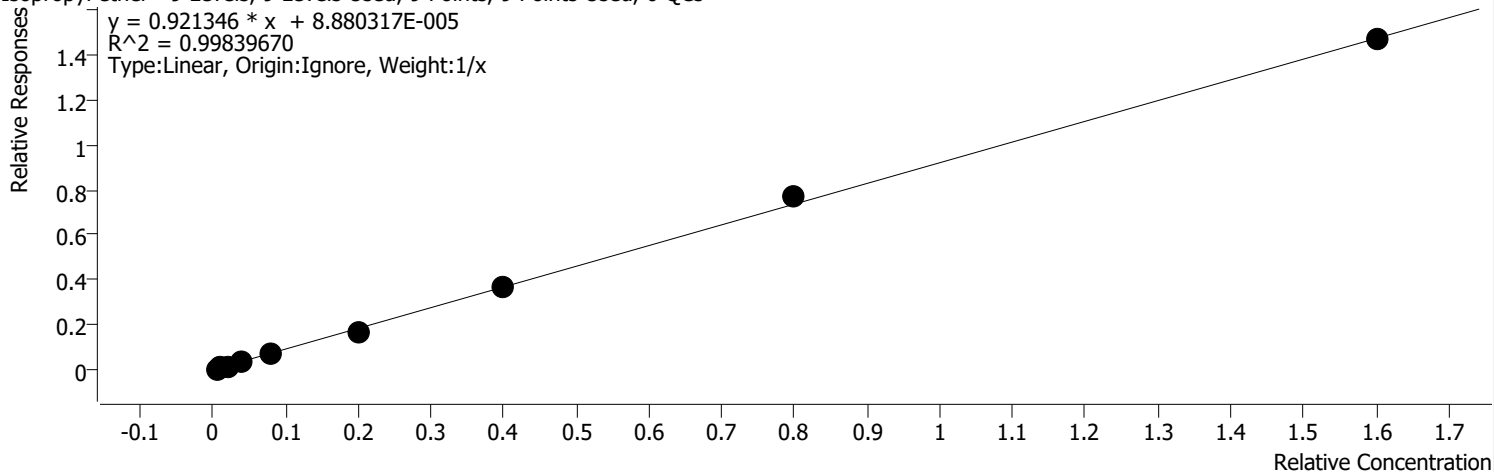
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1	x	2618	0.1000	0.4255	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	5592	0.2000	0.4575	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	12616	0.5000	0.4296	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	25970	1.0000	0.4201	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	60898	2.0000	0.5018	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	126629	5.0000	0.4212	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	288556	10.0000	0.4872	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	633912	20.0000	0.5264	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	1366813	40.0000	0.5443	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Isopropyl ether %RSE = 9.0

Isopropyl ether - 9 Levels, 9 Levels Used, 9 Points, 9 Points Used, 0 QCs



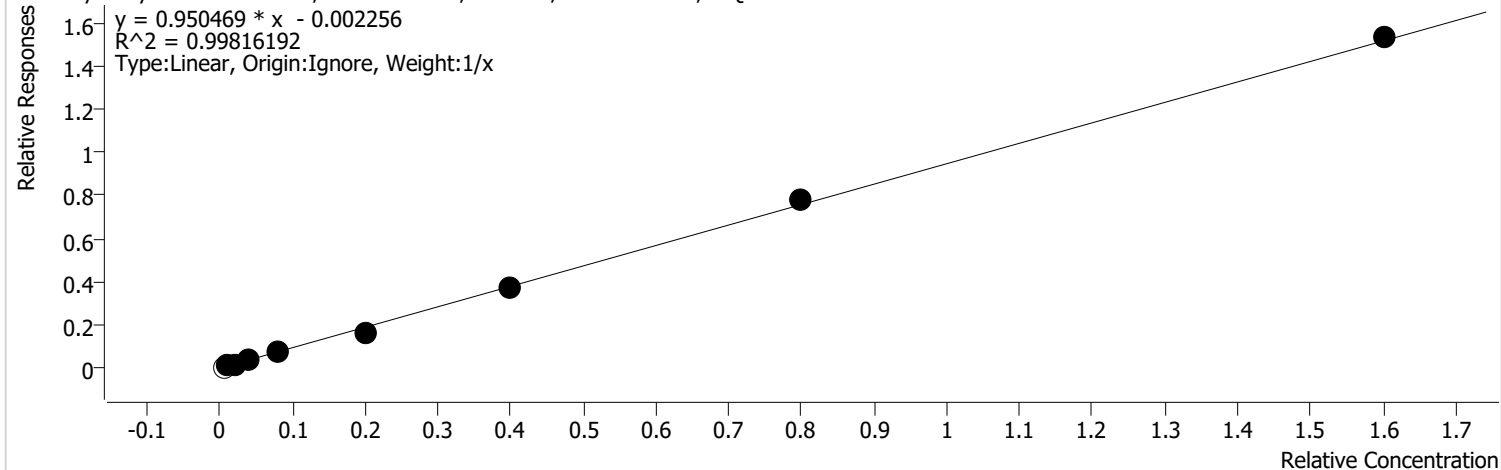
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1	x	6493	0.1000	1.0554	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	12591	0.2000	1.0301	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	25948	0.5000	0.8836	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	50707	1.0000	0.8202	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	112842	2.0000	0.9299	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	244418	5.0000	0.8130	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	548692	10.0000	0.9265	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	1153703	20.0000	0.9580	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	2304110	40.0000	0.9175	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

tert-Butyl Ethyl Ether %RSE = 12.0

tert-Butyl Ethyl Ether - 9 Levels, 8 Levels Used, 9 Points, 8 Points Used, 0 QCs



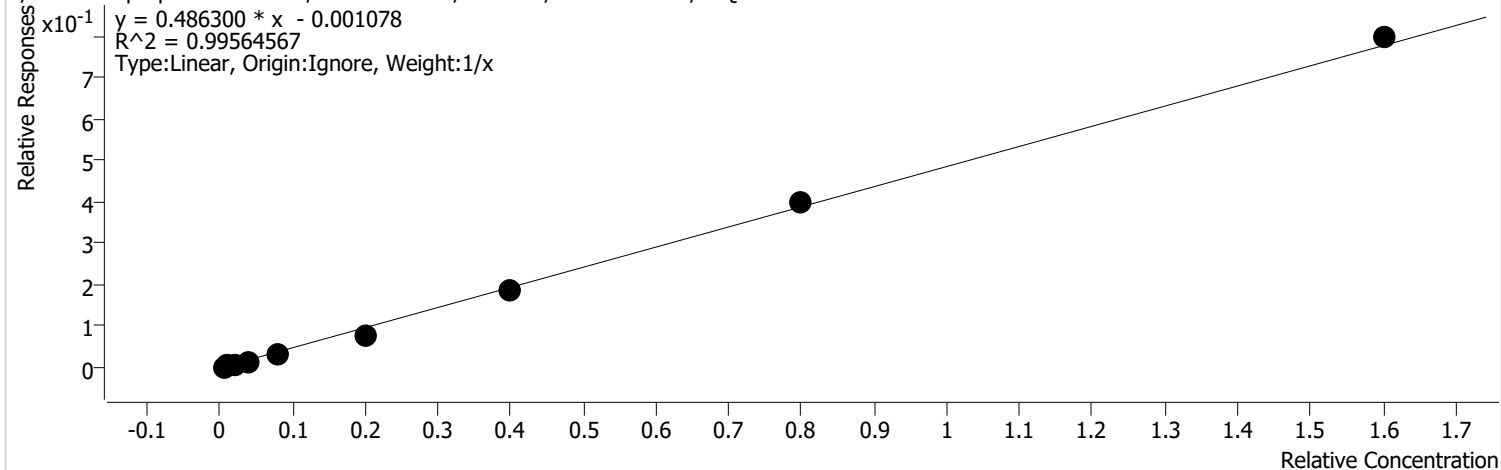
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1		5541	0.1000	0.9005	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	10952	0.2000	0.8960	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	24089	0.5000	0.8203	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	49678	1.0000	0.8036	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	110628	2.0000	0.9116	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	243814	5.0000	0.8110	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	550820	10.0000	0.9301	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	1171088	20.0000	0.9724	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	2406523	40.0000	0.9583	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

2,2-Dichloropropane %RSE = 18.0

2,2-Dichloropropane - 9 Levels, 9 Levels Used, 9 Points, 9 Points Used, 0 QCs

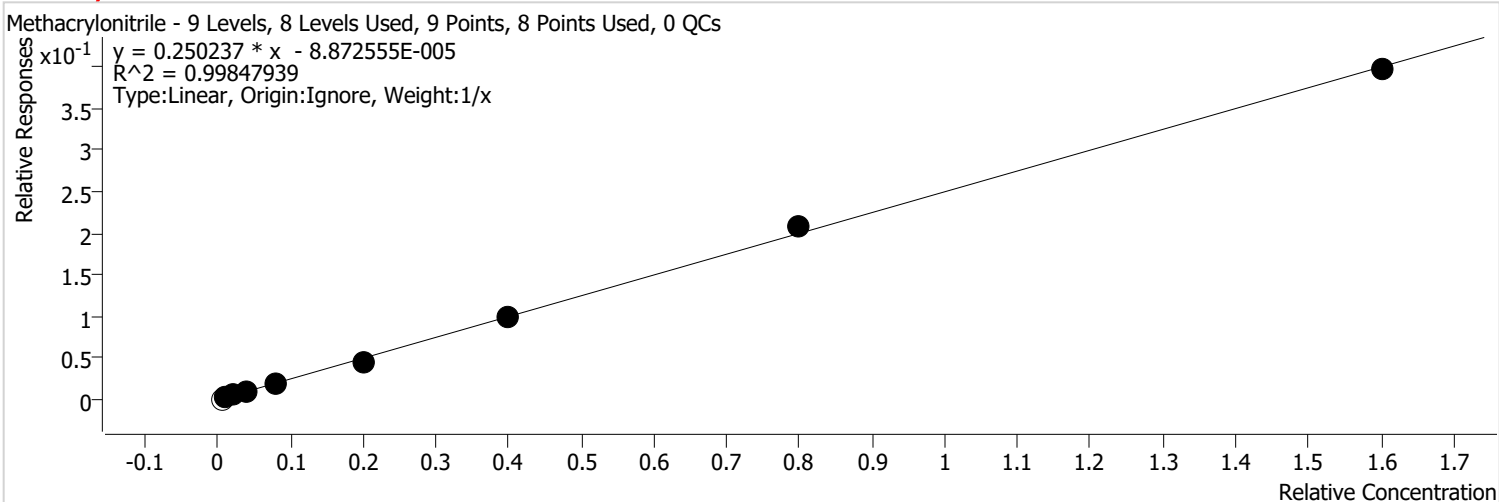


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1	x	2280	0.1000	0.3705	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	5395	0.2000	0.4414	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	12185	0.5000	0.4149	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	22310	1.0000	0.3609	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	51993	2.0000	0.4284	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	115607	5.0000	0.3845	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	277673	10.0000	0.4689	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	603306	20.0000	0.5010	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	1249193	40.0000	0.4974	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Methacrylonitrile %RSE = 7.3



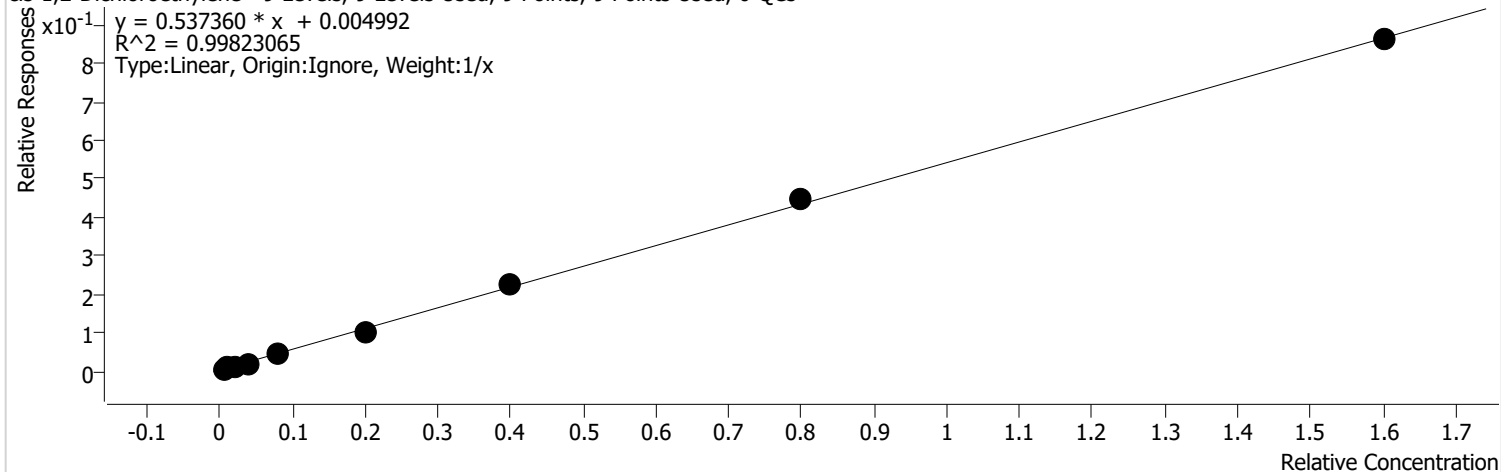
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1		1491	0.1000	0.2423	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	3164	0.2000	0.2588	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	7661	0.5000	0.2609	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	13971	1.0000	0.2260	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	30785	2.0000	0.2537	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	66886	5.0000	0.2225	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	149174	10.0000	0.2519	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	313689	20.0000	0.2605	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	622791	40.0000	0.2480	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

cis-1,2-Dichloroethylene %RSE = 17.9

cis-1,2-Dichloroethylene - 9 Levels, 9 Levels Used, 9 Points, 9 Points Used, 0 QCs



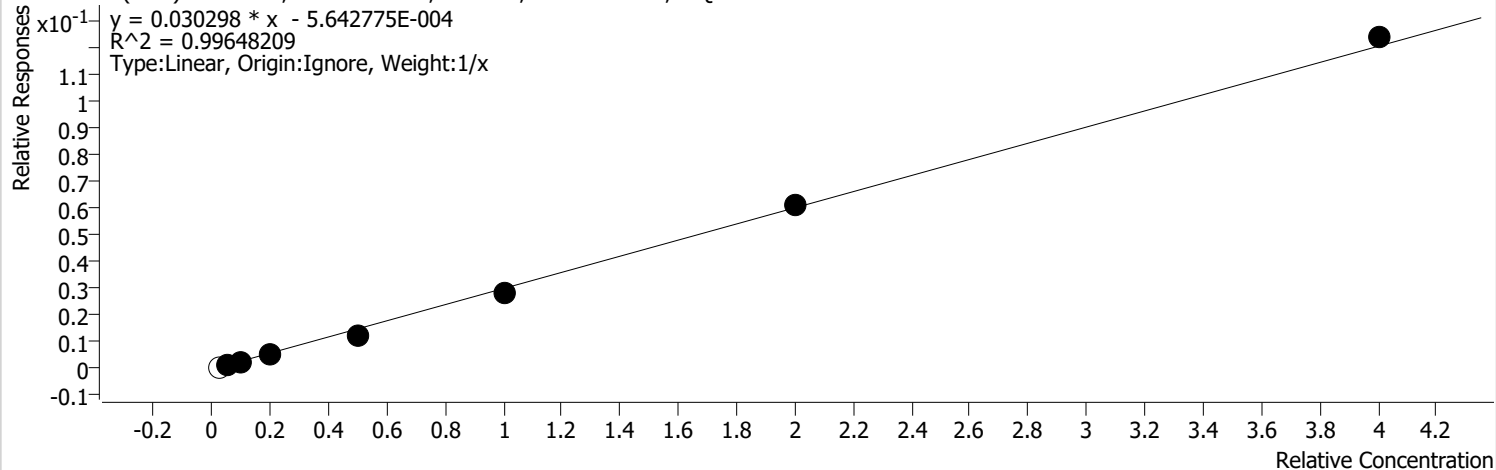
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1	x	12154	0.1000	1.9754	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	14867	0.2000	1.2162	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	19668	0.5000	0.6697	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	34901	1.0000	0.5645	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	70941	2.0000	0.5846	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	156254	5.0000	0.5198	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	333292	10.0000	0.5628	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	675580	20.0000	0.5610	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	1350594	40.0000	0.5378	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

2-Butanone (MEK) %RSE = 15.0

2-Butanone (MEK) - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 0 QCs



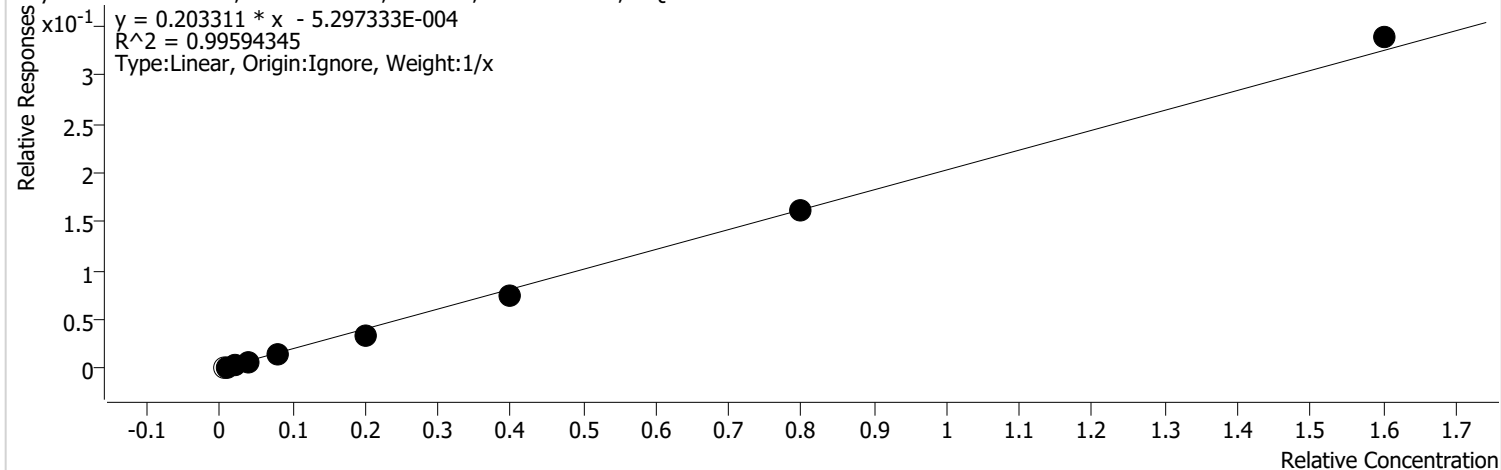
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091822.D	Calibration	2		503	0.5000	0.0165	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	2005	1.2500	0.0273	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	3415	2.5000	0.0221	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	8196	5.0000	0.0270	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	18227	12.5000	0.0243	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	41769	25.0000	0.0282	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	91485	50.0000	0.0304	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	194320	100.0000	0.0310	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Ethyl acetate %RSE = 13.2

Ethyl acetate - 9 Levels, 8 Levels Used, 9 Points, 8 Points Used, 0 QCs

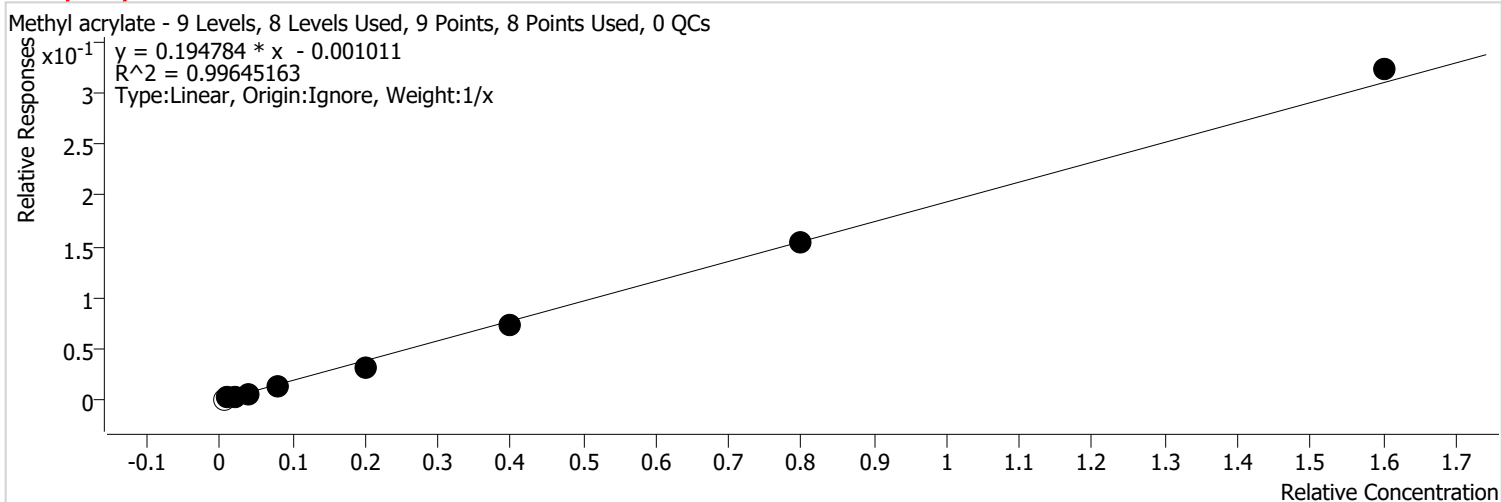


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1		2413	0.1000	0.3923	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	2027	0.2000	0.1658	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	6376	0.5000	0.2171	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	10677	1.0000	0.1727	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	22460	2.0000	0.1851	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	50179	5.0000	0.1669	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	111005	10.0000	0.1874	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	244160	20.0000	0.2027	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	530293	40.0000	0.2112	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Methyl acrylate %RSE = 13.6



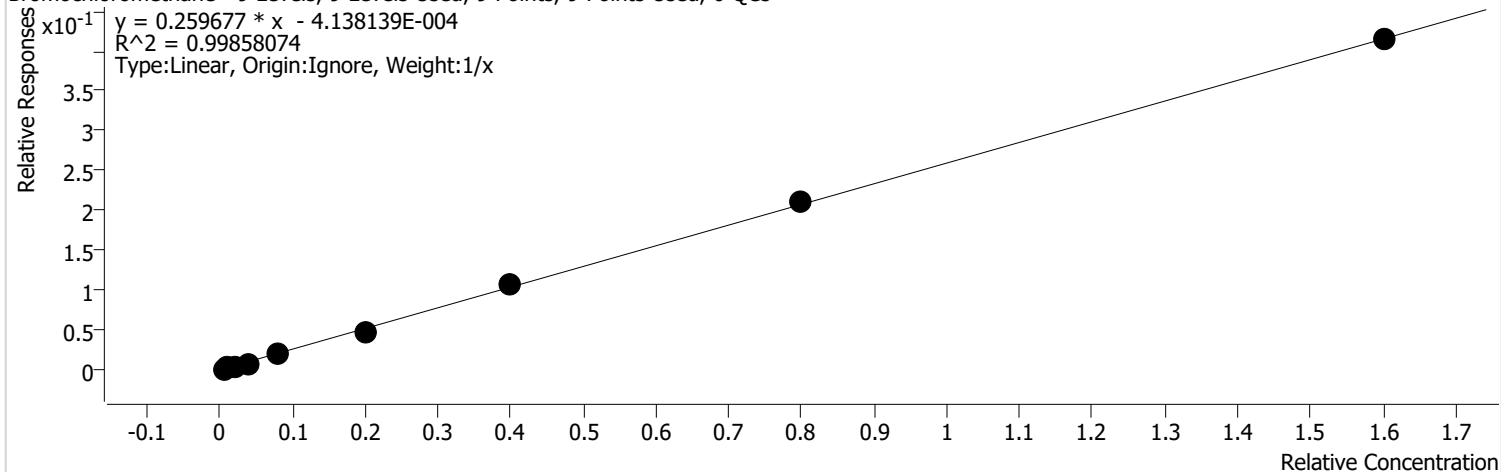
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1		682	0.1000	0.1108	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	1387	0.2000	0.1135	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	4885	0.5000	0.1663	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	9066	1.0000	0.1466	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	20964	2.0000	0.1727	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	47952	5.0000	0.1595	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	107520	10.0000	0.1815	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	230773	20.0000	0.1916	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	507530	40.0000	0.2021	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Bromochloromethane %RSE = 11.3

Bromochloromethane - 9 Levels, 9 Levels Used, 9 Points, 9 Points Used, 0 QCs

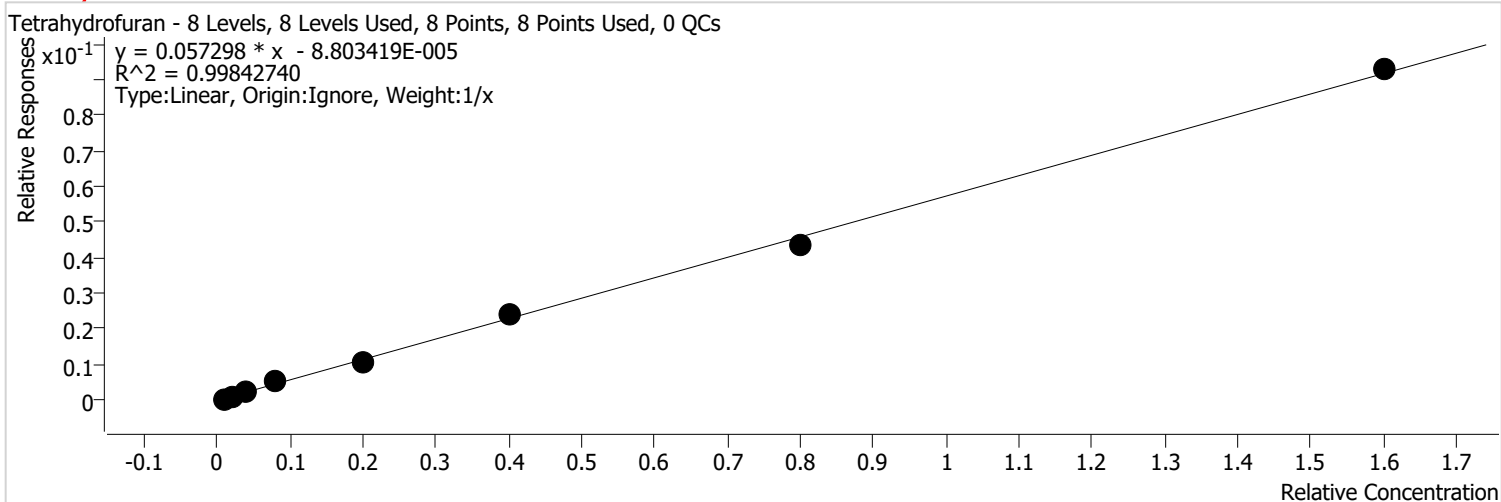


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1	x	1224	0.1000	0.1989	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	2886	0.2000	0.2361	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	6897	0.5000	0.2349	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	12210	1.0000	0.1975	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	29880	2.0000	0.2462	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	70998	5.0000	0.2362	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	160017	10.0000	0.2702	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	316893	20.0000	0.2631	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	649780	40.0000	0.2587	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Tetrahydrofuran %RSE = 7.1



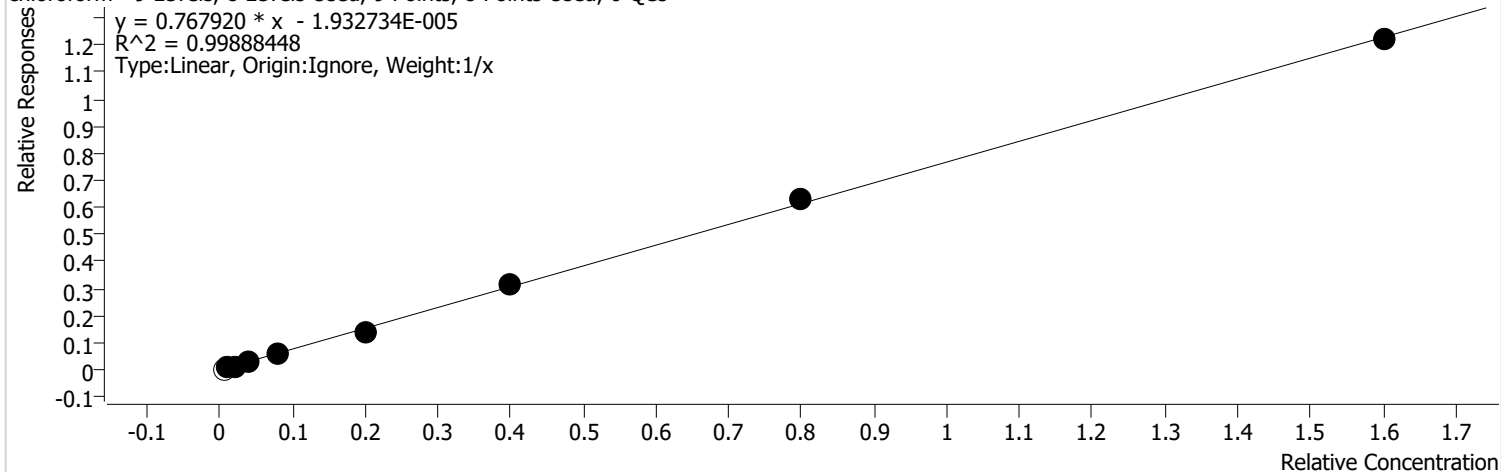
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	511	0.2000	0.0418	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	1571	0.5000	0.0535	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	3351	1.0000	0.0542	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	7718	2.0000	0.0636	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	16072	5.0000	0.0535	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	35289	10.0000	0.0596	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	65962	20.0000	0.0548	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	145445	40.0000	0.0579	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

chloroform %RSE = 9.1

chloroform - 9 Levels, 8 Levels Used, 9 Points, 8 Points Used, 0 QCs

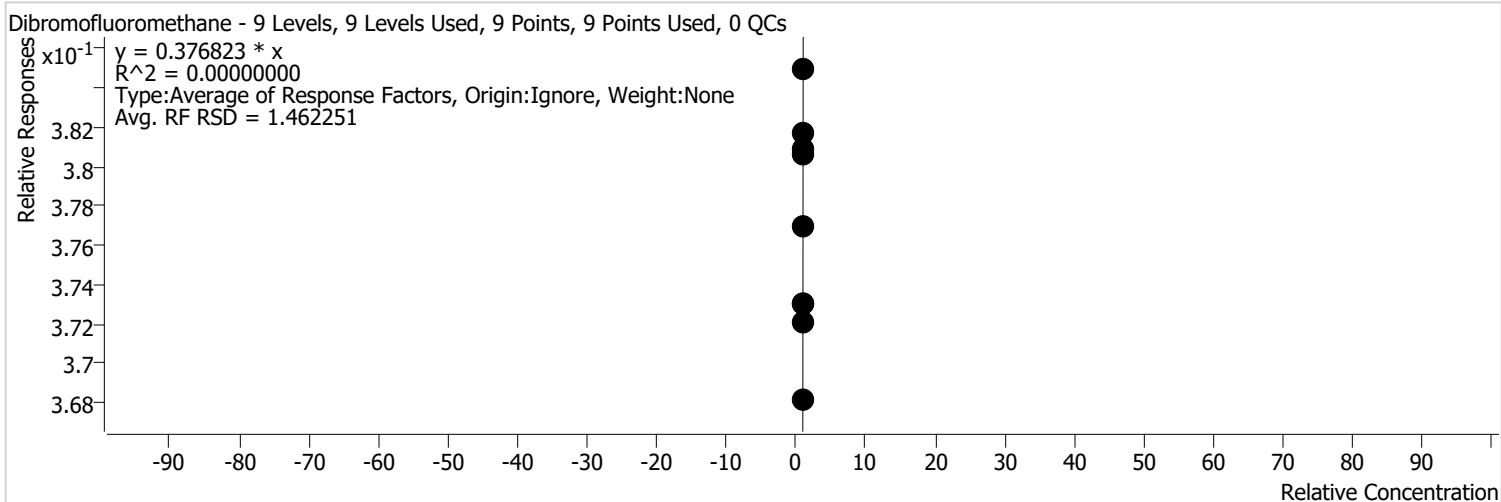


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1		5429	0.1000	0.8823	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	10962	0.2000	0.8967	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	21522	0.5000	0.7329	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	42899	1.0000	0.6939	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	93924	2.0000	0.7740	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	210452	5.0000	0.7000	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	469589	10.0000	0.7929	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	947241	20.0000	0.7866	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	1913872	40.0000	0.7621	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Dibromofluoromethane %RSE =

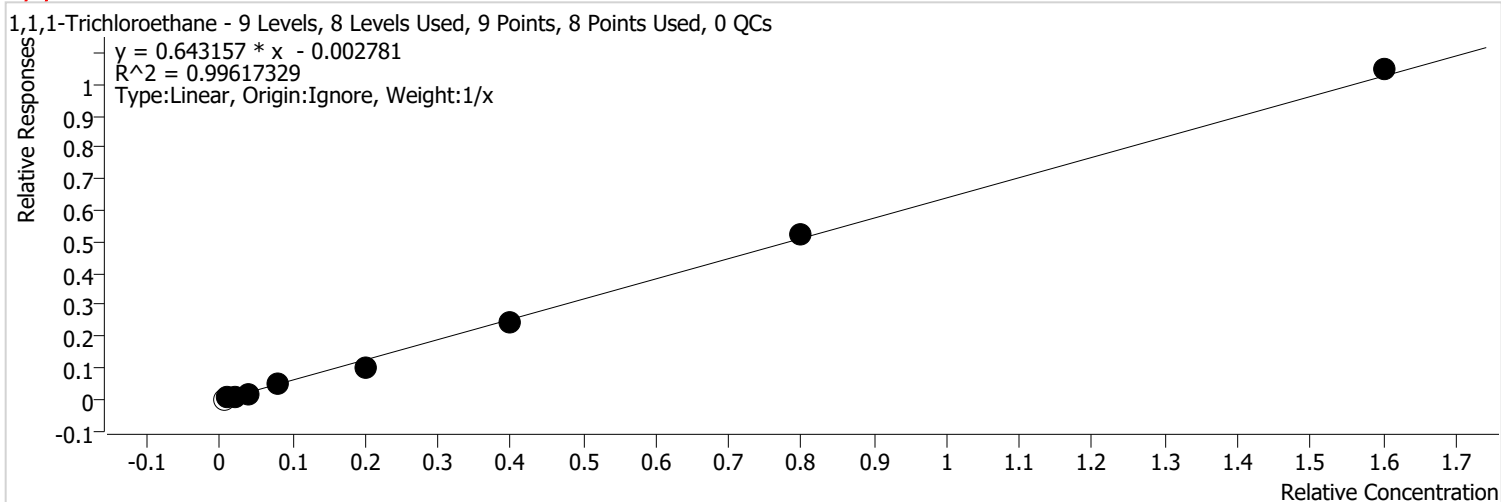


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	553523	25.0000	0.3770	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	597332	25.0000	0.3806	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	573272	25.0000	0.3808	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	569887	25.0000	0.3849	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	573685	25.0000	0.3817	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	565923	25.0000	0.3731	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	569096	25.0000	0.3682	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	570099	25.0000	0.3731	
D:\GC-19\Data\091823A\091821.D	Calibration	1	x	572341	25.0000	0.3721	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,1,1-Trichloroethane %RSE = 18.3



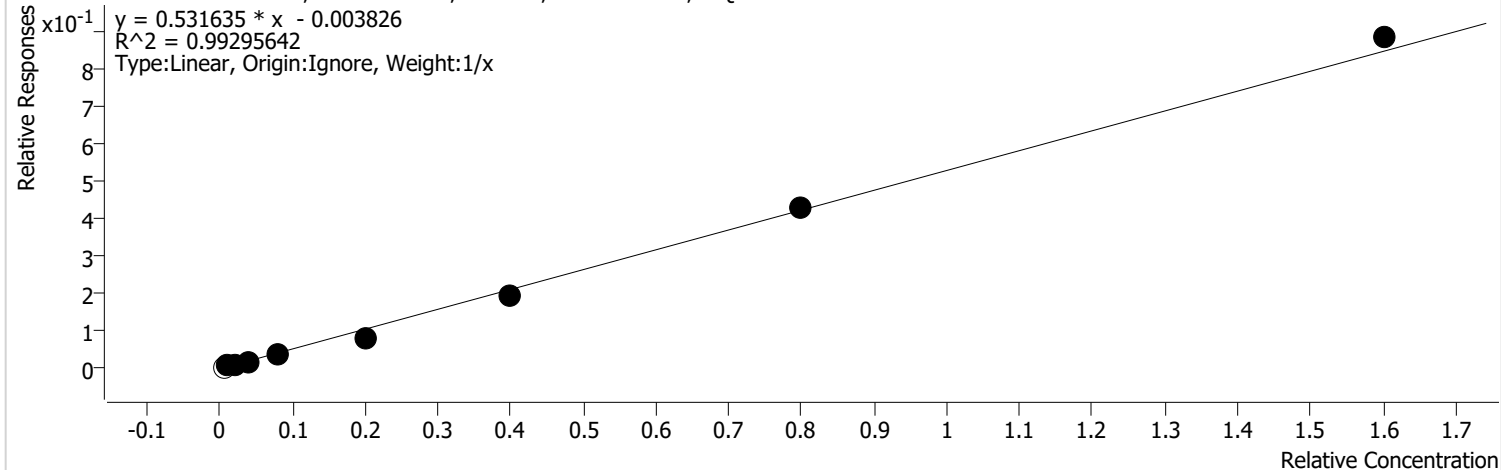
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1		3181	0.1000	0.5170	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	6574	0.2000	0.5378	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	14232	0.5000	0.4846	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	30122	1.0000	0.4872	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	70473	2.0000	0.5807	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	152383	5.0000	0.5069	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	365602	10.0000	0.6173	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	793934	20.0000	0.6593	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	1642986	40.0000	0.6542	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

carbon tetrachloride %RSE = 24.4

carbon tetrachloride - 9 Levels, 8 Levels Used, 9 Points, 8 Points Used, 0 QCs

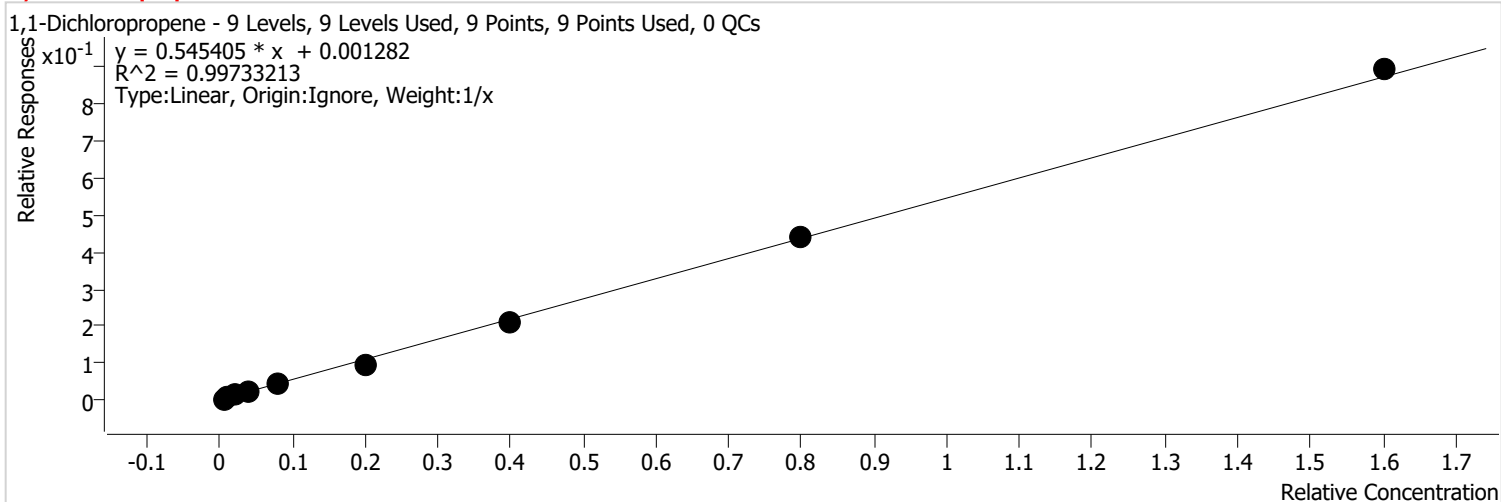


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1		2111	0.1000	0.3431	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	3991	0.2000	0.3265	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	9434	0.5000	0.3213	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	22147	1.0000	0.3582	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	53178	2.0000	0.4382	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	115982	5.0000	0.3858	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	286677	10.0000	0.4841	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	648180	20.0000	0.5382	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	1386263	40.0000	0.5520	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,1-Dichloropropene %RSE = 10.9



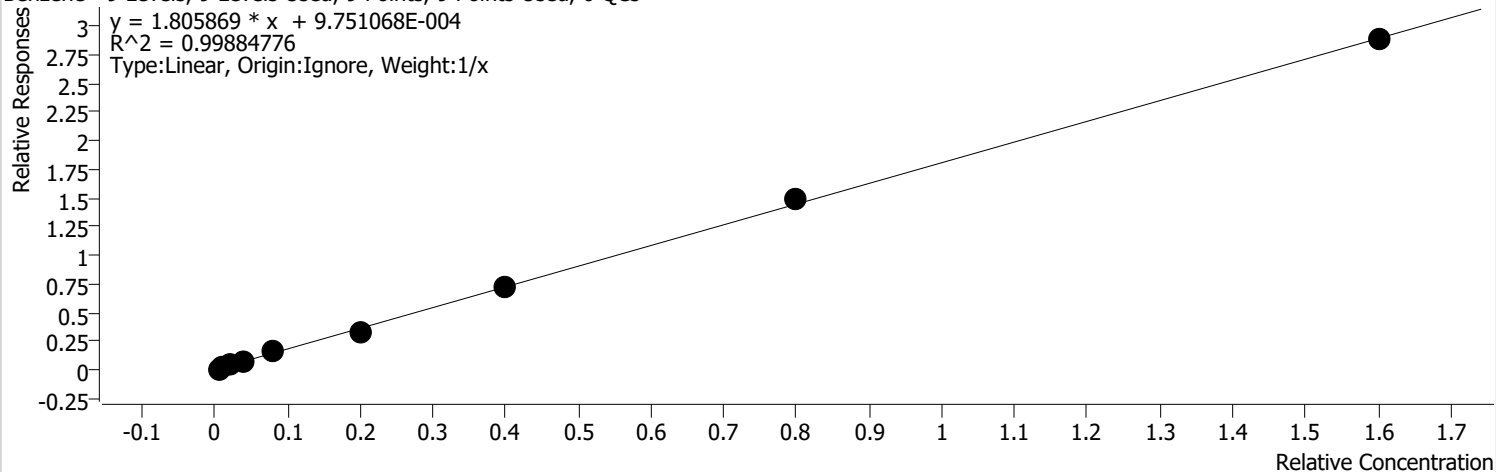
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1	x	5089	0.1000	0.8272	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	9954	0.2000	0.8143	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	18778	0.5000	0.6394	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	33891	1.0000	0.5482	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	71111	2.0000	0.5860	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	138124	5.0000	0.4594	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	312097	10.0000	0.5270	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	666860	20.0000	0.5537	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	1402542	40.0000	0.5585	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Benzene %RSE = 7.4

Benzene - 9 Levels, 9 Levels Used, 9 Points, 9 Points Used, 0 QCs

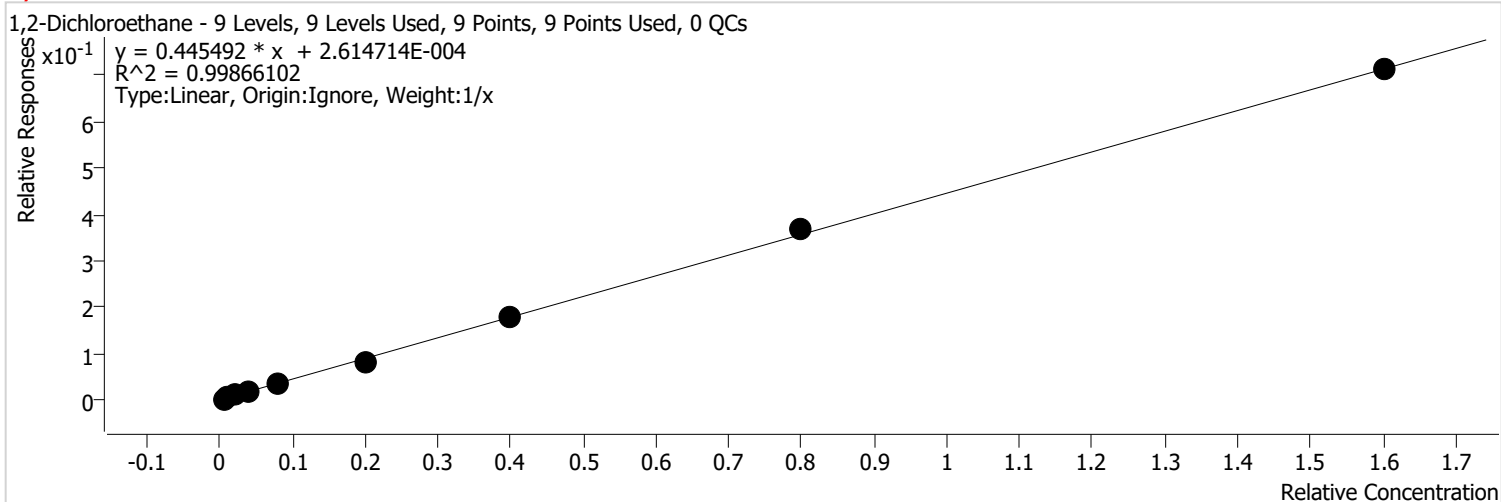


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1	x	12472	0.1000	2.0270	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	25415	0.2000	2.0792	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	57620	0.5000	1.9621	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	99553	1.0000	1.6103	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	233342	2.0000	1.9228	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	493128	5.0000	1.6403	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	1074412	10.0000	1.8141	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	2237529	20.0000	1.8580	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	4518173	40.0000	1.7991	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,2-Dichloroethane %RSE = 9.8



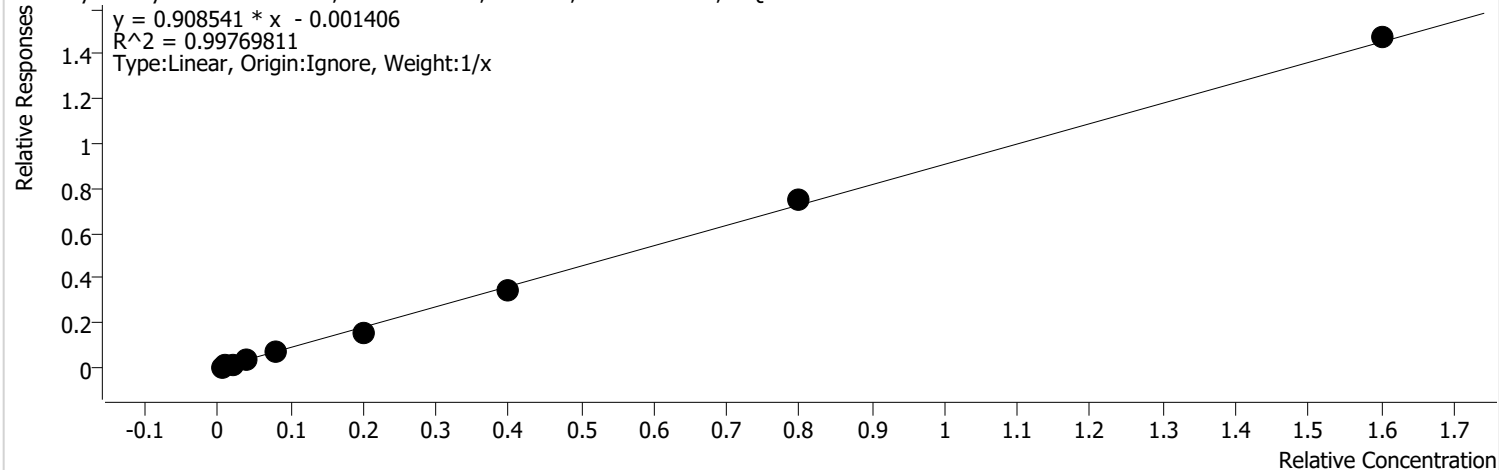
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1	x	3308	0.1000	0.5377	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	6802	0.2000	0.5564	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	13115	0.5000	0.4466	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	24010	1.0000	0.3884	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	54227	2.0000	0.4468	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	120418	5.0000	0.4006	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	268334	10.0000	0.4531	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	552105	20.0000	0.4585	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	1116962	40.0000	0.4448	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

tert-Amyl Methyl Ether %RSE = 12.6

tert-Amyl Methyl Ether - 9 Levels, 9 Levels Used, 9 Points, 9 Points Used, 0 QCs



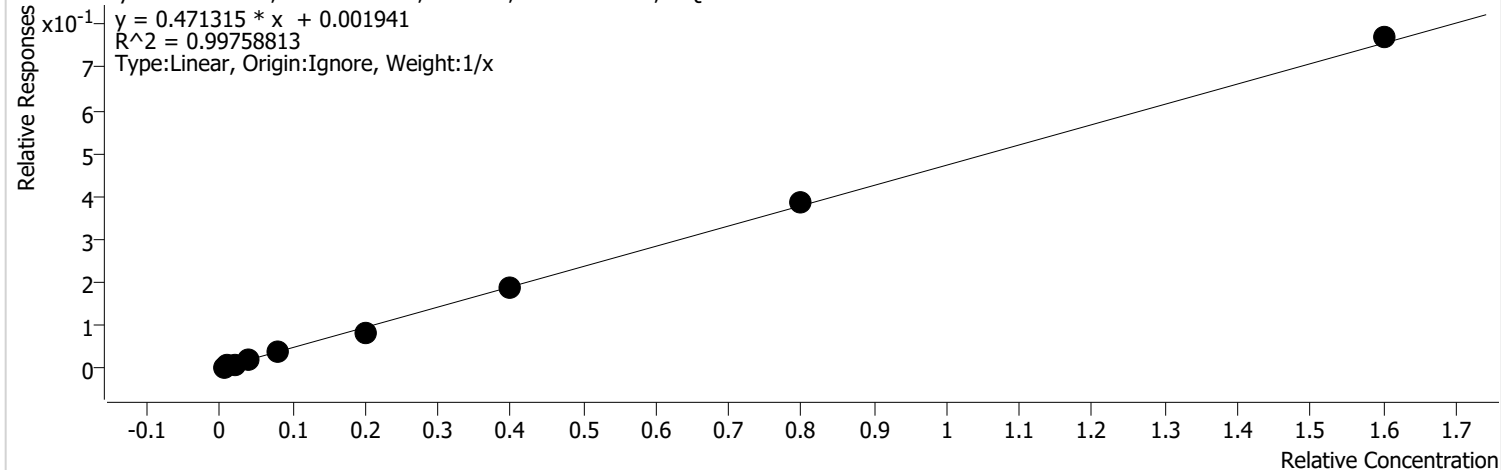
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1	x	4756	0.1000	0.7729	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	10105	0.2000	0.8267	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	23131	0.5000	0.7876	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	46529	1.0000	0.7526	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	105474	2.0000	0.8691	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	232844	5.0000	0.7745	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	516017	10.0000	0.8713	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	1131097	20.0000	0.9392	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	2309147	40.0000	0.9195	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

trichloroethylene %RSE = 16.6

trichloroethylene - 9 Levels, 9 Levels Used, 9 Points, 9 Points Used, 0 QCs

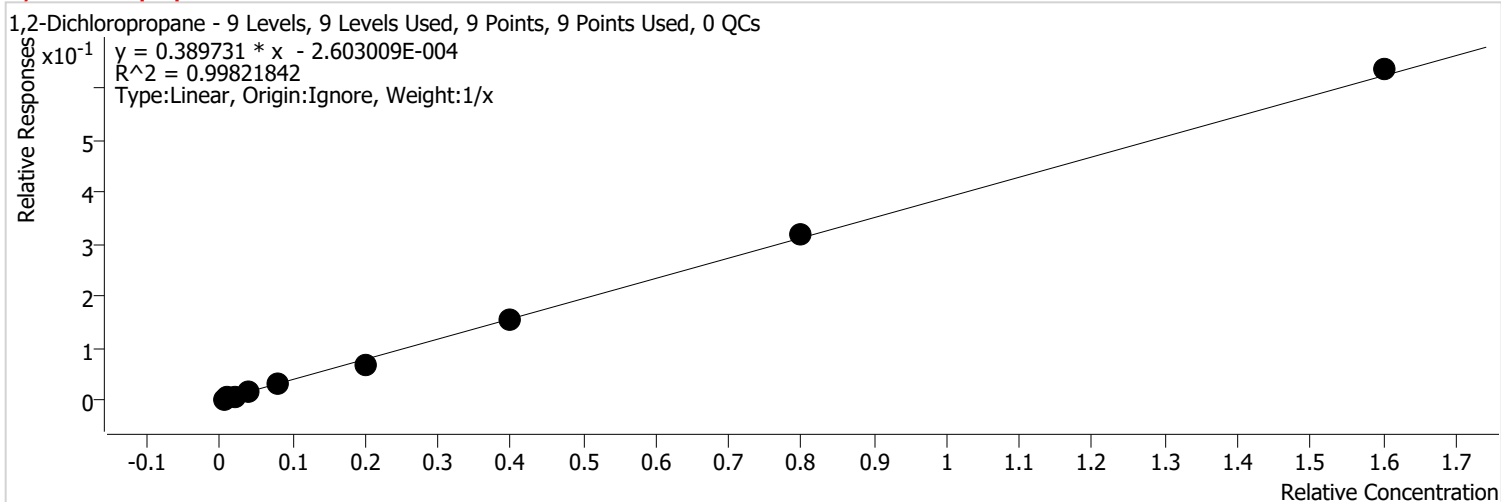


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1	x	6813	0.1000	1.1074	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	9459	0.2000	0.7738	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	14042	0.5000	0.4782	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	28466	1.0000	0.4605	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	60107	2.0000	0.4953	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	123567	5.0000	0.4110	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	277314	10.0000	0.4682	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	581589	20.0000	0.4829	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	1206993	40.0000	0.4806	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,2-Dichloropropane %RSE = 11.7



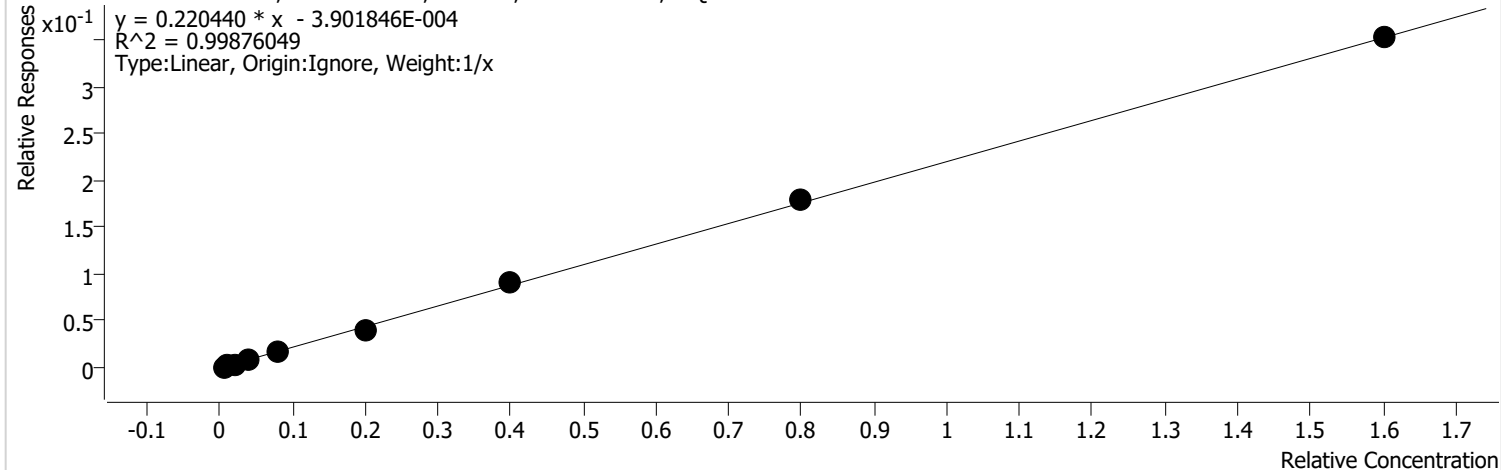
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1	x	2483	0.1000	0.4036	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	5016	0.2000	0.4103	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	10302	0.5000	0.3508	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	20962	1.0000	0.3391	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	44914	2.0000	0.3701	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	101573	5.0000	0.3379	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	225675	10.0000	0.3811	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	475767	20.0000	0.3951	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	996633	40.0000	0.3968	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Dibromomethane %RSE = 10.1

Dibromomethane - 9 Levels, 9 Levels Used, 9 Points, 9 Points Used, 0 QCs

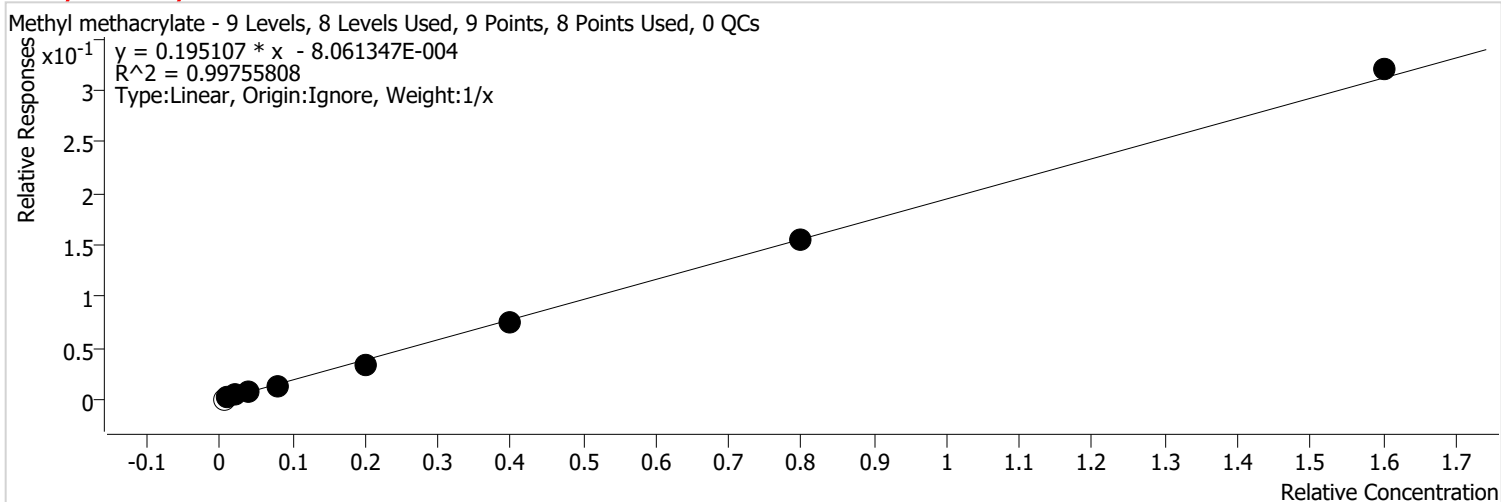


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1	x	1036	0.1000	0.1683	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	2178	0.2000	0.1782	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	5715	0.5000	0.1946	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	11382	1.0000	0.1841	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	25301	2.0000	0.2085	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	58787	5.0000	0.1955	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	133909	10.0000	0.2261	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	270128	20.0000	0.2243	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	552948	40.0000	0.2202	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Methyl methacrylate %RSE = 12.9

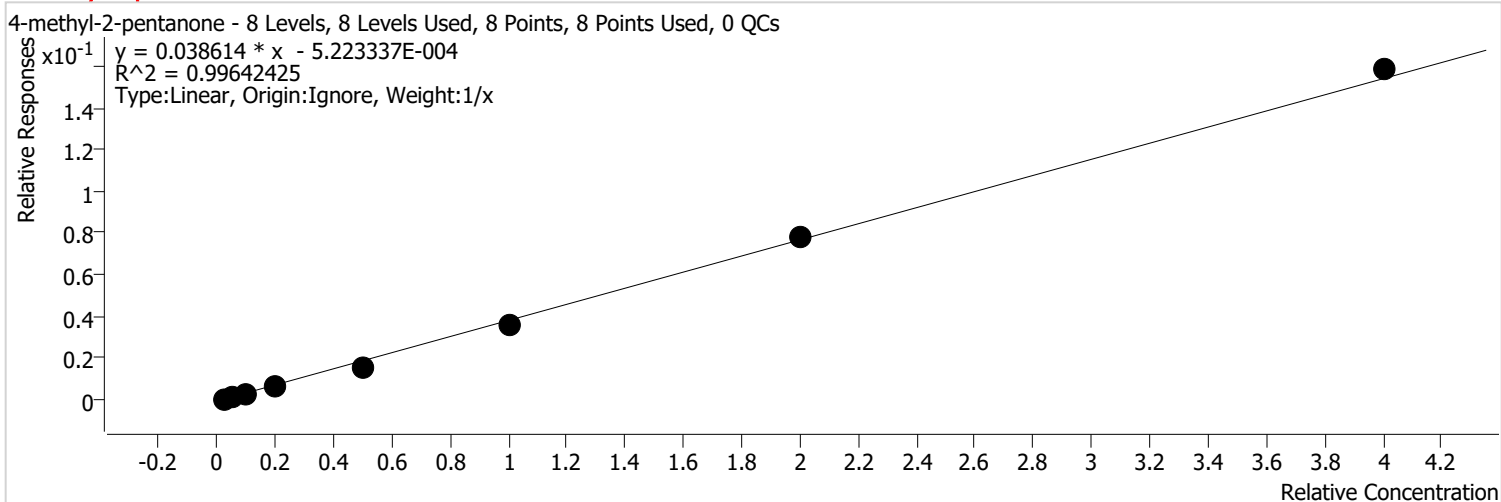


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1		677	0.1000	0.1101	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	1668	0.2000	0.1365	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	5173	0.5000	0.1761	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	9425	1.0000	0.1525	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	20707	2.0000	0.1706	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	48969	5.0000	0.1629	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	111953	10.0000	0.1890	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	234499	20.0000	0.1947	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	501355	40.0000	0.1996	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

4-methyl-2-pentanone %RSE = 18.0



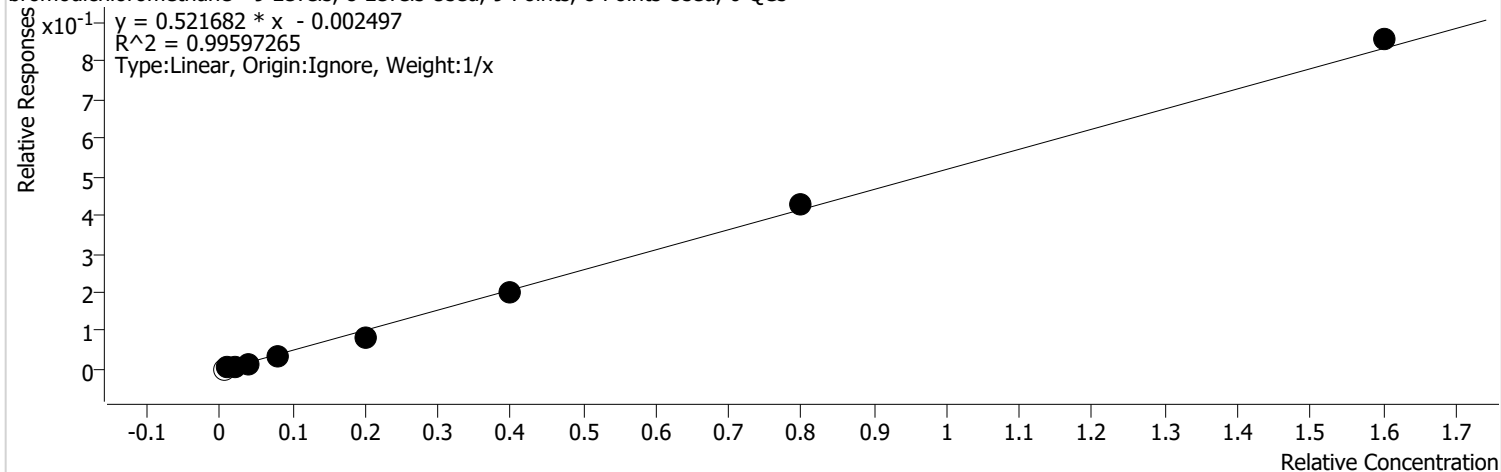
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	798	0.5000	0.0261	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	2267	1.2500	0.0309	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	4236	2.5000	0.0274	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	9572	5.0000	0.0316	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	23685	12.5000	0.0315	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	53974	25.0000	0.0365	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	117733	50.0000	0.0391	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	248268	100.0000	0.0395	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

bromodichloromethane %RSE = 19.6

bromodichloromethane - 9 Levels, 8 Levels Used, 9 Points, 8 Points Used, 0 QCs



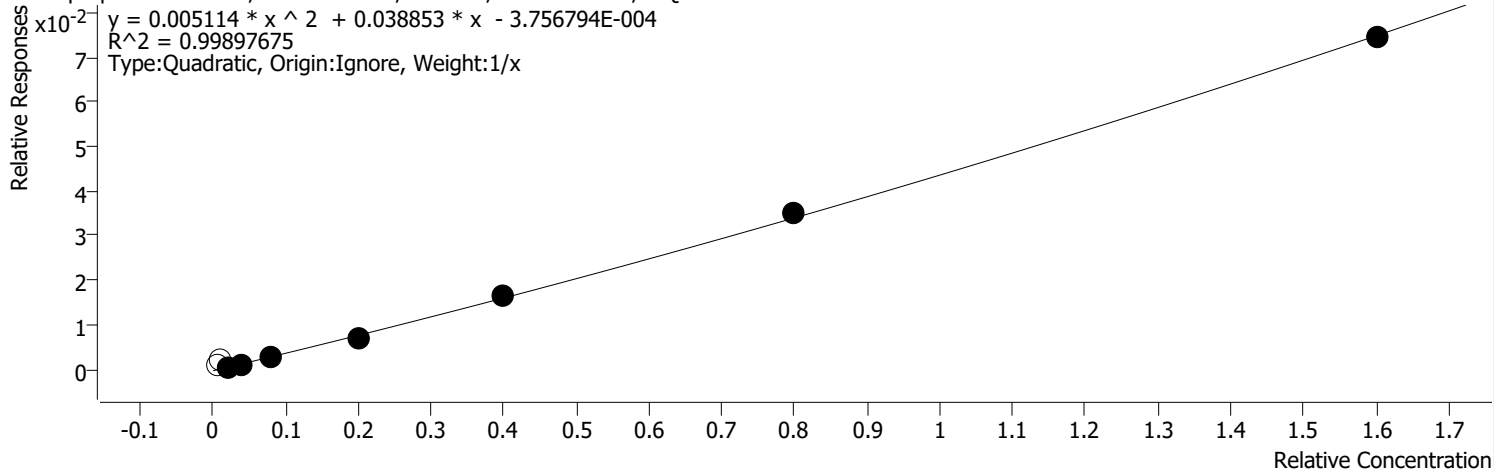
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1		2495	0.1000	0.4055	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	5185	0.2000	0.4242	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	11267	0.5000	0.3837	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	23989	1.0000	0.3880	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	54756	2.0000	0.4512	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	124816	5.0000	0.4152	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	291110	10.0000	0.4915	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	639741	20.0000	0.5312	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	1341951	40.0000	0.5344	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

2-Nitropropane %RSE = 9.7

2-Nitropropane - 9 Levels, 7 Levels Used, 9 Points, 7 Points Used, 0 QCs



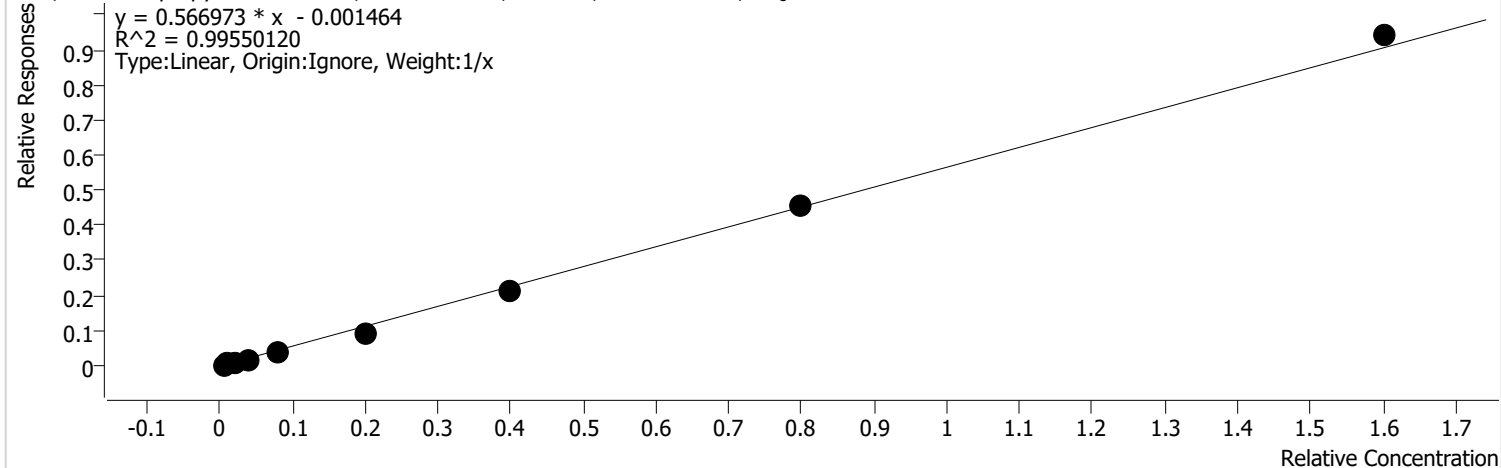
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1		1501	0.1000	0.2439	
D:\GC-19\Data\091823A\091822.D	Calibration	2		2908	0.2000	0.2379	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	766	0.5000	0.0261	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	1727	1.0000	0.0279	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	3889	2.0000	0.0320	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	10349	5.0000	0.0344	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	24269	10.0000	0.0410	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	52537	20.0000	0.0436	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	116805	40.0000	0.0465	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\loc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

cis-1,3-Dichloropropylene %RSE = 21.4

cis-1,3-Dichloropropylene - 9 Levels, 9 Levels Used, 9 Points, 9 Points Used, 0 QCs

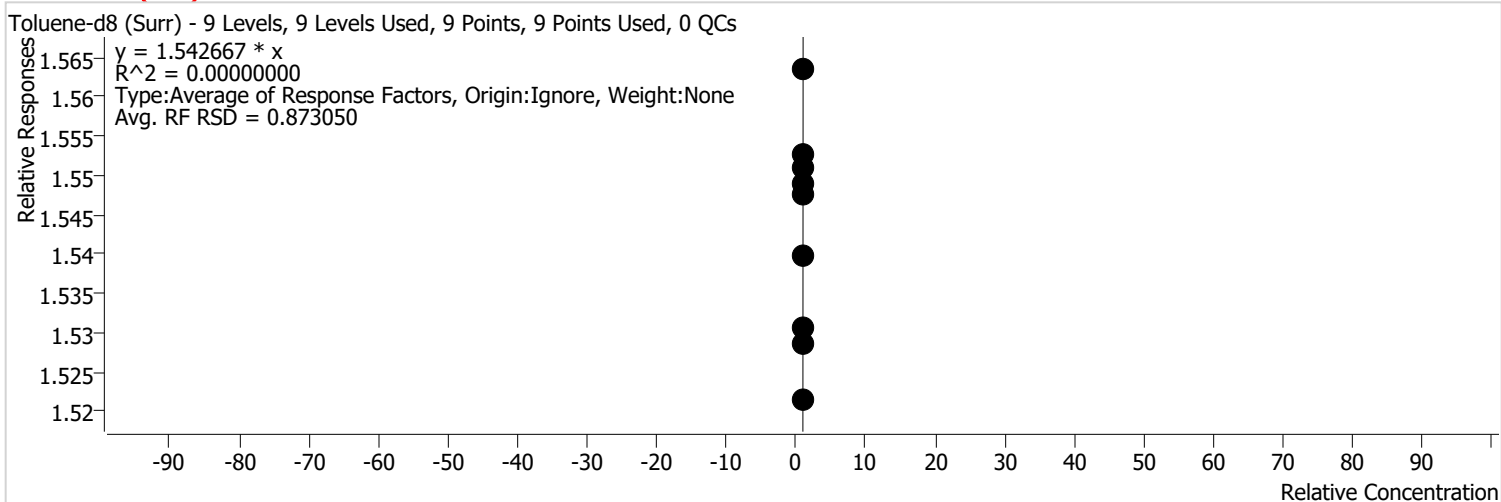


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1	x	2792	0.1000	0.4537	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	5693	0.2000	0.4657	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	13154	0.5000	0.4479	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	25289	1.0000	0.4091	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	57889	2.0000	0.4770	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	138320	5.0000	0.4601	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	319502	10.0000	0.5395	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	687909	20.0000	0.5712	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	1475598	40.0000	0.5876	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin	Analyst Name	FA\GC19
Analysis Time	9/21/2023 10:22 AM	Reporter Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Batch State	Processed
Last Calib Update	9/21/2023 9:22 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Toluene-d8 (Surr) %RSE =



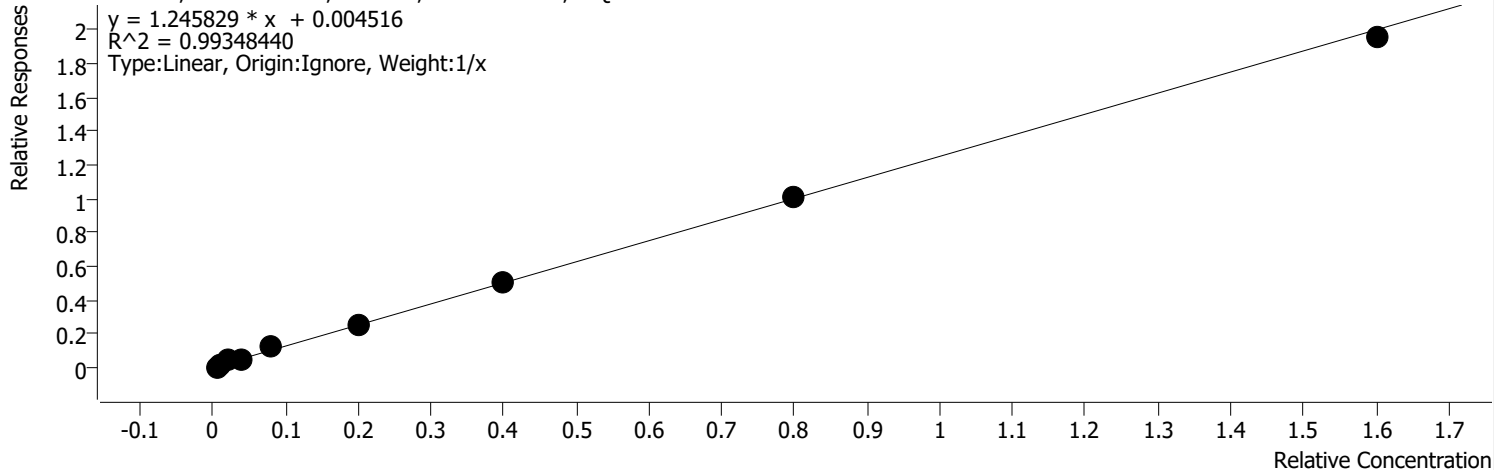
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	2272213	25.0000	1.5475	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	2388359	25.0000	1.5216	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	2301182	25.0000	1.5287	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	2266140	25.0000	1.5305	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	2333890	25.0000	1.5527	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	2349729	25.0000	1.5490	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	2379868	25.0000	1.5398	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	2388771	25.0000	1.5634	
D:\GC-19\Data\091823A\091821.D	Calibration	1	x	2385407	25.0000	1.5508	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Toluene %RSE = 38.5

Toluene - 9 Levels, 9 Levels Used, 9 Points, 9 Points Used, 0 QCs

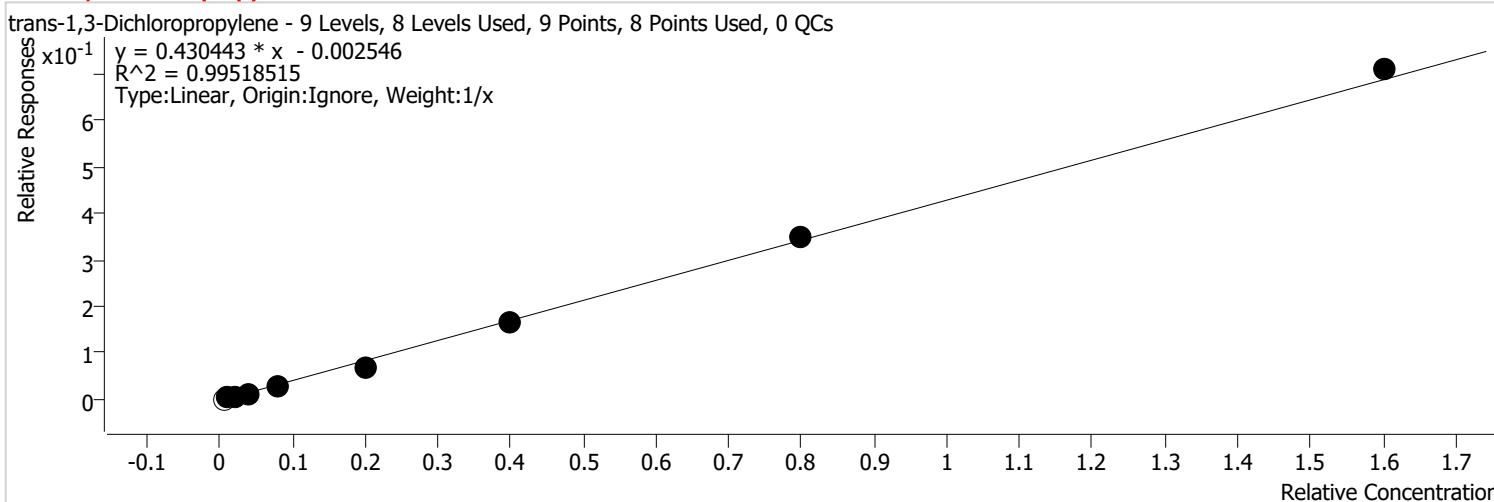


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1	x	9755	0.1000	1.5854	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	19488	0.2000	1.5943	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	69568	0.5000	2.3689	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	72574	1.0000	1.1739	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	196466	2.0000	1.6189	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	372592	5.0000	1.2394	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	753243	10.0000	1.2719	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	1531489	20.0000	1.2717	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	3061623	40.0000	1.2191	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

trans-1,3-Dichloropropylene %RSE = 23.6



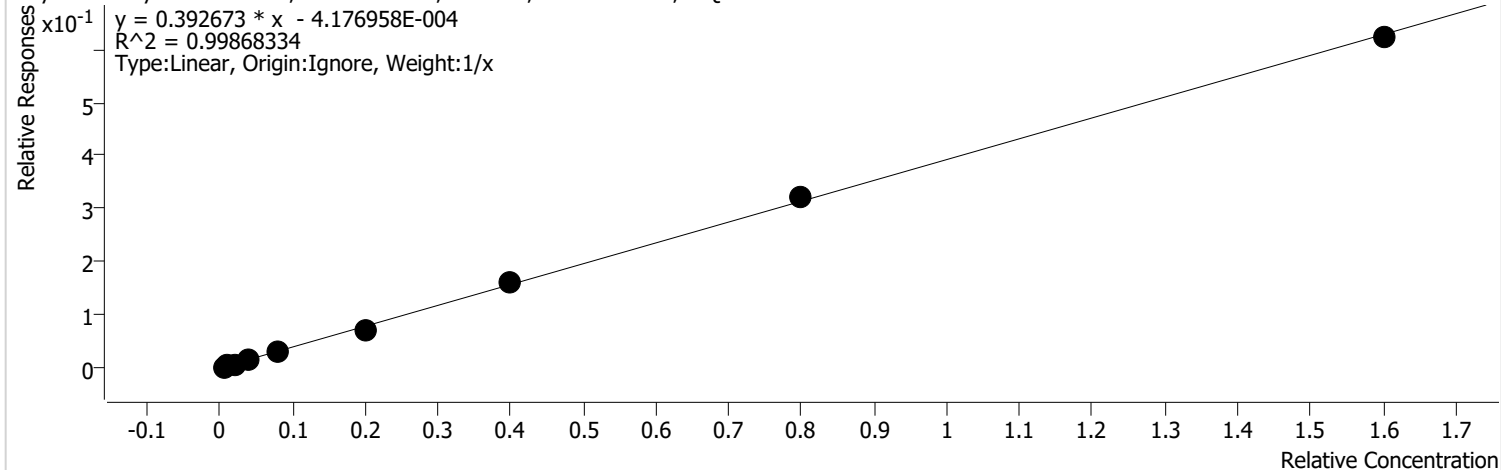
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1		1981	0.1000	0.3219	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	3958	0.2000	0.3238	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	9008	0.5000	0.3067	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	17298	1.0000	0.2798	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	41525	2.0000	0.3422	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	102279	5.0000	0.3402	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	241676	10.0000	0.4081	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	524577	20.0000	0.4356	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	1110699	40.0000	0.4423	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Ethyl methacrylate %RSE = 10.9

Ethyl methacrylate - 9 Levels, 9 Levels Used, 9 Points, 9 Points Used, 0 QCs

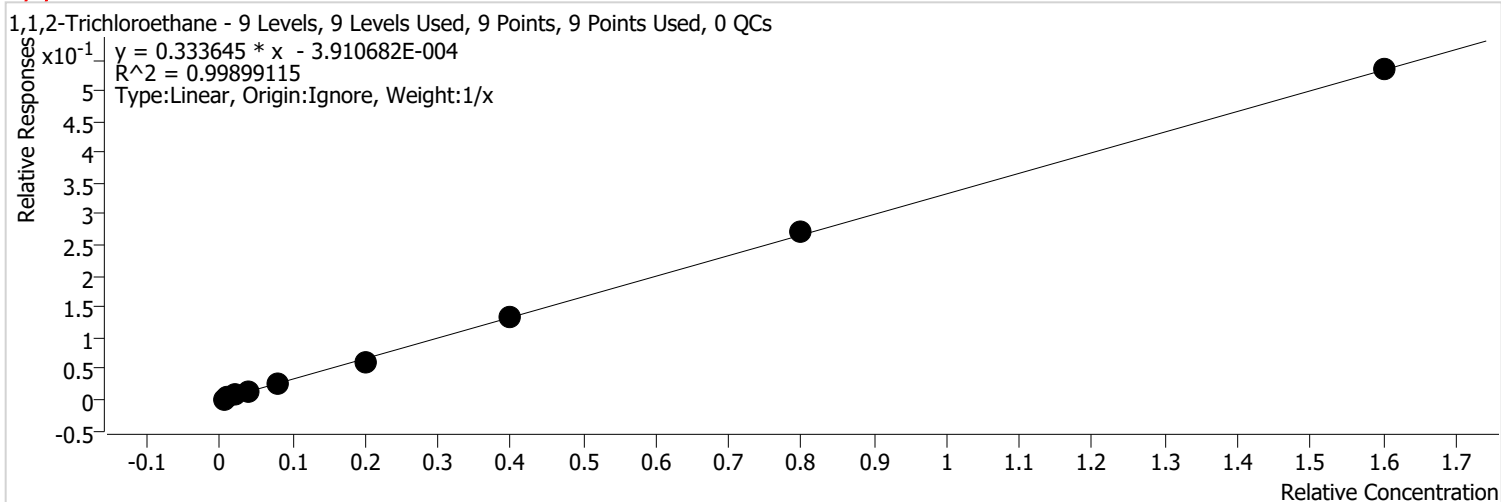


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1	x	2292	0.1000	0.3725	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	4233	0.2000	0.3463	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	10682	0.5000	0.3637	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	19569	1.0000	0.3165	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	45780	2.0000	0.3772	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	108641	5.0000	0.3614	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	241232	10.0000	0.4073	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	485828	20.0000	0.4034	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	975713	40.0000	0.3885	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\loc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,1,2-Trichloroethane %RSE = 8.4



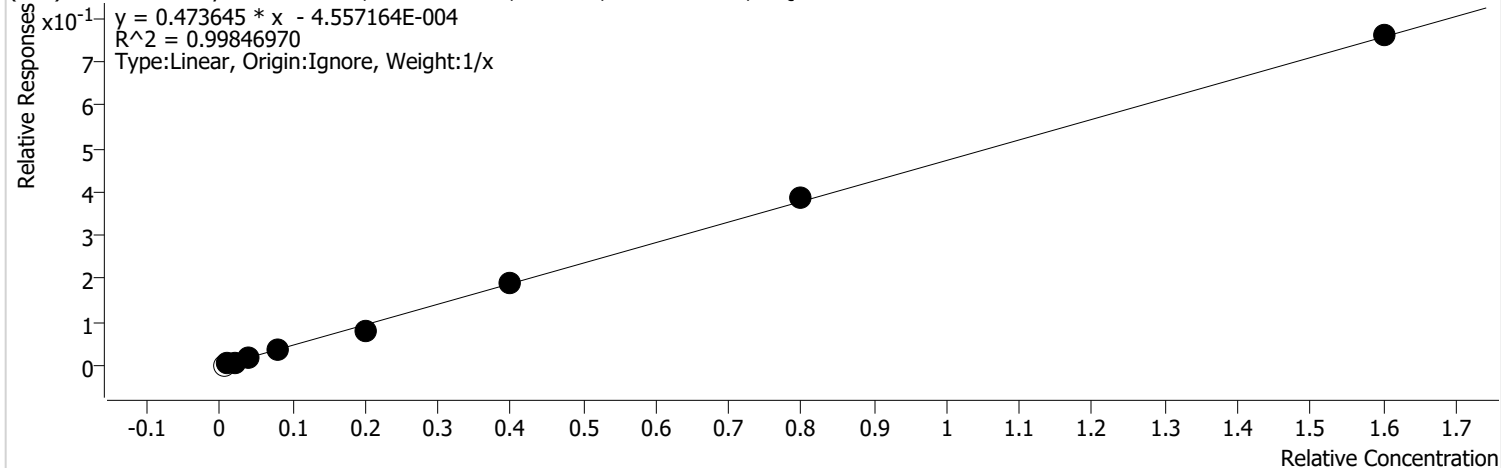
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1	x	1734	0.1000	0.2819	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	3734	0.2000	0.3055	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	9332	0.5000	0.3178	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	17396	1.0000	0.2814	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	38935	2.0000	0.3208	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	90539	5.0000	0.3012	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	197970	10.0000	0.3343	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	411470	20.0000	0.3417	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	838167	40.0000	0.3337	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

(PCE) Tetrachloroethylene %RSE = 10.3

(PCE) Tetrachloroethylene - 9 Levels, 8 Levels Used, 9 Points, 8 Points Used, 0 QCs

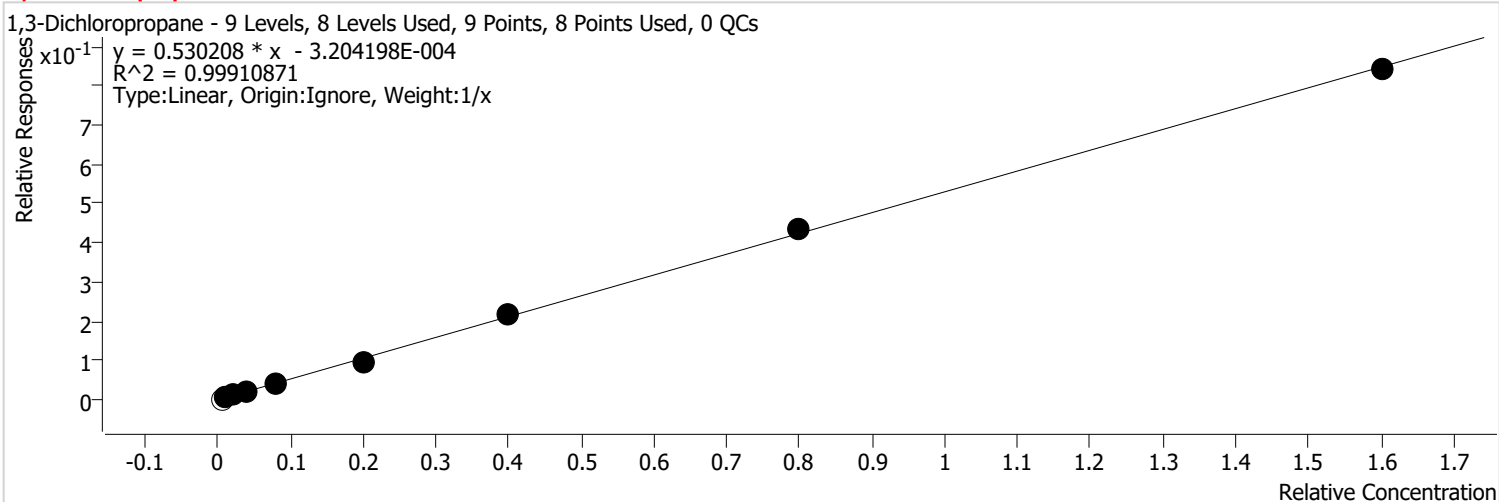


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1		2895	0.1000	0.4705	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	6178	0.2000	0.5054	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	13087	0.5000	0.4456	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	25458	1.0000	0.4118	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	58323	2.0000	0.4806	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	124209	5.0000	0.4132	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	278897	10.0000	0.4709	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	584558	20.0000	0.4854	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	1193201	40.0000	0.4751	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,3-Dichloropropane %RSE = 7.9



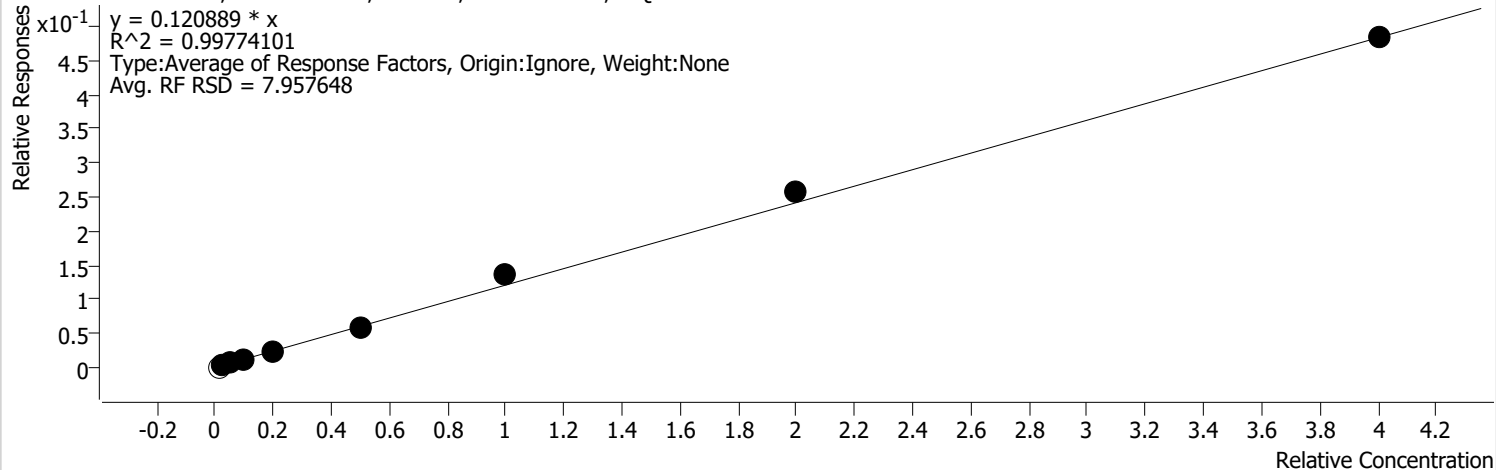
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1		3126	0.1000	0.5081	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	6882	0.2000	0.5630	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	14830	0.5000	0.5050	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	28781	1.0000	0.4655	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	65023	2.0000	0.5358	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	147472	5.0000	0.4905	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	320637	10.0000	0.5414	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	654893	20.0000	0.5438	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	1319610	40.0000	0.5255	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

2-Hexanone %RSE = 8.0

2-Hexanone - 9 Levels, 8 Levels Used, 9 Points, 8 Points Used, 0 QCs



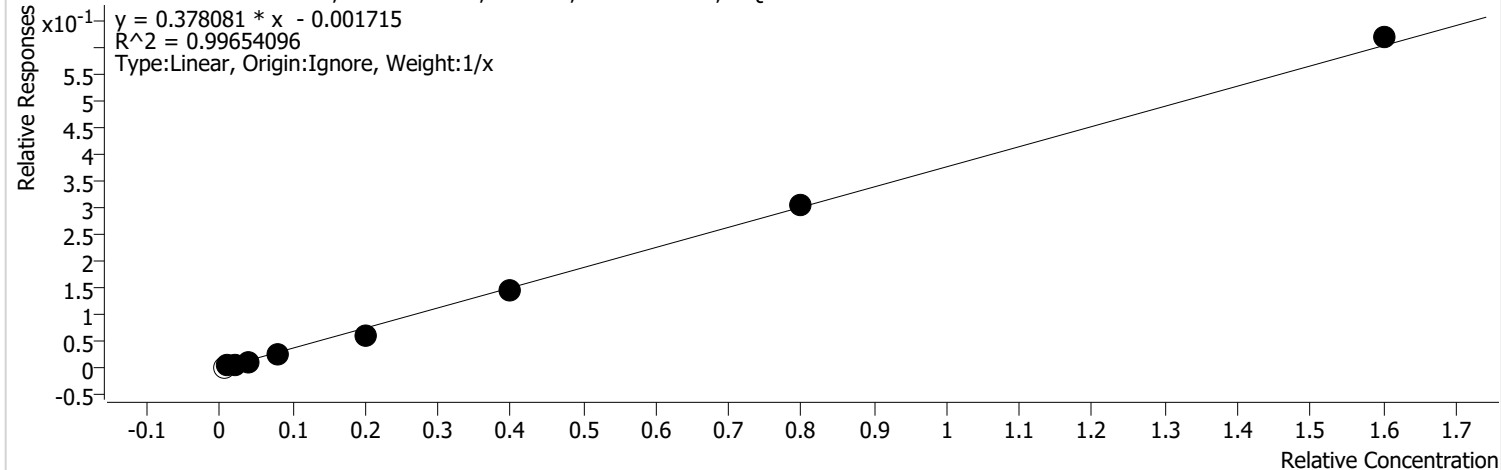
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1		1603	0.2500	0.1042	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	3435	0.5000	0.1124	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	9264	1.2500	0.1262	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	16213	2.5000	0.1049	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	36403	5.0000	0.1200	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	88985	12.5000	0.1184	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	201396	25.0000	0.1360	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	386504	50.0000	0.1284	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	758608	100.0000	0.1208	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

dibromochloromethane %RSE = 18.8

dibromochloromethane - 9 Levels, 8 Levels Used, 9 Points, 8 Points Used, 0 QCs



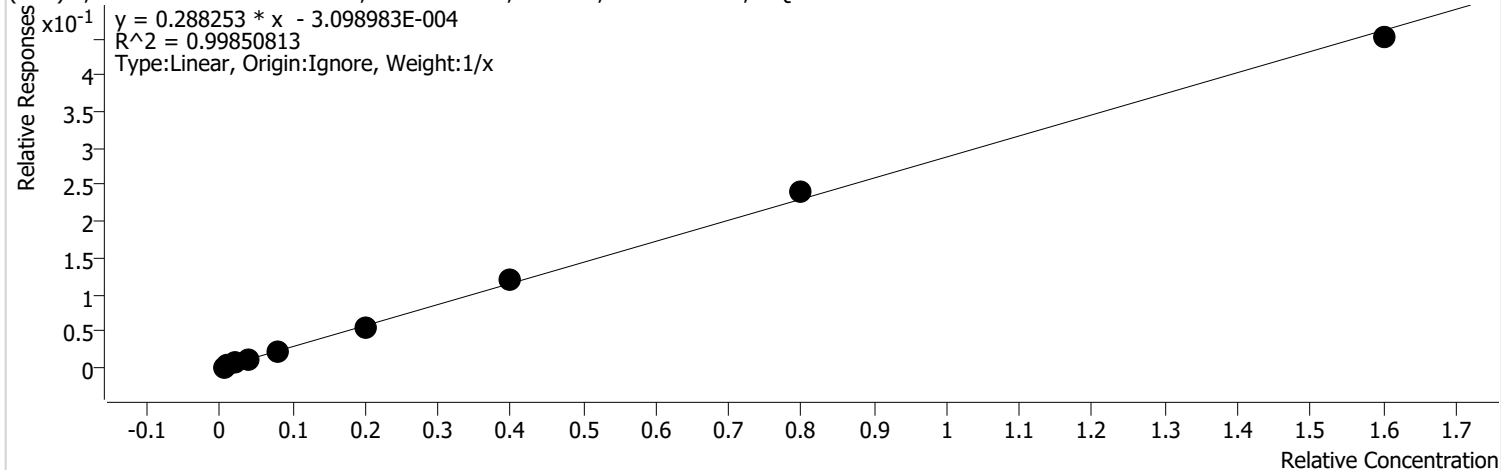
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1		1848	0.1000	0.3003	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	3781	0.2000	0.3093	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	8658	0.5000	0.2948	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	16717	1.0000	0.2704	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	40251	2.0000	0.3317	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	92238	5.0000	0.3068	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	214014	10.0000	0.3614	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	461833	20.0000	0.3835	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	970105	40.0000	0.3863	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

(EDB) 1,2-Dibromoethane %RSE = 7.5

(EDB) 1,2-Dibromoethane - 9 Levels, 9 Levels Used, 9 Points, 9 Points Used, 0 QCs



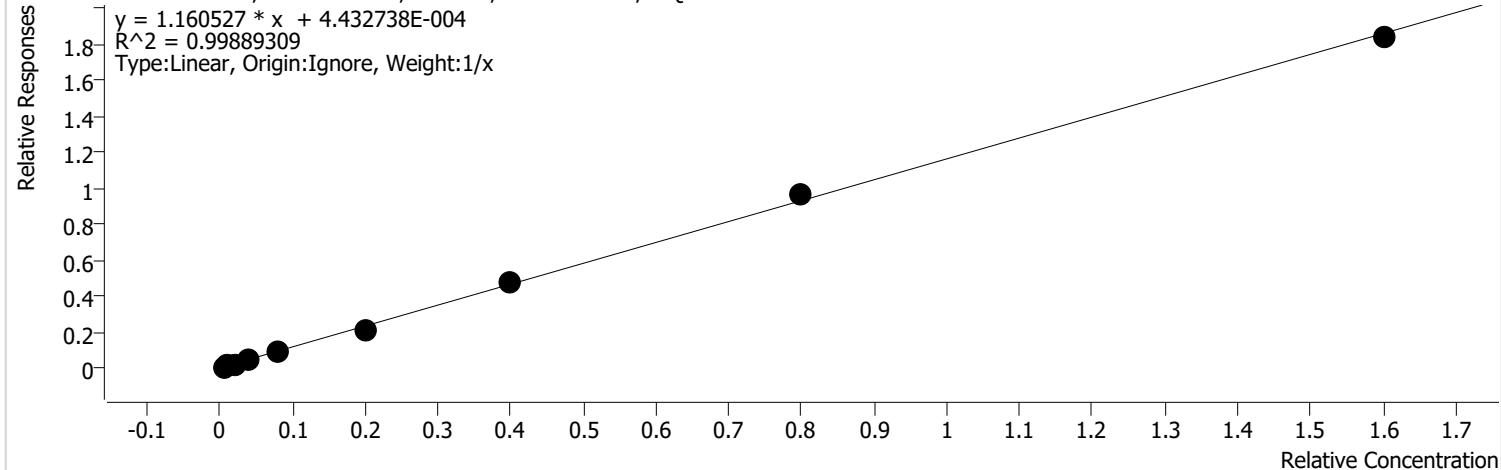
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1	x	1445	0.1000	0.2349	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	3273	0.2000	0.2678	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	7731	0.5000	0.2632	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	14880	1.0000	0.2407	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	35057	2.0000	0.2889	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	81248	5.0000	0.2703	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	178473	10.0000	0.3014	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	360316	20.0000	0.2992	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	707497	40.0000	0.2817	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Chlorobenzene %RSE = 6.9

Chlorobenzene - 9 Levels, 9 Levels Used, 9 Points, 9 Points Used, 0 QCs

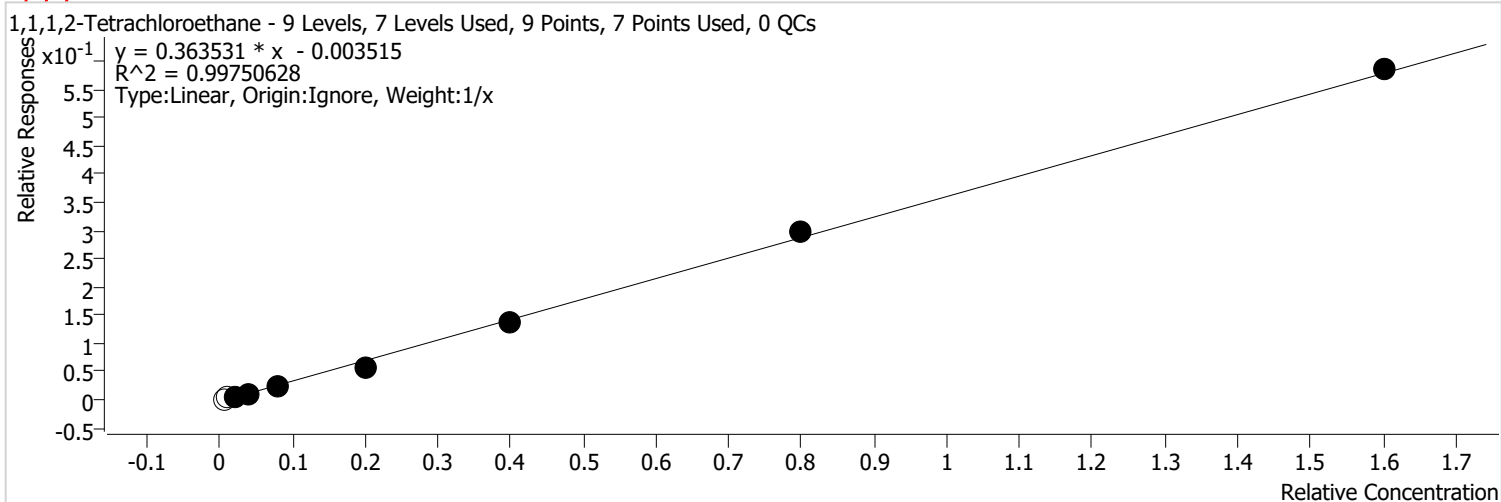


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1	x	10383	0.1000	1.3658	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	19949	0.2000	1.3066	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	42571	0.5000	1.1322	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	80049	1.0000	1.0521	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	178746	2.0000	1.1820	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	391419	5.0000	1.0730	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	855231	10.0000	1.1952	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	1752163	20.0000	1.2011	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	3501513	40.0000	1.1457	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,1,1,2-Tetrachloroethane %RSE = 12.1



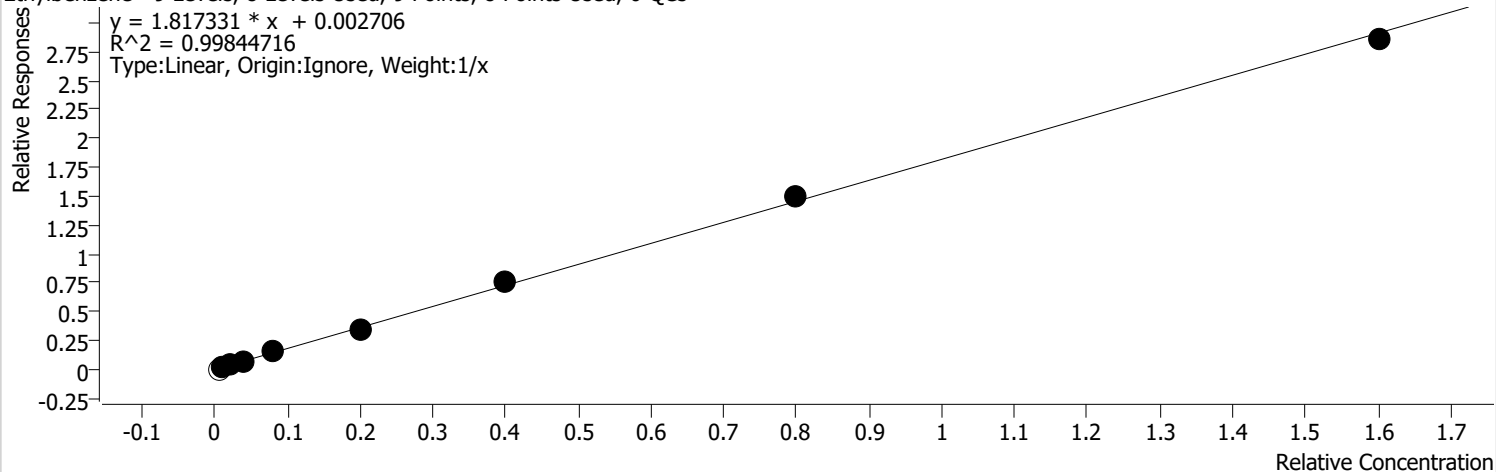
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1		2441	0.1000	0.3211	
D:\GC-19\Data\091823A\091822.D	Calibration	2		4761	0.2000	0.3119	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	10004	0.5000	0.2661	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	19690	1.0000	0.2588	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	46448	2.0000	0.3072	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	107020	5.0000	0.2934	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	245728	10.0000	0.3434	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	539678	20.0000	0.3699	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	1116687	40.0000	0.3654	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Ethylbenzene %RSE = 8.5

Ethylbenzene - 9 Levels, 8 Levels Used, 9 Points, 8 Points Used, 0 QCs

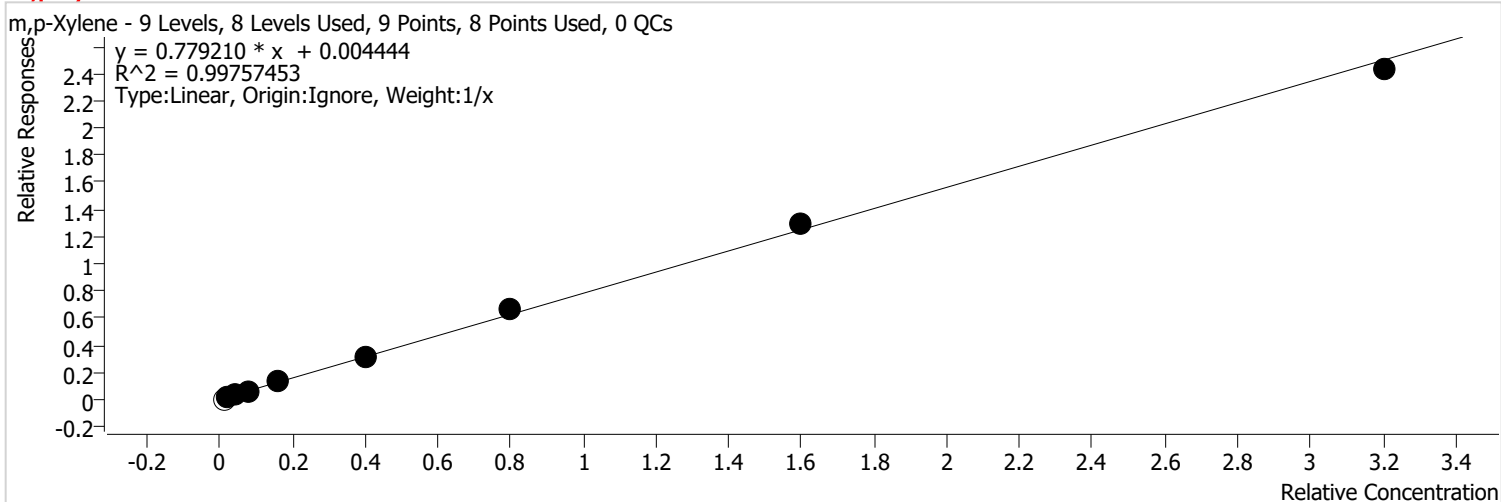


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1		15321	0.1000	2.0154	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	32368	0.2000	2.1201	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	81082	0.5000	2.1564	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	124277	1.0000	1.6335	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	295040	2.0000	1.9511	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	623586	5.0000	1.7095	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	1363037	10.0000	1.9049	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	2743554	20.0000	1.8807	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	5448807	40.0000	1.7829	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\loc w cal.batch.bin	Analyst Name	FA\GC19
Analysis Time	9/21/2023 10:22 AM	Reporter Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Batch State	Processed
Last Calib Update	9/21/2023 9:22 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

m,p-Xylene %RSE = 15.1



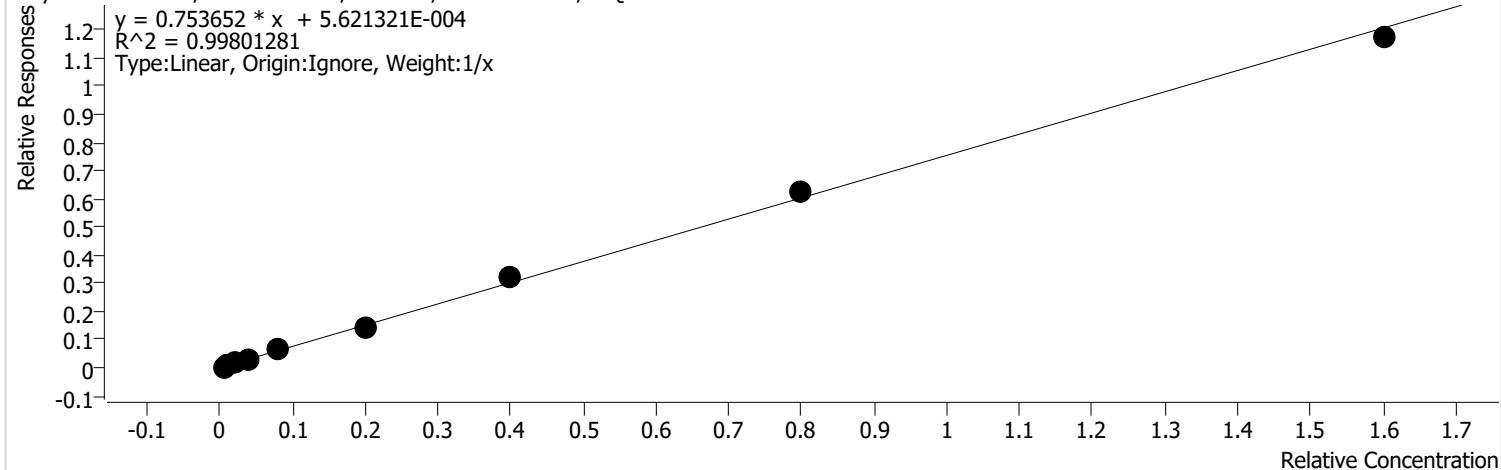
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1		12611	0.2000	0.8294	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	27556	0.4000	0.9024	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	80231	1.0000	1.0669	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	107262	2.0000	0.7049	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	270861	4.0000	0.8956	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	557977	10.0000	0.7648	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	1184392	20.0000	0.8276	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	2351346	40.0000	0.8059	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	4636051	80.0000	0.7585	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

o-Xylene %RSE = 10.6

o-Xylene - 9 Levels, 9 Levels Used, 9 Points, 9 Points Used, 0 QCs



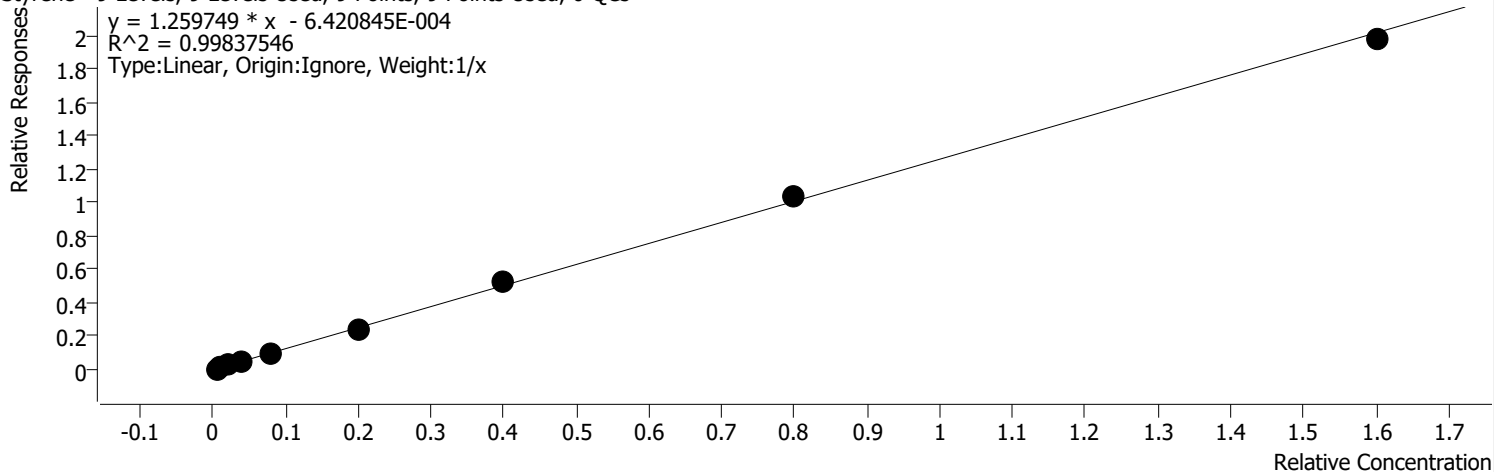
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1	x	6007	0.1000	0.7902	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	12544	0.2000	0.8216	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	34148	0.5000	0.9082	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	50974	1.0000	0.6700	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	124975	2.0000	0.8264	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	263239	5.0000	0.7216	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	569573	10.0000	0.7960	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	1140618	20.0000	0.7819	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	2237681	40.0000	0.7322	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Styrene %RSE = 8.1

Styrene - 9 Levels, 9 Levels Used, 9 Points, 9 Points Used, 0 QCs



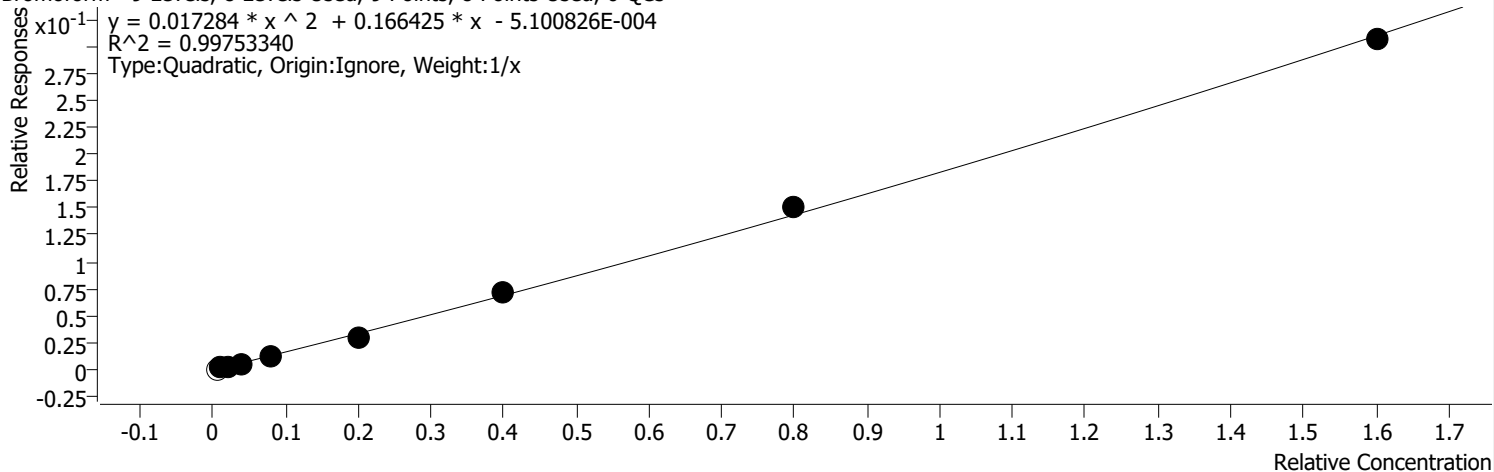
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1	x	9111	0.1000	1.1985	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	19625	0.2000	1.2854	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	45139	0.5000	1.2005	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	80079	1.0000	1.0525	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	189271	2.0000	1.2516	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	429673	5.0000	1.1779	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	953549	10.0000	1.3326	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	1900328	20.0000	1.3027	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	3768313	40.0000	1.2330	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Bromoform %RSE = 15.8

Bromoform - 9 Levels, 8 Levels Used, 9 Points, 8 Points Used, 0 QCs



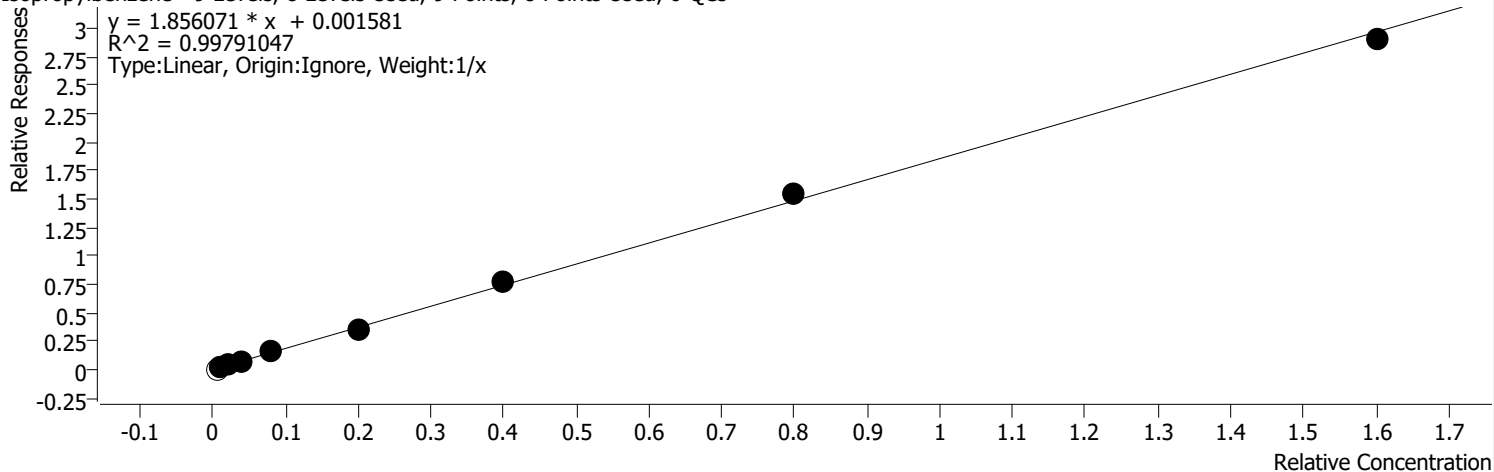
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1		1251	0.1000	0.1646	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	2272	0.2000	0.1488	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	5366	0.5000	0.1427	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	9788	1.0000	0.1286	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	22592	2.0000	0.1494	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	53017	5.0000	0.1453	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	126641	10.0000	0.1770	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	276227	20.0000	0.1894	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	584959	40.0000	0.1914	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Isopropylbenzene %RSE = 11.3

Isopropylbenzene - 9 Levels, 8 Levels Used, 9 Points, 8 Points Used, 0 QCs

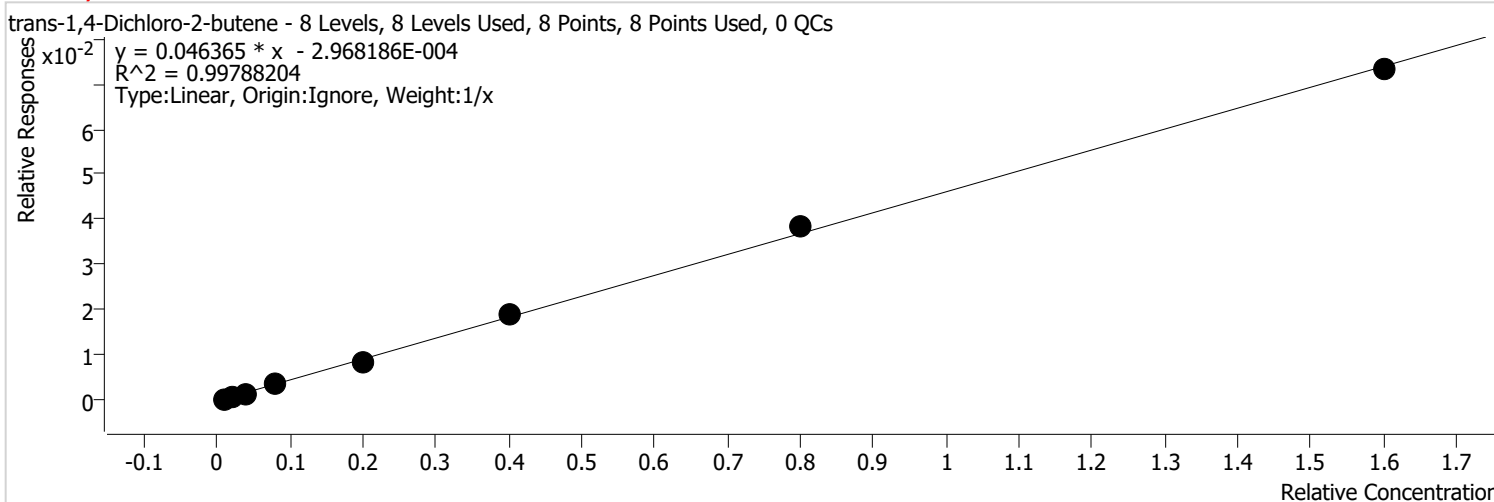


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1		13833	0.1000	1.8196	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	29285	0.2000	1.9181	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	84981	0.5000	2.2601	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	121317	1.0000	1.5946	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	303107	2.0000	2.0044	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	631867	5.0000	1.7322	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	1393300	10.0000	1.9472	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	2813324	20.0000	1.9285	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	5544433	40.0000	1.8142	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

trans-1,4-Dichloro-2-butene %RSE = 12.9

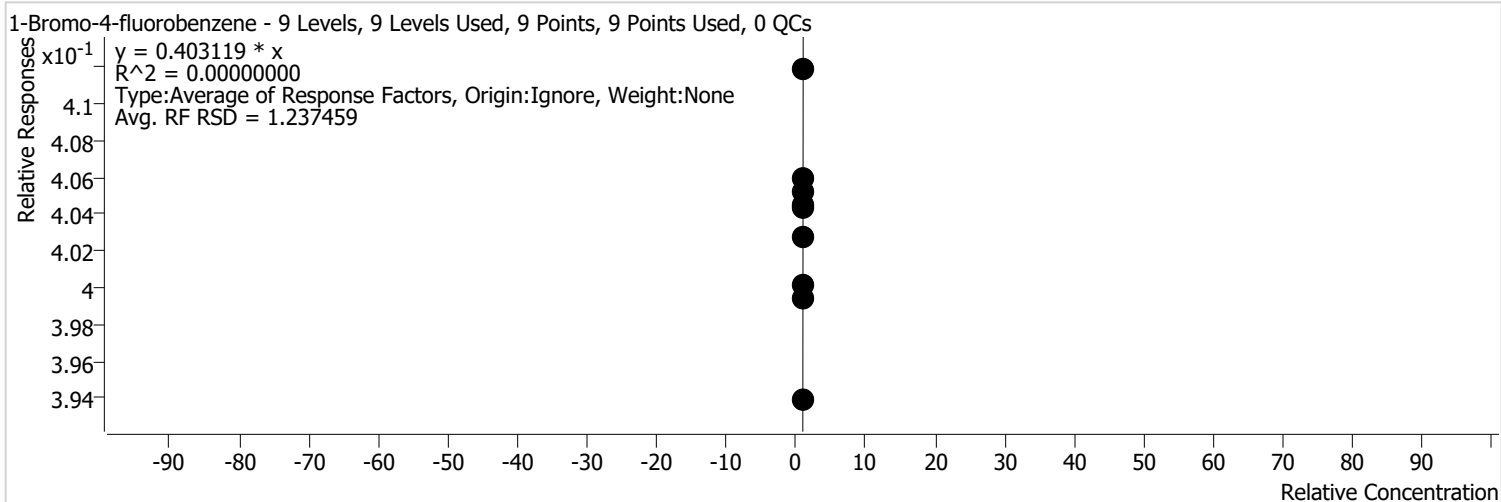


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	308	0.2000	0.0202	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	1228	0.5000	0.0326	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	2392	1.0000	0.0314	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	6094	2.0000	0.0403	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	14528	5.0000	0.0398	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	33614	10.0000	0.0470	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	70007	20.0000	0.0480	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	139697	40.0000	0.0457	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin	Analyst Name	FA\GC19
Analysis Time	9/21/2023 10:22 AM	Reporter Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Batch State	Processed
Last Calib Update	9/21/2023 9:22 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

1-Bromo-4-fluorobenzene %RSE =



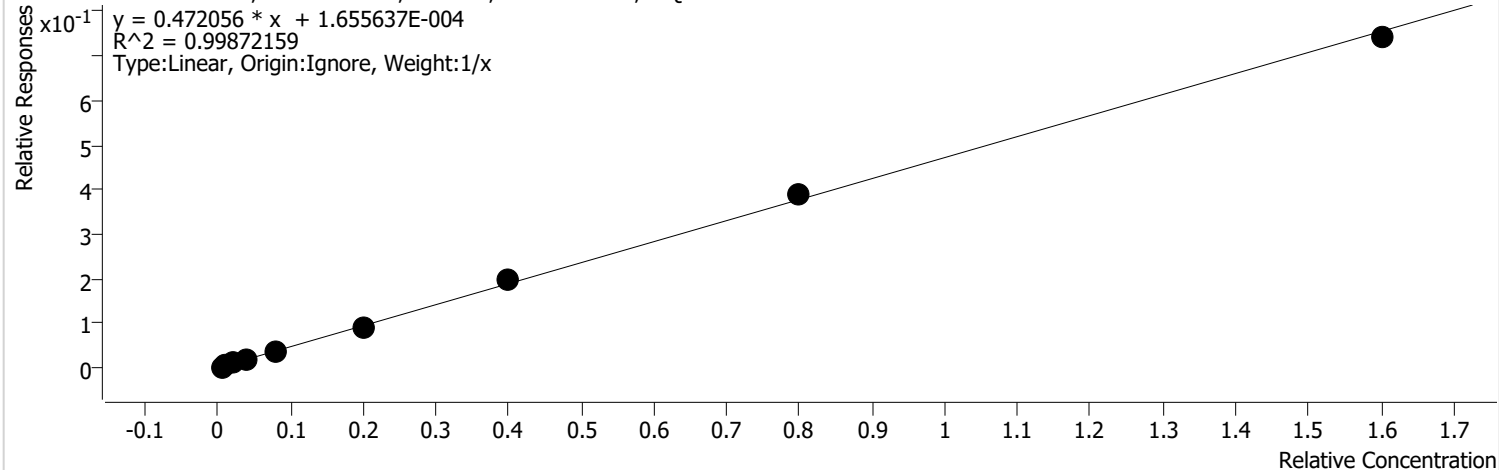
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	774244	25.0000	0.4118	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	752471	25.0000	0.3940	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	729632	25.0000	0.4001	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	720511	25.0000	0.4028	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	737565	25.0000	0.4044	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	767380	25.0000	0.4060	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	769417	25.0000	0.4045	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	773235	25.0000	0.4052	
D:\GC-19\Data\091823A\091821.D	Calibration	1	x	758969	25.0000	0.3993	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Bromobenzene %RSE = 6.5

Bromobenzene - 9 Levels, 9 Levels Used, 9 Points, 9 Points Used, 0 QCs

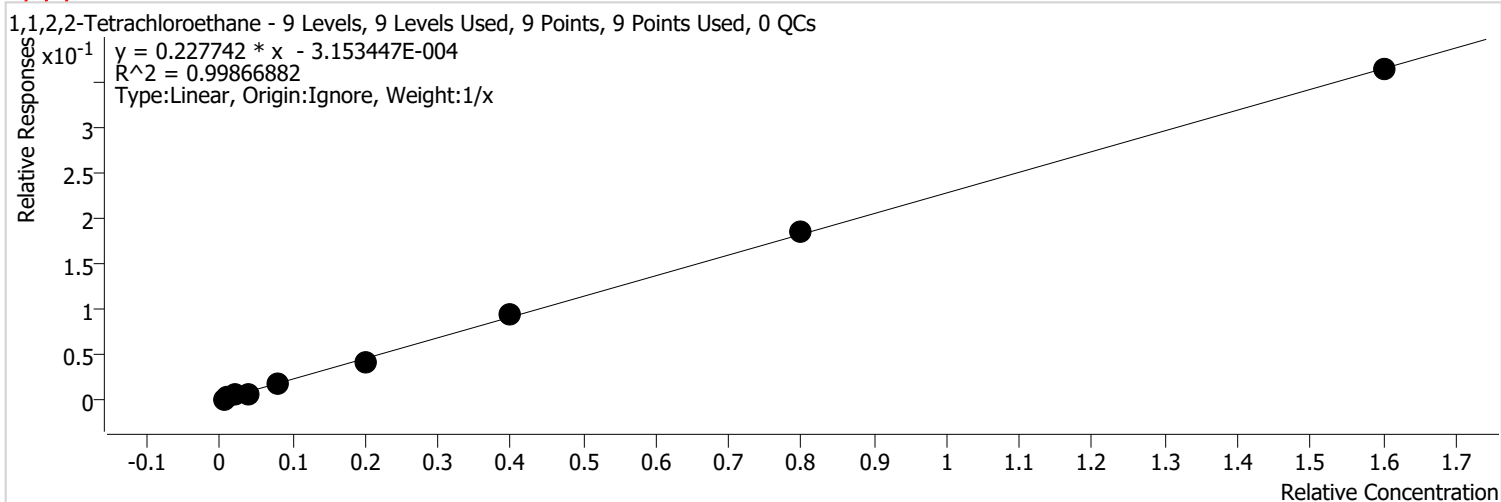


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1	x	4000	0.1000	0.5262	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	7969	0.2000	0.5219	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	18749	0.5000	0.4986	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	31658	1.0000	0.4161	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	71313	2.0000	0.4716	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	162508	5.0000	0.4455	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	354441	10.0000	0.4953	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	712104	20.0000	0.4881	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	1415421	40.0000	0.4631	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\loc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,1,2,2-Tetrachloroethane %RSE = 12.4

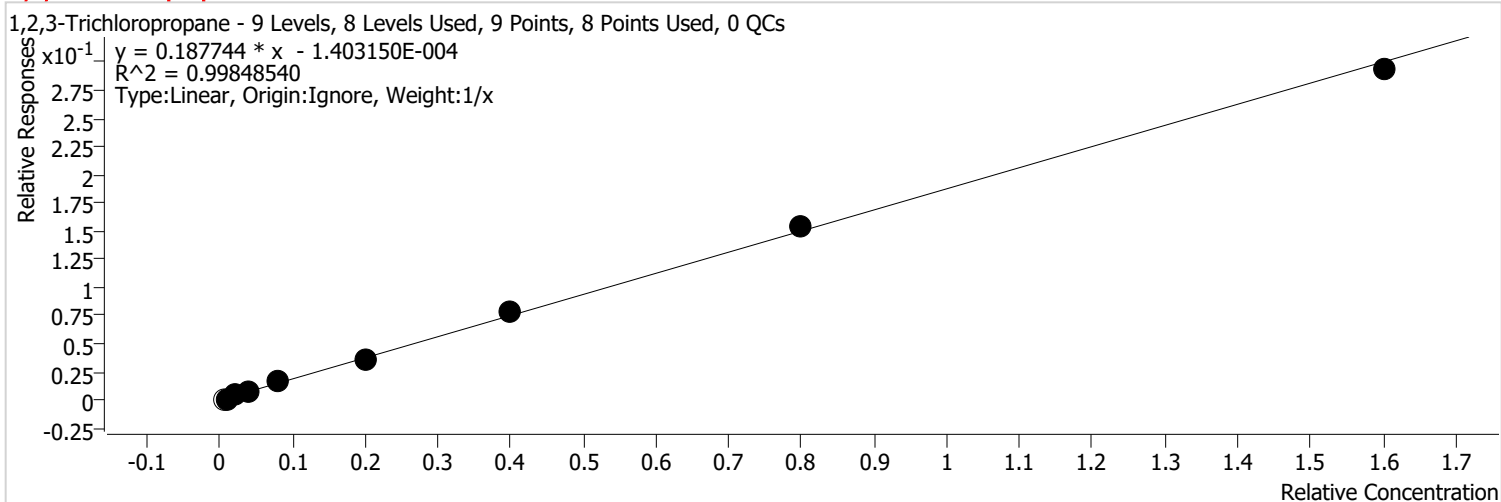


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1	x	1507	0.1000	0.1983	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	2775	0.2000	0.1818	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	8831	0.5000	0.2349	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	13324	1.0000	0.1751	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	31241	2.0000	0.2066	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	77192	5.0000	0.2116	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	166899	10.0000	0.2332	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	339400	20.0000	0.2327	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	692933	40.0000	0.2267	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,2,3-Trichloropropane %RSE = 6.3



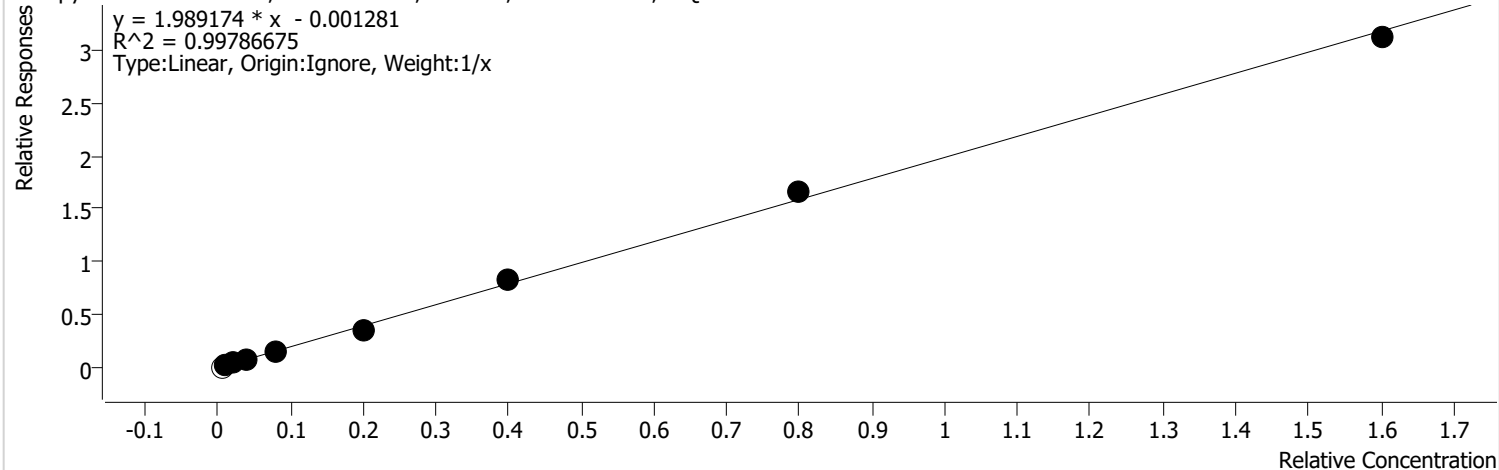
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1		1774	0.1000	0.2334	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	2408	0.2000	0.1577	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	7023	0.5000	0.1868	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	13422	1.0000	0.1764	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	30629	2.0000	0.2025	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	63503	5.0000	0.1741	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	140260	10.0000	0.1960	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	282938	20.0000	0.1940	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	560127	40.0000	0.1833	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:53 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

n-Propylbenzene %RSE = 9.5

n-Propylbenzene - 9 Levels, 8 Levels Used, 9 Points, 8 Points Used, 0 QCs



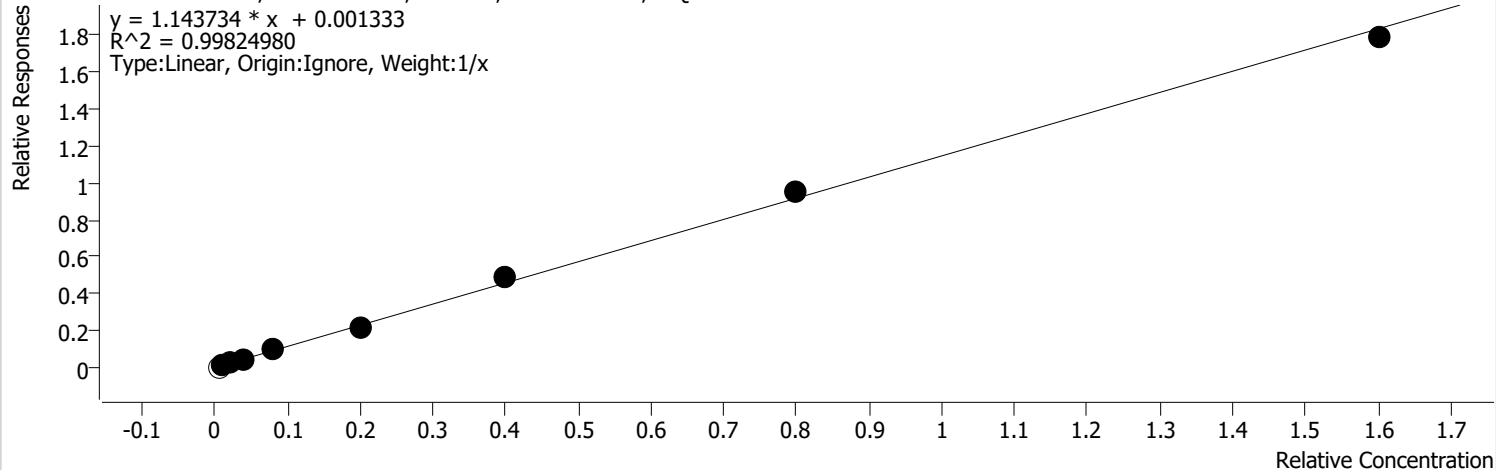
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1		15083	0.1000	1.9841	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	31087	0.2000	2.0361	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	77521	0.5000	2.0617	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	125109	1.0000	1.6444	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	299074	2.0000	1.9777	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	655376	5.0000	1.7967	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	1499095	10.0000	2.0950	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	3018455	20.0000	2.0691	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	5954632	40.0000	1.9484	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:53 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

2-Chlorotoluene %RSE = 6.6

2-Chlorotoluene - 9 Levels, 8 Levels Used, 9 Points, 8 Points Used, 0 QCs



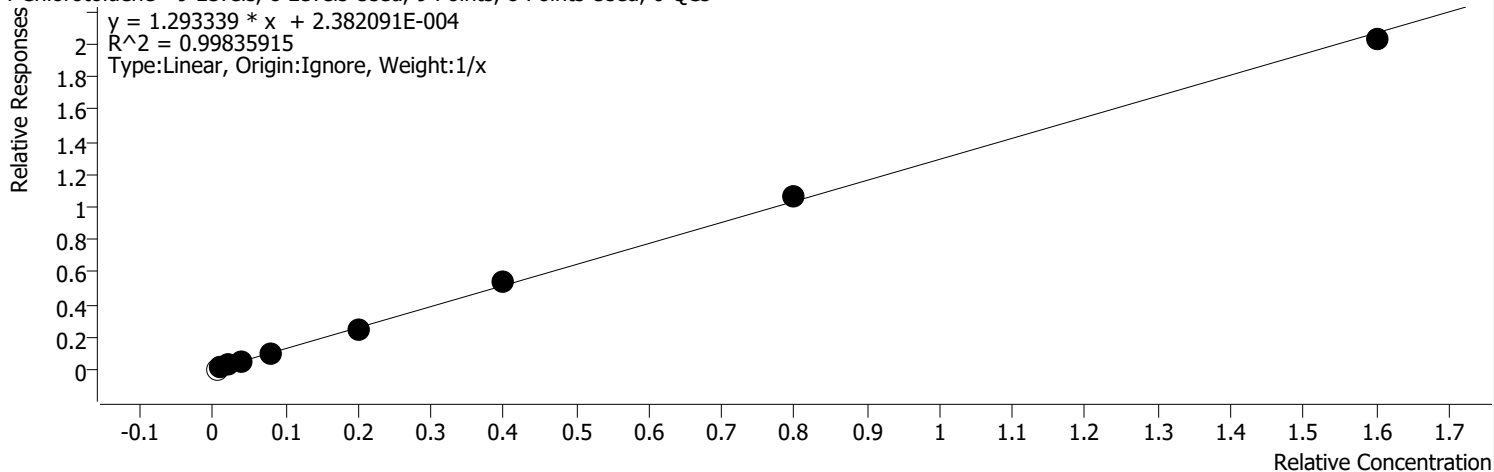
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1		9883	0.1000	1.3000	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	20282	0.2000	1.3284	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	47479	0.5000	1.2627	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	79473	1.0000	1.0446	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	182408	2.0000	1.2062	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	396156	5.0000	1.0860	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	868889	10.0000	1.2143	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	1734581	20.0000	1.1890	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	3405280	40.0000	1.1143	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:53 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

4-Chlorotoluene %RSE = 8.3

4-Chlorotoluene - 9 Levels, 8 Levels Used, 9 Points, 8 Points Used, 0 QCs

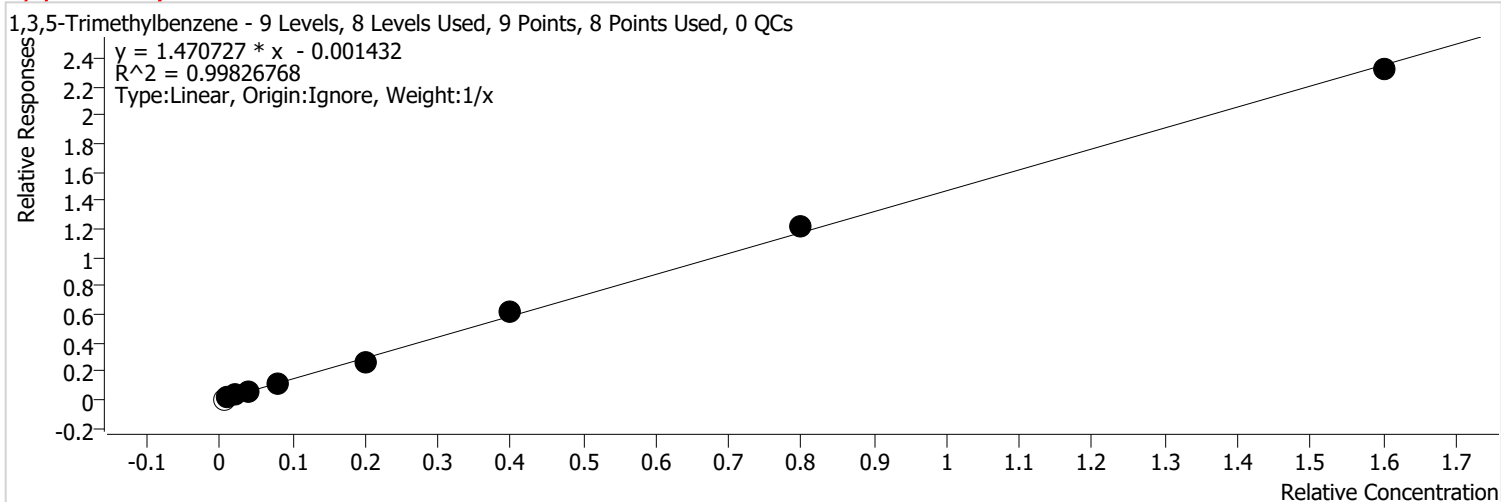


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1		10285	0.1000	1.3529	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	22134	0.2000	1.4497	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	51285	0.5000	1.3639	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	84843	1.0000	1.1152	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	194219	2.0000	1.2843	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	442107	5.0000	1.2120	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	981305	10.0000	1.3714	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	1948735	20.0000	1.3359	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	3872593	40.0000	1.2672	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:53 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,3,5-Trimethylbenzene %RSE = 9.6



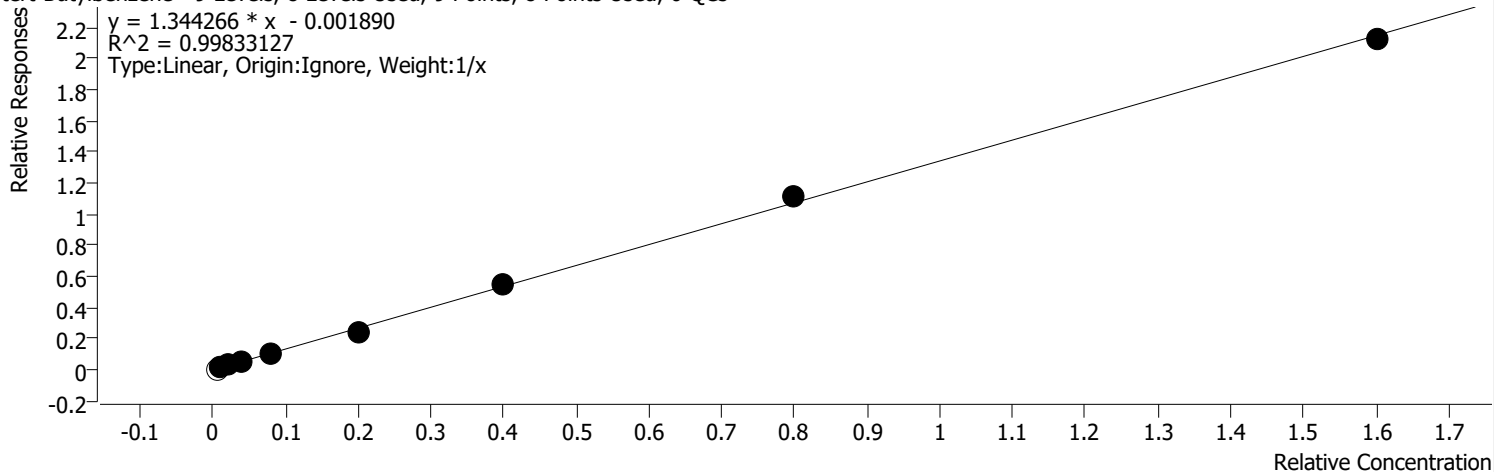
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1		11097	0.1000	1.4598	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	21632	0.2000	1.4168	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	58441	0.5000	1.5543	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	91521	1.0000	1.2029	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	219288	2.0000	1.4501	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	484284	5.0000	1.3276	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	1091317	10.0000	1.5251	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	2220240	20.0000	1.5220	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	4428847	40.0000	1.4492	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\loc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:53 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

tert-Butylbenzene %RSE = 9.7

tert-Butylbenzene - 9 Levels, 8 Levels Used, 9 Points, 8 Points Used, 0 QCs

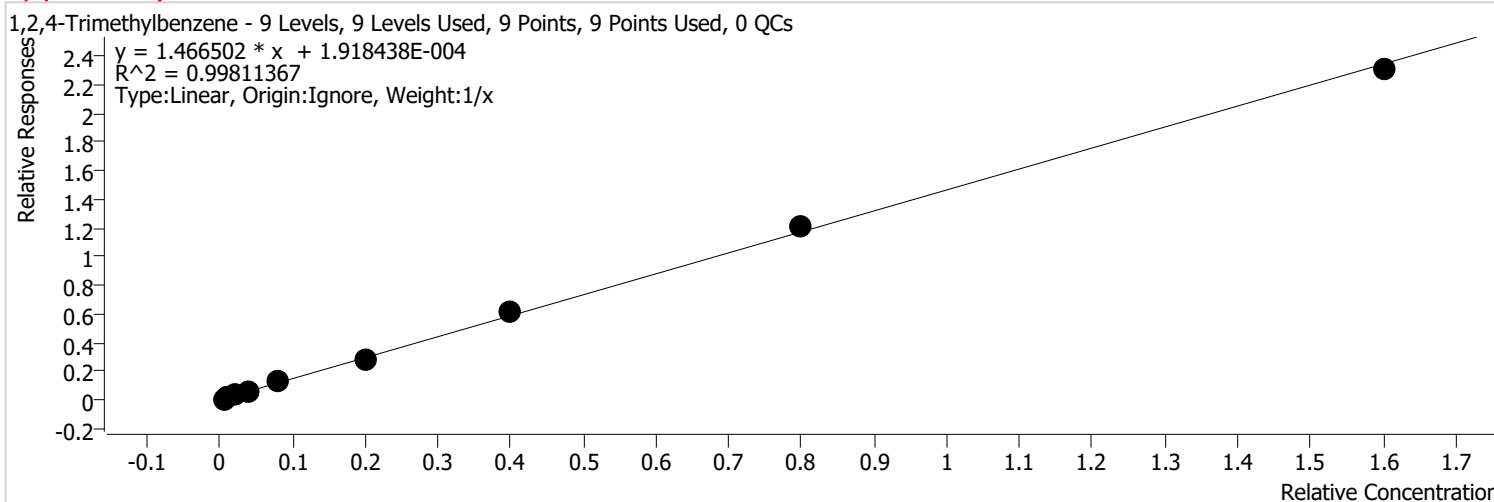


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1		9718	0.1000	1.2784	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	20122	0.2000	1.3179	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	48957	0.5000	1.3020	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	85095	1.0000	1.1185	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	193869	2.0000	1.2820	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	440278	5.0000	1.2070	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	992977	10.0000	1.3877	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	2033335	20.0000	1.3938	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	4051605	40.0000	1.3257	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:53 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,2,4-Trimethylbenzene %RSE = 13.4



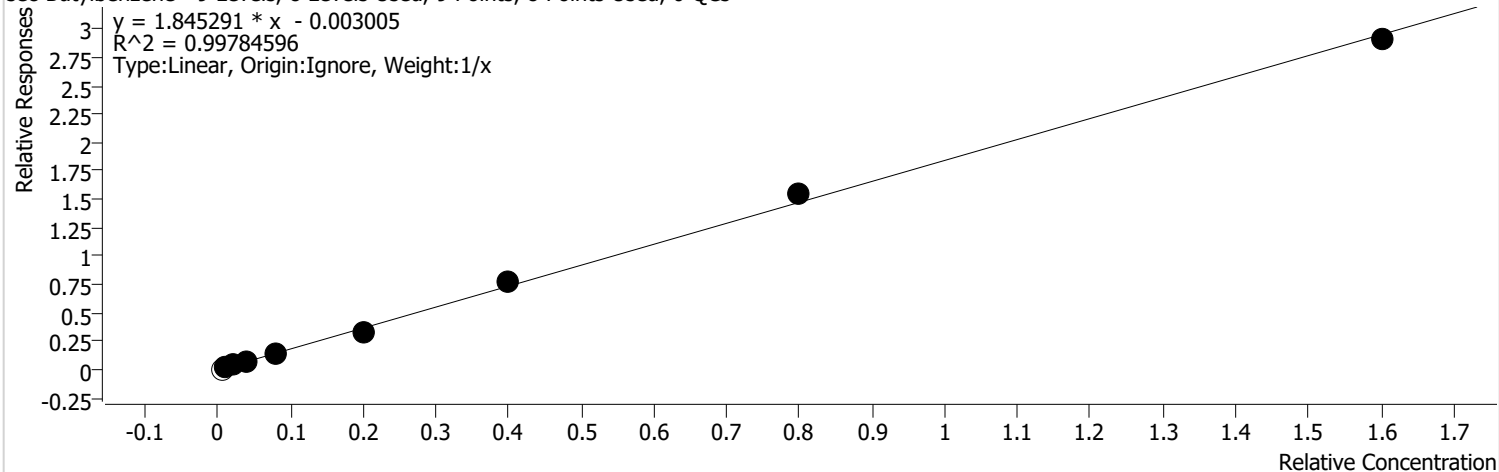
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1	x	10634	0.1000	1.3989	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	22047	0.2000	1.4440	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	70374	0.5000	1.8716	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	90190	1.0000	1.1854	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	232021	2.0000	1.5343	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	503417	5.0000	1.3801	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	1090245	10.0000	1.5236	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	2202254	20.0000	1.5096	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	4405017	40.0000	1.4414	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:53 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

sec-Butylbenzene %RSE = 9.7

sec-Butylbenzene - 9 Levels, 8 Levels Used, 9 Points, 8 Points Used, 0 QCs

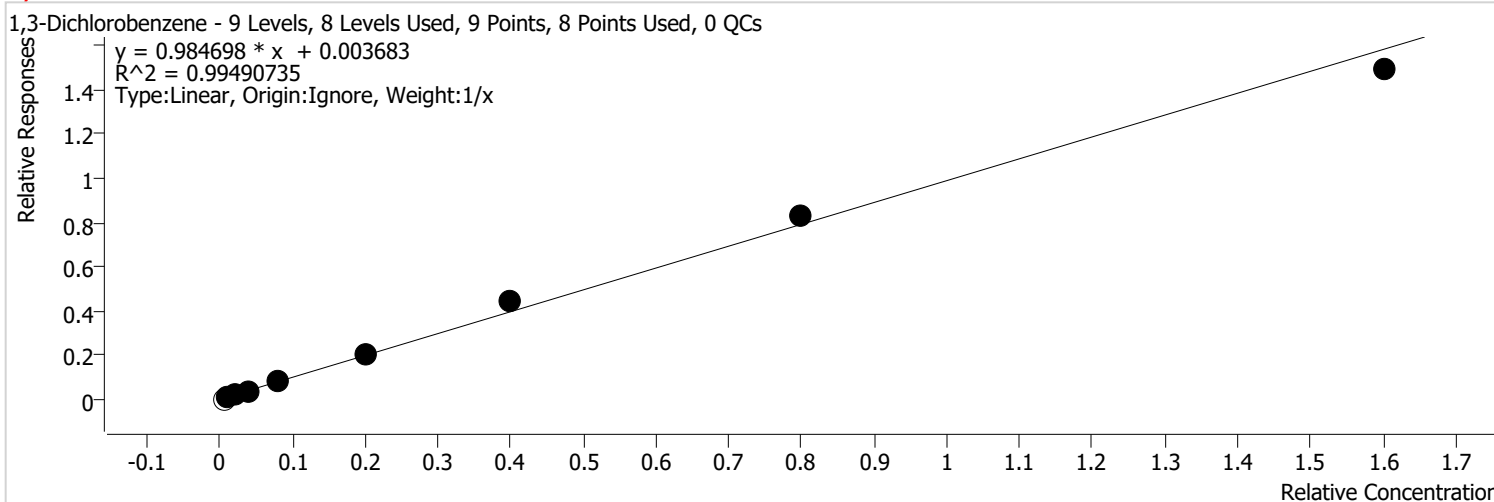


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1		12647	0.1000	1.6636	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	25901	0.2000	1.6964	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	68686	0.5000	1.8267	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	114800	1.0000	1.5089	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	270899	2.0000	1.7914	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	591499	5.0000	1.6215	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	1369168	10.0000	1.9134	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	2804037	20.0000	1.9222	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	5546336	40.0000	1.8148	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:53 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,3-Dichlorobenzene %RSE = 10.6

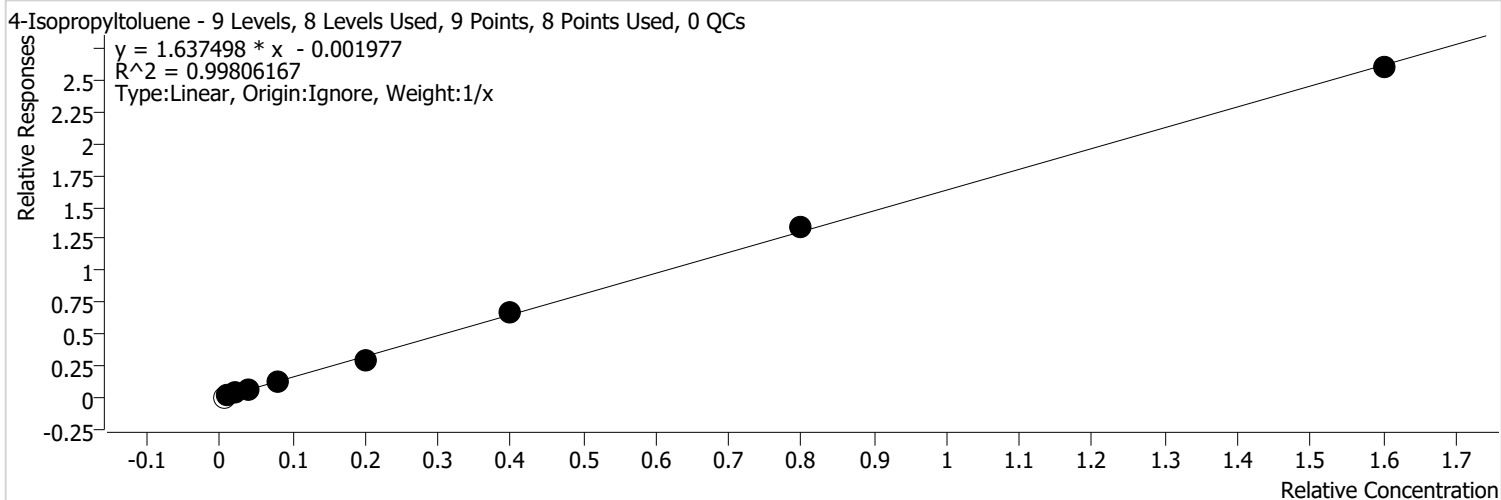


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1		6766	0.1000	1.2273	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	14330	0.2000	1.2818	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	34908	0.5000	1.2258	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	56250	1.0000	0.9815	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	127003	2.0000	1.1031	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	285755	5.0000	1.0199	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	642487	10.0000	1.1171	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	1263390	20.0000	1.0360	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	2532755	40.0000	0.9296	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:53 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

4-Isopropyltoluene %RSE = 10.8

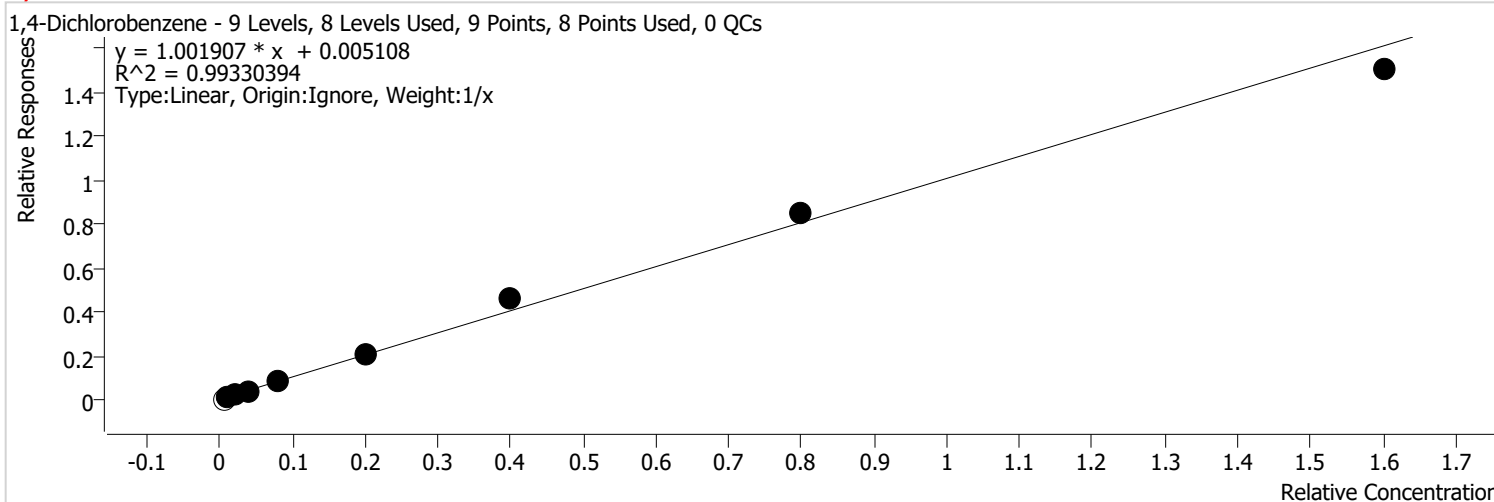


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1		12599	0.1000	1.6573	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	24240	0.2000	1.5877	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	65181	0.5000	1.7335	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	101005	1.0000	1.3276	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	237217	2.0000	1.5687	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	525365	5.0000	1.4402	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	1210678	10.0000	1.6920	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	2462700	20.0000	1.6882	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	4961759	40.0000	1.6236	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:53 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,4-Dichlorobenzene %RSE = 15.3

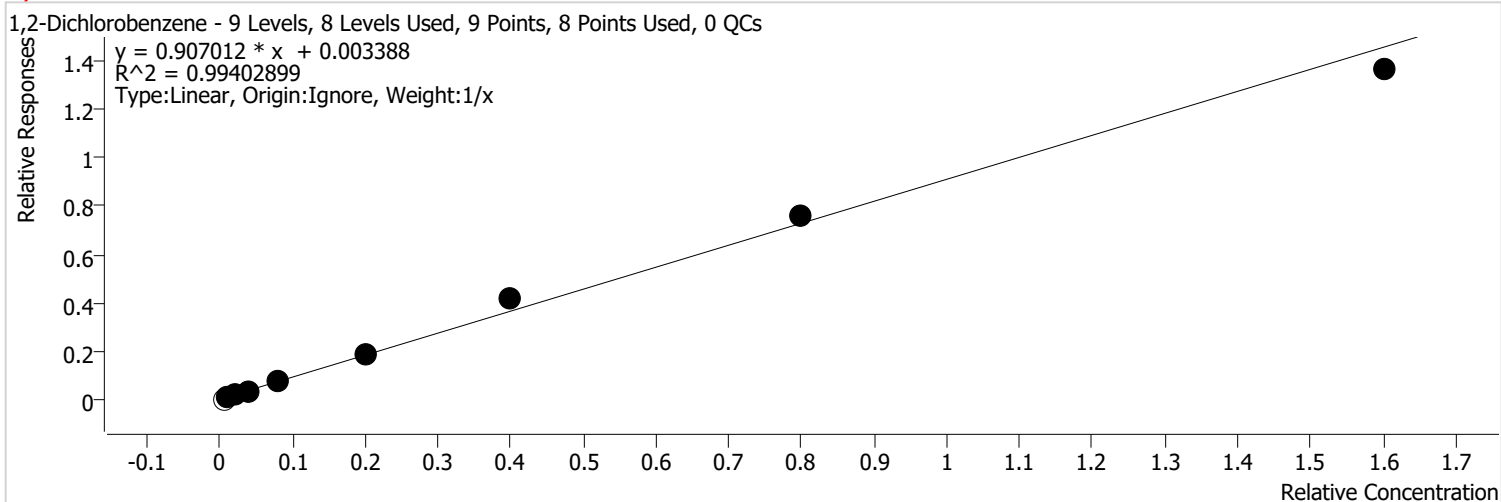


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1		7664	0.1000	1.3901	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	15091	0.2000	1.3498	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	39259	0.5000	1.3786	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	60158	1.0000	1.0497	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	132633	2.0000	1.1520	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	299141	5.0000	1.0677	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	664181	10.0000	1.1548	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	1291105	20.0000	1.0587	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	2554065	40.0000	0.9375	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:53 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,2-Dichlorobenzene %RSE = 11.9



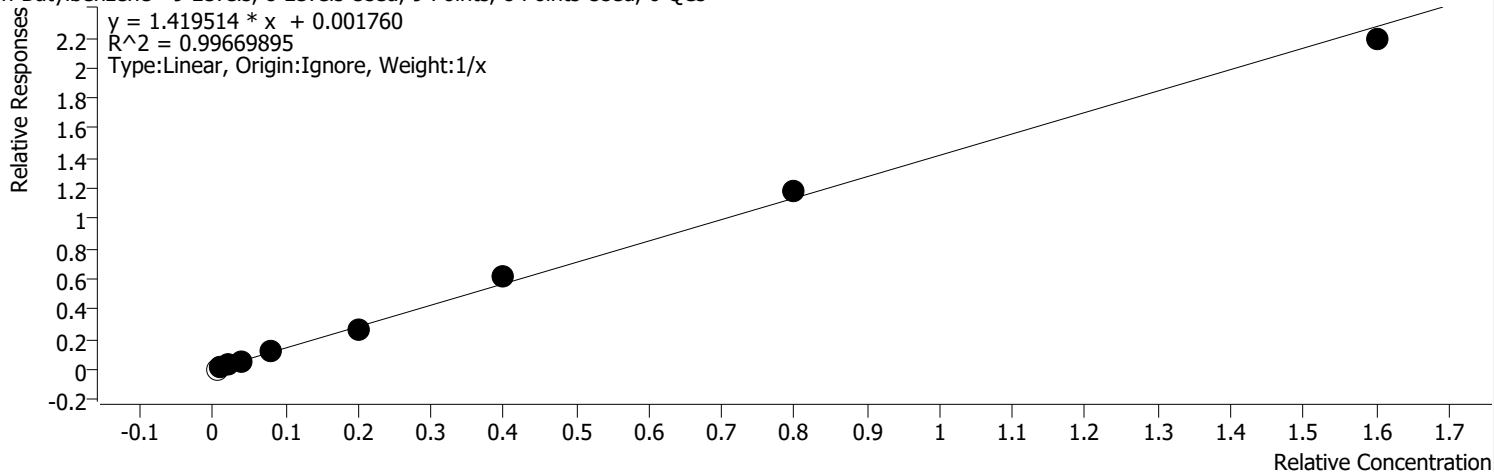
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1		5893	0.1000	1.0689	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	12873	0.2000	1.1515	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	32510	0.5000	1.1416	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	51584	1.0000	0.9001	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	116730	2.0000	1.0139	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	267892	5.0000	0.9561	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	596149	10.0000	1.0365	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	1167039	20.0000	0.9570	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	2318869	40.0000	0.8511	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:53 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

n-Butylbenzene %RSE = 12.4

n-Butylbenzene - 9 Levels, 8 Levels Used, 9 Points, 8 Points Used, 0 QCs

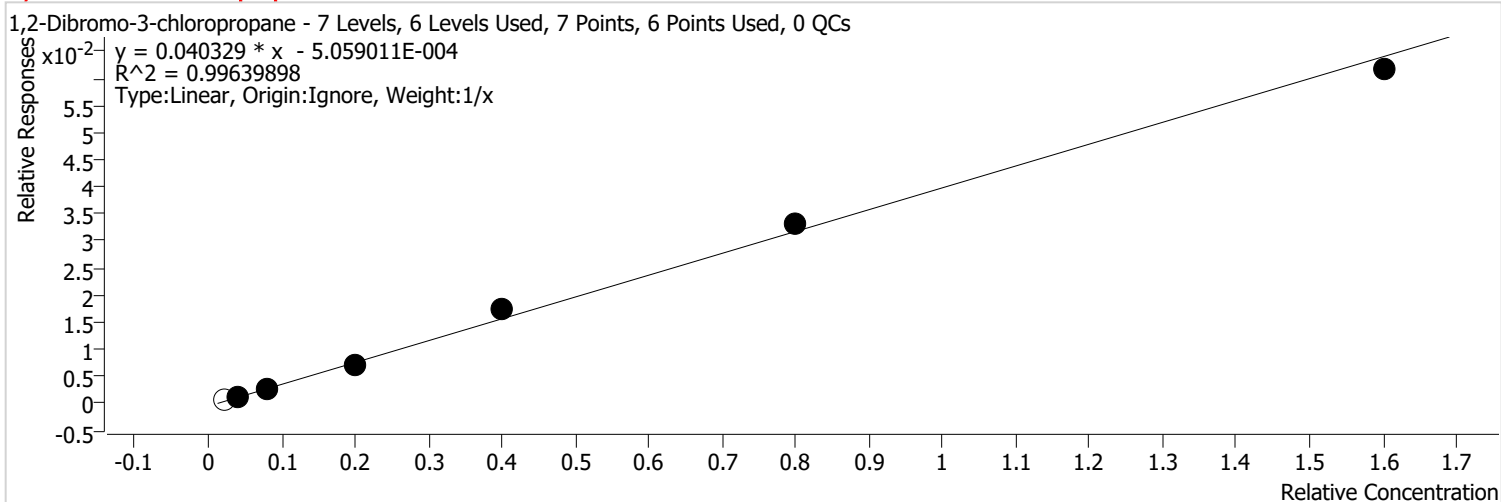


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1		8031	0.1000	1.4568	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	16464	0.2000	1.4727	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	51059	0.5000	1.7930	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	71269	1.0000	1.2435	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	169684	2.0000	1.4738	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	381623	5.0000	1.3620	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	890306	10.0000	1.5479	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	1813834	20.0000	1.4874	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	3722200	40.0000	1.3662	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:53 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,2-Dibromo-3-chloropropane %RSE = 6.9

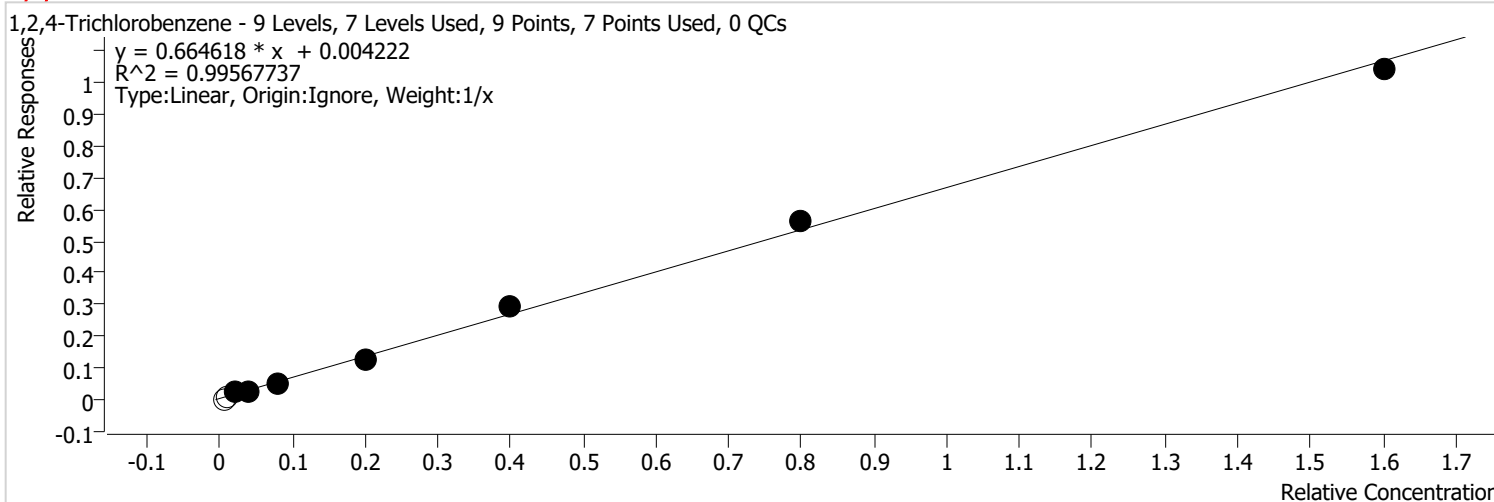


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091904.D	Calibration	3		1229	0.5000	0.0432	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	1482	1.0000	0.0259	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	3906	2.0000	0.0339	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	9932	5.0000	0.0354	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	24819	10.0000	0.0432	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	50448	20.0000	0.0414	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	104888	40.0000	0.0385	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:53 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,2,4-Trichlorobenzene %RSE = 19.9



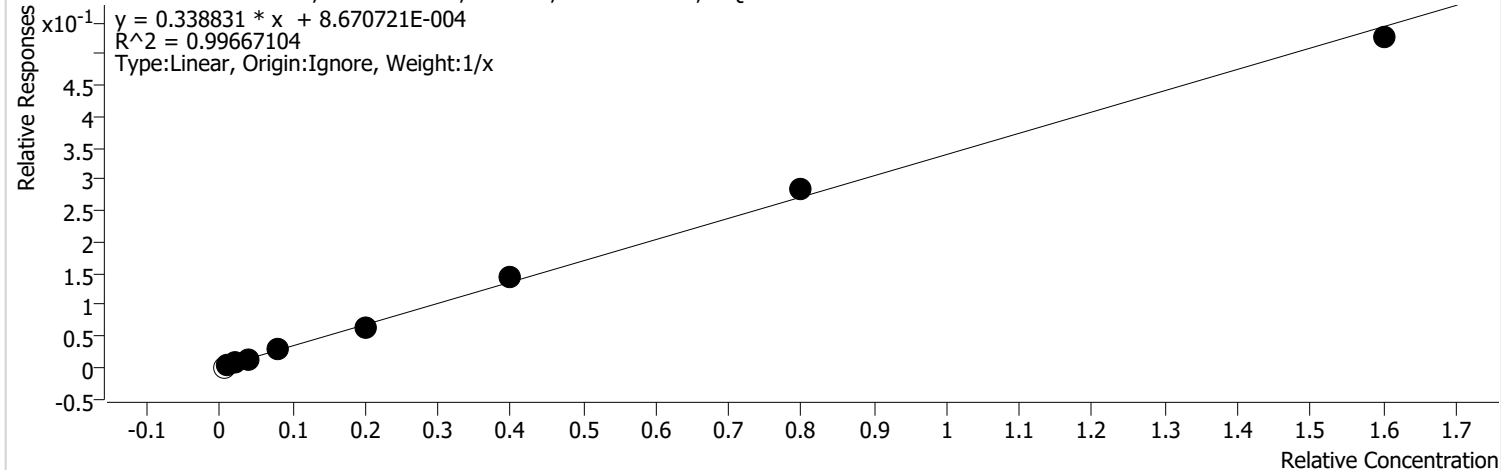
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1		3933	0.1000	0.7134	
D:\GC-19\Data\091823A\091822.D	Calibration	2		7596	0.2000	0.6795	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	31127	0.5000	1.0930	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	34019	1.0000	0.5936	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	75256	2.0000	0.6537	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	181038	5.0000	0.6461	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	417504	10.0000	0.7259	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	852923	20.0000	0.6994	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	1769961	40.0000	0.6497	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:53 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Hexachlorobutadiene %RSE = 16.0

Hexachlorobutadiene - 9 Levels, 8 Levels Used, 9 Points, 8 Points Used, 0 QCs



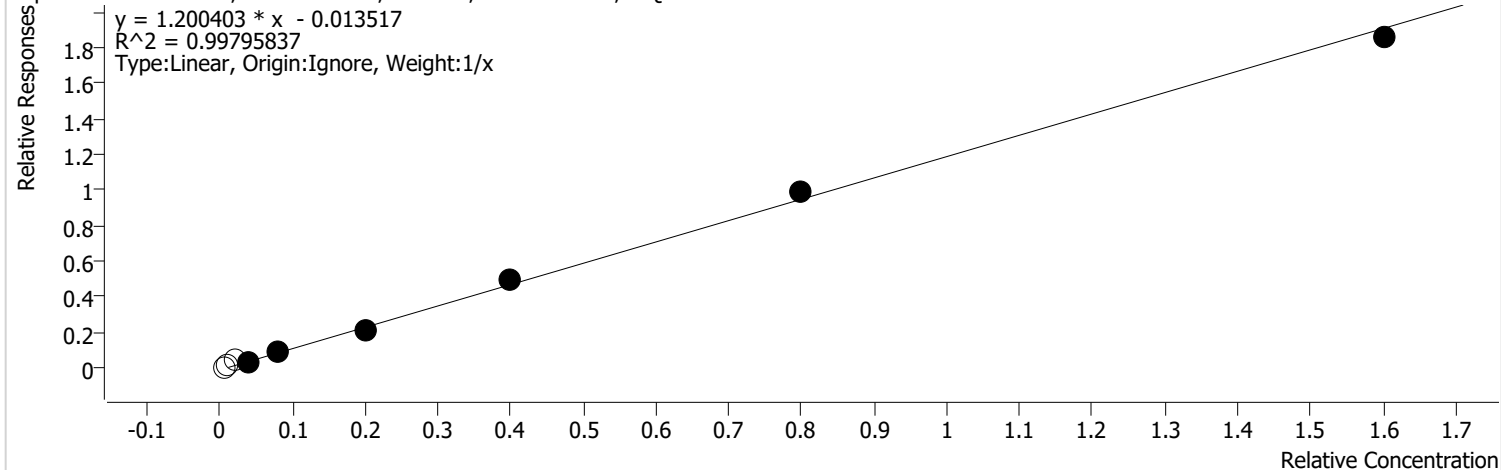
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1		1932	0.1000	0.3505	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	4317	0.2000	0.3861	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	13702	0.5000	0.4811	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	17832	1.0000	0.3111	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	41459	2.0000	0.3601	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	88673	5.0000	0.3165	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	208189	10.0000	0.3620	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	436192	20.0000	0.3577	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	894615	40.0000	0.3284	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:53 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Naphthalene %RSE = 5.1

Naphthalene - 9 Levels, 6 Levels Used, 9 Points, 6 Points Used, 0 QCs

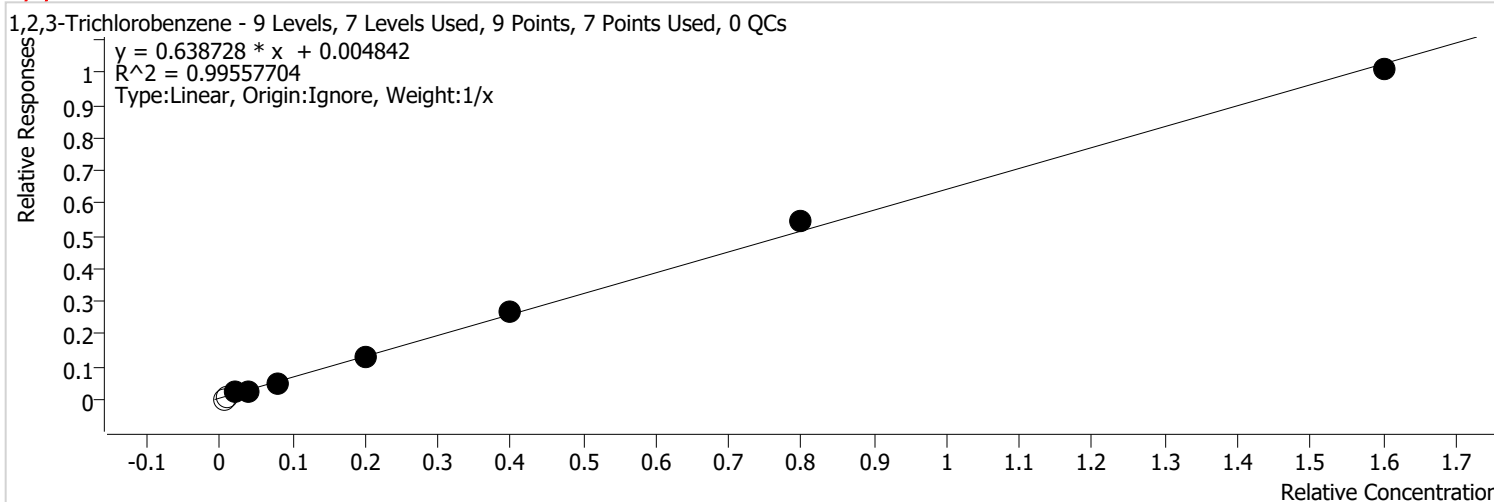


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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D:\GC-19\Data\091823A\091904.D	Calibration	3		58783	0.5000	2.0642	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	48656	1.0000	0.8490	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	118887	2.0000	1.0326	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	295966	5.0000	1.0563	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	712721	10.0000	1.2392	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	1503110	20.0000	1.2326	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	3157981	40.0000	1.1591	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:53 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,2,3-Trichlorobenzene %RSE = 23.4



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1		3388	0.1000	0.6145	
D:\GC-19\Data\091823A\091822.D	Calibration	2		6461	0.2000	0.5779	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	32574	0.5000	1.1438	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	33300	1.0000	0.5810	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	70038	2.0000	0.6083	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	176828	5.0000	0.6311	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	383221	10.0000	0.6663	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	828270	20.0000	0.6792	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	1717477	40.0000	0.6304	

VOC Water Calibration



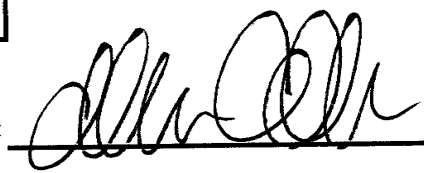
Date: 9/18/23
 Analyst: CC
 Instrument: GC-19

Cal	ICV
8260 Standard: <u>28912</u>	8260 Standard: <u>28919</u>

IS/Surrogate 28947

Cal Level	Spike Conc. (ppb)	Intermediate Spike (µL)	Cal 8260 Spike (µL)	ICV 8260 Spike (µL)	Final Vol. (mL)	Comments
1	0.1	25.00	--	--	50	
2	0.2	50.00	--	--	50	
3	0.5	125.00	--	--	50	
4	1	--	2.50	--	50	
5	2	--	5.00	--	50	
6	5	--	12.50	--	50	
7	10	--	25.00	--	50	
8	20	--	50.00	--	50	
9	40	--	100.00	--	50	
	ICV (20 ppb)	--	--	50.00	50	

	8260 Cal (µL)	P&T MeOH (µL)	Final Volume (mL)
Intermediate	10	990	1

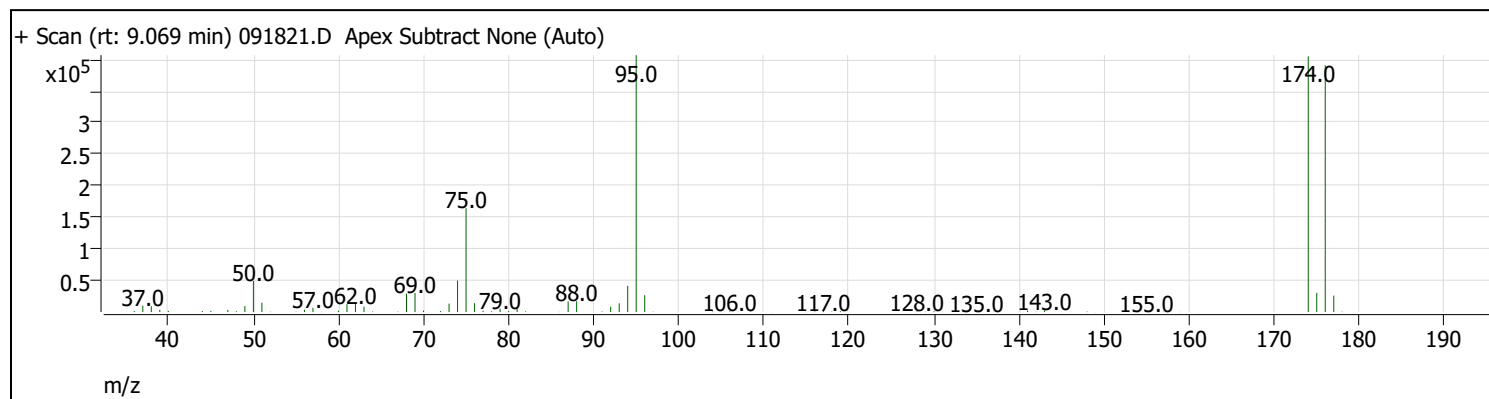
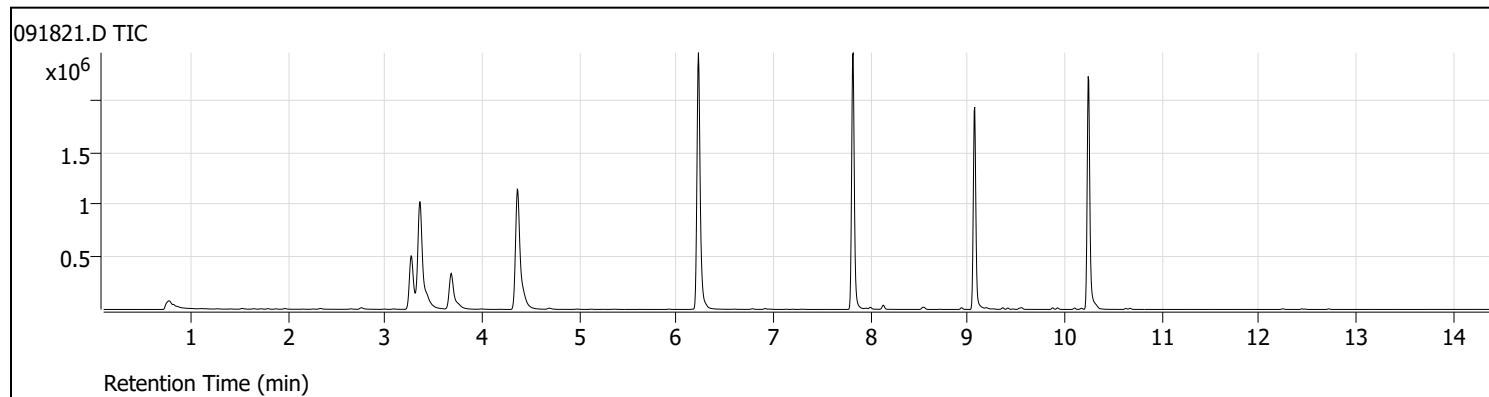
Signature and Date:  9/18/23



Tunes

Tune Evaluation Report

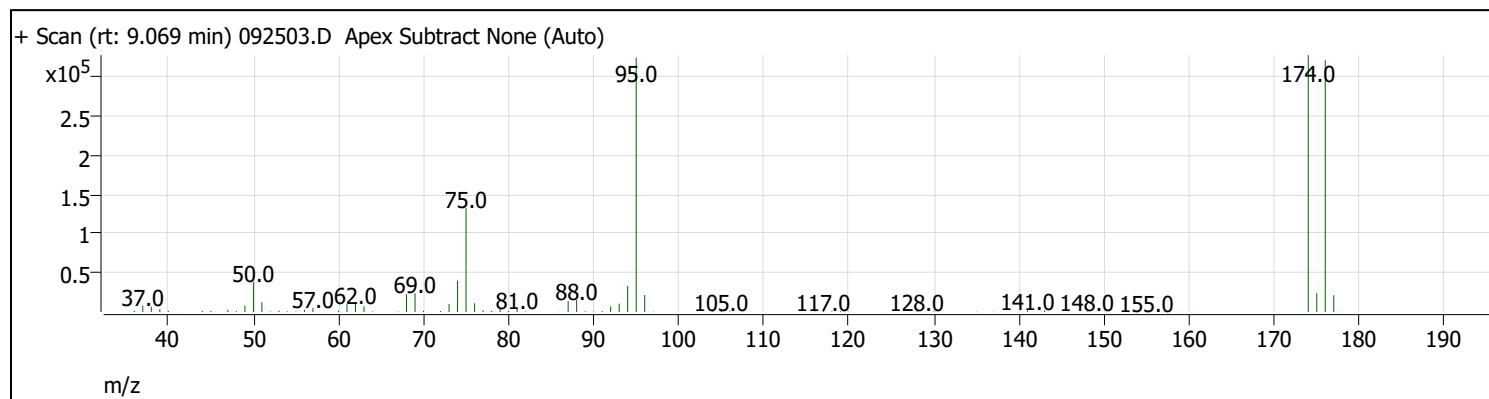
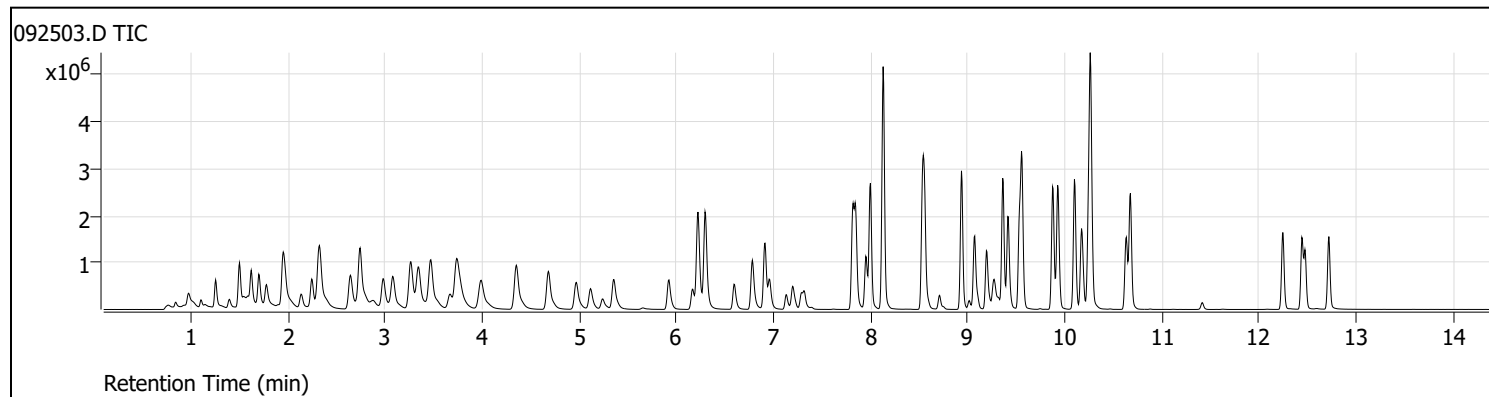
Data Path: D:\GC-19\Data\091823A\091821.D
 Acq on: 9/18/2023 10:08:06 PM
 Operator: FA\GC19
 Sample: VOC W CAL 1
 Inst Name: GC19
 ALS Vial: 9
 Method: D:\MassHunter\Methods\Quant\BFB2021.m



Target Mass	Rel. To Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Pass/Fail
95	174	50	200	100.5	406627	Pass
96	95	5	9	6.6	26795	Pass
173	174	0	2	0.0	0	Pass
174	95	50	200	99.5	404666	Pass
175	174	5	9	7.5	30536	Pass
176	174	95	105	96.5	390580	Pass
177	176	5	10	6.7	26095	Pass

Tune Evaluation Report

Data Path: D:\GC-19\Data\092523\092503.D
 Acq on: 9/25/2023 9:28:25 AM
 Operator: FA\GC19
 Sample: VOC S CCV A
 Inst Name: GC19
 ALS Vial: 2
 Method: D:\MassHunter\Methods\Quant\BFB2021.m



Target Mass	Rel. To Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Pass/Fail
95	174	50	200	99.1	324970	Pass
96	95	5	9	6.8	21978	Pass
173	174	0	2	0.0	0	Pass
174	95	50	200	100.9	328051	Pass
175	174	5	9	7.4	24233	Pass
176	174	95	105	98.0	321567	Pass
177	176	5	10	6.7	21583	Pass



Internal Standards

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-19 230925H CCV Name: VOC W 86634
 Run No: 86720 CCV SeqNo: 1809361
 Lab File ID (Standard): 091828.D Date Analyzed: 9/19/2023
 Instrument ID: GC-19 Time Analyzed: 1:39
 GC Column: ID (mm): Length (M):

	IS1 FBZ AREA #	RT #	IS2 (CBZ) AREA #	RT #	IS3 (14DCBZ) AREA #	RT #		
12 HOUR STD	1505342	3.360	1823495	7.821	1524380	10.244		
UPPER LIMIT	3010684	3.860	3646990	8.321	3048760	10.744		
LOWER LIMIT	752671	2.860	911748	7.321	762190	9.744		
SAMPLE NO.								
01 CCV-41565A	1.24113e+006	3.343	1.76664e+006	7.816	1.54392e+006	10.249		

IS1 FBZ = Fluorobenzene

IS3 (14DCBZ) = 1,4-Dichlorobenzene-d4

IS2 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-19 230925H CCV Name: CCV-41565A
 Run No: 86720 CCV SeqNo: 1809321
 Lab File ID (Standard): 092503.D Date Analyzed: 9/25/2023
 Instrument ID: GC-19 Time Analyzed: 9:28
 GC Column: ID (mm): Length (M):

	IS1 FBZ AREA #	RT #	IS2 (CBZ) AREA #	RT #	IS3 (14DCBZ) AREA #	RT #		
12 HOUR STD	1241131	3.343	1766640	7.816	1543916	10.249		
UPPER LIMIT	2482262	3.843	3533280	8.316	3087832	10.749		
LOWER LIMIT	620566	2.843	883320	7.316	771958	9.749		
SAMPLE NO.								
01 LCS-41565	1.24113e+006	3.343	1.76664e+006	7.816	1.54392e+006	10.249		
02 1122 TETRA TEST	1.22772e+006	3.359	1.74774e+006	7.821	1.27365e+006	10.244		
03 MB-41565	1.22636e+006	3.344	1.7348e+006	7.816	1.29032e+006	10.254		
04 2309261-001B	1.24828e+006	3.343	1.80345e+006	7.816	1.36813e+006	10.249		
05 2309261-001BDUP	1.24463e+006	3.344	1.756e+006	7.816	1.32509e+006	10.249		
06 2309343-001B	1.22145e+006	3.344	1.7482e+006	7.816	1.33844e+006	10.249		
07 2309343-002B	1.21864e+006	3.344	1.74634e+006	7.816	1.30045e+006	10.249		
08 2309343-003B	1.21014e+006	3.344	1.70968e+006	7.816	1.25529e+006	10.249		
09 2309343-004B	1.21461e+006	3.344	1.72368e+006	7.816	1.28775e+006	10.249		
10 2309343-001BMS	1.19522e+006	3.344	1.65562e+006	7.816	1.44828e+006	10.249		
11 2309364-001B	1.18708e+006	3.344	1.78021e+006	7.816	1.35885e+006	10.249		

IS1 FBZ = Fluorobenzene

IS3 (14DCBZ) = 1,4-Dichlorobenzene-d4

IS2 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.



3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

GeoEngineers

Robert Trahan
2101 4th Ave, Suite 950
Seattle, WA 98121

RE: 701 South Jackson
Work Order Number: 2309364

September 29, 2023

Attention Robert Trahan:

Fremont Analytical, Inc. received 2 sample(s) on 9/25/2023 for the analyses presented in the following report.

Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.
Gasoline by NWTPH-Gx
Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)
Sample Moisture (Percent Moisture)
Volatile Organic Compounds by EPA Method 8260D

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager

DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.3 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910

Revision v1

www.fremontanalytical.com

CLIENT: GeoEngineers
Project: 701 South Jackson
Work Order: 2309364

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2309364-001	R3-B14-77.5	09/25/2023 12:30 PM	09/25/2023 1:07 PM
2309364-002	R3-B9-77.5	09/25/2023 12:35 PM	09/25/2023 1:07 PM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: GeoEngineers
Project: 701 South Jackson

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

9/29/2023: Revision 1 includes additional analysis per client request.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Analytical Report

Work Order: 2309364
Date Reported: 9/29/2023

Client: GeoEngineers

Collection Date: 9/25/2023 12:30:00 PM

Project: 701 South Jackson

Lab ID: 2309364-001

Matrix: Soil

Client Sample ID: R3-B14-77.5

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Batch ID: 41612 Analyst: AP

Diesel Range Organics	ND	62.6		mg/Kg-dry	1	9/28/2023 5:54:28 PM
Heavy Oil	ND	125		mg/Kg-dry	1	9/28/2023 5:54:28 PM
Total Petroleum Hydrocarbons	ND	188		mg/Kg-dry	1	9/28/2023 5:54:28 PM
Surr: 2-Fluorobiphenyl	51.8	50 - 150		%Rec	1	9/28/2023 5:54:28 PM
Surr: o-Terphenyl	60.2	50 - 150		%Rec	1	9/28/2023 5:54:28 PM

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Batch ID: 41611 Analyst: SK

Naphthalene	ND	0.0241		mg/Kg-dry	1	9/28/2023 5:25:57 PM
2-Methylnaphthalene	ND	0.0241		mg/Kg-dry	1	9/28/2023 5:25:57 PM
1-Methylnaphthalene	ND	0.0241		mg/Kg-dry	1	9/28/2023 5:25:57 PM
Surr: 2-Fluorobiphenyl	103	22.2 - 146		%Rec	1	9/28/2023 5:25:57 PM
Surr: Terphenyl-d14 (surr)	93.0	20.2 - 159		%Rec	1	9/28/2023 5:25:57 PM

Gasoline by NWTPH-Gx

Batch ID: 41565 Analyst: CC

Gasoline Range Organics	ND	6.21		mg/Kg-dry	1	9/25/2023 6:27:38 PM
Surr: Toluene-d8	92.8	65 - 135		%Rec	1	9/25/2023 6:27:38 PM
Surr: 4-Bromofluorobenzene	99.6	65 - 135		%Rec	1	9/25/2023 6:27:38 PM

Volatile Organic Compounds by EPA Method 8260D

Batch ID: 41565 Analyst: CC

Benzene	ND	0.0217		mg/Kg-dry	1	9/25/2023 6:27:38 PM
Toluene	ND	0.0373		mg/Kg-dry	1	9/25/2023 6:27:38 PM
Ethylbenzene	ND	0.0310		mg/Kg-dry	1	9/25/2023 6:27:38 PM
m,p-Xylene	ND	0.0621		mg/Kg-dry	1	9/25/2023 6:27:38 PM
o-Xylene	ND	0.0310		mg/Kg-dry	1	9/25/2023 6:27:38 PM
Surr: Dibromofluoromethane	106	74.2 - 129		%Rec	1	9/25/2023 6:27:38 PM
Surr: Toluene-d8	112	72 - 135		%Rec	1	9/25/2023 6:27:38 PM
Surr: 1-Bromo-4-fluorobenzene	98.9	51 - 150		%Rec	1	9/25/2023 6:27:38 PM

Sample Moisture (Percent Moisture)

Batch ID: R86729 Analyst: BS

Percent Moisture	22.5	0.500		wt%	1	9/26/2023 9:25:19 AM
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Work Order: 2309364
CLIENT: GeoEngineers
Project: 701 South Jackson

QC SUMMARY REPORT
Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Sample ID: HO ICV		SampType: ICV		Units: mg/Kg		Prep Date: 7/27/2023		RunNo: 85547			
Client ID: ICV		Batch ID: 41612				Analysis Date: 7/27/2023		SeqNo: 1784893			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Heavy Oil	515	100	500.0	0	103	70	130				
Surr: 2-Fluorobiphenyl	10.5		10.00		105	50	150				
Surr: o-Terphenyl	10.8		10.00		108	50	150				

Sample ID: HO ICB		SampType: ICB		Units: mg/Kg		Prep Date: 7/27/2023		RunNo: 85547			
Client ID: ICB		Batch ID: 41612				Analysis Date: 7/27/2023		SeqNo: 1784901			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Heavy Oil	ND	100									
Surr: 2-Fluorobiphenyl	9.91		10.00		99.1	50	150				
Surr: o-Terphenyl	9.84		10.00		98.4	50	150				

Sample ID: DX ICB		SampType: ICB		Units: mg/Kg		Prep Date: 7/27/2023		RunNo: 85547			
Client ID: ICB		Batch ID: 41612				Analysis Date: 7/27/2023		SeqNo: 1784903			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics	ND	50.0									
Surr: 2-Fluorobiphenyl	10.0		10.00		100	50	150				
Surr: o-Terphenyl	10.0		10.00		100	50	150				

Sample ID: DX ICV		SampType: ICV		Units: mg/Kg		Prep Date: 7/27/2023		RunNo: 85547			
Client ID: ICV		Batch ID: 41612				Analysis Date: 7/27/2023		SeqNo: 1784904			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics	479	50.0	500.0	0	95.8	70	130				
Surr: 2-Fluorobiphenyl	10.5		10.00		105	50	150				
Surr: o-Terphenyl	11.0		10.00		110	50	150				

Work Order: 2309364
CLIENT: GeoEngineers
Project: 701 South Jackson

QC SUMMARY REPORT

Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Sample ID: OIL-CCV-41612A		SampType: CCV		Units: mg/Kg		Prep Date: 9/28/2023		RunNo: 86819			
Client ID: CCV		Batch ID: 41612				Analysis Date: 9/28/2023		SeqNo: 1811747			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Heavy Oil	501	100	500.0	0	100	85	115				
Surr: 2-Fluorobiphenyl	8.49		10.00		84.9	50	150				
Surr: o-Terphenyl	8.69		10.00		86.9	50	150				

Sample ID: DX-CCV-41612A		SampType: CCV		Units: mg/Kg		Prep Date: 9/28/2023		RunNo: 86819			
Client ID: CCV		Batch ID: 41612				Analysis Date: 9/28/2023		SeqNo: 1811748			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics	471	50.0	500.0	0	94.1	85	115				
Surr: 2-Fluorobiphenyl	9.40		10.00		94.0	50	150				
Surr: o-Terphenyl	10.5		10.00		105	50	150				

Sample ID: MB-41612		SampType: MBLK		Units: mg/Kg		Prep Date: 9/28/2023		RunNo: 86819			
Client ID: MBLKS		Batch ID: 41612				Analysis Date: 9/28/2023		SeqNo: 1811749			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics	ND	50.0									
Heavy Oil	ND	100									
Total Petroleum Hydrocarbons	ND	150									
Surr: 2-Fluorobiphenyl	10.0		10.00		100	50	150				
Surr: o-Terphenyl	9.22		10.00		92.2	50	150				

Sample ID: LCS-41612		SampType: LCS		Units: mg/Kg		Prep Date: 9/28/2023		RunNo: 86819			
Client ID: LCSS		Batch ID: 41612				Analysis Date: 9/28/2023		SeqNo: 1811750			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Petroleum Hydrocarbons	470	150	500.0	0	93.9	78.5	123				
Surr: 2-Fluorobiphenyl	9.87		10.00		98.7	50	150				
Surr: o-Terphenyl	12.2		10.00		122	50	150				

Work Order: 2309364
CLIENT: GeoEngineers
Project: 701 South Jackson

QC SUMMARY REPORT

Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Sample ID: LCSD-41612		SampType: LCSD		Units: mg/Kg		Prep Date: 9/28/2023		RunNo: 86819			
Client ID: LCSS02		Batch ID: 41612				Analysis Date: 9/28/2023		SeqNo: 1811751			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Petroleum Hydrocarbons	478	150	500.0	0	95.7	78.5	123	469.7	1.83	30	
Surr: 2-Fluorobiphenyl	10.1		10.00		101	50	150		0		
Surr: o-Terphenyl	12.0		10.00		120	50	150		0		

Sample ID: 2309466-001ADUP		SampType: DUP		Units: mg/Kg-dry		Prep Date: 9/28/2023		RunNo: 86819			
Client ID: BATCH		Batch ID: 41612				Analysis Date: 9/28/2023		SeqNo: 1811753			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics	ND	60.9						0		30	
Heavy Oil	ND	122						0		30	
Total Petroleum Hydrocarbons	ND	183						0		30	
Surr: 2-Fluorobiphenyl	11.7		12.18		95.7	50	150		0		
Surr: o-Terphenyl	10.7		12.18		88.2	50	150		0		

Sample ID: OIL-CCV-41612B		SampType: CCV		Units: mg/Kg		Prep Date: 9/28/2023		RunNo: 86819			
Client ID: CCV		Batch ID: 41612				Analysis Date: 9/28/2023		SeqNo: 1811754			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Heavy Oil	497	100	500.0	0	99.3	85	115				
Surr: 2-Fluorobiphenyl	8.48		10.00		84.8	50	150				
Surr: o-Terphenyl	8.69		10.00		86.9	50	150				

Sample ID: DX-CCV-41612B		SampType: CCV		Units: mg/Kg		Prep Date: 9/28/2023		RunNo: 86819			
Client ID: CCV		Batch ID: 41612				Analysis Date: 9/28/2023		SeqNo: 1811755			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics	480	50.0	500.0	0	96.0	85	115				
Surr: 2-Fluorobiphenyl	9.00		10.00		90.0	50	150				
Surr: o-Terphenyl	11.0		10.00		110	50	150				

Work Order: 2309364
CLIENT: GeoEngineers
Project: 701 South Jackson

QC SUMMARY REPORT

Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Sample ID: 2309446-001AMS		SampType: MS		Units: mg/Kg-dry		Prep Date: 9/28/2023		RunNo: 86819			
Client ID: BATCH		Batch ID: 41612				Analysis Date: 9/28/2023		SeqNo: 1812109			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Petroleum Hydrocarbons	442	150	498.9	0	88.5	47.9	143				
Surr: 2-Fluorobiphenyl	7.80		9.978		78.2	50	150				
Surr: o-Terphenyl	9.91		9.978		99.3	50	150				

Sample ID: 2309446-001AMSD		SampType: MSD		Units: mg/Kg-dry		Prep Date: 9/28/2023		RunNo: 86819			
Client ID: BATCH		Batch ID: 41612				Analysis Date: 9/28/2023		SeqNo: 1812110			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Petroleum Hydrocarbons	533	150	498.9	0	107	47.9	143	441.5	18.8	30	
Surr: 2-Fluorobiphenyl	10.1		9.978		101	50	150		0		
Surr: o-Terphenyl	11.6		9.978		117	50	150		0		

Sample ID: OIL-CCV-41612C		SampType: CCV		Units: mg/Kg		Prep Date: 9/28/2023		RunNo: 86819			
Client ID: CCV		Batch ID: 41612				Analysis Date: 9/28/2023		SeqNo: 1812112			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Heavy Oil	500	100	500.0	0	100	85	115				
Surr: 2-Fluorobiphenyl	8.47		10.00		84.7	50	150				
Surr: o-Terphenyl	8.92		10.00		89.2	50	150				

Sample ID: DX-CCV-41612C		SampType: CCV		Units: mg/Kg		Prep Date: 9/28/2023		RunNo: 86819			
Client ID: CCV		Batch ID: 41612				Analysis Date: 9/28/2023		SeqNo: 1812113			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics	485	50.0	500.0	0	96.9	85	115				
Surr: 2-Fluorobiphenyl	9.43		10.00		94.3	50	150				
Surr: o-Terphenyl	11.1		10.00		111	50	150				

Work Order: 2309364
CLIENT: GeoEngineers
Project: 701 South Jackson

QC SUMMARY REPORT

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Sample ID: CAL MIDPOINT	SampType: CCV	Units: µg/L				Prep Date: 9/27/2023	RunNo: 86811				
Client ID: CCV	Batch ID: 41611					Analysis Date: 9/27/2023	SeqNo: 1811647				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	1,070	0.0200	1,000	0	107	80	120				
2-Methylnaphthalene	1,060	0.0200	1,000	0	106	80	120				
1-Methylnaphthalene	1,050	0.0200	1,000	0	105	80	120				
Surr: 2-Fluorobiphenyl	519		500.0		104	69.5	150				
Surr: Terphenyl-d14 (surr)	509		500.0		102	71.6	145				

Sample ID: PAH ICB	SampType: ICB	Units: µg/L				Prep Date: 9/27/2023	RunNo: 86800				
Client ID: ICB	Batch ID: 41611					Analysis Date: 9/27/2023	SeqNo: 1811357				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	ND	20.0									
2-Methylnaphthalene	ND	20.0									
1-Methylnaphthalene	ND	20.0									
Surr: 2-Fluorobiphenyl	519		500.0		104	50.4	142				
Surr: Terphenyl-d14 (surr)	505		500.0		101	48.8	157				

Sample ID: PAH ICV	SampType: ICV	Units: µg/L				Prep Date: 9/28/2023	RunNo: 86800				
Client ID: ICV	Batch ID: 41611					Analysis Date: 9/28/2023	SeqNo: 1811358				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	953	20.0	1,000	0	95.3	70	130				
2-Methylnaphthalene	936	20.0	1,000	0	93.6	70	130				
1-Methylnaphthalene	935	20.0	1,000	0	93.5	70	130				
Surr: 2-Fluorobiphenyl	470		500.0		94.0	60.9	160				
Surr: Terphenyl-d14 (surr)	462		500.0		92.4	62.2	159				

Work Order: 2309364
CLIENT: GeoEngineers
Project: 701 South Jackson

QC SUMMARY REPORT

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Sample ID: CCV-41611	SampType: CCV	Units: µg/L			Prep Date: 9/28/2023	RunNo: 86811					
Client ID: CCV	Batch ID: 41611				Analysis Date: 9/28/2023	SeqNo: 1811547					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	953	0.0200	1,000	0	95.3	80	120				
2-Methylnaphthalene	936	0.0200	1,000	0	93.6	80	120				
1-Methylnaphthalene	935	0.0200	1,000	0	93.5	80	120				
Surr: 2-Fluorobiphenyl	470		500.0		94.0	69.5	150				
Surr: Terphenyl-d14 (surr)	462		500.0		92.4	71.6	145				

Sample ID: MB-41611	SampType: MBLK	Units: mg/Kg			Prep Date: 9/28/2023	RunNo: 86811					
Client ID: MBLKS	Batch ID: 41611				Analysis Date: 9/28/2023	SeqNo: 1811548					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	ND	0.0200									
2-Methylnaphthalene	ND	0.0200									
1-Methylnaphthalene	ND	0.0200									
Surr: 2,4,6-Tribromophenol	0.751		2.000		37.6	27	142				
Surr: 2-Fluorobiphenyl	1.06		1.000		106	22.2	146				
Surr: Terphenyl-d14 (surr)	1.03		1.000		103	20.2	159				

Sample ID: LCS-41611	SampType: LCS	Units: mg/Kg			Prep Date: 9/28/2023	RunNo: 86811					
Client ID: LCSS	Batch ID: 41611				Analysis Date: 9/28/2023	SeqNo: 1811550					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	1.91	0.0200	2.000	0	95.4	63.8	120				
2-Methylnaphthalene	1.92	0.0200	2.000	0	95.9	57	118				
1-Methylnaphthalene	1.89	0.0200	2.000	0	94.5	56.6	119				
Surr: 2,4,6-Tribromophenol	1.78		2.000		88.9	27	142				
Surr: 2-Fluorobiphenyl	0.997		1.000		99.7	22.2	146				
Surr: Terphenyl-d14 (surr)	0.953		1.000		95.3	20.2	159				

Work Order: 2309364
CLIENT: GeoEngineers
Project: 701 South Jackson

QC SUMMARY REPORT

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Sample ID: 2309466-001AMS	SampType: MS	Units: mg/Kg-dry	Prep Date: 9/28/2023	RunNo: 86811							
Client ID: BATCH	Batch ID: 41611	Analysis Date: 9/28/2023	SeqNo: 1811648								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	2.54	0.0236	2.365	0	107	44.9	136				
2-Methylnaphthalene	2.51	0.0236	2.365	0	106	39.2	132				
1-Methylnaphthalene	2.51	0.0236	2.365	0	106	40.9	133				
Surr: 2,4,6-Tribromophenol	2.35		2.365		99.3	27	142				
Surr: 2-Fluorobiphenyl	1.33		1.182		113	22.2	146				
Surr: Terphenyl-d14 (surr)	1.22		1.182		103	20.2	159				

Sample ID: 2309466-001AMSD	SampType: MSD	Units: mg/Kg-dry	Prep Date: 9/28/2023	RunNo: 86811							
Client ID: BATCH	Batch ID: 41611	Analysis Date: 9/28/2023	SeqNo: 1811649								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	2.72	0.0236	2.365	0	115	44.9	136	2.540	6.84	30	
2-Methylnaphthalene	2.72	0.0236	2.365	0	115	39.2	132	2.510	8.10	30	
1-Methylnaphthalene	2.70	0.0236	2.365	0	114	40.9	133	2.508	7.43	30	
Surr: 2,4,6-Tribromophenol	2.49		2.365		105	27	142		0		
Surr: 2-Fluorobiphenyl	1.39		1.182		118	22.2	146		0		
Surr: Terphenyl-d14 (surr)	1.30		1.182		110	20.2	159		0		

Work Order: 2309364
CLIENT: GeoEngineers
Project: 701 South Jackson

QC SUMMARY REPORT

Gasoline by NWTPH-Gx

Sample ID: GX ICB		SampType: ICB		Units: µg/L		Prep Date: 9/20/2023		RunNo: 86636			
Client ID: ICB		Batch ID: 41565				Analysis Date: 9/20/2023		SeqNo: 1807574			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	ND	50.0									
Surr: Toluene-d8	25.0		25.00		99.9	65	135				
Surr: 4-Bromofluorobenzene	24.5		25.00		98.2	65	135				

Sample ID: GX ICV		SampType: ICV		Units: µg/L		Prep Date: 9/20/2023		RunNo: 86636			
Client ID: ICV		Batch ID: 41565				Analysis Date: 9/20/2023		SeqNo: 1807575			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	488	50.0	500.0	0	97.5	80	120				
Surr: Toluene-d8	25.3		25.00		101	65	135				
Surr: 4-Bromofluorobenzene	25.2		25.00		101	65	135				

Sample ID: CCV-41565A		SampType: CCV		Units: mg/Kg		Prep Date: 9/25/2023		RunNo: 86721			
Client ID: CCV		Batch ID: 41565				Analysis Date: 9/25/2023		SeqNo: 1809416			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	473	5.00	500.0	0	94.7	80	120				
Surr: Toluene-d8	23.6		25.00		94.4	65	135				
Surr: 4-Bromofluorobenzene	25.4		25.00		102	65	135				

Sample ID: LCS-41565		SampType: LCS		Units: mg/Kg		Prep Date: 9/25/2023		RunNo: 86721			
Client ID: LCSS		Batch ID: 41565				Analysis Date: 9/25/2023		SeqNo: 1809419			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	23.7	5.00	25.00	0	94.7	65	135				
Surr: Toluene-d8	1.18		1.250		94.4	65	135				
Surr: 4-Bromofluorobenzene	1.27		1.250		102	65	135				

Work Order: 2309364
CLIENT: GeoEngineers
Project: 701 South Jackson

QC SUMMARY REPORT

Gasoline by NWTPH-Gx

Sample ID: MB-41565	SampType: MBLK	Units: mg/Kg	Prep Date: 9/25/2023	RunNo: 86721							
Client ID: MBLKS	Batch ID: 41565		Analysis Date: 9/25/2023	SeqNo: 1809418							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline Range Organics	ND	5.00									
Surr: Toluene-d8	1.20		1.250		96.4	65	135				
Surr: 4-Bromofluorobenzene	1.22		1.250		97.6	65	135				

Sample ID: 2309261-001BDUP	SampType: DUP	Units: mg/Kg-dry	Prep Date: 9/25/2023	RunNo: 86721							
Client ID: BATCH	Batch ID: 41565		Analysis Date: 9/25/2023	SeqNo: 1809410							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline Range Organics	ND	5.09						0		30	
Surr: Toluene-d8	1.22		1.272		95.6	65	135		0		
Surr: 4-Bromofluorobenzene	1.26		1.272		98.7	65	135		0		

Sample ID: 2309343-002BMS	SampType: MS	Units: mg/Kg-dry	Prep Date: 9/25/2023	RunNo: 86721							
Client ID: BATCH	Batch ID: 41565		Analysis Date: 9/25/2023	SeqNo: 1809413							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline Range Organics	32.2	4.90	28.49	0	113	65	135				
Surr: Toluene-d8	1.18		1.225		96.7	65	135				
Surr: 4-Bromofluorobenzene	1.24		1.225		101	65	135				

Sample ID: CCV-41565B	SampType: CCV	Units: mg/Kg	Prep Date: 9/25/2023	RunNo: 86721							
Client ID: CCV	Batch ID: 41565		Analysis Date: 9/25/2023	SeqNo: 1809417							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline Range Organics	452	5.00	500.0	0	90.4	80	120				
Surr: Toluene-d8	24.0		25.00		96.2	65	135				
Surr: 4-Bromofluorobenzene	25.3		25.00		101	65	135				

Work Order: 2309364
CLIENT: GeoEngineers
Project: 701 South Jackson

QC SUMMARY REPORT
Gasoline by NWTPH-Gx

Sample ID: CCV-41565C	SampType: CCV	Units: mg/Kg	Prep Date: 9/26/2023	RunNo: 86721							
Client ID: CCV	Batch ID: 41565		Analysis Date: 9/26/2023	SeqNo: 1809440							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline Range Organics	428	5.00	500.0	0	85.7	80	120				
Surr: Toluene-d8	23.5		25.00		93.8	65	135				
Surr: 4-Bromofluorobenzene	25.3		25.00		101	65	135				

Work Order: 2309364
CLIENT: GeoEngineers
Project: 701 South Jackson

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: VOC W ICB		SampType: ICB		Units: µg/L		Prep Date: 9/19/2023		RunNo: 86634			
Client ID: ICB		Batch ID: 41565				Analysis Date: 9/19/2023		SeqNo: 1807720			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.440									
Toluene	ND	1.00									
Ethylbenzene	ND	0.400									
m,p-Xylene	ND	1.00									
o-Xylene	ND	0.500									
Surr: Dibromofluoromethane	24.4		25.00		97.6	80	120				
Surr: Toluene-d8	25.1		25.00		100	80	120				
Surr: 1-Bromo-4-fluorobenzene	24.5		25.00		98.0	80	120				

Sample ID: VOC W ICV		SampType: ICV		Units: µg/L		Prep Date: 9/19/2023		RunNo: 86634			
Client ID: ICV		Batch ID: 41565				Analysis Date: 9/19/2023		SeqNo: 1807721			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	19.6	0.440	20.00	0	98.0	70	130				
Toluene	19.7	1.00	20.00	0	98.6	70	130				
Ethylbenzene	20.0	0.400	20.00	0	99.9	70	130				
m,p-Xylene	39.8	1.00	40.00	0	99.4	70	130				
o-Xylene	20.2	0.500	20.00	0	101	70	130				
Surr: Dibromofluoromethane	25.6		25.00		102	70	130				
Surr: Toluene-d8	24.8		25.00		99.3	70	130				
Surr: 1-Bromo-4-fluorobenzene	24.9		25.00		99.5	70	130				

Sample ID: CCV-41565A		SampType: CCV		Units: µg/L		Prep Date: 9/25/2023		RunNo: 86720			
Client ID: CCV		Batch ID: 41565				Analysis Date: 9/25/2023		SeqNo: 1809321			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	21.8	0.0175	20.00	0	109	80	120				
Toluene	21.6	0.0300	20.00	0	108	80	120				
Ethylbenzene	18.6	0.0250	20.00	0	93.0	80	120				
m,p-Xylene	36.9	0.0500	40.00	0	92.2	80	120				
o-Xylene	18.2	0.0250	20.00	0	90.9	80	120				

Work Order: 2309364
CLIENT: GeoEngineers
Project: 701 South Jackson

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260D

Sample ID: CCV-41565A		SampType: CCV		Units: µg/L		Prep Date: 9/25/2023		RunNo: 86720			
Client ID: CCV		Batch ID: 41565				Analysis Date: 9/25/2023		SeqNo: 1809321			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	27.9		25.00		112	80	120				
Surr: Toluene-d8	27.3		25.00		109	80	120				
Surr: 1-Bromo-4-fluorobenzene	24.9		25.00		99.8	80	120				

Sample ID: LCS-41565		SampType: LCS		Units: µg/L		Prep Date: 9/25/2023		RunNo: 86720			
Client ID: LCSS		Batch ID: 41565				Analysis Date: 9/25/2023		SeqNo: 1809360			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	1.09	0.0175	1.000	0	109	80	120				
Toluene	1.08	0.0300	1.000	0	108	80	120				
Ethylbenzene	0.930	0.0250	1.000	0	93.0	80	120				
m,p-Xylene	1.84	0.0500	2.000	0	92.2	80	120				
o-Xylene	0.909	0.0250	1.000	0	90.9	80	120				
Surr: Dibromofluoromethane	1.39		1.250		112	74.2	129				
Surr: Toluene-d8	1.36		1.250		109	72	135				
Surr: 1-Bromo-4-fluorobenzene	1.25		1.250		99.8	51	150				

Sample ID: MB-41565		SampType: MBLK		Units: mg/Kg		Prep Date: 9/25/2023		RunNo: 86720			
Client ID: MBLKS		Batch ID: 41565				Analysis Date: 9/25/2023		SeqNo: 1809359			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.0175									
Toluene	ND	0.0300									
Ethylbenzene	ND	0.0250									
m,p-Xylene	ND	0.0500									
o-Xylene	ND	0.0250									
Surr: Dibromofluoromethane	1.32		1.250		106	79.5	124				
Surr: Toluene-d8	1.38		1.250		110	77.5	124				
Surr: 1-Bromo-4-fluorobenzene	1.21		1.250		97.0	60.5	139				

Work Order: 2309364
CLIENT: GeoEngineers
Project: 701 South Jackson

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: 2309261-001BDUP		SampType: DUP		Units: mg/Kg-dry		Prep Date: 9/25/2023		RunNo: 86720			
Client ID: BATCH		Batch ID: 41565				Analysis Date: 9/25/2023		SeqNo: 1809353			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.0178						0		30	
Toluene	ND	0.0305						0		30	
Ethylbenzene	ND	0.0254						0		30	
m,p-Xylene	ND	0.0509						0		30	
o-Xylene	ND	0.0254						0		30	
Surr: Dibromofluoromethane	1.31		1.272		103	74.2	129		0		
Surr: Toluene-d8	1.39		1.272		109	72	135		0		
Surr: 1-Bromo-4-fluorobenzene	1.25		1.272		98.1	51	150		0		

Sample ID: 2309343-001BMS		SampType: MS		Units: mg/Kg-dry		Prep Date: 9/25/2023		RunNo: 86720			
Client ID: BATCH		Batch ID: 41565				Analysis Date: 9/25/2023		SeqNo: 1809355			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	1.26	0.0177	1.011	0	124	52.3	147				
Toluene	1.21	0.0303	1.011	0	120	50.1	147				
Ethylbenzene	1.07	0.0253	1.011	0	106	51.7	143				
m,p-Xylene	2.13	0.0506	2.022	0	105	54.5	144				
o-Xylene	1.08	0.0253	1.011	0	107	57.1	141				
Surr: Dibromofluoromethane	1.40		1.264		111	74.2	129				
Surr: Toluene-d8	1.39		1.264		110	72	135				
Surr: 1-Bromo-4-fluorobenzene	1.26		1.264		99.6	51	150				

Client Name: GEI	Work Order Number: 2309364
Logged by: Morgan Wilson	Date Received: 9/25/2023 1:07:00 PM

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
2. How was the sample delivered? Client

Log In

3. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes No Not Present
4. Was an attempt made to cool the samples? Yes No NA
5. Were all items received at a temperature of >2°C to 6°C * Unknown prior to receipt. Yes No NA
6. Sample(s) in proper container(s)? Yes No
7. Sufficient sample volume for indicated test(s)? Yes No
8. Are samples properly preserved? Yes No
9. Was preservative added to bottles? Yes No NA
10. Is there headspace in the VOA vials? Yes No NA
11. Did all samples containers arrive in good condition(unbroken)? Yes No
12. Does paperwork match bottle labels? Yes No
13. Are matrices correctly identified on Chain of Custody? Yes No
14. Is it clear what analyses were requested? Yes No
15. Were all holding times able to be met? Yes No

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text" value="Robert Trahan"/>	Date:	<input type="text" value="9/25/2023"/>
By Whom:	<input type="text" value="Lyann Rivera"/>	Via:	<input checked="" type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text" value="Confirm Analysis"/>		
Client Instructions:	<input type="text" value="Proceed with Gx/BTEX asap TAT"/>		

17. Additional remarks:

Item Information

Item #	Temp °C
Sample	14.7

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C



Fremont
Analytical

3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Chain of Custody Record & Laboratory Services Agreement

Date: 9.25.2023 Page: 1 of 1

Project Name: 701 South Jackson

Project No: 2405-001-03

Collected by: Nathan Solomon

Location: Seattle WA

Report To (PM): Robert Trautman

PM Email: RTrautman@GEONENGINEERS.COM

Laboratory Project No (Internal): 2309364

Special Remarks: HAD FOR FLOW-OR

Sample Disposal: Return to client Disposal by lab (after 30 days)

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	VOCs (EPA 8260 / 624)	GV/BTEX	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCD)	Diesel/Heavy Oil Range Organics (DHO)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8210 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T) Dissolved (D)	Anions (Cl)***	EDS (8011)	Comments
1. P3-B14-77.5	9.25.23	1230	S														
2. P3-B9-77.5	9.25.23	1235	S														A K
3.																	
4.																	
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water

**Metals (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL Individual Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Tl U V Zn

***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above and that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished Date/Time: 09.25.2023 1307

Received Date/Time: 9/25/23 1307

Relinquished Date/Time: _____

Received Date/Time: _____



Chain of Custody Record & Laboratory Services Agreement

Date: 9.25.2023 Page: 1 of 1

Project Name: 701 South Westmont

Project No: 2405-001-03

Collected by: Nathan Solomon

Location: Seattle WA

Report To (PM): Robert Trautman

PM Email: rtrautman@geoenvironmental.com

Laboratory Project No (Internal): 2309364

Special Remarks: HAD FOR FOLLOW-UP

Sample Disposal: Return to client Disposal by lab (after 30 days)

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	VOCS (EPA 8260 / 624)	GV/BTEX	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCD)	Diesel/Heavy Oil Range Organics (DHO)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8210 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T) Dissolved (D)	Anions (Cl)***	EDS (8011)	Comments
1. P3 - B14 - 77.5	9.25.23	1230	S														
2. P3 - B9 - 77.5	9.25.23	1235	S														Hold per R.T. 9/25/2023 - BB
3.																	
4.																	
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	

Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water

Metals (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL Individual Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Tl U V Zn

Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above and that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished Date/Time: 09.25.2023 1307

Received Date/Time: 9/25/23 1307

Relinquished Date/Time: _____

Received Date/Time: _____



Fremont
Analytical

3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Chain of Custody Record & Laboratory Services Agreement

Date: **9.25.2023** Page: **1** of **1**

Project Name: **701 South Jensen**

Project No: **2405-001-03**

Collected by: **Nathan Solomon**

Location: **Seattle WA**

Report To (PM): **PORCEA Trauma**

PM Email: **PRATTN@GEODENGINERS.COM**

Laboratory Project No (Internal): **2309364**

Special Remarks:
**HAD FOR FOLLOW-UP
X=run for DX & naphthalenes per RT, Next
Day TAT, 9/28/23 -09**

Sample Disposal: Return to client Disposal by lab (after 30 days)

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	VOCs (EPA 8260 / 624)	GV/BTEX	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCD)	Diesel/Heavy Oil Range Organics (DHO)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T) Dissolved (D)	Anions (Cl) ***	EDS (8011)	Comments
1. 23-B14-77.5	9.25.23	1230	S	A				X		X							
2. 23-B9-77.5	9.28.23	1235	S	K													Hold per R.T. 9/25/2023 -BB
3.																	
4.																	
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water

**Metals (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL Individual Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Tl U V Zn

***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above and that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished	Date/Time	Received	Date/Time	Turn-around Time:
<i>[Signature]</i>	09.25.2023	<i>[Signature]</i>	9/25/23	<input type="checkbox"/> Standard <input type="checkbox"/> 3 Day <input type="checkbox"/> 2 Day <input type="checkbox"/> Next Day
Relinquished	Date/Time	Received	Date/Time	Same Day
<i>[Signature]</i>	09.25.2023	<i>[Signature]</i>	9/25/23	<input type="checkbox"/> Same Day

DATA SET for Review - Deliverable Requirements

Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Fremont Analytical Work Order No. 2309364

GeoEngineers

Project Name: South Jackson Street

Project Number: 24504-001-03

This data set contains the following:

- Analytical Sequence Summary
- Calibration Information

Data Directory: D:\GC-24\Data\2023\230727FRONT\

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) 07270002.D CO	DX_220112.M	150	1.000	27 Jul 2023 10:39 am
2) 07270004.D HO 20	DX_220112.M	21	1.000	27 Jul 2023 10:50 am
3) 07270006.D HO 100	DX_220112.M	22	1.000	27 Jul 2023 11:01 am
4) 07270008.D HO 500	DX_220112.M	23	1.000	27 Jul 2023 11:12 am
5) 07270010.D HO 1000	DX_220112.M	24	1.000	27 Jul 2023 11:23 am
6) 07270012.D HO 2000	DX_220112.M	25	1.000	27 Jul 2023 11:34 am
7) 07270014.D HO 5000	DX_220112.M	26	1.000	27 Jul 2023 11:45 am
8) 07270016.D HO 10000	DX_220112.M	27	1.000	27 Jul 2023 11:56 am
9) 07270018.D CO	DX_220112.M	150	1.000	27 Jul 2023 12:07 pm
10) 07270020.D CO	DX_220112.M	150	1.000	27 Jul 2023 12:18 pm
11) 07270022.D CO	DX_220112.M	148	1.000	27 Jul 2023 12:29 pm
12) 07270024.D HO ICB	DX_220112.M	28	1.000	27 Jul 2023 12:40 pm
13) 07270026.D HO 20	DX_220112.M	21	1.000	27 Jul 2023 12:51 pm
14) 07270028.D HO ICV	DX_220112.M	29	1.000	27 Jul 2023 01:02 pm
15) 07270030.D CO	DX_220112.M	150	1.000	27 Jul 2023 01:13 pm
16) 07270032.D DX 20	DX_220112.M	11	1.000	27 Jul 2023 01:23 pm
17) 07270034.D DX 100	DX_220112.M	12	1.000	27 Jul 2023 01:34 pm
18) 07270036.D DX 500	DX_220112.M	13	1.000	27 Jul 2023 01:46 pm
19) 07270038.D DX 1000	DX_220112.M	14	1.000	27 Jul 2023 01:57 pm
20) 07270040.D DX 2000	DX_220112.M	15	1.000	27 Jul 2023 02:08 pm
21) 07270042.D DX 5000	DX_220112.M	16	1.000	27 Jul 2023 02:19 pm

22) 07270044.D DX 10000	DX_220112.M	17	1.000	27 Jul 2023	02:30 pm
23) 07270046.D HO ICB	DX_220112.M	28	1.000	27 Jul 2023	02:41 pm
24) 07270048.D HO 20	DX_220112.M	21	1.000	27 Jul 2023	02:52 pm
25) 07270050.D CO	DX_220112.M	150	1.000	27 Jul 2023	03:03 pm
26) 07270052.D CO	DX_220112.M	150	1.000	27 Jul 2023	03:14 pm
27) 07270054.D DX ICB	DX_220112.M	18	1.000	27 Jul 2023	03:25 pm
28) 07270056.D DX ICV	DX_220112.M	19	1.000	27 Jul 2023	03:42 pm
29) 07270058.D CO	DX_220112.M	150	1.000	27 Jul 2023	03:53 pm
30) 07270060.D CO	DX_220112.M	150	1.000	27 Jul 2023	04:04 pm
31) 07270062.D CO	DX_220112.M	150	1.000	27 Jul 2023	04:15 pm
32) 07270064.D CO	DX_220112.M	150	1.000	27 Jul 2023	04:26 pm
33) 07270066.D OIL-CCV	DX_220112.M	2	1.000	27 Jul 2023	04:37 pm
34) 07270068.D DX-CCV	DX_220112.M	1	1.000	27 Jul 2023	04:48 pm
35) 07270070.D CO	DX_220112.M	150	1.000	27 Jul 2023	04:59 pm
36) 07270072.D MB-40979	DX_220112.M	61	1.000	27 Jul 2023	05:10 pm
37) 07270074.D LCS-40979	DX_220112.M	62	1.000	27 Jul 2023	05:21 pm
38) 07270076.D LCSD-40979	DX_220112.M	63	1.000	27 Jul 2023	05:32 pm
39) 07270078.D Dx MDL	DX_220112.M	73	1.000	27 Jul 2023	05:43 pm
40) 07270080.D RRO MDL	DX_220112.M	74	1.000	27 Jul 2023	05:54 pm
41) 07270082.D CO	DX_220112.M	150	1.000	27 Jul 2023	06:05 pm
42) 07270084.D CO	DX_220112.M	150	1.000	27 Jul 2023	06:16 pm
43) 07270086.D OIL-CCV	DX_220112.M	2	1.000	27 Jul 2023	06:27 pm
44) 07270088.D DX-CCV	DX_220112.M	1	1.000	27 Jul 2023	06:38 pm
45) 07270090.D	DX_220112.M				

CO			150	1.000	27 Jul 2023	06:49	pm
46)	07270092.D MB-41004	DX_220112.M	111	1.000	27 Jul 2023	07:00	pm
47)	07270094.D LCS-41004	DX_220112.M	112	1.000	27 Jul 2023	07:11	pm
48)	07270096.D 2307262-001B	DX_220112.M	113	1.000	27 Jul 2023	07:22	pm
49)	07270098.D 2307262-002B	DX_220112.M	114	1.000	27 Jul 2023	07:33	pm
50)	07270100.D 2307262-003B	DX_220112.M	115	1.000	27 Jul 2023	07:44	pm
51)	07270102.D 2307262-004B	DX_220112.M	116	1.000	27 Jul 2023	07:55	pm
52)	07270104.D 2307262-005B	DX_220112.M	117	1.000	27 Jul 2023	08:06	pm
53)	07270106.D 2307262-006B	DX_220112.M	118	1.000	27 Jul 2023	08:17	pm
54)	07270108.D 2307262-007B	DX_220112.M	119	1.000	27 Jul 2023	08:28	pm
55)	07270110.D 2307262-007BDUP	DX_220112.M	120	1.000	27 Jul 2023	08:39	pm
56)	07270112.D CO	DX_220112.M	150	1.000	27 Jul 2023	08:50	pm
57)	07270114.D OIL-CCV	DX_220112.M	2	1.000	27 Jul 2023	09:01	pm
58)	07270116.D DX-CCV	DX_220112.M	1	1.000	27 Jul 2023	09:12	pm
59)	07270118.D CO	DX_220112.M	150	1.000	27 Jul 2023	09:23	pm
60)	07270120.D 2307262-008B	DX_220112.M	121	1.000	27 Jul 2023	09:34	pm
61)	07270122.D 2307262-009B	DX_220112.M	122	1.000	27 Jul 2023	09:45	pm
62)	07270124.D 2307262-010B	DX_220112.M	123	1.000	27 Jul 2023	09:56	pm
63)	07270126.D 2307284-001B	DX_220112.M	124	1.000	27 Jul 2023	10:07	pm
64)	07270128.D 2307284-002B	DX_220112.M	125	1.000	27 Jul 2023	10:18	pm
65)	07270130.D 2307284-003B	DX_220112.M	126	1.000	27 Jul 2023	10:29	pm
66)	07270132.D 2307284-004B	DX_220112.M	127	1.000	27 Jul 2023	10:40	pm
67)	07270134.D 2307285-001A	DX_220112.M	128	1.000	27 Jul 2023	10:51	pm
68)	07270136.D CO	DX_220112.M	150	1.000	27 Jul 2023	11:02	pm

69) 07270138.D OIL-CCV	DX_220112.M	2	1.000	27 Jul 2023	11:12 pm
70) 07270140.D DX-CCV	DX_220112.M	1	1.000	27 Jul 2023	11:23 pm
71) 07270142.D CO	DX_220112.M	150	1.000	27 Jul 2023	11:34 pm
72) 07270144.D MB-40989	DX_220112.M	131	1.000	27 Jul 2023	11:45 pm
73) 07270146.D LCS-40989	DX_220112.M	132	1.000	27 Jul 2023	11:56 pm
74) 07270148.D 2307278-002A	DX_220112.M	136	1.000	28 Jul 2023	12:07 am
75) 07270150.D 2307278-002ADUP	DX_220112.M	137	1.000	28 Jul 2023	12:18 am
76) 07270152.D 2307278-003A	DX_220112.M	138	1.000	28 Jul 2023	12:29 am
77) 07270154.D 2307278-004A	DX_220112.M	139	1.000	28 Jul 2023	12:40 am
78) 07270156.D 2307278-005A	DX_220112.M	140	1.000	28 Jul 2023	12:51 am
79) 07270158.D 2307278-006A	DX_220112.M	141	1.000	28 Jul 2023	01:02 am
80) 07270160.D 2307278-009A	DX_220112.M	144	1.000	28 Jul 2023	01:13 am
81) 07270162.D 2307278-010A	DX_220112.M	145	1.000	28 Jul 2023	01:24 am
82) 07270164.D CO	DX_220112.M	150	1.000	28 Jul 2023	01:35 am
83) 07270166.D OIL-CCV	DX_220112.M	2	1.000	28 Jul 2023	01:46 am
84) 07270168.D DX-CCV	DX_220112.M	1	1.000	28 Jul 2023	01:57 am
85) 07270170.D CO	DX_220112.M	150	1.000	28 Jul 2023	02:08 am
86) 07270172.D 2307278-012A	DX_220112.M	147	1.000	28 Jul 2023	02:18 am
87) 07270174.D 2307278-001A	DX_220112.M	133	1.000	28 Jul 2023	02:29 am
88) 07270176.D CO	DX_220112.M	150	1.000	28 Jul 2023	02:40 am
89) 07270178.D 2307278-001AMS	DX_220112.M	134	1.000	28 Jul 2023	02:51 am
90) 07270180.D CO	DX_220112.M	150	1.000	28 Jul 2023	03:02 am
91) 07270182.D 2307278-001AMSD	DX_220112.M	135	1.000	28 Jul 2023	03:13 am

92) 07270184.D CO	DX_220112.M	150	1.000	28 Jul 2023	03:24 am
93) 07270186.D 2307278-011A	DX_220112.M	146	1.000	28 Jul 2023	03:35 am
94) 07270188.D CO	DX_220112.M	150	1.000	28 Jul 2023	03:46 am
95) 07270190.D 2307278-008A	DX_220112.M	143	1.000	28 Jul 2023	03:57 am
96) 07270192.D CO	DX_220112.M	150	1.000	28 Jul 2023	04:08 am
97) 07270194.D 2307278-007A	DX_220112.M	142	1.000	28 Jul 2023	04:19 am
98) 07270196.D CO	DX_220112.M	150	1.000	28 Jul 2023	04:30 am
99) 07270198.D CO	DX_220112.M	150	1.000	28 Jul 2023	04:41 am
100) 07270200.D OIL-CCV	DX_220112.M	2	1.000	28 Jul 2023	04:52 am
101) 07270202.D DX-CCV	DX_220112.M	1	1.000	28 Jul 2023	05:03 am
102) 07270204.D CO	DX_220112.M	150	1.000	28 Jul 2023	05:14 am

Data Directory: D:\GC-24\Data\2023\230928FRONT\

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) 09280002.D CO	DX_220112.M	150	1.000	28 Sep 2023 08:30 am
2) 09280004.D OIL-CCV	DX_220112.M	2	1.000	28 Sep 2023 08:41 am
3) 09280006.D DX-CCV	DX_220112.M	1	1.000	28 Sep 2023 08:52 am
4) 09280008.D CO	DX_220112.M	150	1.000	28 Sep 2023 09:03 am
5) 09280010.D MB-41605	DX_220112.M	71	1.000	28 Sep 2023 11:50 am
6) 09280012.D LCS-41605	DX_220112.M	72	1.000	28 Sep 2023 12:01 pm
7) 09280014.D LCSD-41605	DX_220112.M	73	1.000	28 Sep 2023 12:12 pm
8) 09280016.D 2309435-001A	DX_220112.M	90	1.000	28 Sep 2023 12:23 pm
9) 09280018.D CO	DX_220112.M	150	1.000	28 Sep 2023 12:34 pm
10) 09280020.D OIL-CCV	DX_220112.M	2	1.000	28 Sep 2023 12:45 pm
11) 09280022.D DX-CCV	DX_220112.M	1	1.000	28 Sep 2023 12:55 pm
12) 09280024.D CO	DX_220112.M	150	1.000	28 Sep 2023 01:06 pm
13) 09280026.D MB-41612	DX_220112.M	101	1.000	28 Sep 2023 01:44 pm
14) 09280028.D LCS-41612	DX_220112.M	102	1.000	28 Sep 2023 01:55 pm
15) 09280030.D LCSD-41612	DX_220112.M	103	1.000	28 Sep 2023 02:06 pm
16) 09280032.D 2309466-001A	DX_220112.M	104	1.000	28 Sep 2023 02:17 pm
17) 09280034.D 2309466-001ADUP	DX_220112.M	105	1.000	28 Sep 2023 02:28 pm
18) 09280036.D CO	DX_220112.M	150	1.000	28 Sep 2023 02:39 pm
19) 09280038.D OIL-CCV	DX_220112.M	2	1.000	28 Sep 2023 02:50 pm
20) 09280040.D DX-CCV	DX_220112.M	1	1.000	28 Sep 2023 03:01 pm
21) 09280042.D CO	DX_220112.M	150	1.000	28 Sep 2023 03:12 pm

22) 09280044.D 2309446-001A	DX_220112.M	106	1.000	28 Sep 2023	04:49 pm
23) 09280046.D 2309446-001AMS	DX_220112.M	107	1.000	28 Sep 2023	04:59 pm
24) 09280048.D 2309446-001AMSD	DX_220112.M	108	1.000	28 Sep 2023	05:10 pm
25) 09280050.D 2309446-003A	DX_220112.M	109	1.000	28 Sep 2023	05:21 pm
26) 09280052.D 2309446-004A	DX_220112.M	110	1.000	28 Sep 2023	05:32 pm
27) 09280054.D 2309446-005A	DX_220112.M	111	1.000	28 Sep 2023	05:43 pm
28) 09280056.D 2309364-001A	DX_220112.M	112	1.000	28 Sep 2023	05:54 pm
29) 09280058.D 2309353-001A	DX_220112.M	74	1.000	28 Sep 2023	06:05 pm
30) 09280060.D 2309357-001A	DX_220112.M	76	1.000	28 Sep 2023	06:16 pm
31) 09280062.D 2309357-002A	DX_220112.M	77	1.000	28 Sep 2023	06:27 pm
32) 09280064.D CO	DX_220112.M	150	1.000	28 Sep 2023	06:37 pm
33) 09280066.D OIL-CCV	DX_220112.M	2	1.000	28 Sep 2023	06:48 pm
34) 09280068.D DX-CCV	DX_220112.M	1	1.000	28 Sep 2023	06:59 pm
35) 09280070.D CO	DX_220112.M	150	1.000	28 Sep 2023	07:10 pm
36) 09280072.D 2309357-003A	DX_220112.M	78	1.000	28 Sep 2023	07:21 pm
37) 09280074.D 2309357-004A	DX_220112.M	79	1.000	28 Sep 2023	07:32 pm
38) 09280076.D 2309359-001A	DX_220112.M	80	1.000	28 Sep 2023	07:43 pm
39) 09280078.D 2309363-001A	DX_220112.M	81	1.000	28 Sep 2023	07:54 pm
40) 09280080.D 2309366-001A	DX_220112.M	82	1.000	28 Sep 2023	08:05 pm
41) 09280082.D 2309369-004A	DX_220112.M	86	1.000	28 Sep 2023	08:15 pm
42) 09280084.D 2309370-002A	DX_220112.M	88	1.000	28 Sep 2023	08:26 pm
43) 09280086.D 2309372-001B	DX_220112.M	89	1.000	28 Sep 2023	08:37 pm
44) 09280088.D 2309355-001A	DX_220112.M	75	1.000	28 Sep 2023	08:48 pm
45) 09280090.D	DX_220112.M				

CO			150	1.000	28 Sep 2023	08:59	pm
46)	09280092.D 2309369-002A	DX_220112.M	84	1.000	28 Sep 2023	09:10	pm
47)	09280094.D CO	DX_220112.M	150	1.000	28 Sep 2023	09:21	pm
48)	09280096.D 2309369-003A	DX_220112.M	85	1.000	28 Sep 2023	09:32	pm
49)	09280098.D CO	DX_220112.M	150	1.000	28 Sep 2023	09:43	pm
50)	09280100.D 2309370-001A	DX_220112.M	87	1.000	28 Sep 2023	09:54	pm
51)	09280102.D CO	DX_220112.M	150	1.000	28 Sep 2023	10:04	pm
52)	09280104.D 2309369-001A	DX_220112.M	83	1.000	28 Sep 2023	10:15	pm
53)	09280106.D CO	DX_220112.M	150	1.000	28 Sep 2023	10:26	pm
54)	09280108.D CO	DX_220112.M	150	1.000	28 Sep 2023	10:37	pm
55)	09280110.D OIL-CCV	DX_220112.M	2	1.000	28 Sep 2023	10:48	pm
56)	09280112.D DX-CCV	DX_220112.M	1	1.000	28 Sep 2023	10:59	pm
57)	09280114.D CO	DX_220112.M	150	1.000	28 Sep 2023	11:10	pm



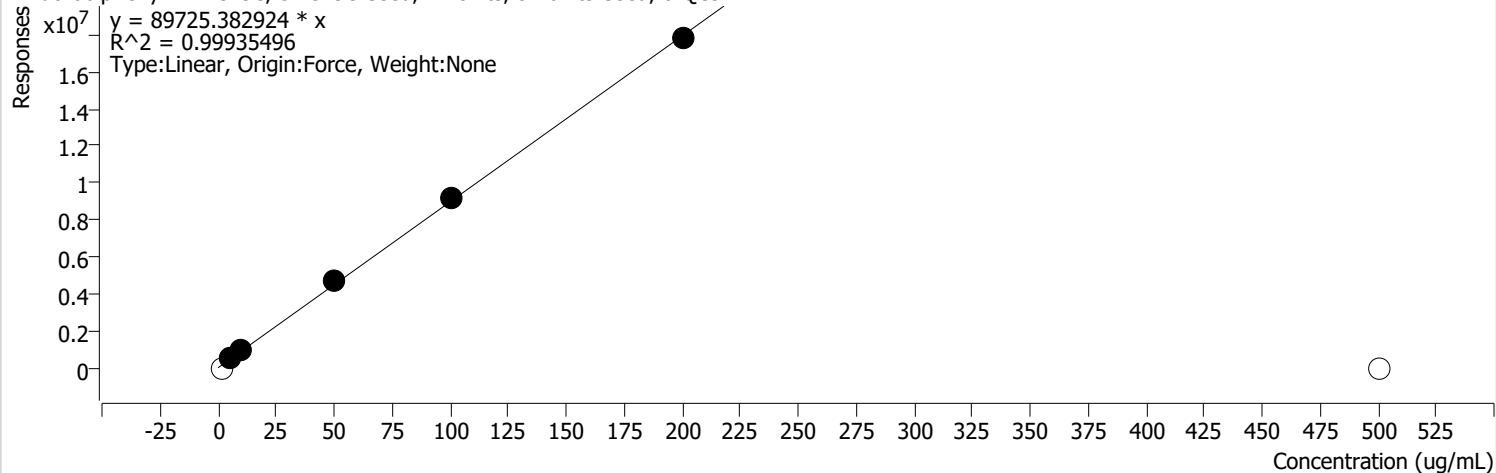
Calibration

Calibration Report

Batch Path	D:\GC-24\Data\2023\230727FRONT\QuantResults\Dx-Oil Cal.batch.bin		
Analysis Time	7/28/2023 9:47:30 AM	Analyst Name	FA\GC24
Report Time	7/28/2023 9:50:54 AM	Reporter Name	GC24
Last Calib Update	7/28/2023 9:45:03 AM	Batch State	Processed

2-Fluorobiphenyl

2-Fluorobiphenyl - 7 Levels, 5 Levels Used, 7 Points, 5 Points Used, 0 QCs



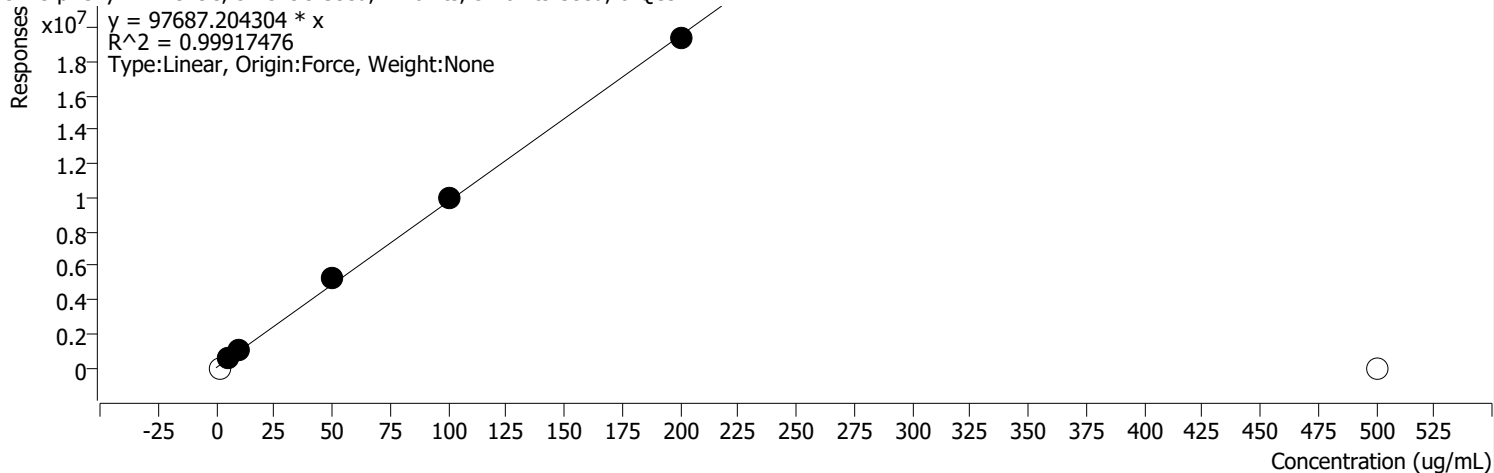
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D:\GC-24\Data\2023\230727FRONT\07270006.D	Calibration	2	x	499781	5.0000	99956.2936
D:\GC-24\Data\2023\230727FRONT\07270008.D	Calibration	3	x	1001008	10.0000	100100.7802
D:\GC-24\Data\2023\230727FRONT\07270010.D	Calibration	4	x	4748564	50.0000	94971.2777
D:\GC-24\Data\2023\230727FRONT\07270012.D	Calibration	5	x	9133555	100.0000	91335.5456
D:\GC-24\Data\2023\230727FRONT\07270014.D	Calibration	6	x	17792528	200.0000	88962.6410
D:\GC-24\Data\2023\230727FRONT\07270016.D	Calibration	7		0	500.0000	0.0000

Calibration Report

Batch Path	D:\GC-24\Data\2023\230727FRONT\QuantResults\Dx-Oil Cal.batch.bin		
Analysis Time	7/28/2023 9:47:30 AM	Analyst Name	FA\GC24
Report Time	7/28/2023 9:50:56 AM	Reporter Name	GC24
Last Calib Update	7/28/2023 9:45:03 AM	Batch State	Processed

O-Terphenyl

O-Terphenyl - 7 Levels, 5 Levels Used, 7 Points, 5 Points Used, 0 QCs



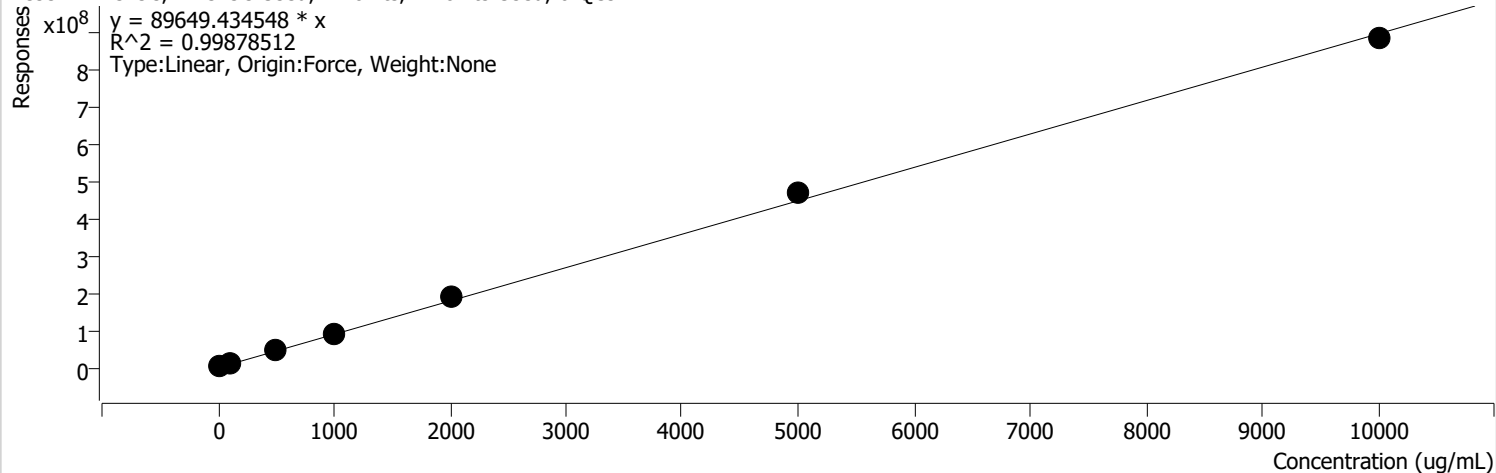
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
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D:\GC-24\Data\2023\230727FRONT\07270006.D	Calibration	2	x	559603	5.0000	111920.5680
D:\GC-24\Data\2023\230727FRONT\07270008.D	Calibration	3	x	1118016	10.0000	111801.6431
D:\GC-24\Data\2023\230727FRONT\07270010.D	Calibration	4	x	5218661	50.0000	104373.2229
D:\GC-24\Data\2023\230727FRONT\07270012.D	Calibration	5	x	9941086	100.0000	99410.8621
D:\GC-24\Data\2023\230727FRONT\07270014.D	Calibration	6	x	19358846	200.0000	96794.2318
D:\GC-24\Data\2023\230727FRONT\07270016.D	Calibration	7		0	500.0000	0.0000

Calibration Report

Batch Path	D:\GC-24\Data\2023\230727FRONT\QuantResults\Dx-Oil Cal.batch.bin		
Analysis Time	7/28/2023 9:47:30 AM	Analyst Name	FA\GC24
Report Time	7/28/2023 9:50:56 AM	Reporter Name	GC24
Last Calib Update	7/28/2023 9:45:03 AM	Batch State	Processed

Diesel

Diesel - 7 Levels, 7 Levels Used, 7 Points, 7 Points Used, 0 QCs



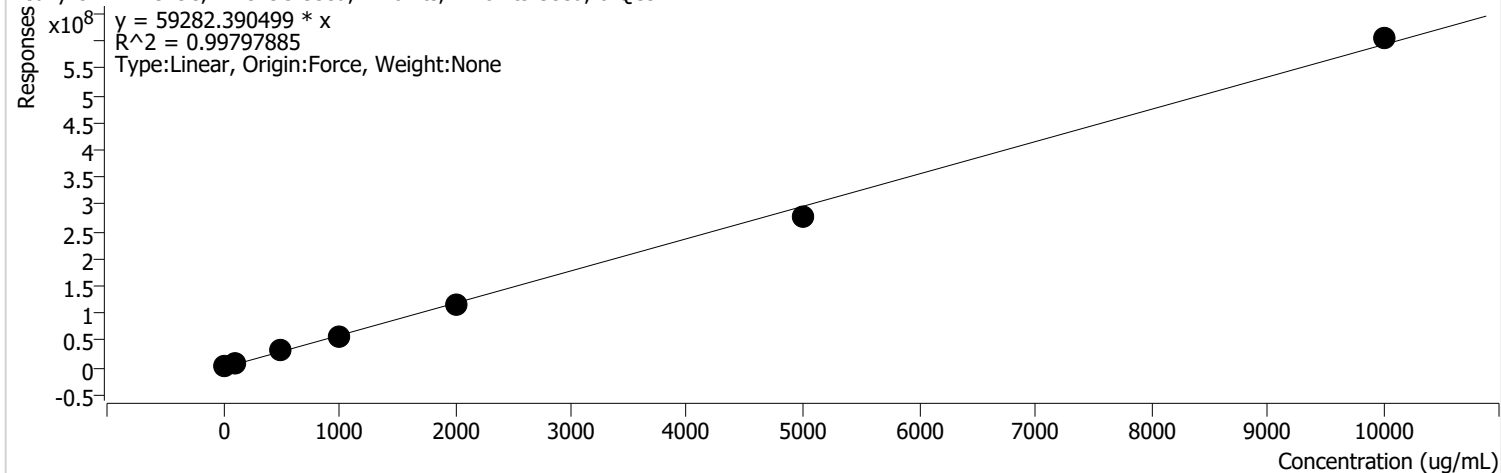
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
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D:\GC-24\Data\2023\230727FRONT\07270034.D	Calibration	2	x	8909518	100.0000	89095.1823
D:\GC-24\Data\2023\230727FRONT\07270036.D	Calibration	3	x	45292573	500.0000	90585.1454
D:\GC-24\Data\2023\230727FRONT\07270038.D	Calibration	4	x	91275534	1000.0000	91275.5337
D:\GC-24\Data\2023\230727FRONT\07270040.D	Calibration	5	x	188230632	2000.0000	94115.3159
D:\GC-24\Data\2023\230727FRONT\07270042.D	Calibration	6	x	470981718	5000.0000	94196.3435
D:\GC-24\Data\2023\230727FRONT\07270044.D	Calibration	7	x	883155794	10000.0000	88315.5794

Calibration Report

Batch Path	D:\GC-24\Data\2023\230727FRONT\QuantResults\Dx-Oil Cal.batch.bin		
Analysis Time	7/28/2023 9:47:30 AM	Analyst Name	FA\GC24
Report Time	7/28/2023 9:50:56 AM	Reporter Name	GC24
Last Calib Update	7/28/2023 9:45:03 AM	Batch State	Processed

Heavy Oil

Heavy Oil - 7 Levels, 7 Levels Used, 7 Points, 7 Points Used, 0 QCs



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-24\Data\2023\230727FRONT\07270048.D	Calibration	1	x	1139369	20.0000	56968.4627
D:\GC-24\Data\2023\230727FRONT\07270006.D	Calibration	2	x	6651487	100.0000	66514.8704
D:\GC-24\Data\2023\230727FRONT\07270008.D	Calibration	3	x	32500169	500.0000	65000.3388
D:\GC-24\Data\2023\230727FRONT\07270010.D	Calibration	4	x	56908464	1000.0000	56908.4636
D:\GC-24\Data\2023\230727FRONT\07270012.D	Calibration	5	x	117299033	2000.0000	58649.5166
D:\GC-24\Data\2023\230727FRONT\07270014.D	Calibration	6	x	275285166	5000.0000	55057.0333
D:\GC-24\Data\2023\230727FRONT\07270016.D	Calibration	7	x	603727752	10000.0000	60372.7752

Heavy Oil Calibration

Date: 7/27/23

Oil CAL STD: 28320

Concentration: 50,000 ug/L

Analyst: AHP

Oil ICV (SS): 27047

Concentration: 50,000 ug/L

MeCl2: 7583

SURROGATE: 28541

Concentration: 1,000 ug/L

	Calibration Point (ppm)	Surr Cal Point (ppm)	MeCl2 (uL)	STD Conc (ppm)	STD Amt (uL)	Surr Amt (uL)	Final Vol. (mL)	Comments
21	20	2	980	1000*	20*	-	1	*Note: the 1000 point w/ HO and surr will be used to make points 100 and 20
22	100	5	900	1000*	100*	-	1	
23	500	10	980	50,000	10	10	1	
24	1000*	50	930	50,000	20	50	1	
25	2000	100	860	50,000	40	100	1	
26	5000	200	700	50,000	100	200	1	
27	10000	500 -	800 ⁵⁰⁰ 800	50,000	200	500	1	
28	ICB	-	990 ^{0.712}	-	-	10	1	
29	ICV (500)	10	980	50,000 SS	10 ^{SS}	10	1	

Signature and Date: Alex Posters 7/27/23

Diesel Calibration

Date: 7/27/23

DX CAL STD: 27149 Concentration: 50,000 ug/L

Analyst: AHP

DX ICV (SS): 28397 Concentration: 50,000 ug/L

MeCl2: 7583

Surr: 28541 Concentration 1000 mg/L

1 3

2

11
12
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14
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19

Calibration Point (ppm)	MeCl2 (uL)	STD Conc (ppm)	STD Amt (uL)	Surr (uL)	Final Vol. (mL)	Comments
20	980	1000*	20	-	1	
100	900	1000*	100	-	1	
500	990	50,000	10	-	1	
1000*	980	50,000	20	-	1	
2000	960	50,000	40	-	1	
5000	900	50,000	100	-	1	*Note: the 1000 point will be used to make points 100 and 20
10000	800	50,000	200	-	1	
ICB	990	-	-	10	1	
ICV (500)	980	50,000 SS	10 ^{SS}	10	1	

Signature and Date: Alex Posen 7/27/23

DATA SET for Review - Deliverable Requirements

Gasoline by NWTPH-Gx

Fremont Analytical Work Order No. 2309364

GeoEngineers

Project Name: South Jackson Street

Project Number: 24504-001-03

This data set contains the following:

- Analytical Sequence Summary
- Calibration Information
- Tune Information
- Internal Standards Report

SampleName	MiscInfo	Vial	Multiplier	Injection Time
R 1) 092001.D	8260.M O-VOC-W		1.000	20 Sep 2023 08:30
VOC S CCV A 2) 092002.D	8260.M O-VOC-S	1	1.000	20 Sep 2023 09:01
R 3) 092003.D	8260.M O-VOC-W		1.000	20 Sep 2023 09:30
MB 4) 092004.D	8260.M O-VOC-S	2	1.000	20 Sep 2023 10:00
2309010-001B 5) 092005.D	8260.M O-VOC-S	3	1.000	20 Sep 2023 10:30
R 6) 092006.D	8260.M O-VOC-S		1.000	20 Sep 2023 10:59
VOC W CCV A 7) 092007.D	8260.M O-VOC-W	4	1.000	20 Sep 2023 11:42
R 8) 092008.D	8260.M O-VOC-W		1.000	20 Sep 2023 12:11
R 9) 092009.D	8260.M O-VOC-W		1.000	20 Sep 2023 12:40
R 10) 092010.D	8260.M O-VOC-W		1.000	20 Sep 2023 13:09
R 11) 092011.D	8260.M O-VOC-W		1.000	20 Sep 2023 13:38
GX CAL 1 12) 092012.D	8260.M O-VOC-GX-W	5	1.000	20 Sep 2023 14:08
GX CAL 2 13) 092013.D	8260.M O-VOC-GX-W	6	1.000	20 Sep 2023 14:38
GX CAL 3 14) 092014.D	8260.M O-VOC-GX-W	7	1.000	20 Sep 2023 15:08
GX CAL 4 15) 092015.D	8260.M O-VOC-GX-W	8	1.000	20 Sep 2023 15:39
GX CAL 5 16) 092016.D	8260.M O-VOC-GX-W	9	1.000	20 Sep 2023 16:09
GX CAL 6 17) 092017.D	8260.M O-VOC-GX-W	10	1.000	20 Sep 2023 16:39
GX CAL 7 18) 092018.D	8260.M O-VOC-GX-W	11	1.000	20 Sep 2023 17:09
R 19) 092019.D	8260.M O-VOC-GX-W		1.000	20 Sep 2023 17:38
R 20) 092020.D	8260.M O-VOC-GX-W		1.000	20 Sep 2023 18:07
GX ICB 21) 092021.D	8260.M O-VOC-GX-W	12	1.000	20 Sep 2023 18:37

22) 092022.D GX ICV	8260.M O-VOC-GX-W	13	1.000	20 Sep 2023	19:07
23) 092023.D VOC W ICV	8260.M O-VOC-W	14	1.000	20 Sep 2023	19:37
24) 092024.D VOC S CCV A	8260.M O-VOC-S	15	1.000	20 Sep 2023	20:08
25) 092025.D GX CCV A	8260.M O-VOC-GX-S	16	1.000	20 Sep 2023	20:38
26) 092026.D R	8260.M O-VOC-GX-S		1.000	20 Sep 2023	21:07
27) 092027.D R	8260.M O-VOC-GX-S		1.000	20 Sep 2023	21:36
28) 092028.D MB-41532	8260.M O-VOC-GX-S	17	1.000	20 Sep 2023	22:06
29) 092029.D 2309211-001B	8260.M O-VOC-GX-S	18	1.000	20 Sep 2023	22:36
30) 092030.D 2309211-001BDUP	8260.M O-VOC-GX-S	19	1.000	20 Sep 2023	23:06
31) 092031.D 2309211-002B	8260.M O-VOC-GX-S	20	1.000	20 Sep 2023	23:36
32) 092032.D 2309211-003B	8260.M O-VOC-GX-S	21	1.000	21 Sep 2023	00:06
33) 092033.D 2309211-002BMS VOC	8260.M O-VOC-GX-S	22	1.000	21 Sep 2023	00:37
34) 092034.D 2309211-003BMS GX	8260.M O-VOC-GX-S	23	1.000	21 Sep 2023	01:07
35) 092035.D R	8260.M O-VOC-GX-S		1.000	21 Sep 2023	01:36
36) 092036.D R	8260.M O-VOC-GX-S		1.000	21 Sep 2023	02:05
37) 092037.D R	8260.M O-VOC-GX-S		1.000	21 Sep 2023	02:34
38) 092038.D GX CCV B	8260.M O-VOC-GX-S	24	1.000	21 Sep 2023	03:04
39) 092039.D R	8260.M O-VOC-GX-S		1.000	21 Sep 2023	03:33
40) 092040.D R	8260.M O-VOC-GX-S		1.000	21 Sep 2023	04:02
41) 092041.D R	8260.M O-VOC-GX-S		1.000	21 Sep 2023	04:31

Data Directory: D:\GC-19\Data\092523\

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) 092550.D No data found	8260.M		0.000	N/A
2) 092501.D R	8260.M O-VOC-W		1.000	25 Sep 2023 08:28
3) 092502.D VOC W CCV A	8260.M O-VOC-W	1	1.000	25 Sep 2023 08:58
4) 092503.D VOC S CCV A	8260.M O-VOC-W	2	1.000	25 Sep 2023 09:28
5) 092504.D GX CCV A	8260.M O-VOC-W	3	1.000	25 Sep 2023 09:58
6) 092505.D 1122 TETRA TEST	8260.M O-VOC-W	4	1.000	25 Sep 2023 10:28
7) 092506.D R	8260.M O-VOC-W		1.000	25 Sep 2023 10:57
8) 092507.D MB S	8260.M O-VOC-S	5	1.000	25 Sep 2023 11:27
9) 092508.D 2309261-001B	8260.M O-VOC-S	6	1.000	25 Sep 2023 11:57
10) 092509.D 2309261-001BDUP	8260.M O-VOC-S	7	1.000	25 Sep 2023 12:28
11) 092510.D 2309343-001B	8260.M O-VOC-S	8	1.000	25 Sep 2023 12:58
12) 092511.D 2309343-002B	8260.M O-VOC-S	9	1.000	25 Sep 2023 13:28
13) 092512.D 2309343-003B	8260.M O-VOC-S	10	1.000	25 Sep 2023 13:58
14) 092513.D 2309343-004B	8260.M O-VOC-S	11	1.000	25 Sep 2023 14:28
15) 092514.D 2309343-001BMS VOC	8260.M O-VOC-S	12	1.000	25 Sep 2023 14:58
16) 092515.D 2309343-002BMS GX	8260.M O-VOC-S	13	1.000	25 Sep 2023 15:29
17) 092516.D R	8260.M O-VOC-S		1.000	25 Sep 2023 15:58
18) 092517.D GX CCV B	8260.M O-VOC-S	14	1.000	25 Sep 2023 16:28
19) 092518.D VOC W CCV B	8260.M O-VOC-W	15	1.000	25 Sep 2023 16:58
20) 092519.D R	8260.M O-VOC-S		1.000	25 Sep 2023 17:27
21) 092520.D 2309364-002B	8260.M O-VOC-S	16	1.000	25 Sep 2023 17:57

22)	092521.D		8260.M				
	2309364-001B	O-VOC-S		17	1.000	25 Sep 2023	18:27

	23) 092522.D		8260.M				
R		O-VOC-W			1.000	25 Sep 2023	18:56

	24) 092523.D		8260.M				
R		O-VOC-W			1.000	25 Sep 2023	19:25

	25) 092524.D		8260.M				
MB W		O-VOC-W		18	1.000	25 Sep 2023	19:55

	26) 092525.D		8260.M				
	2309136-004A 10,000X	O-VOC-W		19	1.000	25 Sep 2023	20:25

	27) 092526.D		8260.M				
	2309137-033A 500X	O-VOC-W		36	1.000	25 Sep 2023	20:56

	28) 092527.D		8260.M				
R		O-VOC-W			1.000	25 Sep 2023	21:24

	29) 092528.D		8260.M				
	2309136-011A	O-VOC-W		20	1.000	25 Sep 2023	21:55

	30) 092529.D		8260.M				
	2309136-017A	O-VOC-W		21	1.000	25 Sep 2023	22:25

	31) 092530.D		8260.M				
	2309137-001A	O-VOC-W		22	1.000	25 Sep 2023	22:55

	32) 092531.D		8260.M				
	2309137-022A	O-VOC-W		23	1.000	25 Sep 2023	23:25

	33) 092532.D		8260.M				
	2309137-023A	O-VOC-W		24	1.000	25 Sep 2023	23:55

	34) 092533.D		8260.M				
	2309137-021A	O-VOC-W		25	1.000	26 Sep 2023	00:25

	35) 092534.D		8260.M				
R		O-VOC-W			1.000	26 Sep 2023	00:54

	36) 092535.D		8260.M				
	2309169-007A	O-VOC-W		26	1.000	26 Sep 2023	01:25

	37) 092536.D		8260.M				
	2309169-008A	O-VOC-W		27	1.000	26 Sep 2023	01:55

	38) 092537.D		8260.M				
	2309169-009A	O-VOC-W		28	1.000	26 Sep 2023	02:25

	39) 092538.D		8260.M				
	2309169-010A	O-VOC-W		29	1.000	26 Sep 2023	02:55

	40) 092539.D		8260.M				
	2309169-011A	O-VOC-W		30	1.000	26 Sep 2023	03:25

	41) 092540.D		8260.M				
	2309169-012A	O-VOC-W		31	1.000	26 Sep 2023	03:55

	42) 092541.D		8260.M				
	2309169-019A	O-VOC-W		32	1.000	26 Sep 2023	04:26

	43) 092542.D		8260.M				
	2309169-019ADUP	O-VOC-W		33	1.000	26 Sep 2023	04:56

	44) 092543.D		8260.M				
	2309169-007AMS VOC	O-VOC-W		34	1.000	26 Sep 2023	05:26

	45) 092544.D		8260.M				

2309169-008AMS GX	O-VOC-W		35	1.000	26 Sep 2023	05:56

46) 092545.D	8260.M					
R	O-VOC-W			1.000	26 Sep 2023	06:25

47) 092546.D	8260.M					
VOC W CCV C	O-VOC-W	37		1.000	26 Sep 2023	06:55

48) 092547.D	8260.M					
GX CCV C	O-VOC-W	38		1.000	26 Sep 2023	07:25

49) 092548.D	8260.M					
R	O-VOC-W			1.000	26 Sep 2023	07:54

50) 092549.D	8260.M					
2309362-001A	O-VOC-W	39		1.000	26 Sep 2023	08:25

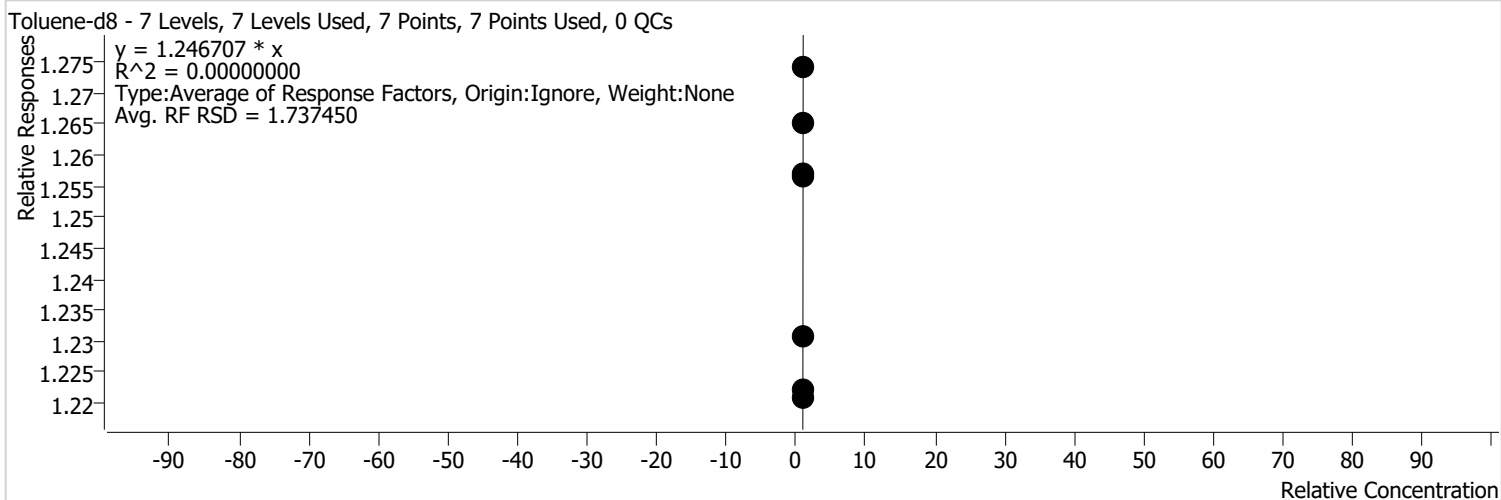


Calibration

Calibration Report

Batch Path	D:\GC-19\Data\092023\QuantResults\GX CAL.batch.bin		
Analysis Time	9/21/2023 8:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 8:22:53 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 8:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Toluene-d8 %RSE =

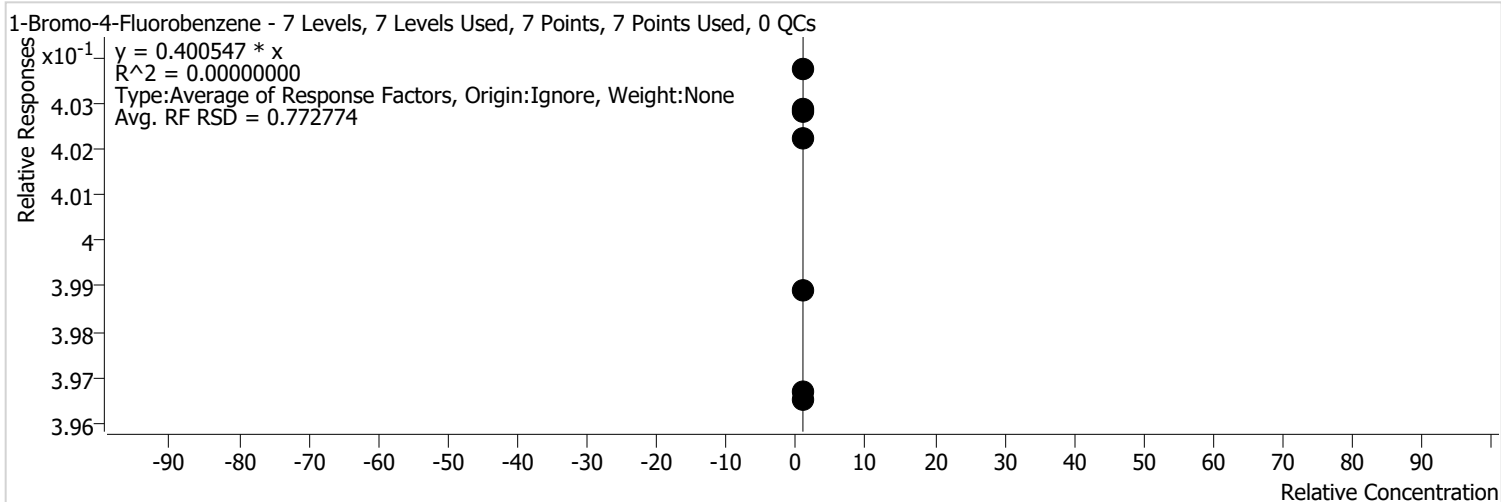


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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D:\GC-19\Data\092023\092017.D	Calibration	6	x	2293113	25.0000	1.2652	
D:\GC-19\Data\092023\092016.D	Calibration	5	x	2337721	25.0000	1.2309	
D:\GC-19\Data\092023\092015.D	Calibration	4	x	2282806	25.0000	1.2572	
D:\GC-19\Data\092023\092014.D	Calibration	3	x	2338754	25.0000	1.2565	
D:\GC-19\Data\092023\092013.D	Calibration	2	x	2321142	25.0000	1.2220	
D:\GC-19\Data\092023\092012.D	Calibration	1	x	2394453	25.0000	1.2210	

Calibration Report

Batch Path	D:\GC-19\Data\092023\QuantResults\GX CAL.batch.bin		
Analysis Time	9/21/2023 8:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 8:22:54 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 8:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1-Bromo-4-Fluorobenzene %RSE =



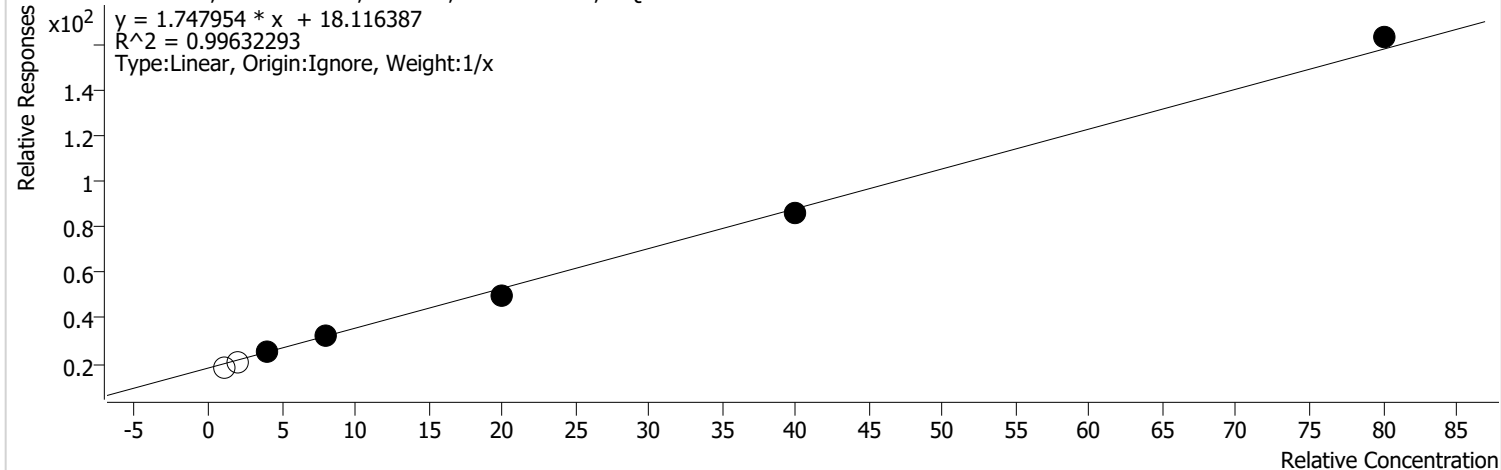
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\092023\092018.D	Calibration	7	x	735731	25.0000	0.3967	
D:\GC-19\Data\092023\092017.D	Calibration	6	x	718703	25.0000	0.3965	
D:\GC-19\Data\092023\092016.D	Calibration	5	x	766786	25.0000	0.4037	
D:\GC-19\Data\092023\092015.D	Calibration	4	x	731510	25.0000	0.4028	
D:\GC-19\Data\092023\092014.D	Calibration	3	x	742518	25.0000	0.3989	
D:\GC-19\Data\092023\092013.D	Calibration	2	x	763959	25.0000	0.4022	
D:\GC-19\Data\092023\092012.D	Calibration	1	x	790078	25.0000	0.4029	

Calibration Report

Batch Path	D:\GC-19\Data\092023\QuantResults\GX CAL.batch.bin	Analyst Name	FA\GC19
Analysis Time	9/21/2023 8:22 AM	Reporter Name	FA\GC19
Report Time	9/21/2023 8:22:54 AM	Batch State	Processed
Last Calib Update	9/21/2023 8:22 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

GASOLINE %RSE = 8.0

GASOLINE - 7 Levels, 5 Levels Used, 7 Points, 5 Points Used, 0 QCs



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\092023\092012.D	Calibration	1		27057575	25.0000	18.6606	
D:\GC-19\Data\092023\092013.D	Calibration	2		29142729	50.0000	10.3595	
D:\GC-19\Data\092023\092014.D	Calibration	3	x	35071581	100.0000	6.4276	
D:\GC-19\Data\092023\092015.D	Calibration	4	x	42980870	200.0000	4.0257	
D:\GC-19\Data\092023\092016.D	Calibration	5	x	72000267	500.0000	2.4870	
D:\GC-19\Data\092023\092017.D	Calibration	6	x	116219873	1000.0000	2.1413	
D:\GC-19\Data\092023\092018.D	Calibration	7	x	227038092	2000.0000	2.0371	

GX Calibration



Date: 9/20/23
 Analyst: CC
 Instrument: GC-19

Cal	ICV
GX Standard: <u>28954</u>	GX Standard: <u>28963</u>

IS/Surrogate 28947

Cal Level	Spike Conc. (ppb)	Cal GX Spike (uL)	ICV GX Spike (uL)	Final Vol. (mL)	Comments
1	25	0.50	--	50	
2	50	1.00	--	50	
3	100	2.00	--	50	
4	200	4.00	--	50	
5	500	10.00	--	50	
6	1000	20.00	--	50	
7	2000	40.00	--	50	
	ICV (500 ppb)	--	10.00	50	

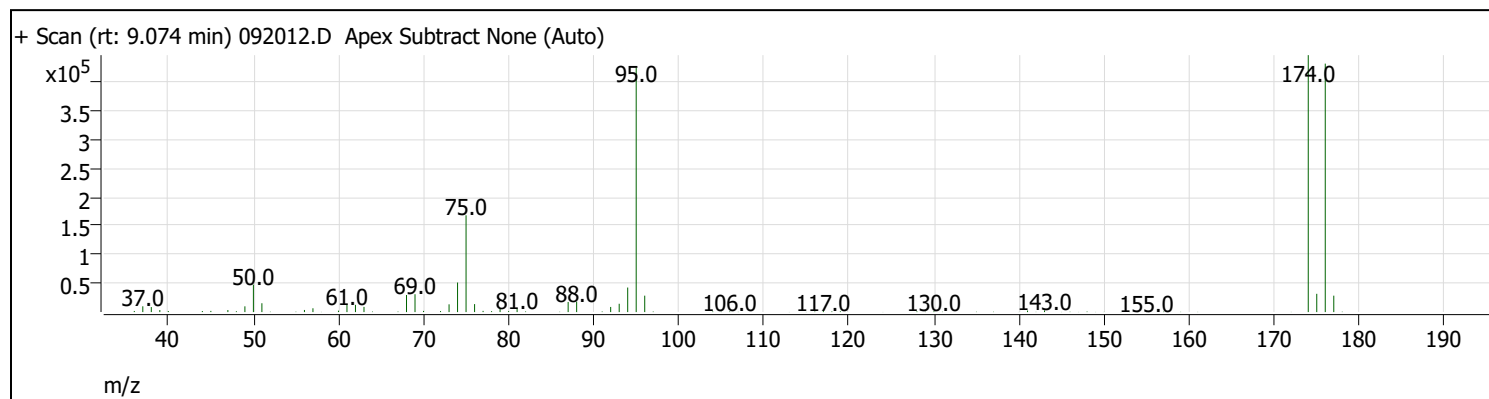
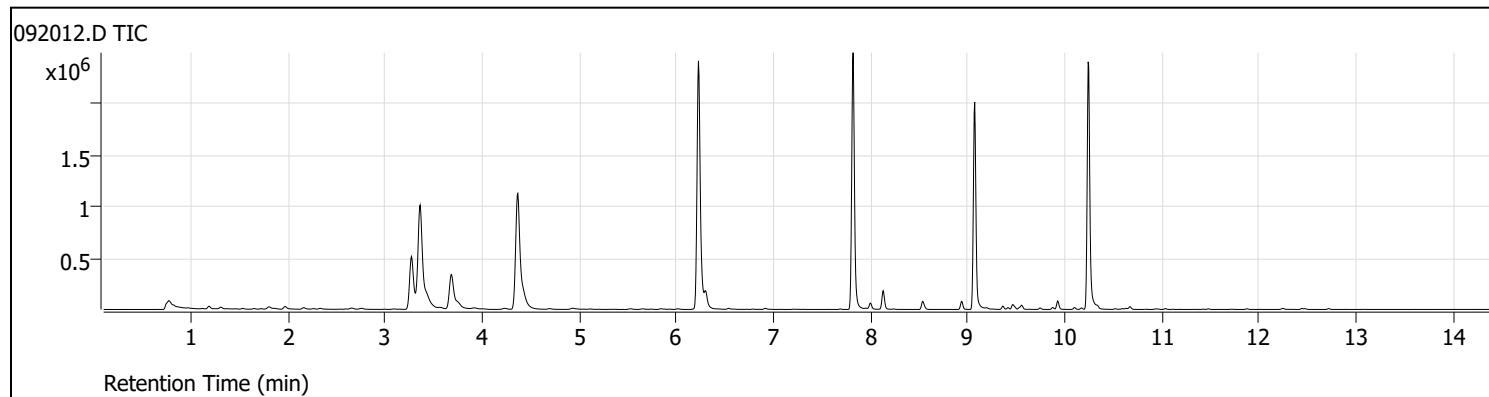
Signature and Date: 9/20/23



Tunes

Tune Evaluation Report

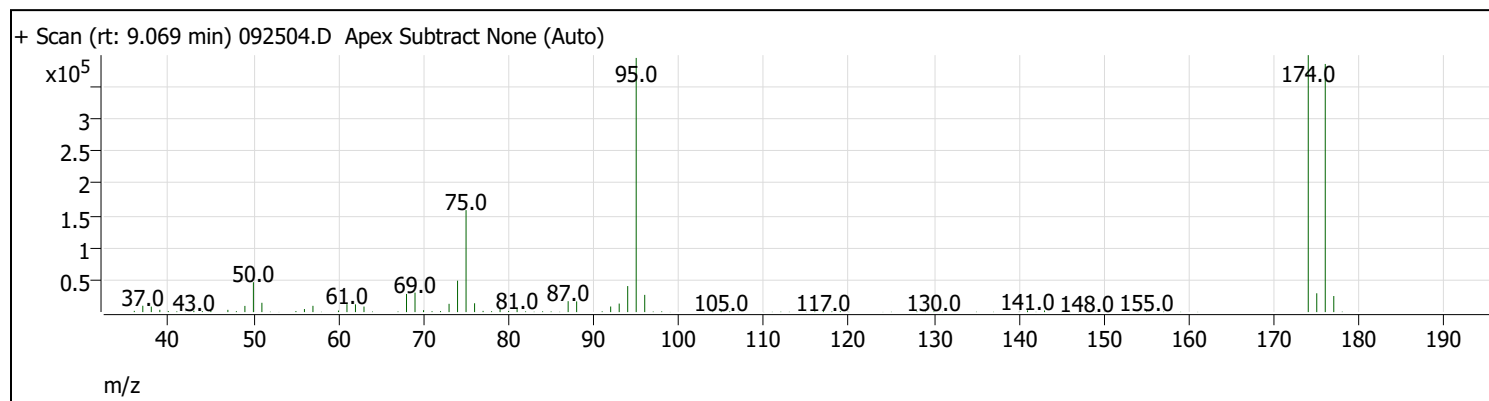
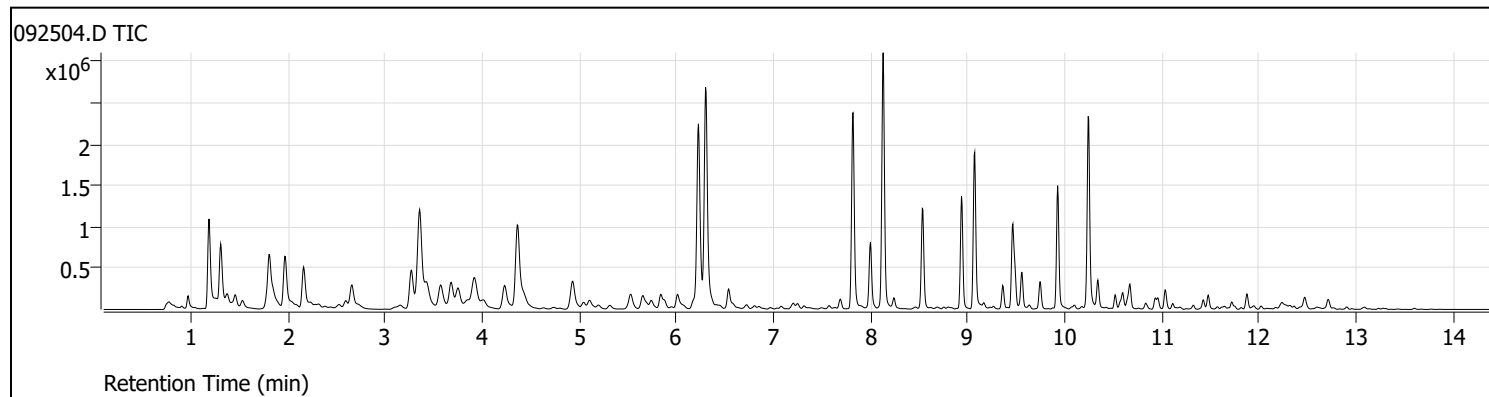
Data Path: D:\GC-19\Data\092023\092012.D
 Acq on: 9/20/2023 2:08:38 PM
 Operator: FA\GC19
 Sample: GX CAL 1
 Inst Name: GC19
 ALS Vial: 5
 Method: D:\MassHunter\Methods\Quant\BFB2021.m



Target Mass	Rel. To Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Pass/Fail
95	174	50	200	95.1	424345	Pass
96	95	5	9	6.7	28514	Pass
173	174	0	2	0.0	0	Pass
174	95	50	200	105.1	446167	Pass
175	174	5	9	7.1	31732	Pass
176	174	95	105	96.7	431457	Pass
177	176	5	10	6.6	28523	Pass

Tune Evaluation Report

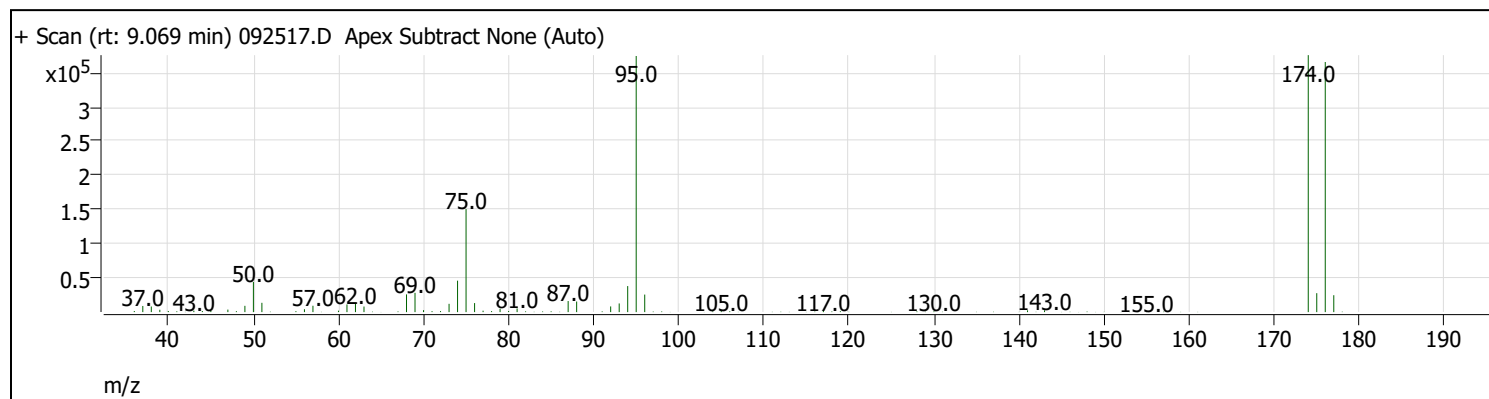
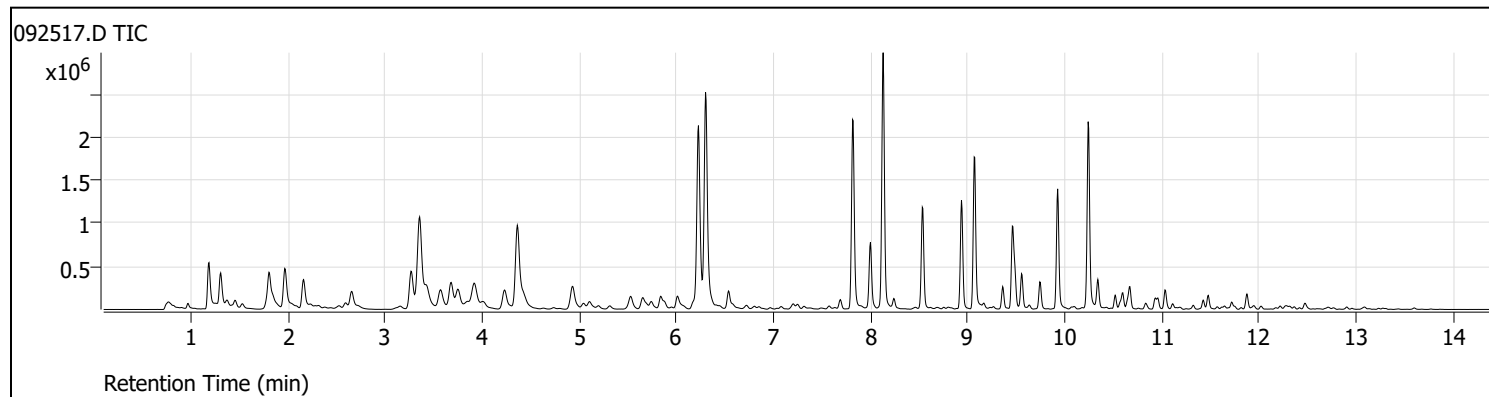
Data Path: D:\GC-19\Data\092523\092504.D
 Acq on: 9/25/2023 9:58:34 AM
 Operator: FA\GC19
 Sample: GX CCV A
 Inst Name: GC19
 ALS Vial: 3
 Method: D:\MassHunter\Methods\Quant\BFB2021.m



Target Mass	Rel. To Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Pass/Fail
95	174	50	200	98.9	395435	Pass
96	95	5	9	6.8	26825	Pass
173	174	0	2	0.0	0	Pass
174	95	50	200	101.1	399743	Pass
175	174	5	9	7.3	29300	Pass
176	174	95	105	96.6	386032	Pass
177	176	5	10	6.5	25013	Pass

Tune Evaluation Report

Data Path: D:\GC-19\Data\092523\092517.D
 Acq on: 9/25/2023 4:28:13 PM
 Operator: FA\GC19
 Sample: GX CCV B
 Inst Name: GC19
 ALS Vial: 14
 Method: D:\MassHunter\Methods\Quant\BFB2021.m



Target Mass	Rel. To Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Pass/Fail
95	174	50	200	99.7	374439	Pass
96	95	5	9	6.8	25635	Pass
173	174	0	2	0.0	0	Pass
174	95	50	200	100.3	375671	Pass
175	174	5	9	7.4	27705	Pass
176	174	95	105	97.3	365628	Pass
177	176	5	10	6.8	24729	Pass



Internal Standards

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-19 230925I CCV Name: GX 86636
 Run No: 86721 CCV SeqNo: 1809420
 Lab File ID (Standard): 092016.D Date Analyzed: 9/20/2023
 Instrument ID: GC-19 Time Analyzed: 16:09
 GC Column: ID (mm): Length (M):

	IS1 (CBZ) AREA #	RT #	IS2 (14DCBZ) AREA #	RT #				
12 HOUR STD	1899197	7.821	1447544	10.249				
UPPER LIMIT	3798394	8.321	2895088	10.749				
LOWER LIMIT	949599	7.321	723772	9.749				
SAMPLE NO.								
01 CCV-41565A	1.82664e+006	7.821	1.38896e+006	10.249				
02 CCV-41565B	1.71876e+006	7.822	1.30059e+006	10.244				
03 CCV-41565C	1.72445e+006	7.821	1.29927e+006	10.243				

IS1 (CBZ) = Chlorobenzene-d5

IS2 (14DCBZ) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-19 230925I CCV Name: CCV-41565A
 Run No: 86721 CCV SeqNo: 1809416
 Lab File ID (Standard): 092504.D Date Analyzed: 9/25/2023
 Instrument ID: GC-19 Time Analyzed: 9:58
 GC Column: ID (mm): Length (M):

	IS1 (CBZ) AREA #	RT #	IS2 (14DCBZ) AREA #	RT #				
12 HOUR STD	1826638	7.821	1388962	10.249				
UPPER LIMIT	3653276	8.321	2777924	10.749				
LOWER LIMIT	913319	7.321	694481	9.749				
SAMPLE NO.								
01 LCS-41565	1.82664e+006	7.821	1.38896e+006	10.249				
02 MB-41565	1.7348e+006	7.816	1.29032e+006	10.254				
03 2309261-001B	1.80345e+006	7.816	1.36813e+006	10.249				
04 2309261-001BDUP	1.756e+006	7.816	1.32509e+006	10.249				
05 2309343-001B	1.7482e+006	7.816	1.33844e+006	10.249				
06 2309343-002B	1.74634e+006	7.816	1.30045e+006	10.249				
07 2309343-003B	1.70968e+006	7.816	1.25529e+006	10.249				
08 2309343-004B	1.72368e+006	7.816	1.28775e+006	10.249				
09 2309343-002BMS	1.74014e+006	7.816	1.3637e+006	10.249				

IS1 (CBZ) = Chlorobenzene-d5

IS2 (14DCBZ) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-19 230925I CCV Name: CCV-41565B
 Run No: 86721 CCV SeqNo: 1809417
 Lab File ID (Standard): 092517.D Date Analyzed: 9/25/2023
 Instrument ID: GC-19 Time Analyzed: 16:28
 GC Column: ID (mm): Length (M):

	IS1 (CBZ) AREA #	RT #	IS2 (14DCBZ) AREA #	RT #				
12 HOUR STD	1718763	7.822	1300585	10.244				
UPPER LIMIT	3437526	8.322	2601170	10.744				
LOWER LIMIT	859382	7.322	650293	9.744				
SAMPLE NO.								
01 2309364-001B	1.78021e+006	7.816	1.35885e+006	10.249				

IS1 (CBZ) = Chlorobenzene-d5

IS2 (14DCBZ) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

DATA SET for Review - Deliverable Requirements

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Fremont Analytical Work Order No. 2309364

GeoEngineers

Project Name: South Jackson Street

Project Number: 24504-001-03

This data set contains the following:

- Analytical Sequence Summary
- Calibration Information
- Tune Information
- Internal Standards Report

Data Directory: D:\GC-21\Data\2023\092723\

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) 092732.D No data found	SIM_8270E-625.M		0.000	N/A
2) 092701.D tune	SCAN-8270E-625.M	1	1.000	27 Sep 2023 08:01 am
3) 092702.D CCV	8151_SIM.M	3	1.000	27 Sep 2023 08:34 am
4) 092703.D MB-41558	8151_SIM.M	11	1.000	27 Sep 2023 08:54 am
5) 092704.D LCS-41558	8151_SIM.M	12	1.000	27 Sep 2023 09:15 am
6) 092705.D LCSD-41558	8151_SIM.M	13	1.000	27 Sep 2023 09:35 am
7) 092706.D MB-41530	8151_SIM.M	14	1.000	27 Sep 2023 09:56 am
8) 092707.D 2309179-001E	8151_SIM.M	15	1.000	27 Sep 2023 10:16 am
9) 092708.D 2309179-001E	8151_SIM.M	15	1.000	27 Sep 2023 10:40 am
10) 092709.D CCV	8151_SIM.M	3	1.000	27 Sep 2023 11:09 am
11) 092710.D pah sim check	SIM_8270E-625.M	2	1.000	27 Sep 2023 12:24 pm
12) 092711.D tune	SCAN-8270E-625.M	1	1.000	27 Sep 2023 01:44 pm
13) 092712.D tune	SCAN-8270E-625.M	1	1.000	27 Sep 2023 02:14 pm
14) 092713.D co	SIM_8270E-625.M	2	1.000	27 Sep 2023 02:44 pm
15) 092714.D PAH 10	SIM_8270E-625.M	12	1.000	27 Sep 2023 05:23 pm
16) 092715.D PAH 20	SIM_8270E-625.M	13	1.000	27 Sep 2023 05:53 pm
17) 092716.D PAH 40	SIM_8270E-625.M	14	1.000	27 Sep 2023 06:24 pm
18) 092717.D PAH 100	SIM_8270E-625.M	15	1.000	27 Sep 2023 06:54 pm
19) 092718.D PAH 200	SIM_8270E-625.M	16	1.000	27 Sep 2023 07:24 pm
20) 092719.D PAH 500	SIM_8270E-625.M	17	1.000	27 Sep 2023 07:55 pm
21) 092720.D PAH 750	SIM_8270E-625.M	18	1.000	27 Sep 2023 08:25 pm

22)	092721.D	SIM_8270E-625.M	19	1.000	27 Sep 2023	08:55 pm

	23) 092722.D	SIM_8270E-625.M	20	1.000	27 Sep 2023	09:25 pm

	24) 092723.D	SIM_8270E-625.M	21	1.000	27 Sep 2023	09:55 pm

	25) 092724.D	SIM_8270E-625.M	2	1.000	27 Sep 2023	10:26 pm

	26) 092725.D	SIM_8270E-625.M	22	1.000	27 Sep 2023	10:56 pm

	27) 092726.D	SCAN-8270E-625.M	1	1.000	28 Sep 2023	07:40 am

	28) 092727.D	SIM_8270E-625.M	23	1.000	28 Sep 2023	08:11 am

	29) 092728.D	SCAN-8270E-625.M	2	1.000	28 Sep 2023	08:47 am

	30) 092729.D	SIM_8270E-625.M	31	1.000	28 Sep 2023	09:18 am

	31) 092730.D	SIM_8270E-625.M	32	1.000	28 Sep 2023	09:48 am

	32) 092731.D	SIM_8270E-625.M	33	1.000	28 Sep 2023	10:18 am

Data Directory: D:\GC-21\Data\2023\092723\

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) 092701.D tune	SCAN-8270E-625.M	1	1.000	27 Sep 2023 08:01 am
2) 092702.D CCV	8151_SIM.M	3	1.000	27 Sep 2023 08:34 am
3) 092703.D MB-41558	8151_SIM.M	11	1.000	27 Sep 2023 08:54 am
4) 092704.D LCS-41558	8151_SIM.M	12	1.000	27 Sep 2023 09:15 am
5) 092705.D LCSD-41558	8151_SIM.M	13	1.000	27 Sep 2023 09:35 am
6) 092706.D MB-41530	8151_SIM.M	14	1.000	27 Sep 2023 09:56 am
7) 092707.D 2309179-001E	8151_SIM.M	15	1.000	27 Sep 2023 10:16 am
8) 092708.D 2309179-001E	8151_SIM.M	15	1.000	27 Sep 2023 10:40 am
9) 092709.D CCV	8151_SIM.M	3	1.000	27 Sep 2023 11:09 am
10) 092710.D pah sim check	SIM_8270E-625.M	2	1.000	27 Sep 2023 12:24 pm
11) 092711.D tune	SCAN-8270E-625.M	1	1.000	27 Sep 2023 01:44 pm
12) 092712.D tune	SCAN-8270E-625.M	1	1.000	27 Sep 2023 02:14 pm
13) 092713.D co	SIM_8270E-625.M	2	1.000	27 Sep 2023 02:44 pm
14) 092714.D PAH 10	SIM_8270E-625.M	12	1.000	27 Sep 2023 05:23 pm
15) 092715.D PAH 20	SIM_8270E-625.M	13	1.000	27 Sep 2023 05:53 pm
16) 092716.D PAH 40	SIM_8270E-625.M	14	1.000	27 Sep 2023 06:24 pm
17) 092717.D PAH 100	SIM_8270E-625.M	15	1.000	27 Sep 2023 06:54 pm
18) 092718.D PAH 200	SIM_8270E-625.M	16	1.000	27 Sep 2023 07:24 pm
19) 092719.D PAH 500	SIM_8270E-625.M	17	1.000	27 Sep 2023 07:55 pm
20) 092720.D PAH 750	SIM_8270E-625.M	18	1.000	27 Sep 2023 08:25 pm
21) 092721.D PAH 1000	SIM_8270E-625.M	19	1.000	27 Sep 2023 08:55 pm

22)	092722.D	SIM_8270E-625.M	20	1.000	27 Sep 2023	09:25 pm

	23) 092723.D	SIM_8270E-625.M	21	1.000	27 Sep 2023	09:55 pm

	24) 092724.D	SIM_8270E-625.M	2	1.000	27 Sep 2023	10:26 pm

	25) 092725.D	SIM_8270E-625.M	22	1.000	27 Sep 2023	10:56 pm

	26) 092726.D	SCAN-8270E-625.M	1	1.000	28 Sep 2023	07:40 am

	27) 092727.D	SIM_8270E-625.M	23	1.000	28 Sep 2023	08:11 am

	28) 092728.D	SCAN-8270E-625.M	2	1.000	28 Sep 2023	08:47 am

	29) 092729.D	SIM_8270E-625.M	31	1.000	28 Sep 2023	09:18 am

	30) 092730.D	SIM_8270E-625.M	32	1.000	28 Sep 2023	09:48 am

	31) 092731.D	SIM_8270E-625.M	33	1.000	28 Sep 2023	10:18 am

	32) 092732.D	SIM_8270E-625.M	35	1.000	28 Sep 2023	10:49 am

	33) 092733.D	SIM_8270E-625.M	36	1.000	28 Sep 2023	11:19 am

	34) 092734.D	SIM_8270E-625.M	37	1.000	28 Sep 2023	11:49 am

	35) 092735.D	SIM_8270E-625.M	11	1.000	28 Sep 2023	12:23 pm

	36) 092736.D	SIM_8270E-625.M	12	1.000	28 Sep 2023	12:53 pm

	37) 092737.D	SIM_8270E-625.M	13	1.000	28 Sep 2023	01:24 pm

	38) 092738.D	SIM_8270E-625.M	14	1.000	28 Sep 2023	01:54 pm

	39) 092739.D	SIM_8270E-625.M	15	1.000	28 Sep 2023	02:25 pm

	40) 092740.D	SIM_8270E-625.M	44	1.000	28 Sep 2023	02:55 pm

	41) 092741.D	SIM_8270E-625.M	34	1.000	28 Sep 2023	03:25 pm

	42) 092742.D	SIM_8270E-625.M	16	1.000	28 Sep 2023	03:55 pm

	43) 092743.D	SIM_8270E-625.M	17	1.000	28 Sep 2023	04:25 pm

	44) 092744.D	SIM_8270E-625.M	18	1.000	28 Sep 2023	04:55 pm

	45) 092745.D	SIM_8270E-625.M				

2309364-001A		19	1.000	28 Sep 2023	05:25 pm
46) 092746.D	SCAN-8270E-625.M				
SEMI CCV-		2	1.000	28 Sep 2023	05:56 pm
47) 092747.D	SIM_8270E-625.M				
2309361-004A 50x		41	1.000	28 Sep 2023	06:26 pm
48) 092748.D	SIM_8270E-625.M				
2309361-005A 500x		42	1.000	28 Sep 2023	06:56 pm
49) 092749.D	SIM_8270E-625.M				
2309361-006A 500x		43	1.000	28 Sep 2023	07:27 pm
50) 092750.D	SIM_8270E-625.M				
CCV-PAH		2	1.000	28 Sep 2023	07:57 pm
51) 092751.D	SCAN-8270E-625.M				
MB-41603		21	1.000	28 Sep 2023	08:27 pm
52) 092752.D	SCAN-8270E-625.M				
LCS-41603		22	1.000	28 Sep 2023	08:58 pm
53) 092753.D	SCAN-8270E-625.M				
MB-41530		23	1.000	28 Sep 2023	09:28 pm
54) 092754.D	SCAN-8270E-625.M				
2309179-001C		24	1.000	28 Sep 2023	09:58 pm
55) 092755.D	SCAN-8270E-625.M				
SEMI CCV-		2	1.000	28 Sep 2023	10:28 pm
56) 092901.D	SCAN-8270E-625.M				
co		2	1.000	29 Sep 2023	08:49 am
57) 092902.D	SCAN-8270E-625.M				
tune		1	1.000	29 Sep 2023	09:19 am
58) 092903.D	SCAN-8270E-625.M				
SEMI CCV-		2	1.000	29 Sep 2023	09:49 am



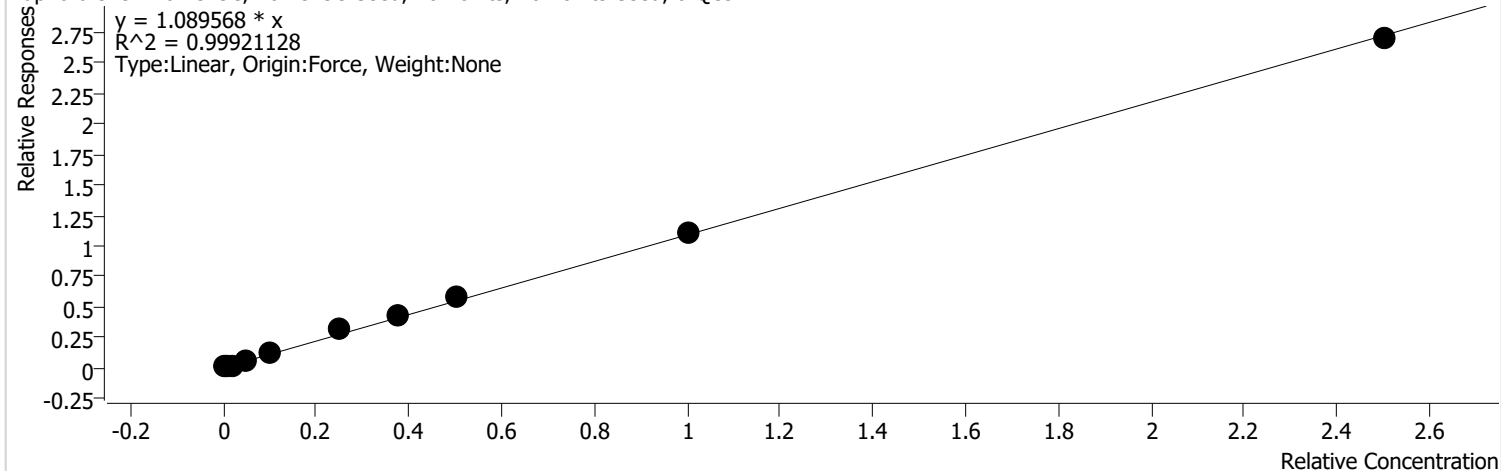
Calibration

Calibration Report

Batch Path	D:\GC-21\Data\2023\092723\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\gc1821
Analysis Time	9/28/2023 10:36:05 AM	Reporter Name	gc1821
Report Time	9/28/2023 10:47:44 AM	Batch State	Processed
Last Calib Update	9/28/2023 10:13:23 AM		

Naphthalene

Naphthalene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs

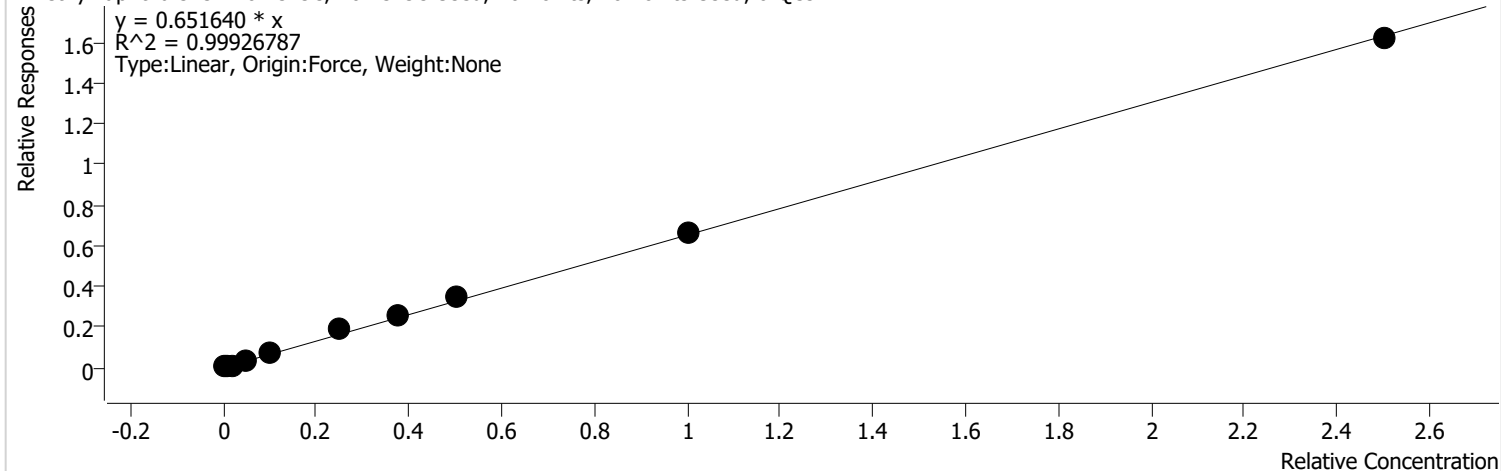


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-21\Data\2023\092723\092714.D	Calibration	1	x	3264	10.0000	1.1158
D:\GC-21\Data\2023\092723\092715.D	Calibration	2	x	5324	20.0000	0.9842
D:\GC-21\Data\2023\092723\092716.D	Calibration	3	x	12266	40.0000	1.0996
D:\GC-21\Data\2023\092723\092717.D	Calibration	4	x	30625	100.0000	1.1526
D:\GC-21\Data\2023\092723\092718.D	Calibration	5	x	62411	200.0000	1.1318
D:\GC-21\Data\2023\092723\092719.D	Calibration	6	x	170478	500.0000	1.2492
D:\GC-21\Data\2023\092723\092720.D	Calibration	7	x	245089	750.0000	1.1521
D:\GC-21\Data\2023\092723\092721.D	Calibration	8	x	329364	1000.0000	1.1630
D:\GC-21\Data\2023\092723\092722.D	Calibration	9	x	634080	2000.0000	1.1173
D:\GC-21\Data\2023\092723\092723.D	Calibration	10	x	1535221	5000.0000	1.0791

Batch Path	D:\GC-21\Data\2023\092723\QuantResults\PAH ICAL.batch.bin		
Analysis Time	9/28/2023 10:36:05 AM	Analyst Name	FA\gc1821
Report Time	9/28/2023 10:47:45 AM	Reporter Name	gc1821
Last Calib Update	9/28/2023 10:13:23 AM	Batch State	Processed

2-Methylnaphthalene

2-Methylnaphthalene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs

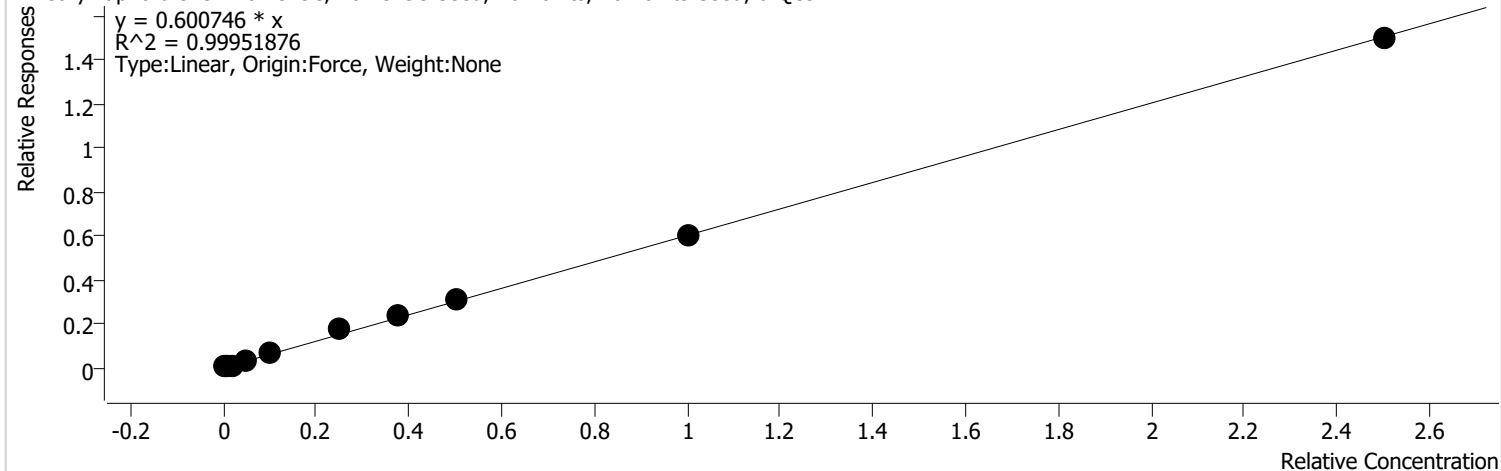


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-21\Data\2023\092723\092714.D	Calibration	1	x	1825	10.0000	0.6238
D:\GC-21\Data\2023\092723\092715.D	Calibration	2	x	3093	20.0000	0.5717
D:\GC-21\Data\2023\092723\092716.D	Calibration	3	x	7281	40.0000	0.6527
D:\GC-21\Data\2023\092723\092717.D	Calibration	4	x	18446	100.0000	0.6943
D:\GC-21\Data\2023\092723\092718.D	Calibration	5	x	37925	200.0000	0.6878
D:\GC-21\Data\2023\092723\092719.D	Calibration	6	x	102639	500.0000	0.7521
D:\GC-21\Data\2023\092723\092720.D	Calibration	7	x	148231	750.0000	0.6968
D:\GC-21\Data\2023\092723\092721.D	Calibration	8	x	196275	1000.0000	0.6930
D:\GC-21\Data\2023\092723\092722.D	Calibration	9	x	375631	2000.0000	0.6619
D:\GC-21\Data\2023\092723\092723.D	Calibration	10	x	919412	5000.0000	0.6463

Batch Path	D:\GC-21\Data\2023\092723\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\gc1821
Analysis Time	9/28/2023 10:36:05 AM	Reporter Name	gc1821
Report Time	9/28/2023 10:47:46 AM	Batch State	Processed
Last Calib Update	9/28/2023 10:13:23 AM		

1-Methylnaphthalene

1-Methylnaphthalene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



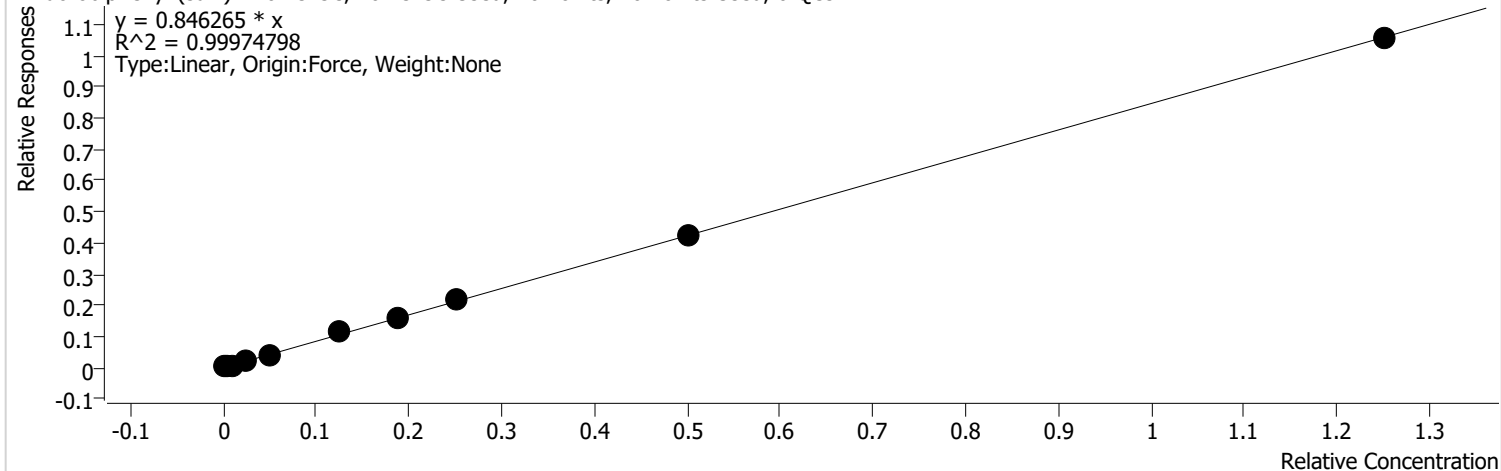
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-21\Data\2023\092723\092714.D	Calibration	1	x	1772	10.0000	0.6058
D:\GC-21\Data\2023\092723\092715.D	Calibration	2	x	3036	20.0000	0.5612
D:\GC-21\Data\2023\092723\092716.D	Calibration	3	x	7016	40.0000	0.6290
D:\GC-21\Data\2023\092723\092717.D	Calibration	4	x	17508	100.0000	0.6590
D:\GC-21\Data\2023\092723\092718.D	Calibration	5	x	35426	200.0000	0.6424
D:\GC-21\Data\2023\092723\092719.D	Calibration	6	x	93701	500.0000	0.6866
D:\GC-21\Data\2023\092723\092720.D	Calibration	7	x	133749	750.0000	0.6287
D:\GC-21\Data\2023\092723\092721.D	Calibration	8	x	178878	1000.0000	0.6316
D:\GC-21\Data\2023\092723\092722.D	Calibration	9	x	343154	2000.0000	0.6047
D:\GC-21\Data\2023\092723\092723.D	Calibration	10	x	849778	5000.0000	0.5973

Calibration Report

Batch Path	D:\GC-21\Data\2023\092723\QuantResults\PAH ICAL.batch.bin		
Analysis Time	9/28/2023 10:36:05 AM	Analyst Name	FA\gc1821
Report Time	9/28/2023 10:47:46 AM	Reporter Name	gc1821
Last Calib Update	9/28/2023 10:13:23 AM	Batch State	Processed

2-Fluorobiphenyl (surr)

2-Fluorobiphenyl (surr) - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



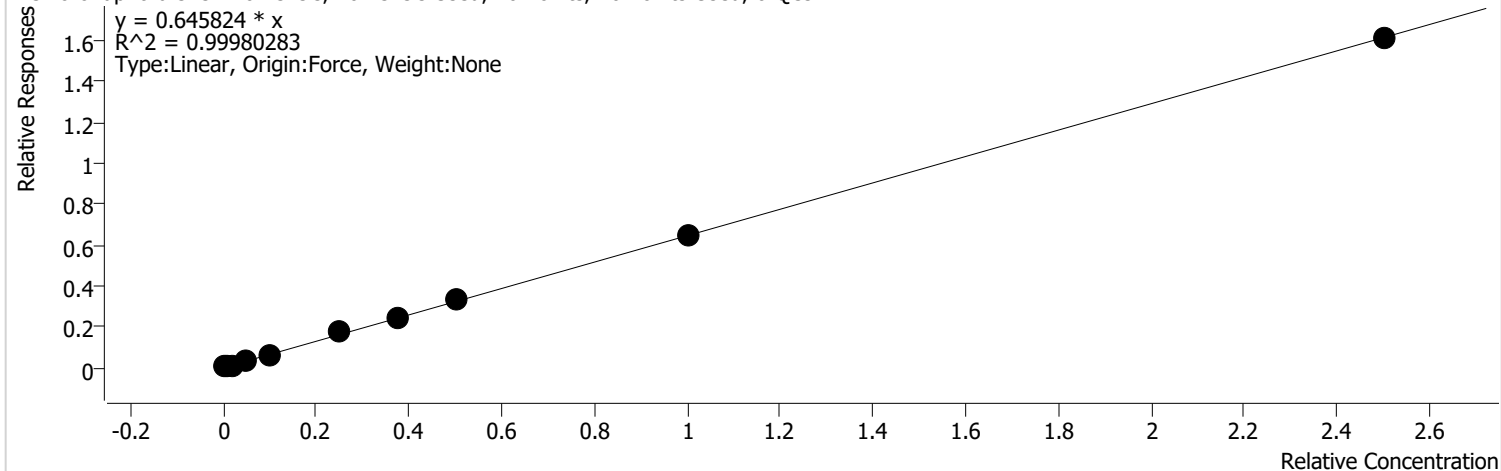
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-21\Data\2023\092723\092714.D	Calibration	1	x	1274	5.0000	0.8712
D:\GC-21\Data\2023\092723\092715.D	Calibration	2	x	2148	10.0000	0.7942
D:\GC-21\Data\2023\092723\092716.D	Calibration	3	x	4825	20.0000	0.8650
D:\GC-21\Data\2023\092723\092717.D	Calibration	4	x	11874	50.0000	0.8938
D:\GC-21\Data\2023\092723\092718.D	Calibration	5	x	24194	100.0000	0.8775
D:\GC-21\Data\2023\092723\092719.D	Calibration	6	x	64092	250.0000	0.9393
D:\GC-21\Data\2023\092723\092720.D	Calibration	7	x	92282	375.0000	0.8676
D:\GC-21\Data\2023\092723\092721.D	Calibration	8	x	124303	500.0000	0.8778
D:\GC-21\Data\2023\092723\092722.D	Calibration	9	x	241425	1000.0000	0.8508
D:\GC-21\Data\2023\092723\092723.D	Calibration	10	x	599517	2500.0000	0.8428

Calibration Report

Batch Path	D:\GC-21\Data\2023\092723\QuantResults\PAH ICAL.batch.bin		
Analysis Time	9/28/2023 10:36:05 AM	Analyst Name	FA\gc1821
Report Time	9/28/2023 10:47:46 AM	Reporter Name	gc1821
Last Calib Update	9/28/2023 10:13:23 AM	Batch State	Processed

2-Chloronaphthalene

2-Chloronaphthalene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



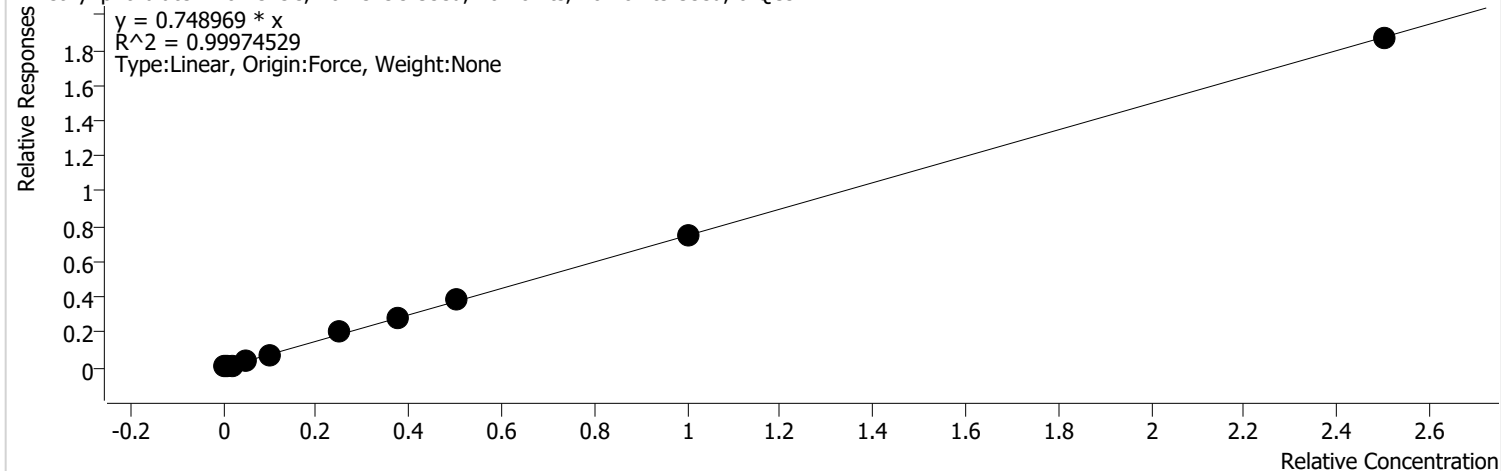
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-21\Data\2023\092723\092714.D	Calibration	1	x	1739	10.0000	0.5946
D:\GC-21\Data\2023\092723\092715.D	Calibration	2	x	3072	20.0000	0.5678
D:\GC-21\Data\2023\092723\092716.D	Calibration	3	x	7099	40.0000	0.6364
D:\GC-21\Data\2023\092723\092717.D	Calibration	4	x	18060	100.0000	0.6797
D:\GC-21\Data\2023\092723\092718.D	Calibration	5	x	36327	200.0000	0.6588
D:\GC-21\Data\2023\092723\092719.D	Calibration	6	x	97353	500.0000	0.7134
D:\GC-21\Data\2023\092723\092720.D	Calibration	7	x	139869	750.0000	0.6575
D:\GC-21\Data\2023\092723\092721.D	Calibration	8	x	188256	1000.0000	0.6647
D:\GC-21\Data\2023\092723\092722.D	Calibration	9	x	368345	2000.0000	0.6490
D:\GC-21\Data\2023\092723\092723.D	Calibration	10	x	915614	5000.0000	0.6436

Calibration Report

Batch Path	D:\GC-21\Data\2023\092723\QuantResults\PAH ICAL.batch.bin		
Analysis Time	9/28/2023 10:36:05 AM	Analyst Name	FA\gc1821
Report Time	9/28/2023 10:47:46 AM	Reporter Name	gc1821
Last Calib Update	9/28/2023 10:13:23 AM	Batch State	Processed

Dimethyl phthalate

Dimethyl phthalate - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



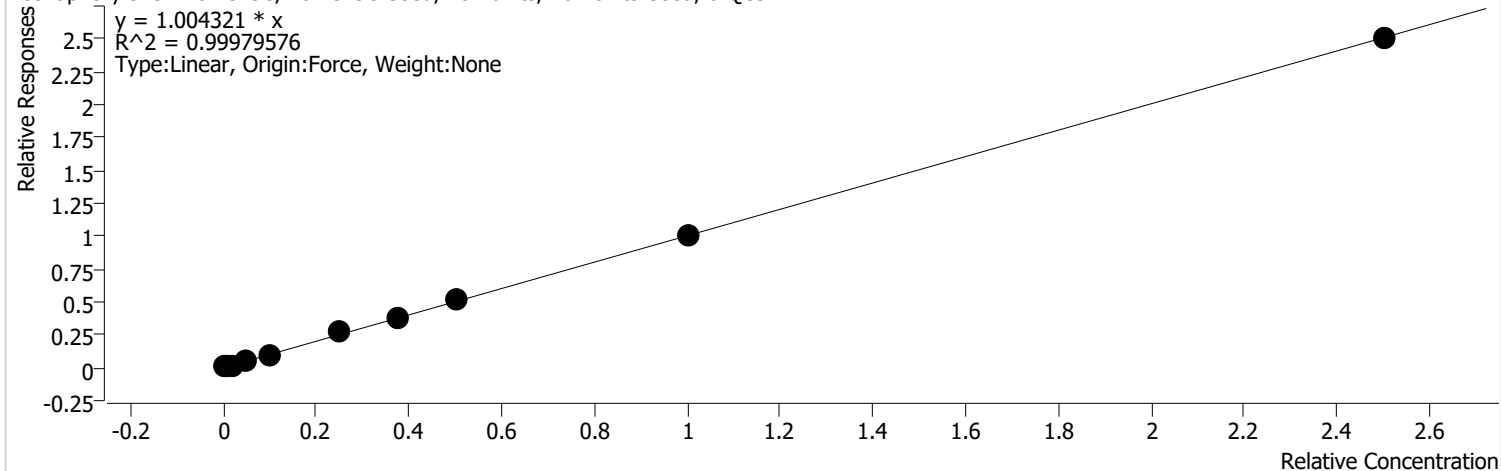
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-21\Data\2023\092723\092714.D	Calibration	1	x	2107	10.0000	0.7205
D:\GC-21\Data\2023\092723\092715.D	Calibration	2	x	3745	20.0000	0.6923
D:\GC-21\Data\2023\092723\092716.D	Calibration	3	x	8366	40.0000	0.7500
D:\GC-21\Data\2023\092723\092717.D	Calibration	4	x	20819	100.0000	0.7836
D:\GC-21\Data\2023\092723\092718.D	Calibration	5	x	42185	200.0000	0.7650
D:\GC-21\Data\2023\092723\092719.D	Calibration	6	x	113029	500.0000	0.8282
D:\GC-21\Data\2023\092723\092720.D	Calibration	7	x	163469	750.0000	0.7684
D:\GC-21\Data\2023\092723\092721.D	Calibration	8	x	220182	1000.0000	0.7775
D:\GC-21\Data\2023\092723\092722.D	Calibration	9	x	428539	2000.0000	0.7551
D:\GC-21\Data\2023\092723\092723.D	Calibration	10	x	1060722	5000.0000	0.7456

Calibration Report

Batch Path	D:\GC-21\Data\2023\092723\QuantResults\PAH ICAL.batch.bin		
Analysis Time	9/28/2023 10:36:05 AM	Analyst Name	FA\gc1821
Report Time	9/28/2023 10:47:46 AM	Reporter Name	gc1821
Last Calib Update	9/28/2023 10:13:23 AM	Batch State	Processed

Acenaphthylene

Acenaphthylene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



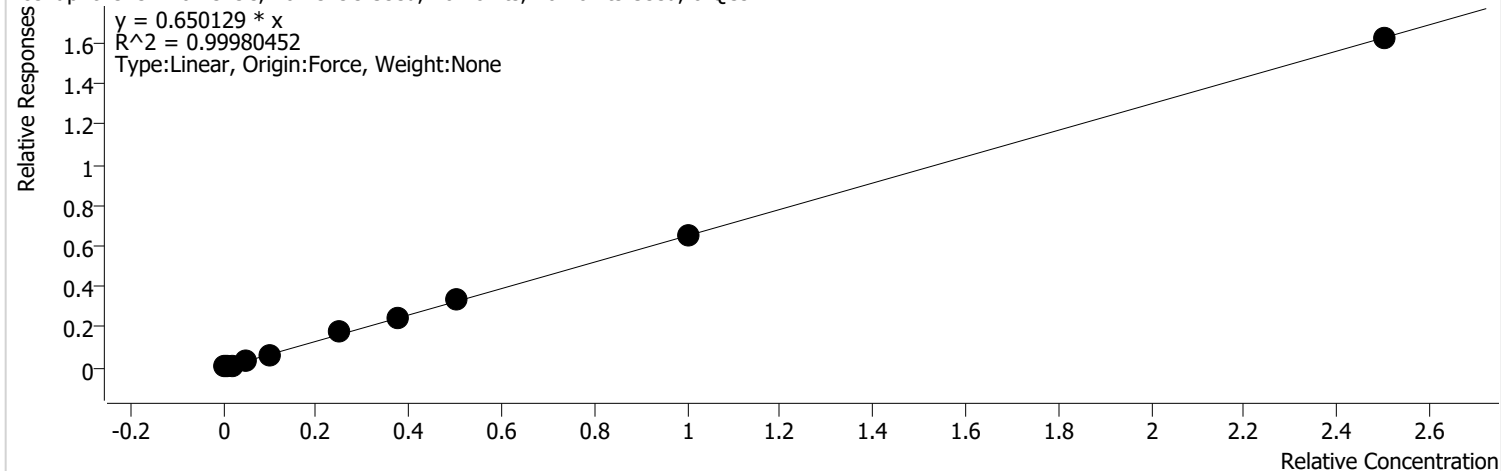
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-21\Data\2023\092723\092714.D	Calibration	1	x	2854	10.0000	0.9759
D:\GC-21\Data\2023\092723\092715.D	Calibration	2	x	4845	20.0000	0.8956
D:\GC-21\Data\2023\092723\092716.D	Calibration	3	x	11255	40.0000	1.0090
D:\GC-21\Data\2023\092723\092717.D	Calibration	4	x	27867	100.0000	1.0489
D:\GC-21\Data\2023\092723\092718.D	Calibration	5	x	56198	200.0000	1.0191
D:\GC-21\Data\2023\092723\092719.D	Calibration	6	x	151651	500.0000	1.1112
D:\GC-21\Data\2023\092723\092720.D	Calibration	7	x	217932	750.0000	1.0245
D:\GC-21\Data\2023\092723\092721.D	Calibration	8	x	293477	1000.0000	1.0363
D:\GC-21\Data\2023\092723\092722.D	Calibration	9	x	571238	2000.0000	1.0066
D:\GC-21\Data\2023\092723\092723.D	Calibration	10	x	1424284	5000.0000	1.0011

Calibration Report

Batch Path	D:\GC-21\Data\2023\092723\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\gc1821
Analysis Time	9/28/2023 10:36:05 AM	Reporter Name	gc1821
Report Time	9/28/2023 10:47:46 AM	Batch State	Processed
Last Calib Update	9/28/2023 10:13:23 AM		

Acenaphthene

Acenaphthene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



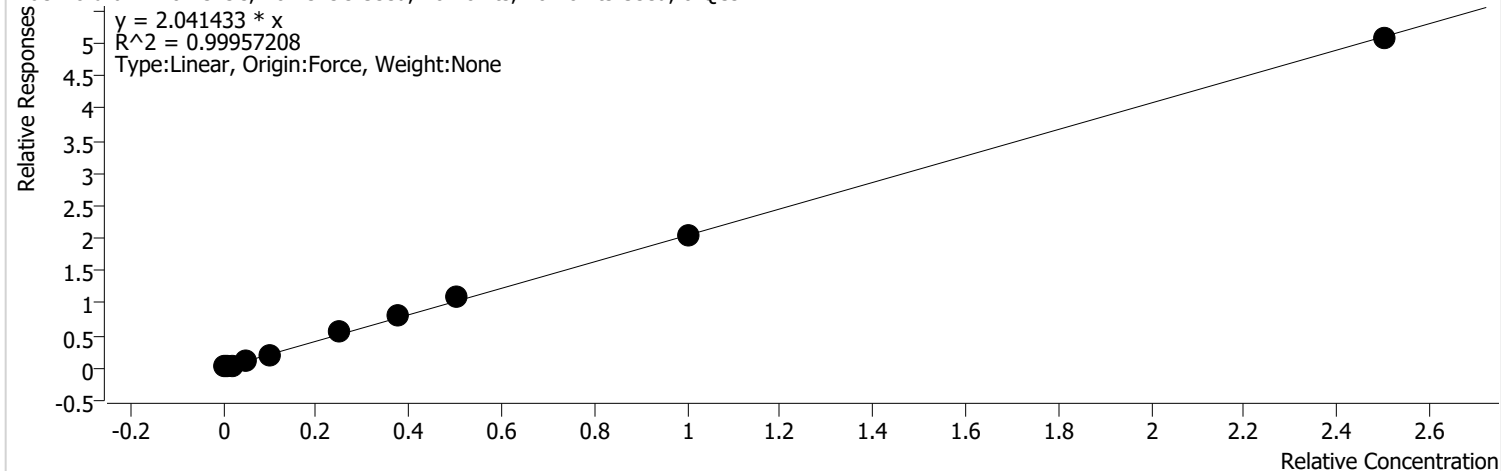
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-21\Data\2023\092723\092714.D	Calibration	1	x	1810	10.0000	0.6190
D:\GC-21\Data\2023\092723\092715.D	Calibration	2	x	3220	20.0000	0.5952
D:\GC-21\Data\2023\092723\092716.D	Calibration	3	x	7273	40.0000	0.6520
D:\GC-21\Data\2023\092723\092717.D	Calibration	4	x	18239	100.0000	0.6865
D:\GC-21\Data\2023\092723\092718.D	Calibration	5	x	36755	200.0000	0.6665
D:\GC-21\Data\2023\092723\092719.D	Calibration	6	x	97913	500.0000	0.7175
D:\GC-21\Data\2023\092723\092720.D	Calibration	7	x	141145	750.0000	0.6635
D:\GC-21\Data\2023\092723\092721.D	Calibration	8	x	189995	1000.0000	0.6709
D:\GC-21\Data\2023\092723\092722.D	Calibration	9	x	368810	2000.0000	0.6499
D:\GC-21\Data\2023\092723\092723.D	Calibration	10	x	922366	5000.0000	0.6483

Calibration Report

Batch Path	D:\GC-21\Data\2023\092723\QuantResults\PAH ICAL.batch.bin		
Analysis Time	9/28/2023 10:36:05 AM	Analyst Name	FA\gc1821
Report Time	9/28/2023 10:47:46 AM	Reporter Name	gc1821
Last Calib Update	9/28/2023 10:13:23 AM	Batch State	Processed

Dibenzofuran

Dibenzofuran - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



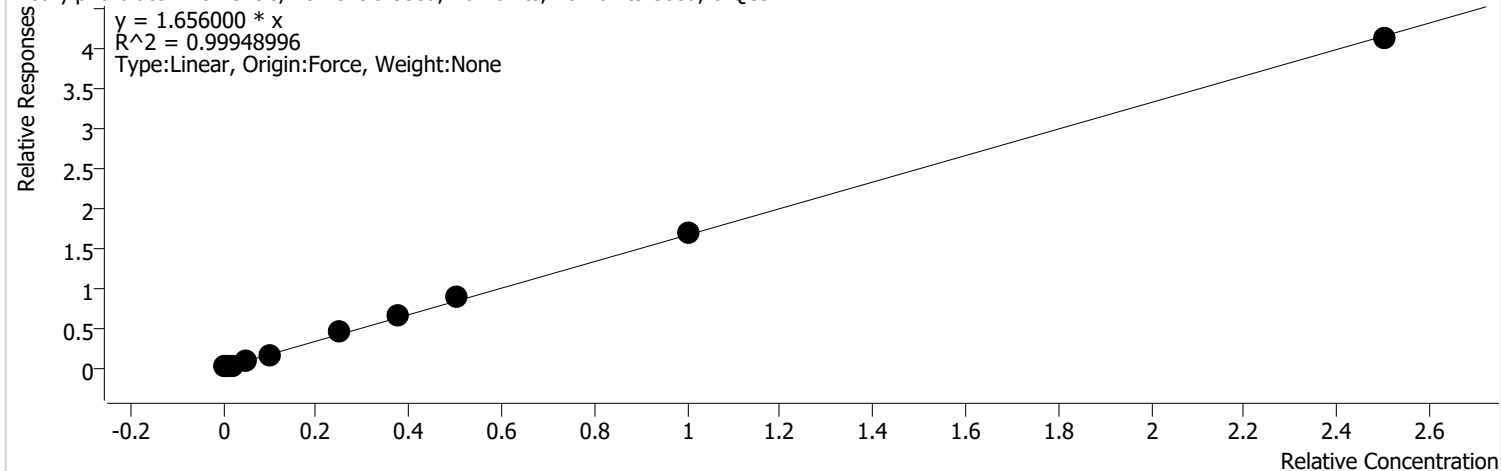
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-21\Data\2023\092723\092714.D	Calibration	1	x	2510	10.0000	2.0218
D:\GC-21\Data\2023\092723\092715.D	Calibration	2	x	4331	20.0000	1.7184
D:\GC-21\Data\2023\092723\092716.D	Calibration	3	x	10198	40.0000	1.9744
D:\GC-21\Data\2023\092723\092717.D	Calibration	4	x	25228	100.0000	2.0827
D:\GC-21\Data\2023\092723\092718.D	Calibration	5	x	51113	200.0000	2.0539
D:\GC-21\Data\2023\092723\092719.D	Calibration	6	x	138813	500.0000	2.2845
D:\GC-21\Data\2023\092723\092720.D	Calibration	7	x	199886	750.0000	2.1260
D:\GC-21\Data\2023\092723\092721.D	Calibration	8	x	268026	1000.0000	2.1593
D:\GC-21\Data\2023\092723\092722.D	Calibration	9	x	518807	2000.0000	2.0612
D:\GC-21\Data\2023\092723\092723.D	Calibration	10	x	1283137	5000.0000	2.0292

Calibration Report

Batch Path	D:\GC-21\Data\2023\092723\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\gc1821
Analysis Time	9/28/2023 10:36:05 AM	Reporter Name	gc1821
Report Time	9/28/2023 10:47:46 AM	Batch State	Processed
Last Calib Update	9/28/2023 10:13:23 AM		

Diethylphthalate

Diethylphthalate - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



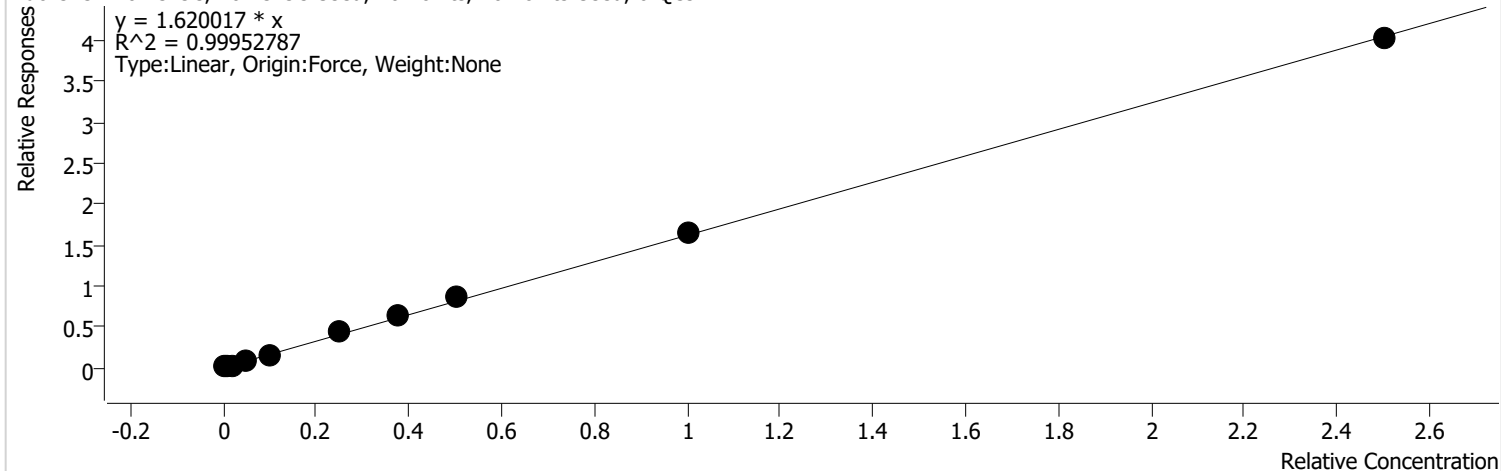
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-21\Data\2023\092723\092714.D	Calibration	1	x	2166	10.0000	1.7446
D:\GC-21\Data\2023\092723\092715.D	Calibration	2	x	3582	20.0000	1.4214
D:\GC-21\Data\2023\092723\092716.D	Calibration	3	x	8061	40.0000	1.5607
D:\GC-21\Data\2023\092723\092717.D	Calibration	4	x	19968	100.0000	1.6485
D:\GC-21\Data\2023\092723\092718.D	Calibration	5	x	41006	200.0000	1.6478
D:\GC-21\Data\2023\092723\092719.D	Calibration	6	x	111493	500.0000	1.8349
D:\GC-21\Data\2023\092723\092720.D	Calibration	7	x	161762	750.0000	1.7205
D:\GC-21\Data\2023\092723\092721.D	Calibration	8	x	218007	1000.0000	1.7564
D:\GC-21\Data\2023\092723\092722.D	Calibration	9	x	425874	2000.0000	1.6920
D:\GC-21\Data\2023\092723\092723.D	Calibration	10	x	1038940	5000.0000	1.6430

Calibration Report

Batch Path	D:\GC-21\Data\2023\092723\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\gc1821
Analysis Time	9/28/2023 10:36:05 AM	Reporter Name	gc1821
Report Time	9/28/2023 10:47:46 AM	Batch State	Processed
Last Calib Update	9/28/2023 10:13:23 AM		

Fluorene

Fluorene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs

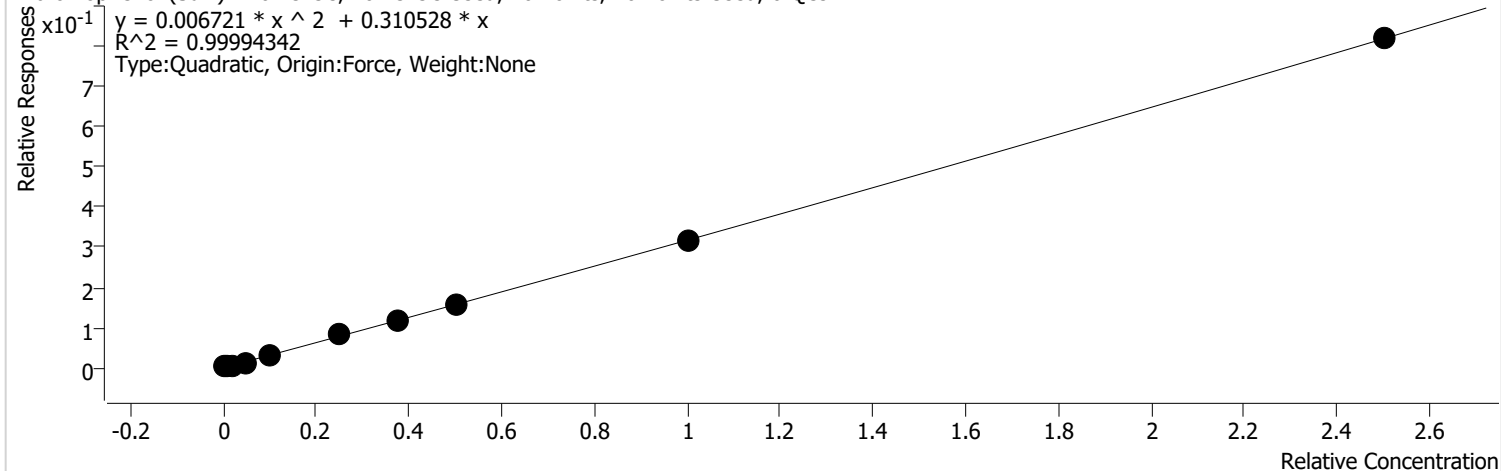


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-21\Data\2023\092723\092714.D	Calibration	1	x	2065	10.0000	1.6632
D:\GC-21\Data\2023\092723\092715.D	Calibration	2	x	3537	20.0000	1.4037
D:\GC-21\Data\2023\092723\092716.D	Calibration	3	x	8169	40.0000	1.5815
D:\GC-21\Data\2023\092723\092717.D	Calibration	4	x	20247	100.0000	1.6715
D:\GC-21\Data\2023\092723\092718.D	Calibration	5	x	41234	200.0000	1.6570
D:\GC-21\Data\2023\092723\092719.D	Calibration	6	x	111004	500.0000	1.8269
D:\GC-21\Data\2023\092723\092720.D	Calibration	7	x	158714	750.0000	1.6881
D:\GC-21\Data\2023\092723\092721.D	Calibration	8	x	212957	1000.0000	1.7157
D:\GC-21\Data\2023\092723\092722.D	Calibration	9	x	412161	2000.0000	1.6375
D:\GC-21\Data\2023\092723\092723.D	Calibration	10	x	1017887	5000.0000	1.6097

Batch Path	D:\GC-21\Data\2023\092723\QuantResults\PAH ICAL.batch.bin		
Analysis Time	9/28/2023 10:36:05 AM	Analyst Name	FA\gc1821
Report Time	9/28/2023 10:47:46 AM	Reporter Name	gc1821
Last Calib Update	9/28/2023 10:13:23 AM	Batch State	Processed

Tribromophenol (Surr)

Tribromophenol (Surr) - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



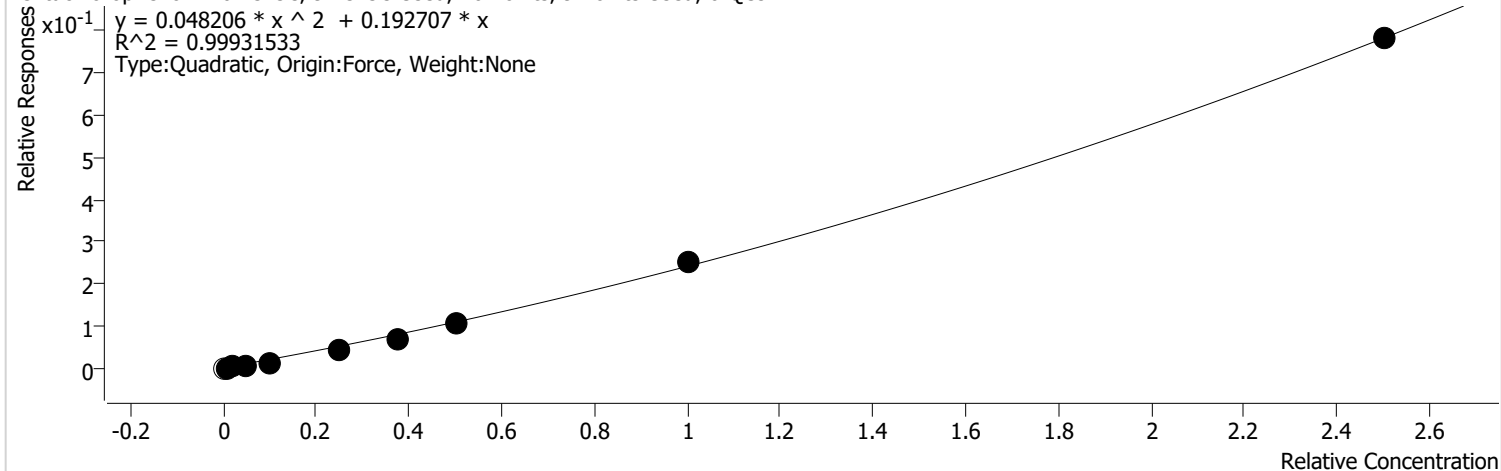
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-21\Data\2023\092723\092714.D	Calibration	1	x	343	10.0000	0.2767
D:\GC-21\Data\2023\092723\092715.D	Calibration	2	x	571	20.0000	0.2267
D:\GC-21\Data\2023\092723\092716.D	Calibration	3	x	1319	40.0000	0.2553
D:\GC-21\Data\2023\092723\092717.D	Calibration	4	x	3409	100.0000	0.2814
D:\GC-21\Data\2023\092723\092718.D	Calibration	5	x	7213	200.0000	0.2898
D:\GC-21\Data\2023\092723\092719.D	Calibration	6	x	19908	500.0000	0.3276
D:\GC-21\Data\2023\092723\092720.D	Calibration	7	x	28855	750.0000	0.3069
D:\GC-21\Data\2023\092723\092721.D	Calibration	8	x	39395	1000.0000	0.3174
D:\GC-21\Data\2023\092723\092722.D	Calibration	9	x	79631	2000.0000	0.3164
D:\GC-21\Data\2023\092723\092723.D	Calibration	10	x	207006	5000.0000	0.3274

Calibration Report

Batch Path	D:\GC-21\Data\2023\092723\QuantResults\PAH ICAL.batch.bin		
Analysis Time	9/28/2023 10:36:05 AM	Analyst Name	FA\gc1821
Report Time	9/28/2023 10:47:46 AM	Reporter Name	gc1821
Last Calib Update	9/28/2023 10:13:23 AM	Batch State	Processed

Pentachlorophenol

Pentachlorophenol - 10 Levels, 9 Levels Used, 10 Points, 9 Points Used, 0 QCs



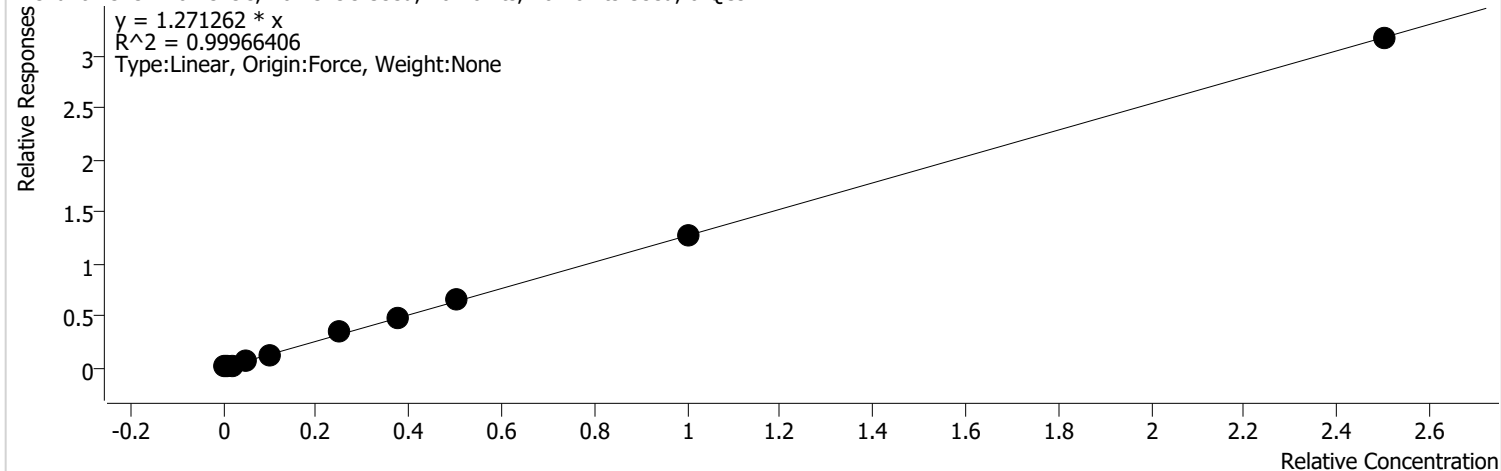
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-21\Data\2023\092723\092714.D	Calibration	1		0	10.0000	0.0000
D:\GC-21\Data\2023\092723\092715.D	Calibration	2	x	264	20.0000	0.1049
D:\GC-21\Data\2023\092723\092716.D	Calibration	3	x	385	40.0000	0.0746
D:\GC-21\Data\2023\092723\092717.D	Calibration	4	x	995	100.0000	0.0822
D:\GC-21\Data\2023\092723\092718.D	Calibration	5	x	2652	200.0000	0.1066
D:\GC-21\Data\2023\092723\092719.D	Calibration	6	x	10903	500.0000	0.1794
D:\GC-21\Data\2023\092723\092720.D	Calibration	7	x	17487	750.0000	0.1860
D:\GC-21\Data\2023\092723\092721.D	Calibration	8	x	26644	1000.0000	0.2147
D:\GC-21\Data\2023\092723\092722.D	Calibration	9	x	63165	2000.0000	0.2510
D:\GC-21\Data\2023\092723\092723.D	Calibration	10	x	197741	5000.0000	0.3127

Calibration Report

Batch Path	D:\GC-21\Data\2023\092723\QuantResults\PAH ICAL.batch.bin		
Analysis Time	9/28/2023 10:36:05 AM	Analyst Name	FA\gc1821
Report Time	9/28/2023 10:47:46 AM	Reporter Name	gc1821
Last Calib Update	9/28/2023 10:13:23 AM	Batch State	Processed

Phenanthrene

Phenanthrene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



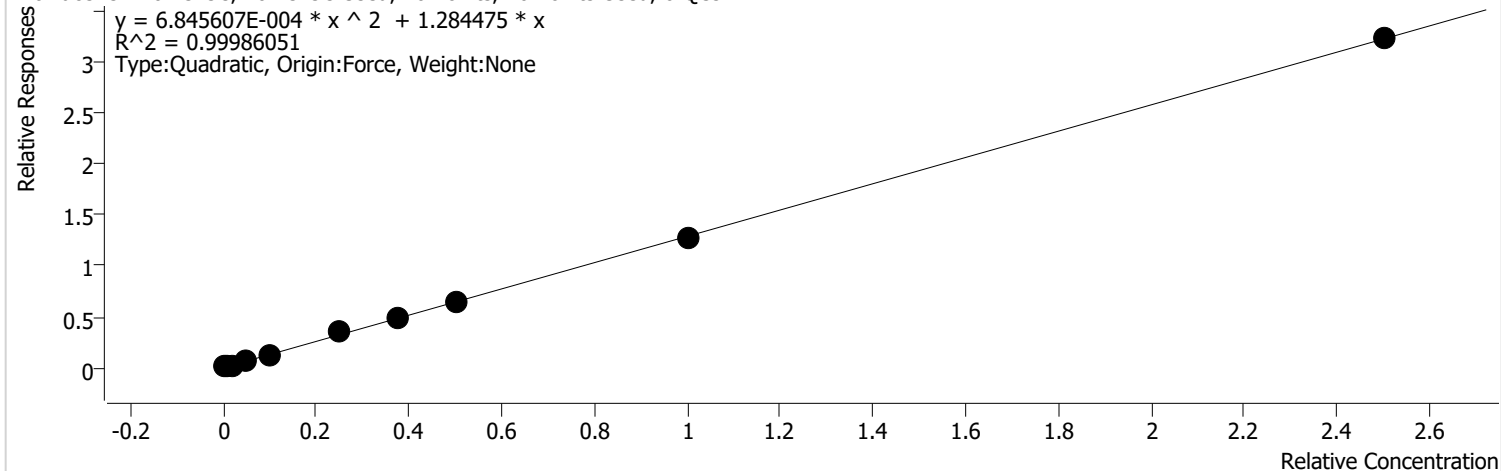
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-21\Data\2023\092723\092714.D	Calibration	1	x	3480	10.0000	1.6138
D:\GC-21\Data\2023\092723\092715.D	Calibration	2	x	4702	20.0000	1.0741
D:\GC-21\Data\2023\092723\092716.D	Calibration	3	x	11313	40.0000	1.2621
D:\GC-21\Data\2023\092723\092717.D	Calibration	4	x	28495	100.0000	1.3427
D:\GC-21\Data\2023\092723\092718.D	Calibration	5	x	58107	200.0000	1.3255
D:\GC-21\Data\2023\092723\092719.D	Calibration	6	x	153988	500.0000	1.4249
D:\GC-21\Data\2023\092723\092720.D	Calibration	7	x	220582	750.0000	1.3078
D:\GC-21\Data\2023\092723\092721.D	Calibration	8	x	298382	1000.0000	1.3360
D:\GC-21\Data\2023\092723\092722.D	Calibration	9	x	577607	2000.0000	1.2687
D:\GC-21\Data\2023\092723\092723.D	Calibration	10	x	1426050	5000.0000	1.2666

Calibration Report

Batch Path	D:\GC-21\Data\2023\092723\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\gc1821
Analysis Time	9/28/2023 10:36:05 AM	Reporter Name	gc1821
Report Time	9/28/2023 10:47:46 AM	Batch State	Processed
Last Calib Update	9/28/2023 10:13:23 AM		

Anthracene

Anthracene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



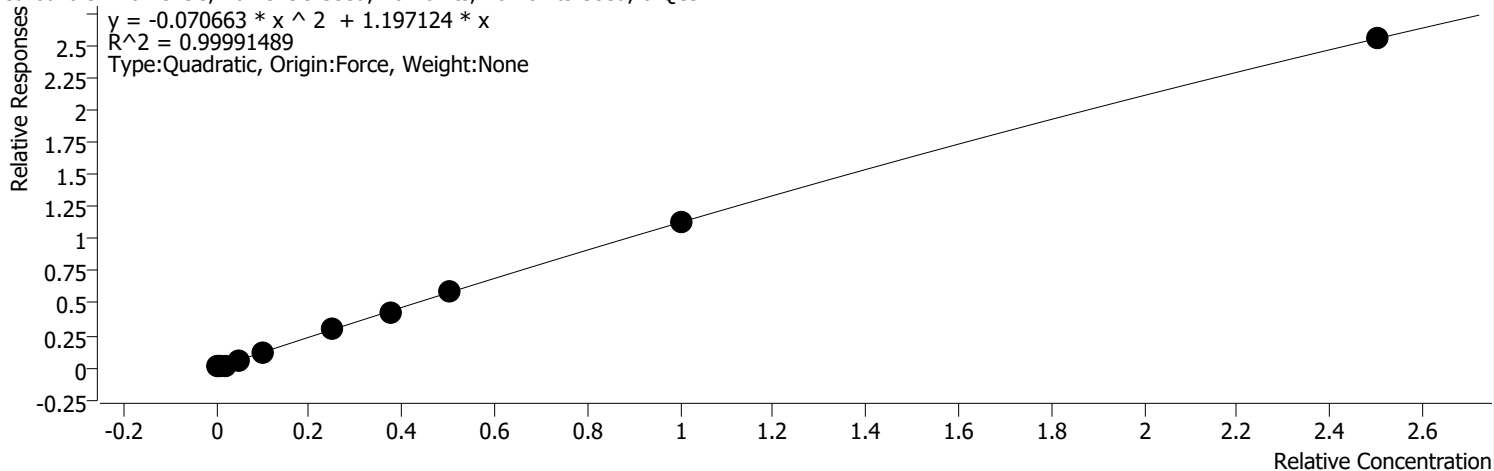
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-21\Data\2023\092723\092714.D	Calibration	1	x	2784	10.0000	1.2913
D:\GC-21\Data\2023\092723\092715.D	Calibration	2	x	4775	20.0000	1.0908
D:\GC-21\Data\2023\092723\092716.D	Calibration	3	x	10727	40.0000	1.1967
D:\GC-21\Data\2023\092723\092717.D	Calibration	4	x	26803	100.0000	1.2630
D:\GC-21\Data\2023\092723\092718.D	Calibration	5	x	55376	200.0000	1.2632
D:\GC-21\Data\2023\092723\092719.D	Calibration	6	x	150698	500.0000	1.3944
D:\GC-21\Data\2023\092723\092720.D	Calibration	7	x	217304	750.0000	1.2883
D:\GC-21\Data\2023\092723\092721.D	Calibration	8	x	292172	1000.0000	1.3082
D:\GC-21\Data\2023\092723\092722.D	Calibration	9	x	576775	2000.0000	1.2669
D:\GC-21\Data\2023\092723\092723.D	Calibration	10	x	1449060	5000.0000	1.2870

Calibration Report

Batch Path	D:\GC-21\Data\2023\092723\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\gc1821
Analysis Time	9/28/2023 10:36:05 AM	Reporter Name	gc1821
Report Time	9/28/2023 10:47:46 AM	Batch State	Processed
Last Calib Update	9/28/2023 10:13:23 AM		

Carbazole

Carbazole - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



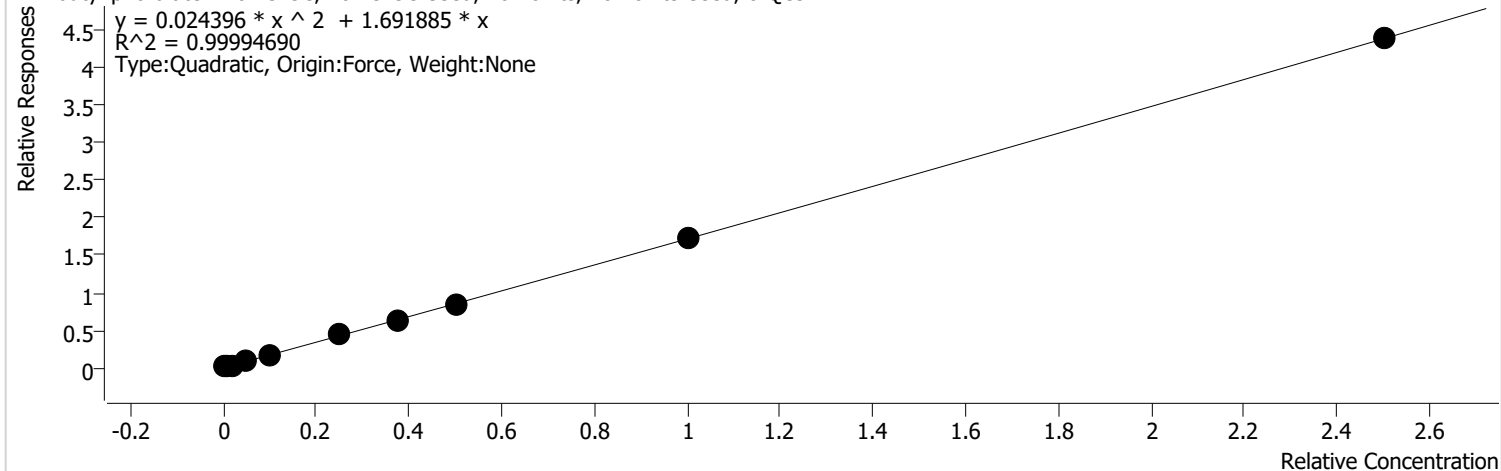
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-21\Data\2023\092723\092714.D	Calibration	1	x	2963	10.0000	1.3741
D:\GC-21\Data\2023\092723\092715.D	Calibration	2	x	4070	20.0000	0.9297
D:\GC-21\Data\2023\092723\092716.D	Calibration	3	x	9592	40.0000	1.0700
D:\GC-21\Data\2023\092723\092717.D	Calibration	4	x	23584	100.0000	1.1113
D:\GC-21\Data\2023\092723\092718.D	Calibration	5	x	47818	200.0000	1.0908
D:\GC-21\Data\2023\092723\092719.D	Calibration	6	x	132909	500.0000	1.2298
D:\GC-21\Data\2023\092723\092720.D	Calibration	7	x	191478	750.0000	1.1352
D:\GC-21\Data\2023\092723\092721.D	Calibration	8	x	261427	1000.0000	1.1706
D:\GC-21\Data\2023\092723\092722.D	Calibration	9	x	513514	2000.0000	1.1279
D:\GC-21\Data\2023\092723\092723.D	Calibration	10	x	1148824	5000.0000	1.0204

Calibration Report

Batch Path	D:\GC-21\Data\2023\092723\QuantResults\PAH ICAL.batch.bin		
Analysis Time	9/28/2023 10:36:05 AM	Analyst Name	FA\gc1821
Report Time	9/28/2023 10:47:46 AM	Reporter Name	gc1821
Last Calib Update	9/28/2023 10:13:23 AM	Batch State	Processed

Di-n-butyl phthalate

Di-n-butyl phthalate - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



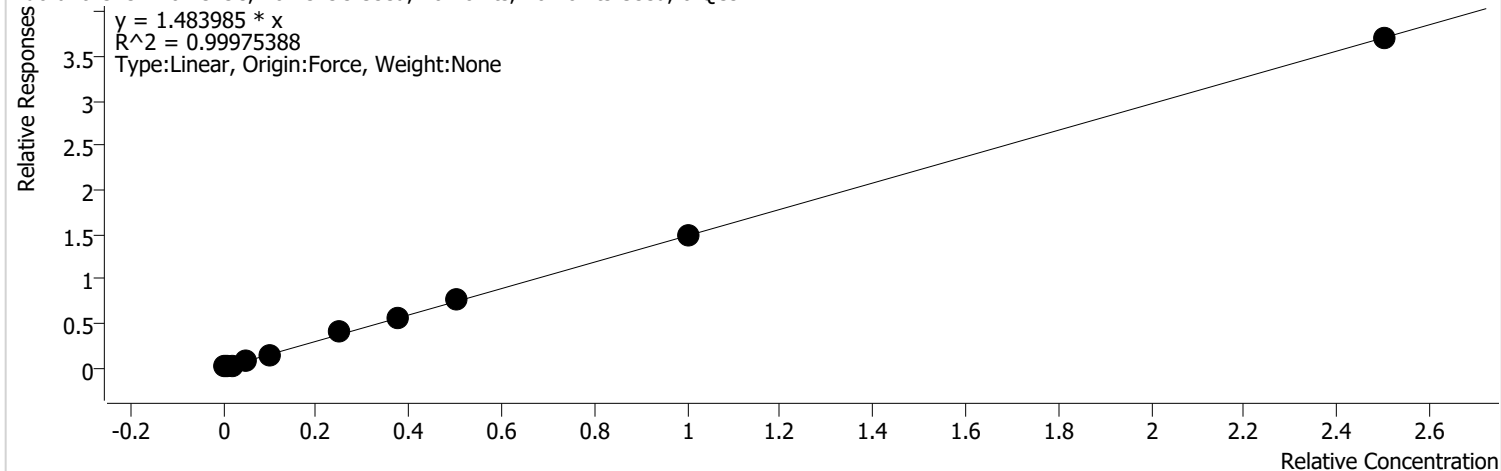
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-21\Data\2023\092723\092714.D	Calibration	1	x	4172	10.0000	1.9347
D:\GC-21\Data\2023\092723\092715.D	Calibration	2	x	6236	20.0000	1.4245
D:\GC-21\Data\2023\092723\092716.D	Calibration	3	x	13869	40.0000	1.5472
D:\GC-21\Data\2023\092723\092717.D	Calibration	4	x	33752	100.0000	1.5904
D:\GC-21\Data\2023\092723\092718.D	Calibration	5	x	69948	200.0000	1.5956
D:\GC-21\Data\2023\092723\092719.D	Calibration	6	x	194373	500.0000	1.7986
D:\GC-21\Data\2023\092723\092720.D	Calibration	7	x	282459	750.0000	1.6746
D:\GC-21\Data\2023\092723\092721.D	Calibration	8	x	381063	1000.0000	1.7062
D:\GC-21\Data\2023\092723\092722.D	Calibration	9	x	780128	2000.0000	1.7135
D:\GC-21\Data\2023\092723\092723.D	Calibration	10	x	1973698	5000.0000	1.7530

Calibration Report

Batch Path	D:\GC-21\Data\2023\092723\QuantResults\PAH ICAL.batch.bin		
Analysis Time	9/28/2023 10:36:05 AM	Analyst Name	FA\gc1821
Report Time	9/28/2023 10:47:46 AM	Reporter Name	gc1821
Last Calib Update	9/28/2023 10:13:23 AM	Batch State	Processed

Fluoranthene

Fluoranthene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



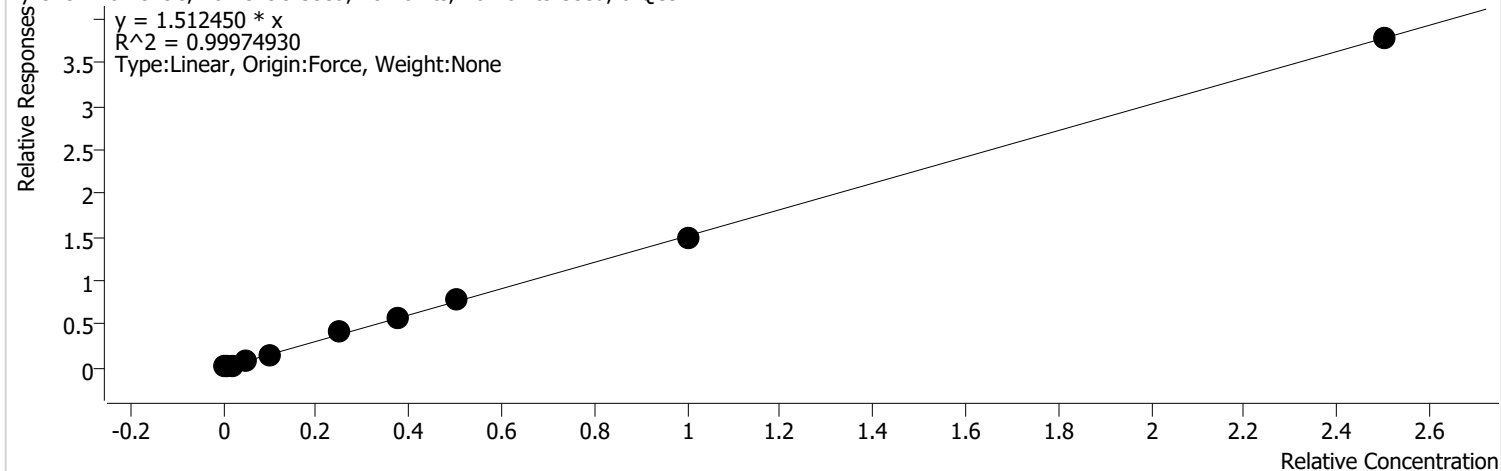
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-21\Data\2023\092723\092714.D	Calibration	1	x	3402	10.0000	1.5776
D:\GC-21\Data\2023\092723\092715.D	Calibration	2	x	5613	20.0000	1.2823
D:\GC-21\Data\2023\092723\092716.D	Calibration	3	x	12813	40.0000	1.4294
D:\GC-21\Data\2023\092723\092717.D	Calibration	4	x	31979	100.0000	1.5069
D:\GC-21\Data\2023\092723\092718.D	Calibration	5	x	65640	200.0000	1.4973
D:\GC-21\Data\2023\092723\092719.D	Calibration	6	x	178791	500.0000	1.6544
D:\GC-21\Data\2023\092723\092720.D	Calibration	7	x	255964	750.0000	1.5175
D:\GC-21\Data\2023\092723\092721.D	Calibration	8	x	344069	1000.0000	1.5406
D:\GC-21\Data\2023\092723\092722.D	Calibration	9	x	674063	2000.0000	1.4806
D:\GC-21\Data\2023\092723\092723.D	Calibration	10	x	1666058	5000.0000	1.4798

Calibration Report

Batch Path	D:\GC-21\Data\2023\092723\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\gc1821
Analysis Time	9/28/2023 10:36:05 AM	Reporter Name	gc1821
Report Time	9/28/2023 10:47:46 AM	Batch State	Processed
Last Calib Update	9/28/2023 10:13:23 AM		

Pyrene

Pyrene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



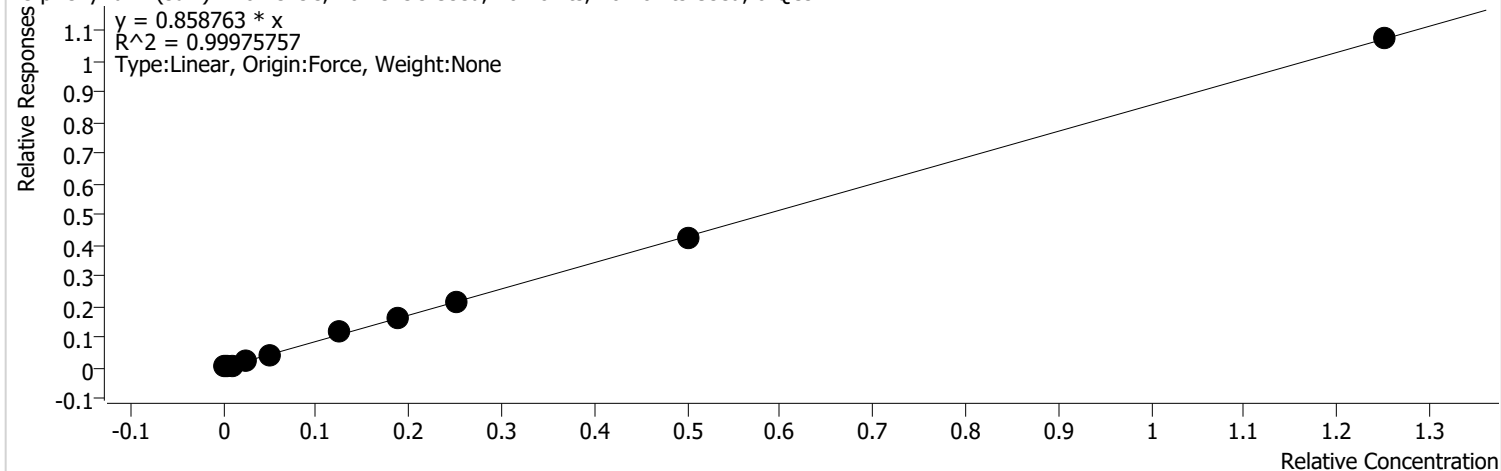
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-21\Data\2023\092723\092714.D	Calibration	1	x	3675	10.0000	1.7041
D:\GC-21\Data\2023\092723\092715.D	Calibration	2	x	5785	20.0000	1.3215
D:\GC-21\Data\2023\092723\092716.D	Calibration	3	x	13147	40.0000	1.4667
D:\GC-21\Data\2023\092723\092717.D	Calibration	4	x	33082	100.0000	1.5588
D:\GC-21\Data\2023\092723\092718.D	Calibration	5	x	67687	200.0000	1.5440
D:\GC-21\Data\2023\092723\092719.D	Calibration	6	x	181447	500.0000	1.6789
D:\GC-21\Data\2023\092723\092720.D	Calibration	7	x	260173	750.0000	1.5425
D:\GC-21\Data\2023\092723\092721.D	Calibration	8	x	351108	1000.0000	1.5721
D:\GC-21\Data\2023\092723\092722.D	Calibration	9	x	681006	2000.0000	1.4958
D:\GC-21\Data\2023\092723\092723.D	Calibration	10	x	1700438	5000.0000	1.5103

Calibration Report

Batch Path	D:\GC-21\Data\2023\092723\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\gc1821
Analysis Time	9/28/2023 10:36:05 AM	Reporter Name	gc1821
Report Time	9/28/2023 10:47:46 AM	Batch State	Processed
Last Calib Update	9/28/2023 10:13:23 AM		

Terphenyl-d14 (surr)

Terphenyl-d14 (surr) - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



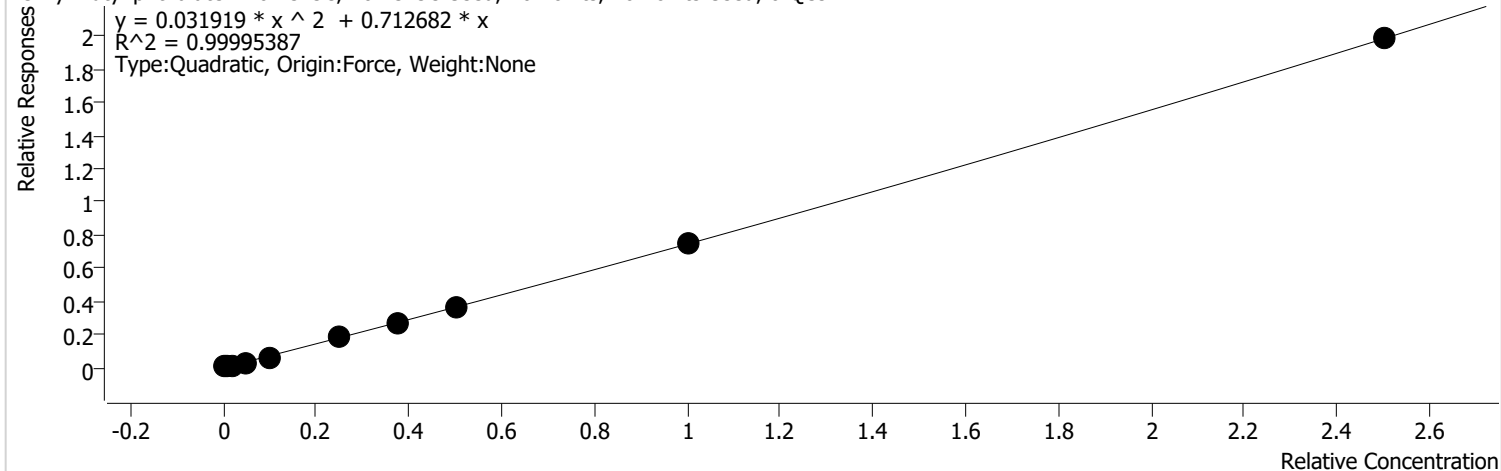
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-21\Data\2023\092723\092714.D	Calibration	1	x	921	5.0000	0.8541
D:\GC-21\Data\2023\092723\092715.D	Calibration	2	x	1593	10.0000	0.7277
D:\GC-21\Data\2023\092723\092716.D	Calibration	3	x	3798	20.0000	0.8474
D:\GC-21\Data\2023\092723\092717.D	Calibration	4	x	9298	50.0000	0.8762
D:\GC-21\Data\2023\092723\092718.D	Calibration	5	x	19142	100.0000	0.8733
D:\GC-21\Data\2023\092723\092719.D	Calibration	6	x	51394	250.0000	0.9511
D:\GC-21\Data\2023\092723\092720.D	Calibration	7	x	73132	375.0000	0.8672
D:\GC-21\Data\2023\092723\092721.D	Calibration	8	x	97540	500.0000	0.8735
D:\GC-21\Data\2023\092723\092722.D	Calibration	9	x	191225	1000.0000	0.8400
D:\GC-21\Data\2023\092723\092723.D	Calibration	10	x	484145	2500.0000	0.8600

Calibration Report

Batch Path	D:\GC-21\Data\2023\092723\QuantResults\PAH ICAL.batch.bin		
Analysis Time	9/28/2023 10:36:05 AM	Analyst Name	FA\gc1821
Report Time	9/28/2023 10:47:46 AM	Reporter Name	gc1821
Last Calib Update	9/28/2023 10:13:23 AM	Batch State	Processed

Benzyl Butyl phthalate

Benzyl Butyl phthalate - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



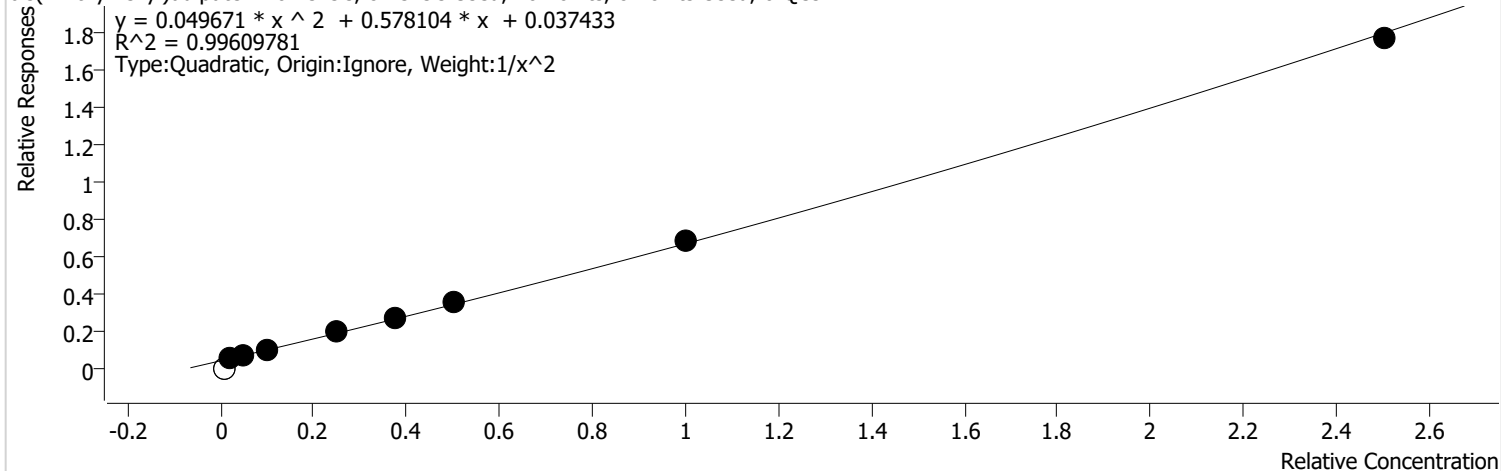
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-21\Data\2023\092723\092714.D	Calibration	1	x	1558	10.0000	0.7227
D:\GC-21\Data\2023\092723\092715.D	Calibration	2	x	2514	20.0000	0.5743
D:\GC-21\Data\2023\092723\092716.D	Calibration	3	x	5650	40.0000	0.6303
D:\GC-21\Data\2023\092723\092717.D	Calibration	4	x	13987	100.0000	0.6591
D:\GC-21\Data\2023\092723\092718.D	Calibration	5	x	28928	200.0000	0.6599
D:\GC-21\Data\2023\092723\092719.D	Calibration	6	x	81610	500.0000	0.7551
D:\GC-21\Data\2023\092723\092720.D	Calibration	7	x	119881	750.0000	0.7107
D:\GC-21\Data\2023\092723\092721.D	Calibration	8	x	164077	1000.0000	0.7347
D:\GC-21\Data\2023\092723\092722.D	Calibration	9	x	338421	2000.0000	0.7433
D:\GC-21\Data\2023\092723\092723.D	Calibration	10	x	892292	5000.0000	0.7925

Calibration Report

Batch Path	D:\GC-21\Data\2023\092723\QuantResults\PAH ICAL.batch.bin		
Analysis Time	9/28/2023 10:36:05 AM	Analyst Name	FA\gc1821
Report Time	9/28/2023 10:47:46 AM	Reporter Name	gc1821
Last Calib Update	9/28/2023 10:13:23 AM	Batch State	Processed

bis(2-Ethylhexyl)adipate

bis(2-Ethylhexyl)adipate - 10 Levels, 8 Levels Used, 10 Points, 8 Points Used, 0 QCs



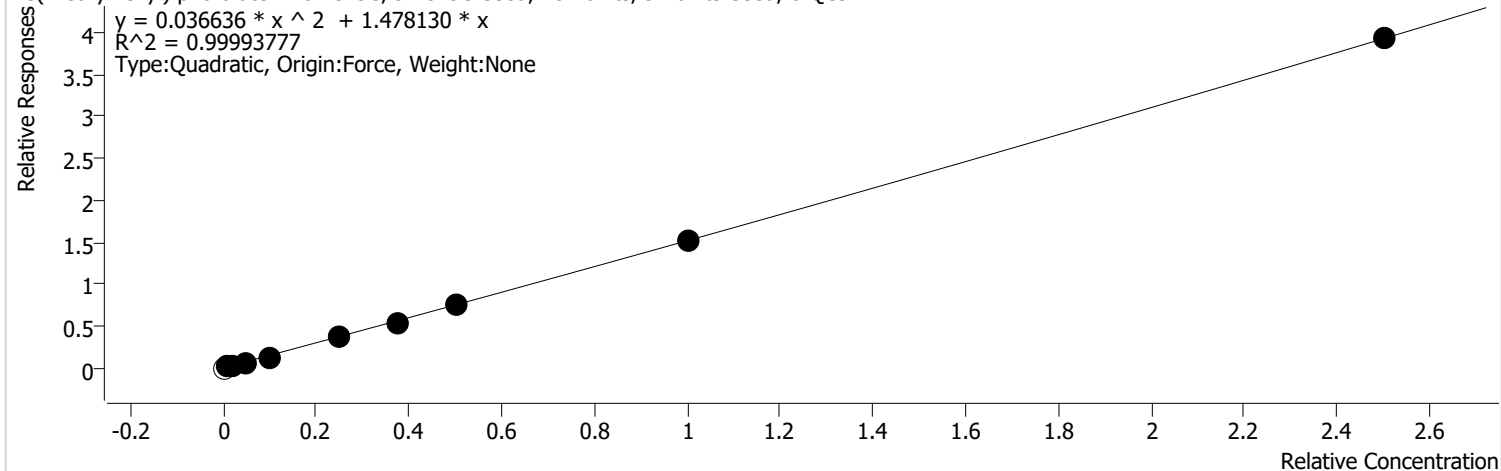
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-21\Data\2023\092723\092714.D	Calibration	1		0	10.0000	0.0000
D:\GC-21\Data\2023\092723\092715.D	Calibration	2		0	20.0000	0.0000
D:\GC-21\Data\2023\092723\092716.D	Calibration	3	x	22150	40.0000	2.4710
D:\GC-21\Data\2023\092723\092717.D	Calibration	4	x	27503	100.0000	1.2960
D:\GC-21\Data\2023\092723\092718.D	Calibration	5	x	39395	200.0000	0.8986
D:\GC-21\Data\2023\092723\092719.D	Calibration	6	x	84861	500.0000	0.7852
D:\GC-21\Data\2023\092723\092720.D	Calibration	7	x	117238	750.0000	0.6951
D:\GC-21\Data\2023\092723\092721.D	Calibration	8	x	157568	1000.0000	0.7055
D:\GC-21\Data\2023\092723\092722.D	Calibration	9	x	308563	2000.0000	0.6777
D:\GC-21\Data\2023\092723\092723.D	Calibration	10	x	794054	5000.0000	0.7053

Calibration Report

Batch Path	D:\GC-21\Data\2023\092723\QuantResults\PAH ICAL.batch.bin		
Analysis Time	9/28/2023 10:36:05 AM	Analyst Name	FA\gc1821
Report Time	9/28/2023 10:47:46 AM	Reporter Name	gc1821
Last Calib Update	9/28/2023 10:13:23 AM	Batch State	Processed

Bis(2-ethylhexyl) phthalate

Bis(2-ethylhexyl) phthalate - 10 Levels, 9 Levels Used, 10 Points, 9 Points Used, 0 QCs



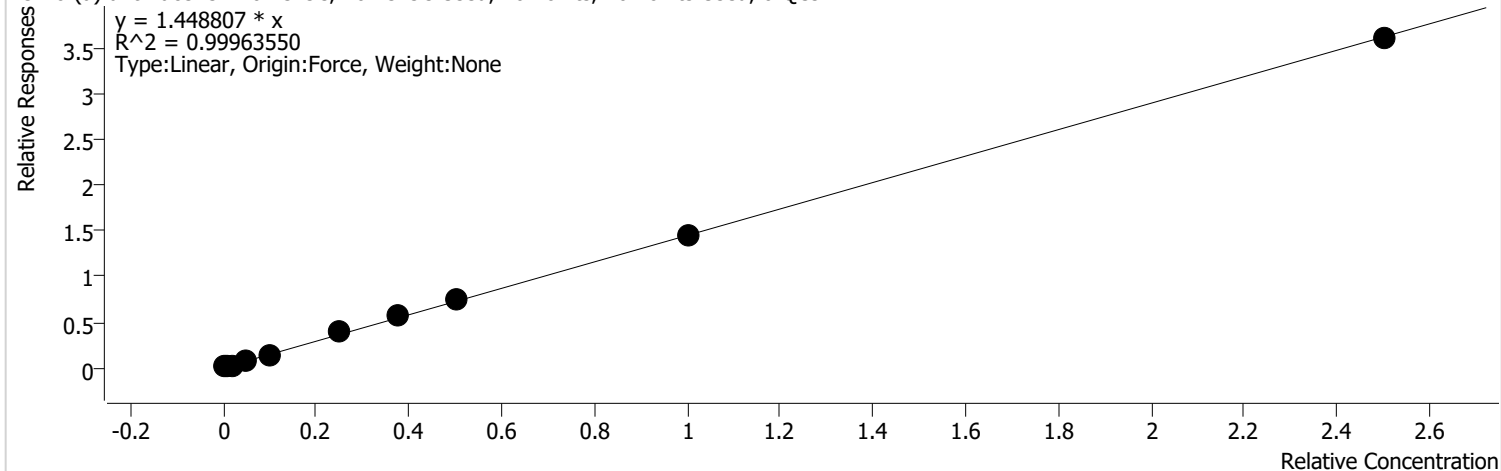
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-21\Data\2023\092723\092714.D	Calibration	1		0	10.0000	0.0000
D:\GC-21\Data\2023\092723\092715.D	Calibration	2	x	4185	20.0000	1.2755
D:\GC-21\Data\2023\092723\092716.D	Calibration	3	x	8887	40.0000	1.3178
D:\GC-21\Data\2023\092723\092717.D	Calibration	4	x	21575	100.0000	1.3388
D:\GC-21\Data\2023\092723\092718.D	Calibration	5	x	44093	200.0000	1.3201
D:\GC-21\Data\2023\092723\092719.D	Calibration	6	x	123990	500.0000	1.5129
D:\GC-21\Data\2023\092723\092720.D	Calibration	7	x	181450	750.0000	1.4439
D:\GC-21\Data\2023\092723\092721.D	Calibration	8	x	247808	1000.0000	1.4980
D:\GC-21\Data\2023\092723\092722.D	Calibration	9	x	501831	2000.0000	1.5247
D:\GC-21\Data\2023\092723\092723.D	Calibration	10	x	1279061	5000.0000	1.5692

Calibration Report

Batch Path	D:\GC-21\Data\2023\092723\QuantResults\PAH ICAL.batch.bin		
Analysis Time	9/28/2023 10:36:05 AM	Analyst Name	FA\gc1821
Report Time	9/28/2023 10:47:46 AM	Reporter Name	gc1821
Last Calib Update	9/28/2023 10:13:23 AM	Batch State	Processed

Benzo (a) anthracene

Benzo (a) anthracene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



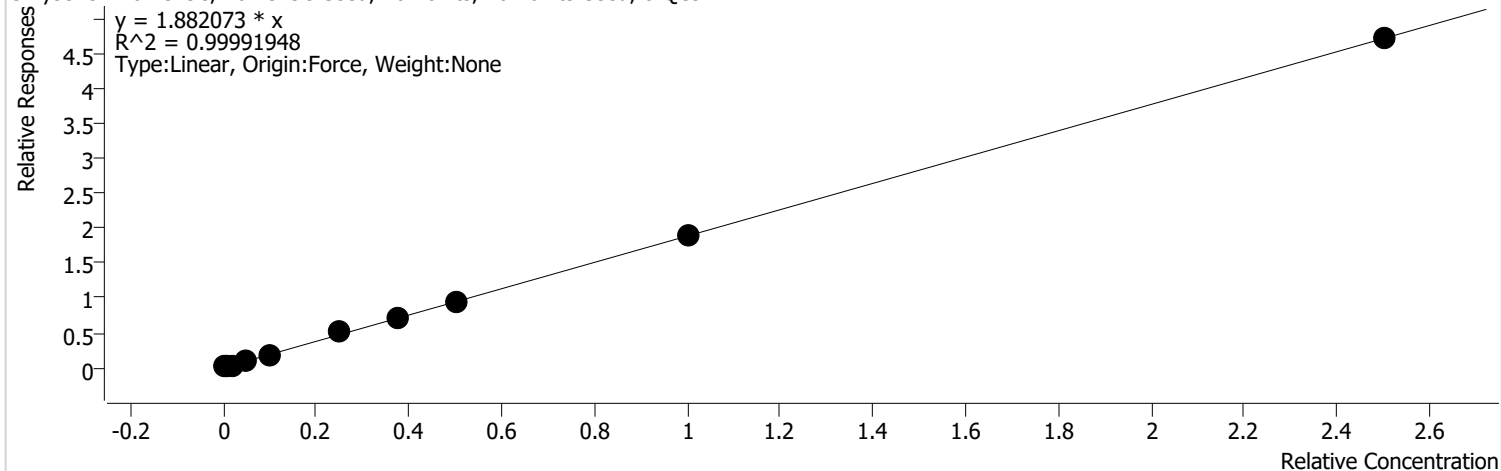
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-21\Data\2023\092723\092714.D	Calibration	1	x	4445	10.0000	2.0613
D:\GC-21\Data\2023\092723\092715.D	Calibration	2	x	6633	20.0000	1.5153
D:\GC-21\Data\2023\092723\092716.D	Calibration	3	x	13473	40.0000	1.5030
D:\GC-21\Data\2023\092723\092717.D	Calibration	4	x	31853	100.0000	1.5009
D:\GC-21\Data\2023\092723\092718.D	Calibration	5	x	64762	200.0000	1.4773
D:\GC-21\Data\2023\092723\092719.D	Calibration	6	x	175029	500.0000	1.6196
D:\GC-21\Data\2023\092723\092720.D	Calibration	7	x	252153	750.0000	1.4949
D:\GC-21\Data\2023\092723\092721.D	Calibration	8	x	340372	1000.0000	1.5240
D:\GC-21\Data\2023\092723\092722.D	Calibration	9	x	665091	2000.0000	1.4609
D:\GC-21\Data\2023\092723\092723.D	Calibration	10	x	1622448	5000.0000	1.4411

Calibration Report

Batch Path	D:\GC-21\Data\2023\092723\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\gc1821
Analysis Time	9/28/2023 10:36:05 AM	Reporter Name	gc1821
Report Time	9/28/2023 10:47:46 AM	Batch State	Processed
Last Calib Update	9/28/2023 10:13:23 AM		

Chrysene

Chrysene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



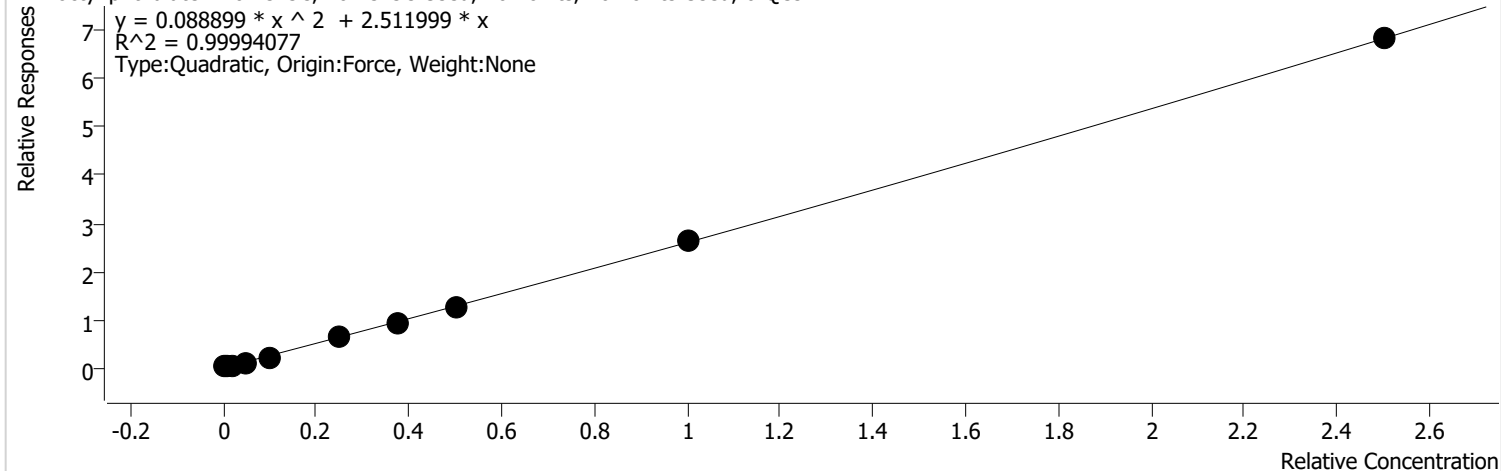
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-21\Data\2023\092723\092714.D	Calibration	1	x	3269	10.0000	2.1001
D:\GC-21\Data\2023\092723\092715.D	Calibration	2	x	5316	20.0000	1.6204
D:\GC-21\Data\2023\092723\092716.D	Calibration	3	x	11939	40.0000	1.7705
D:\GC-21\Data\2023\092723\092717.D	Calibration	4	x	30152	100.0000	1.8710
D:\GC-21\Data\2023\092723\092718.D	Calibration	5	x	61371	200.0000	1.8374
D:\GC-21\Data\2023\092723\092719.D	Calibration	6	x	165320	500.0000	2.0173
D:\GC-21\Data\2023\092723\092720.D	Calibration	7	x	235526	750.0000	1.8742
D:\GC-21\Data\2023\092723\092721.D	Calibration	8	x	317023	1000.0000	1.9163
D:\GC-21\Data\2023\092723\092722.D	Calibration	9	x	617175	2000.0000	1.8752
D:\GC-21\Data\2023\092723\092723.D	Calibration	10	x	1532961	5000.0000	1.8807

Calibration Report

Batch Path	D:\GC-21\Data\2023\092723\QuantResults\PAH ICAL.batch.bin		
Analysis Time	9/28/2023 10:36:05 AM	Analyst Name	FA\gc1821
Report Time	9/28/2023 10:47:46 AM	Reporter Name	gc1821
Last Calib Update	9/28/2023 10:13:23 AM	Batch State	Processed

Di-n-octyl phthalate

Di-n-octyl phthalate - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs

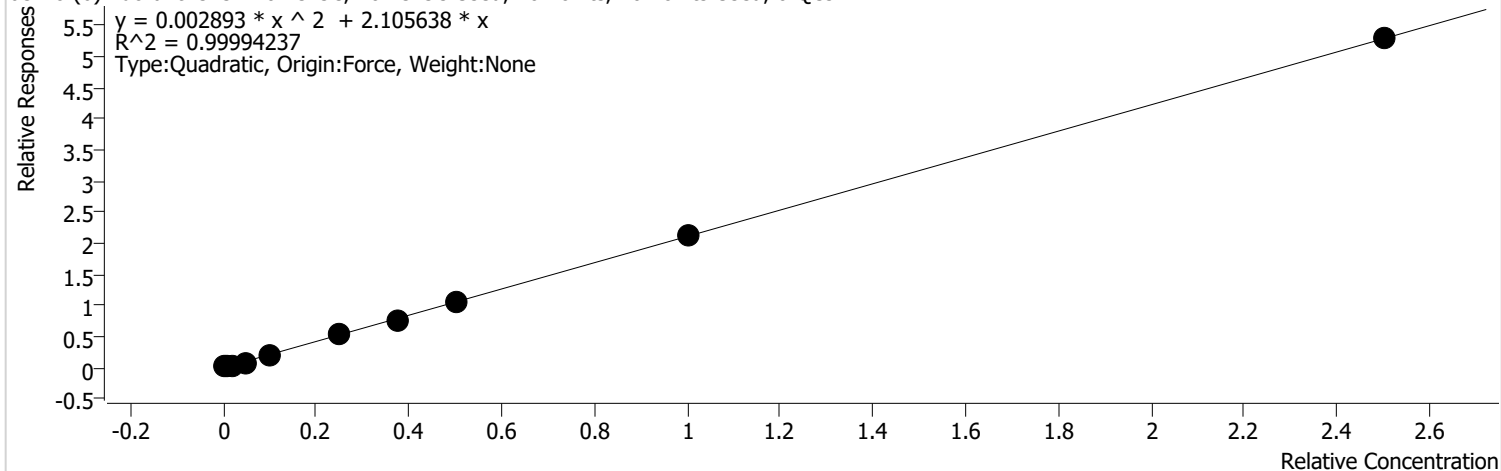


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-21\Data\2023\092723\092714.D	Calibration	1	x	3971	10.0000	2.5514
D:\GC-21\Data\2023\092723\092715.D	Calibration	2	x	6374	20.0000	1.9428
D:\GC-21\Data\2023\092723\092716.D	Calibration	3	x	14776	40.0000	2.1912
D:\GC-21\Data\2023\092723\092717.D	Calibration	4	x	36127	100.0000	2.2418
D:\GC-21\Data\2023\092723\092718.D	Calibration	5	x	75448	200.0000	2.2589
D:\GC-21\Data\2023\092723\092719.D	Calibration	6	x	209681	500.0000	2.5586
D:\GC-21\Data\2023\092723\092720.D	Calibration	7	x	309198	750.0000	2.4604
D:\GC-21\Data\2023\092723\092721.D	Calibration	8	x	423241	1000.0000	2.5584
D:\GC-21\Data\2023\092723\092722.D	Calibration	9	x	862482	2000.0000	2.6205
D:\GC-21\Data\2023\092723\092723.D	Calibration	10	x	2227861	5000.0000	2.7333

Batch Path	D:\GC-21\Data\2023\092723\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\gc1821
Analysis Time	9/28/2023 10:36:05 AM	Reporter Name	gc1821
Report Time	9/28/2023 10:47:46 AM	Batch State	Processed
Last Calib Update	9/28/2023 10:13:23 AM		

benzo (b) fluoranthene

benzo (b) fluoranthene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



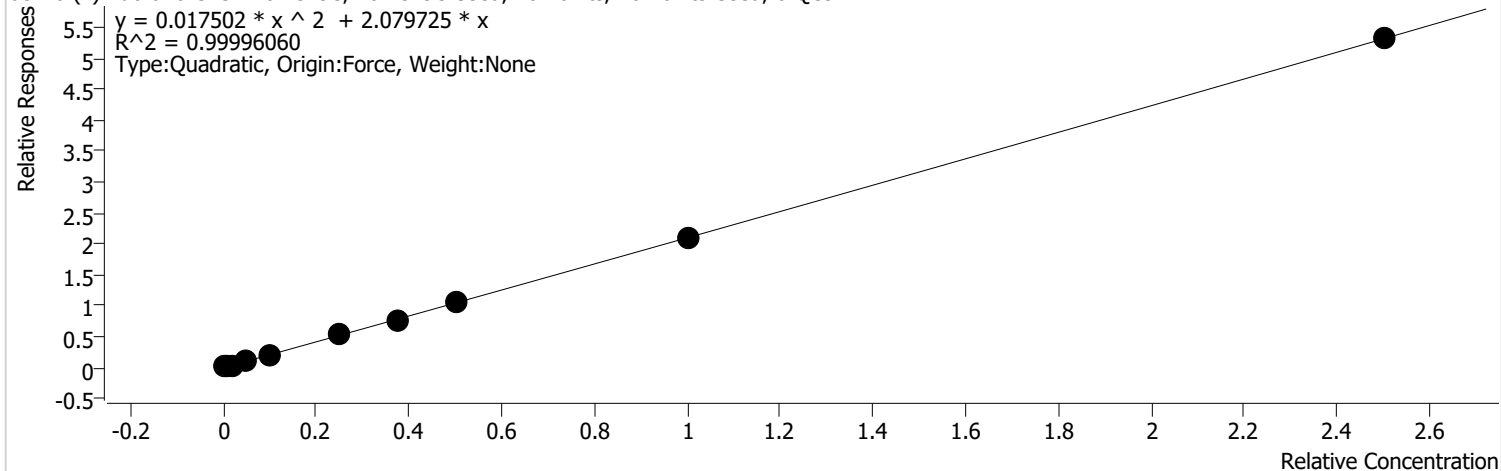
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-21\Data\2023\092723\092714.D	Calibration	1	x	3519	10.0000	2.2607
D:\GC-21\Data\2023\092723\092715.D	Calibration	2	x	5123	20.0000	1.5616
D:\GC-21\Data\2023\092723\092716.D	Calibration	3	x	11866	40.0000	1.7597
D:\GC-21\Data\2023\092723\092717.D	Calibration	4	x	29347	100.0000	1.8211
D:\GC-21\Data\2023\092723\092718.D	Calibration	5	x	62550	200.0000	1.8727
D:\GC-21\Data\2023\092723\092719.D	Calibration	6	x	176694	500.0000	2.1560
D:\GC-21\Data\2023\092723\092720.D	Calibration	7	x	258968	750.0000	2.0607
D:\GC-21\Data\2023\092723\092721.D	Calibration	8	x	352058	1000.0000	2.1281
D:\GC-21\Data\2023\092723\092722.D	Calibration	9	x	694868	2000.0000	2.1112
D:\GC-21\Data\2023\092723\092723.D	Calibration	10	x	1722010	5000.0000	2.1127

Calibration Report

Batch Path	D:\GC-21\Data\2023\092723\QuantResults\PAH ICAL.batch.bin	Analyst Name	FA\gc1821
Analysis Time	9/28/2023 10:36:05 AM	Reporter Name	gc1821
Report Time	9/28/2023 10:47:46 AM	Batch State	Processed
Last Calib Update	9/28/2023 10:13:23 AM		

benzo (k) fluoranthene

benzo (k) fluoranthene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



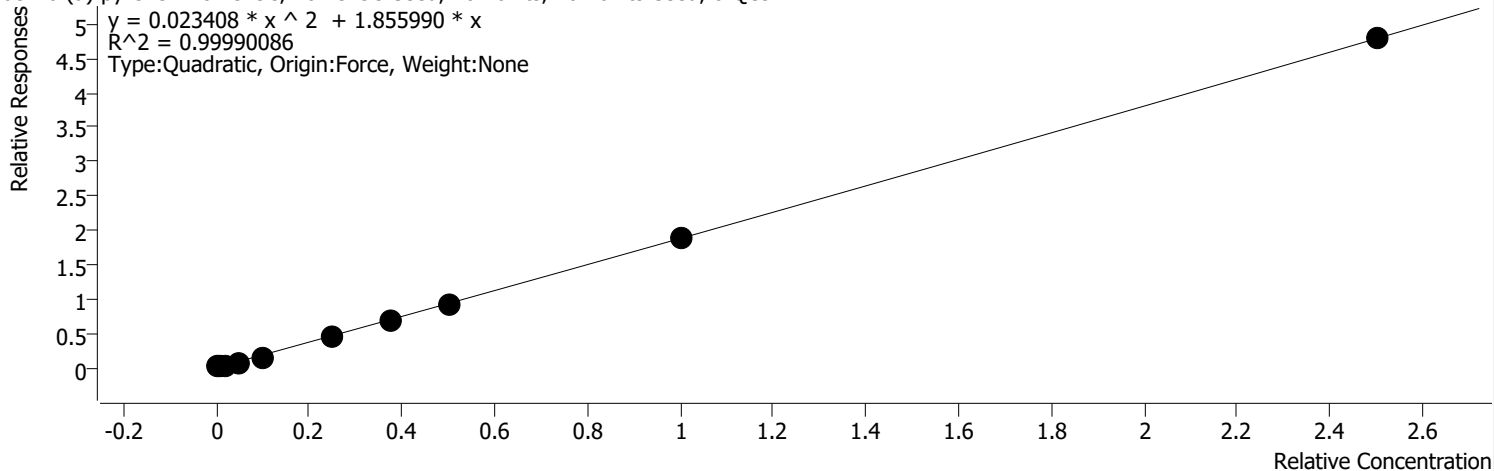
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-21\Data\2023\092723\092714.D	Calibration	1	x	3478	10.0000	2.2344
D:\GC-21\Data\2023\092723\092715.D	Calibration	2	x	5506	20.0000	1.6783
D:\GC-21\Data\2023\092723\092716.D	Calibration	3	x	12397	40.0000	1.8384
D:\GC-21\Data\2023\092723\092717.D	Calibration	4	x	31919	100.0000	1.9807
D:\GC-21\Data\2023\092723\092718.D	Calibration	5	x	65976	200.0000	1.9753
D:\GC-21\Data\2023\092723\092719.D	Calibration	6	x	179380	500.0000	2.1888
D:\GC-21\Data\2023\092723\092720.D	Calibration	7	x	259940	750.0000	2.0685
D:\GC-21\Data\2023\092723\092721.D	Calibration	8	x	346639	1000.0000	2.0954
D:\GC-21\Data\2023\092723\092722.D	Calibration	9	x	688207	2000.0000	2.0910
D:\GC-21\Data\2023\092723\092723.D	Calibration	10	x	1731086	5000.0000	2.1238

Calibration Report

Batch Path	D:\GC-21\Data\2023\092723\QuantResults\PAH ICAL.batch.bin		
Analysis Time	9/28/2023 10:36:05 AM	Analyst Name	FA\gc1821
Report Time	9/28/2023 10:47:46 AM	Reporter Name	gc1821
Last Calib Update	9/28/2023 10:13:23 AM	Batch State	Processed

benzo (a) pyrene

benzo (a) pyrene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



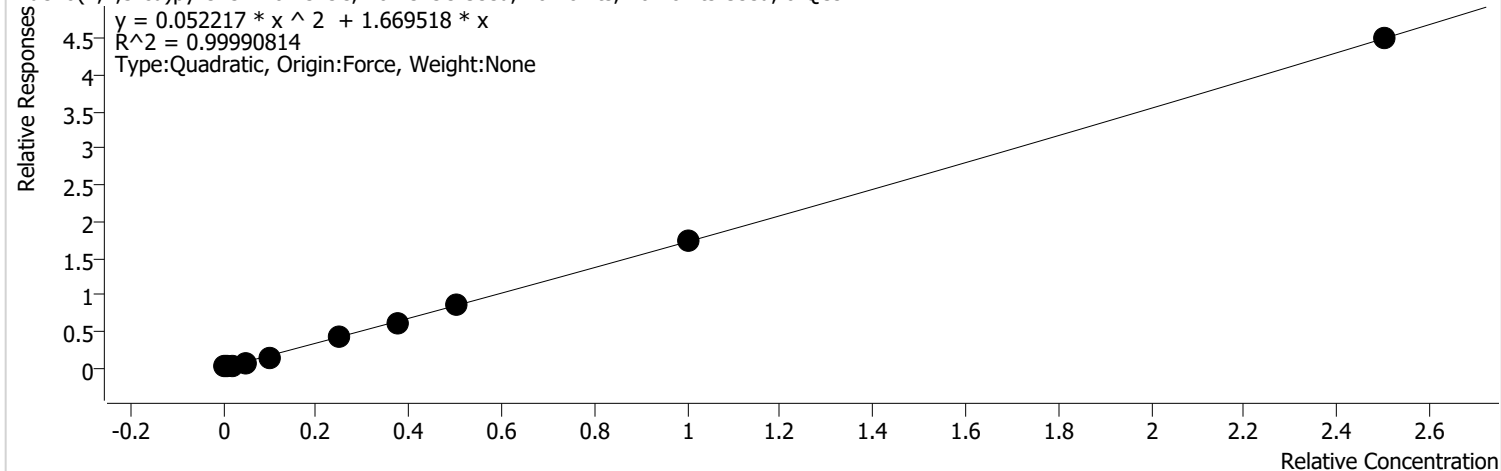
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-21\Data\2023\092723\092714.D	Calibration	1	x	3151	10.0000	2.0240
D:\GC-21\Data\2023\092723\092715.D	Calibration	2	x	4500	20.0000	1.3717
D:\GC-21\Data\2023\092723\092716.D	Calibration	3	x	9899	40.0000	1.4680
D:\GC-21\Data\2023\092723\092717.D	Calibration	4	x	25290	100.0000	1.5694
D:\GC-21\Data\2023\092723\092718.D	Calibration	5	x	53948	200.0000	1.6152
D:\GC-21\Data\2023\092723\092719.D	Calibration	6	x	154052	500.0000	1.8798
D:\GC-21\Data\2023\092723\092720.D	Calibration	7	x	225521	750.0000	1.7946
D:\GC-21\Data\2023\092723\092721.D	Calibration	8	x	308282	1000.0000	1.8635
D:\GC-21\Data\2023\092723\092722.D	Calibration	9	x	624850	2000.0000	1.8985
D:\GC-21\Data\2023\092723\092723.D	Calibration	10	x	1559729	5000.0000	1.9136

Calibration Report

Batch Path	D:\GC-21\Data\2023\092723\QuantResults\PAH ICAL.batch.bin		
Analysis Time	9/28/2023 10:36:05 AM	Analyst Name	FA\gc1821
Report Time	9/28/2023 10:47:46 AM	Reporter Name	gc1821
Last Calib Update	9/28/2023 10:13:23 AM	Batch State	Processed

Indeno(1,2,3-cd)pyrene

Indeno(1,2,3-cd)pyrene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs

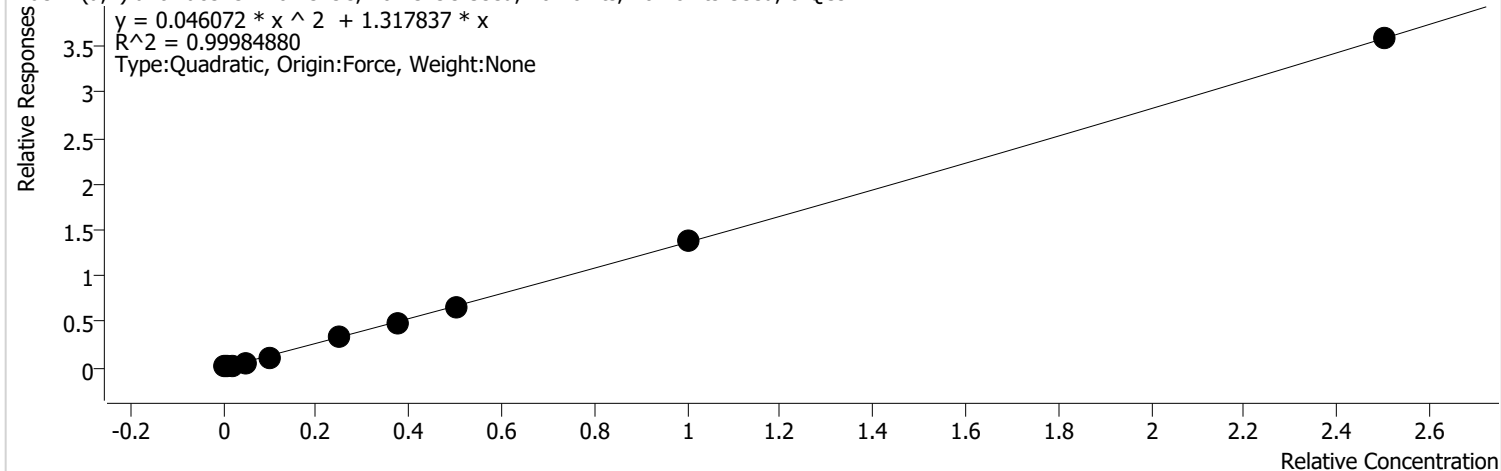


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-21\Data\2023\092723\092714.D	Calibration	1	x	3503	10.0000	1.9961
D:\GC-21\Data\2023\092723\092715.D	Calibration	2	x	4261	20.0000	1.1772
D:\GC-21\Data\2023\092723\092716.D	Calibration	3	x	9379	40.0000	1.2412
D:\GC-21\Data\2023\092723\092717.D	Calibration	4	x	23601	100.0000	1.3180
D:\GC-21\Data\2023\092723\092718.D	Calibration	5	x	54039	200.0000	1.4038
D:\GC-21\Data\2023\092723\092719.D	Calibration	6	x	163340	500.0000	1.6785
D:\GC-21\Data\2023\092723\092720.D	Calibration	7	x	248852	750.0000	1.6469
D:\GC-21\Data\2023\092723\092721.D	Calibration	8	x	343460	1000.0000	1.6973
D:\GC-21\Data\2023\092723\092722.D	Calibration	9	x	727366	2000.0000	1.7361
D:\GC-21\Data\2023\092723\092723.D	Calibration	10	x	1903200	5000.0000	1.7993

Batch Path	D:\GC-21\Data\2023\092723\QuantResults\PAH ICAL.batch.bin		
Analysis Time	9/28/2023 10:36:05 AM	Analyst Name	FA\gc1821
Report Time	9/28/2023 10:47:46 AM	Reporter Name	gc1821
Last Calib Update	9/28/2023 10:13:23 AM	Batch State	Processed

Dibenz (a,h) anthracene

Dibenz (a,h) anthracene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs

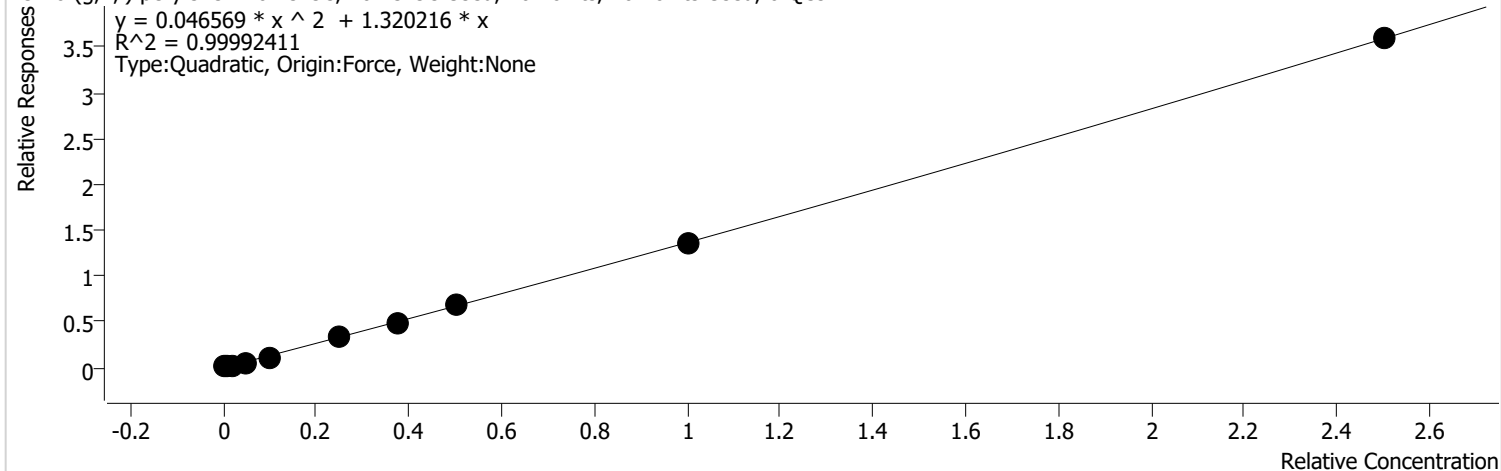


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-21\Data\2023\092723\092714.D	Calibration	1	x	2553	10.0000	1.4546
D:\GC-21\Data\2023\092723\092715.D	Calibration	2	x	3097	20.0000	0.8555
D:\GC-21\Data\2023\092723\092716.D	Calibration	3	x	6772	40.0000	0.8962
D:\GC-21\Data\2023\092723\092717.D	Calibration	4	x	17666	100.0000	0.9866
D:\GC-21\Data\2023\092723\092718.D	Calibration	5	x	41093	200.0000	1.0675
D:\GC-21\Data\2023\092723\092719.D	Calibration	6	x	128950	500.0000	1.3251
D:\GC-21\Data\2023\092723\092720.D	Calibration	7	x	194881	750.0000	1.2897
D:\GC-21\Data\2023\092723\092721.D	Calibration	8	x	269374	1000.0000	1.3311
D:\GC-21\Data\2023\092723\092722.D	Calibration	9	x	579166	2000.0000	1.3824
D:\GC-21\Data\2023\092723\092723.D	Calibration	10	x	1514789	5000.0000	1.4321

Batch Path	D:\GC-21\Data\2023\092723\QuantResults\PAH ICAL.batch.bin		
Analysis Time	9/28/2023 10:36:05 AM	Analyst Name	FA\gc1821
Report Time	9/28/2023 10:47:46 AM	Reporter Name	gc1821
Last Calib Update	9/28/2023 10:13:23 AM	Batch State	Processed

Benzo (g,h,i) perylene

Benzo (g,h,i) perylene - 10 Levels, 10 Levels Used, 10 Points, 10 Points Used, 0 QCs



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\GC-21\Data\2023\092723\092714.D	Calibration	1	x	3203	10.0000	1.8252
D:\GC-21\Data\2023\092723\092715.D	Calibration	2	x	3947	20.0000	1.0905
D:\GC-21\Data\2023\092723\092716.D	Calibration	3	x	8460	40.0000	1.1196
D:\GC-21\Data\2023\092723\092717.D	Calibration	4	x	19895	100.0000	1.1110
D:\GC-21\Data\2023\092723\092718.D	Calibration	5	x	43919	200.0000	1.1409
D:\GC-21\Data\2023\092723\092719.D	Calibration	6	x	132746	500.0000	1.3641
D:\GC-21\Data\2023\092723\092720.D	Calibration	7	x	196343	750.0000	1.2994
D:\GC-21\Data\2023\092723\092721.D	Calibration	8	x	275732	1000.0000	1.3626
D:\GC-21\Data\2023\092723\092722.D	Calibration	9	x	573555	2000.0000	1.3690
D:\GC-21\Data\2023\092723\092723.D	Calibration	10	x	1519408	5000.0000	1.4365

PAH Calibration

Date: 9/27/23

Analyst: Ramiro Garcia

MeCl2: 75000

Cal	ICV
8270 Megamix: <u>18900</u>	8270 Megamix: <u>27571</u>
8270 Surrogate: <u>18822</u>	IS: <u>28836</u>

6-21
11
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21
22
23

Spike Conc. (ppb)	BN/Acid Surr Conc. (ppb)	2° Spike (uL)	B/N Surr (uL)	Internal Standard (uL)	Remove (uL)	Final Vol. (mL)	Comments
2	2/1	0.2	--	10	10.2	1	For PAH-LL Cal Only
10	10/5	1	--	10	11	1	
20	20/10	2	--	10	12	1	
40	40/20	4	--	10	14	1	
100	100/50	10	--	10	20	1	
200	200/100	20	--	10	30	1	
500	500/250	50	--	10	60	1	
750	750/375	75	--	10	85	1	
1000	1000/500	100	--	10	110	1	
2000	2000/1000	200	--	10	210	1	
5000	5000/2500	500	--	10	510	1	
ICB	1000/500		5	10	15	1	
ICV (1000 ppb)	1000/500	**	5	10	16	1	**Add 1 uL of SS Megamix

	Mega Mix (uL)	8270 Surr (uL)	Final Volume (mL)
2° Intermediate (cal)	100	500	10

Signature and Date: 9/27/23

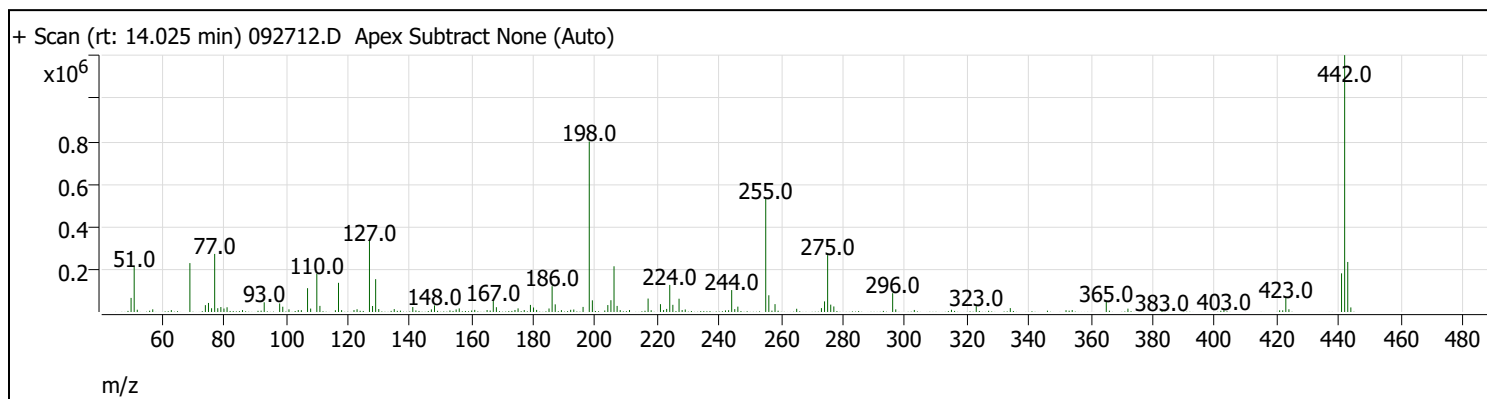
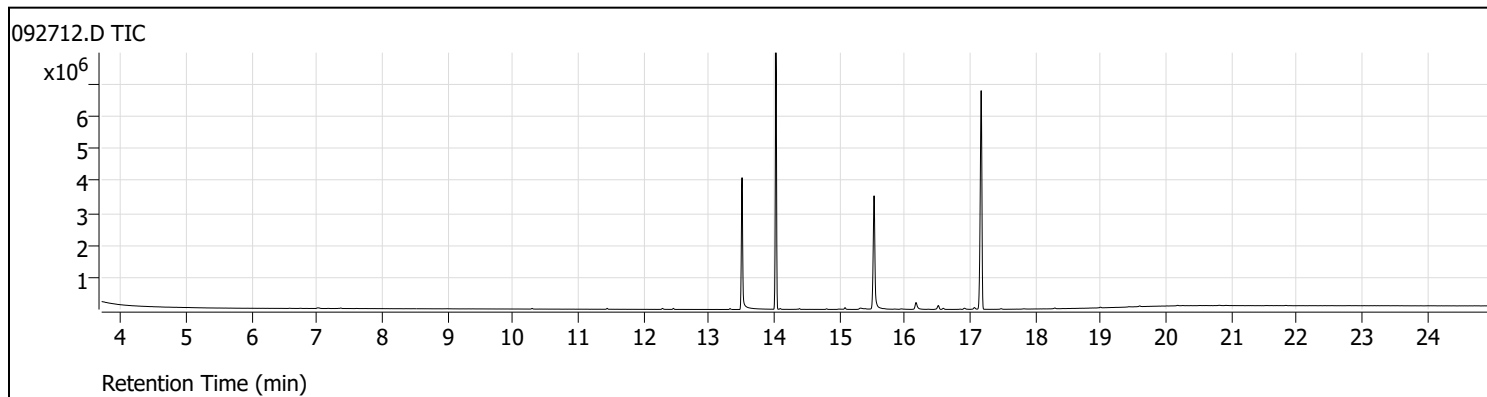
Signature: ADK



Tunes

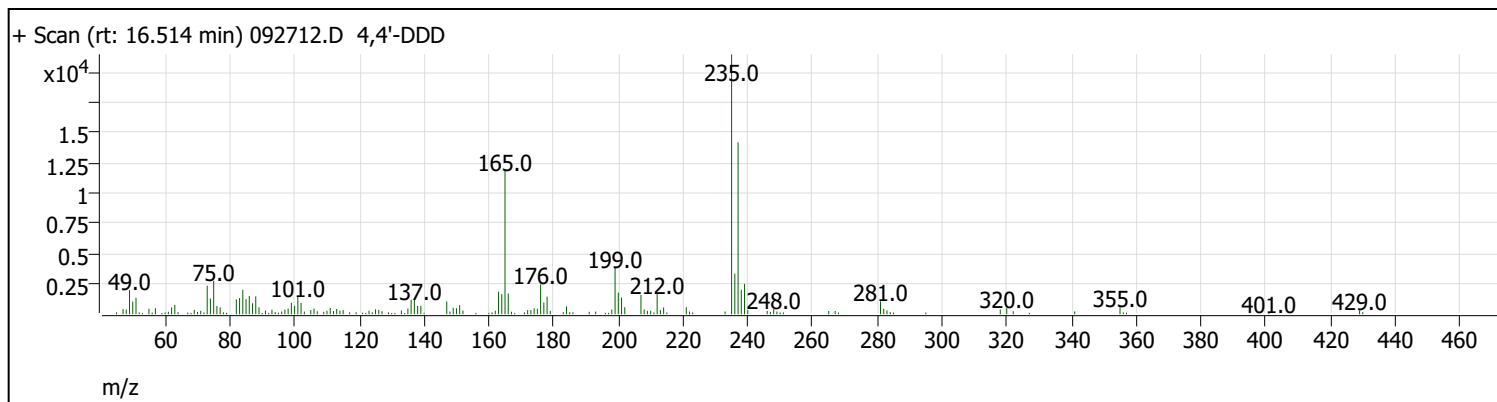
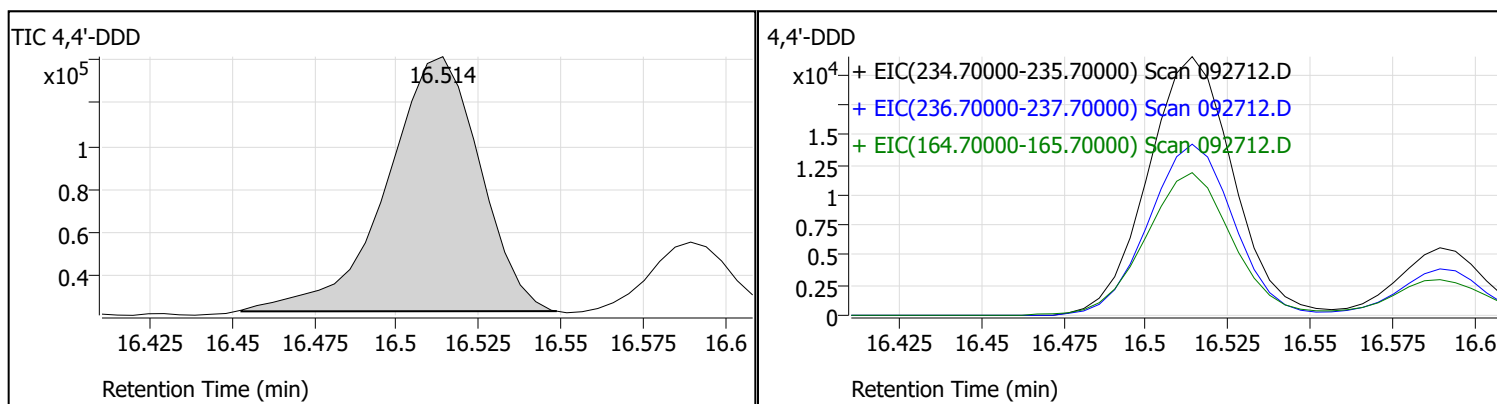
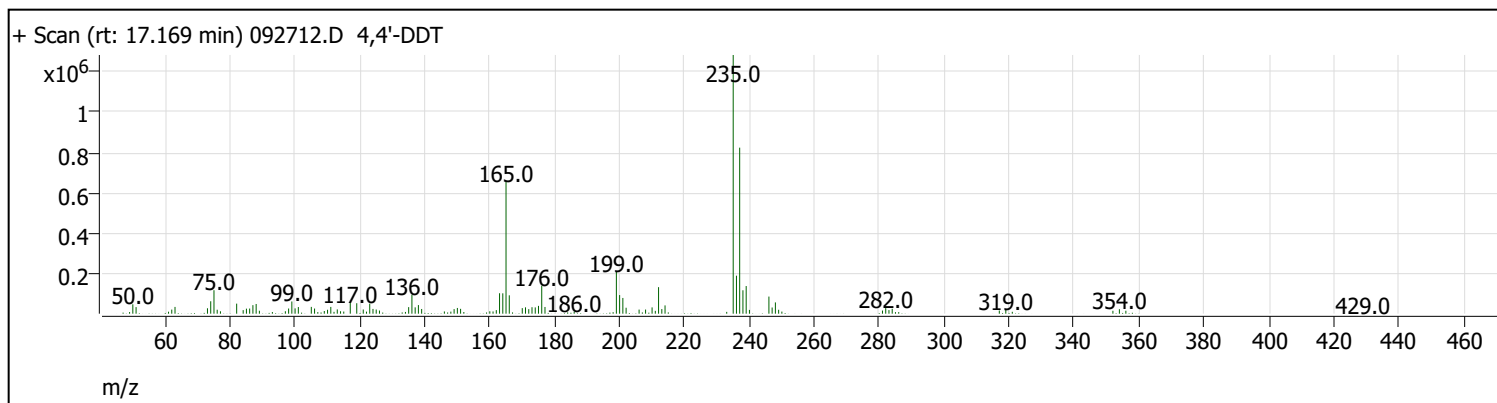
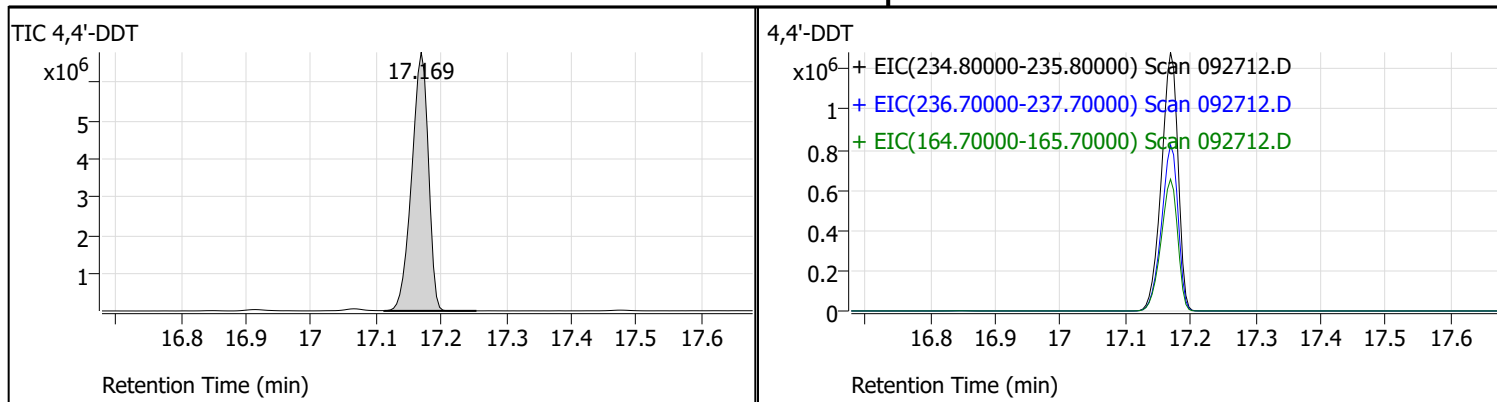
Tune Evaluation Report

Data Path: D:\GC-21\Data\2023\092723\092712.D
 Acq on: 9/27/2023 2:14:03 PM
 Operator: SRH/SNK
 Sample: tune
 Inst Name: GC21
 ALS Vial: 1
 Method: D:\MassHunter\Methods\Quant\DFTPPwBreak&TailingGC218270E.m



Target Mass	Rel. To Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Pass/Fail
68	69	0	2	0.0	0	Pass
70	69	0	2	0.6	1323	Pass
197	198	0	2	0.0	0	Pass
198	198	100	100	100.0	798863	Pass
199	198	5	9	6.8	54647	Pass
365	442	1	100	3.9	46691	Pass
441	443	1E-10	150	77.2	181071	Pass
442	442	100	100	100.0	1203190	Pass
443	442	15	24	19.5	234409	Pass
69	69	100	100	100.0	229031	Pass

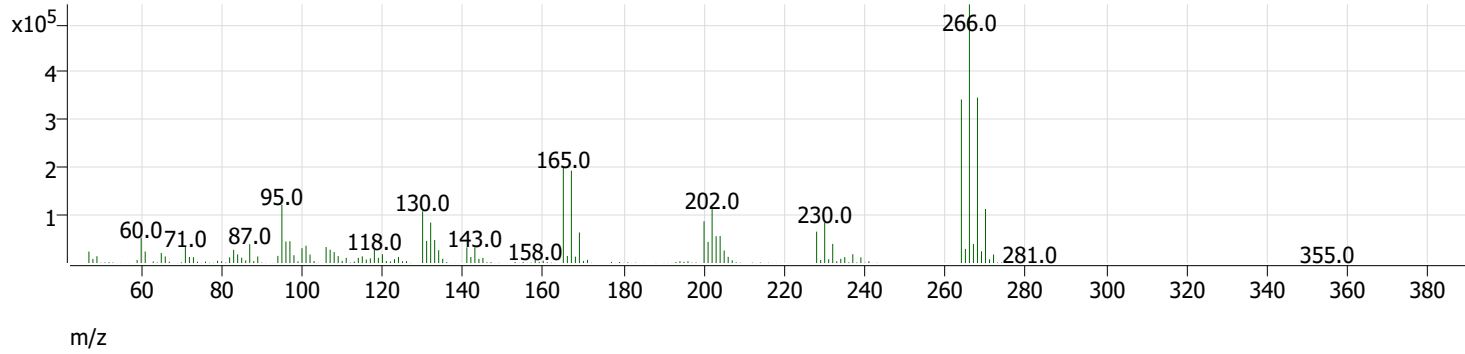
Tune Evaluation Report



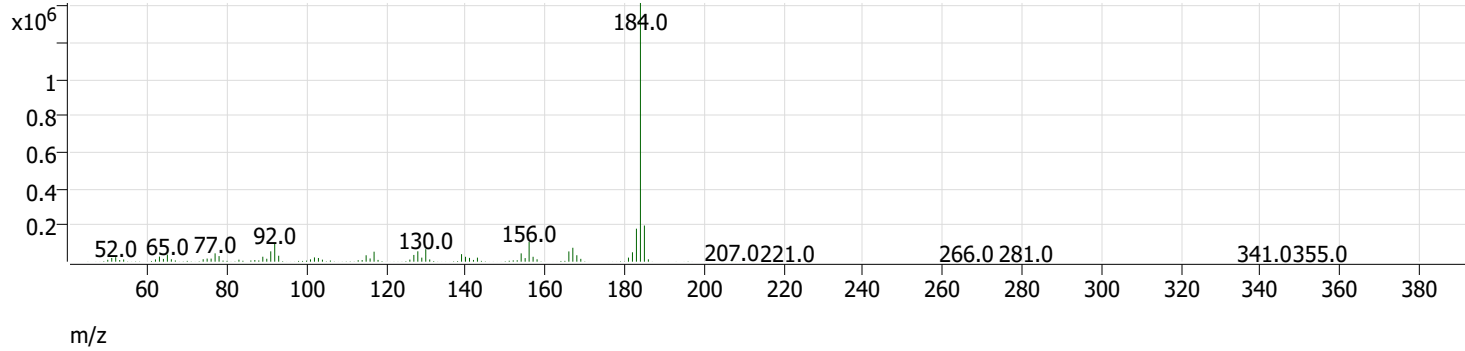
Compound Name	Expected RT	Observed RT	TIC Area	Breakdown %	Pass/Fail
4,4'-DDT	17.179	17.169	12050611	1.9	Pass
4,4'-DDD	16.510	16.514	234742		

Tune Evaluation Report

+ Scan (rt: 13.507 min) 092712.D Pentachlorophenol



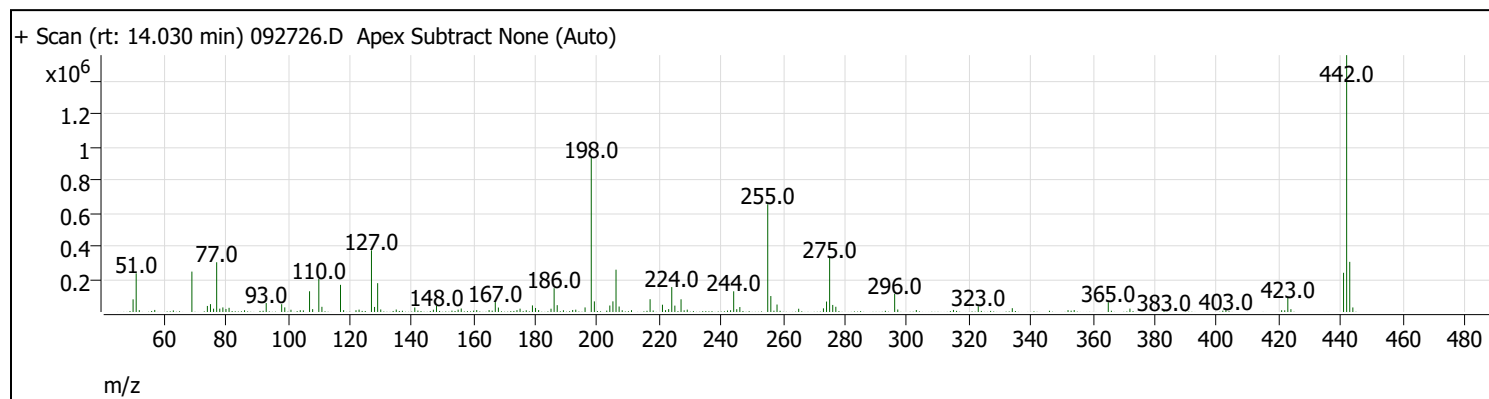
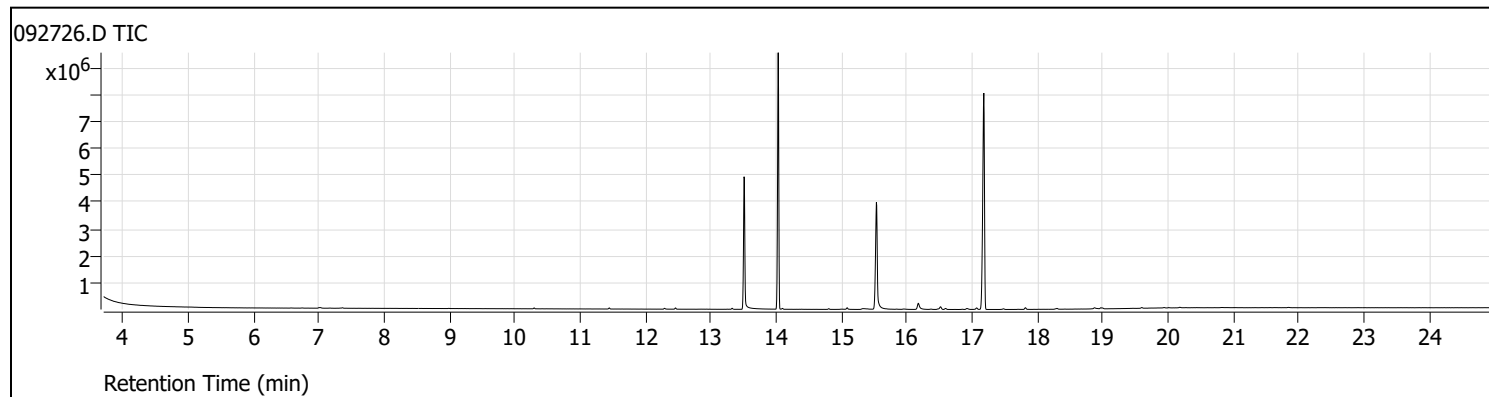
+ Scan (rt: 15.529 min) 092712.D Benzidine



Compound Name	Expected RT	Observed RT	Tailing Factor	PGF	Pass/Fail
Pentachlorophenol	13.507	13.507	1.0	7.4	Pass
Benzidine	15.534	15.529	1.0	5.7	Pass

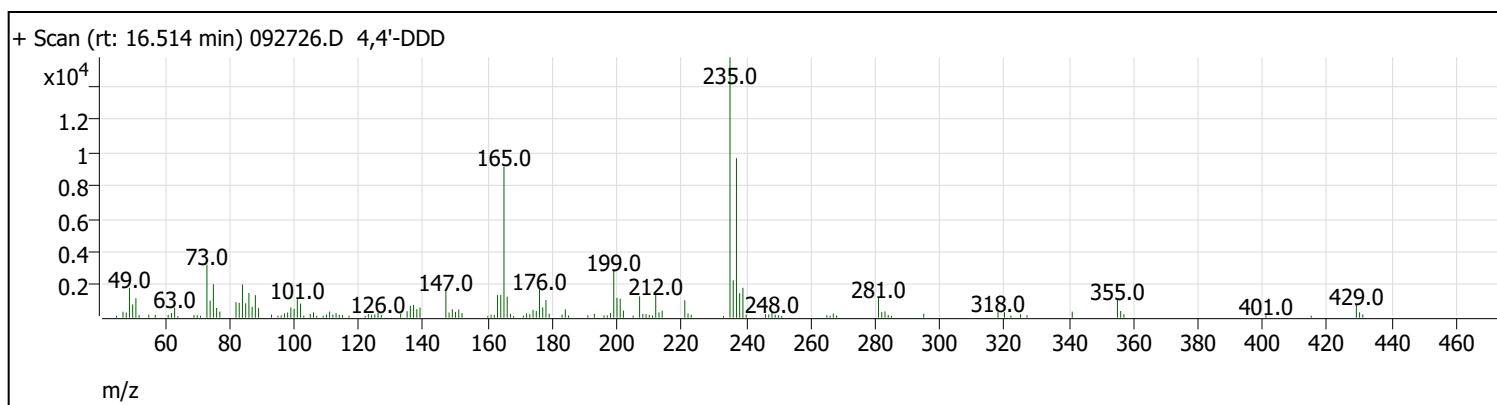
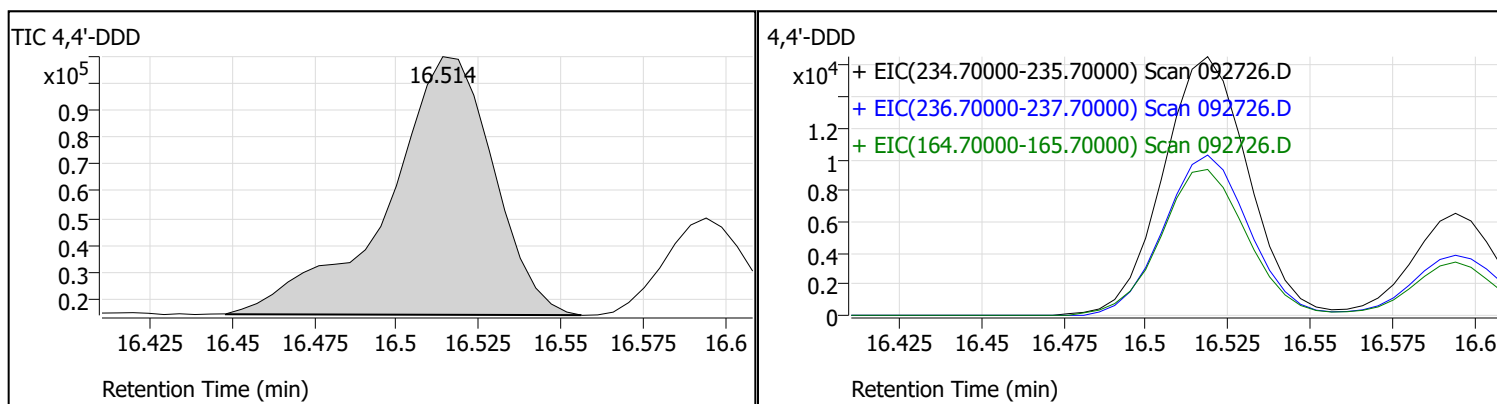
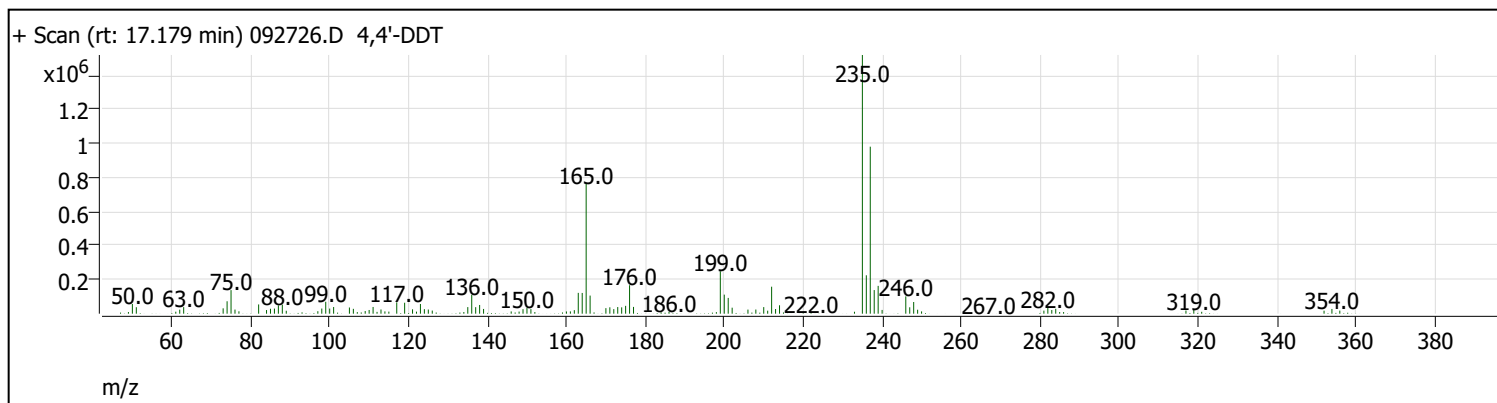
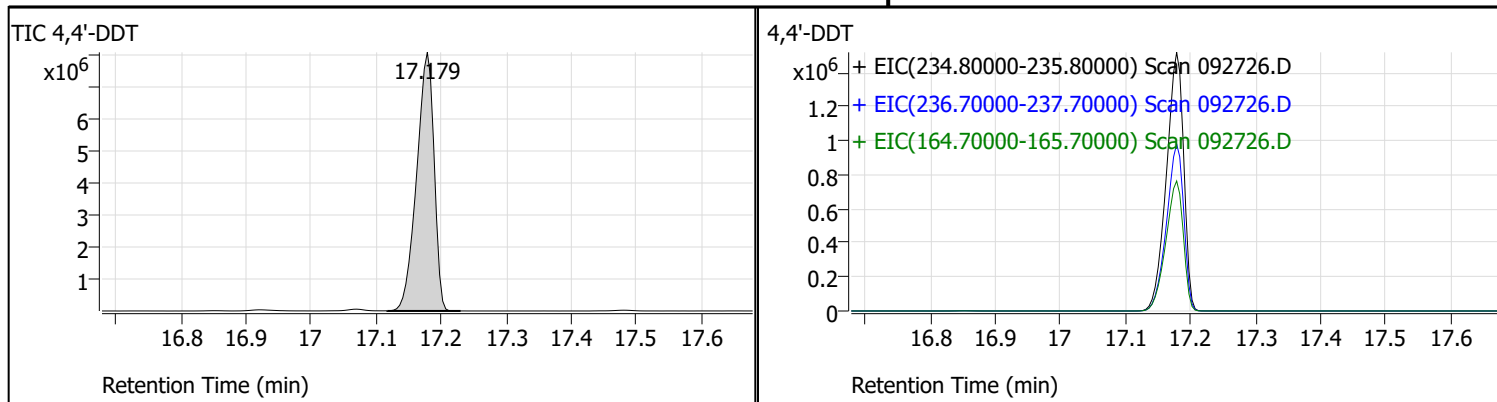
Tune Evaluation Report

Data Path: D:\GC-21\Data\2023\092723\092726.D
 Acq on: 9/28/2023 7:40:48 AM
 Operator: SRH/SNK
 Sample: tune
 Inst Name: GC21
 ALS Vial: 1
 Method: D:\MassHunter\Methods\Quant\DFTPPwBreak&TailingGC218270E.m



Target Mass	Rel. To Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Pass/Fail
68	69	0	2	0.0	0	Pass
70	69	0	2	0.6	1443	Pass
197	198	0	2	0.0	0	Pass
198	198	100	100	100.0	933665	Pass
199	198	5	9	6.9	64222	Pass
365	442	1	100	3.8	59352	Pass
441	443	1E-10	150	78.2	237199	Pass
442	442	100	100	100.0	1554245	Pass
443	442	15	24	19.5	303403	Pass
69	69	100	100	100.0	244394	Pass

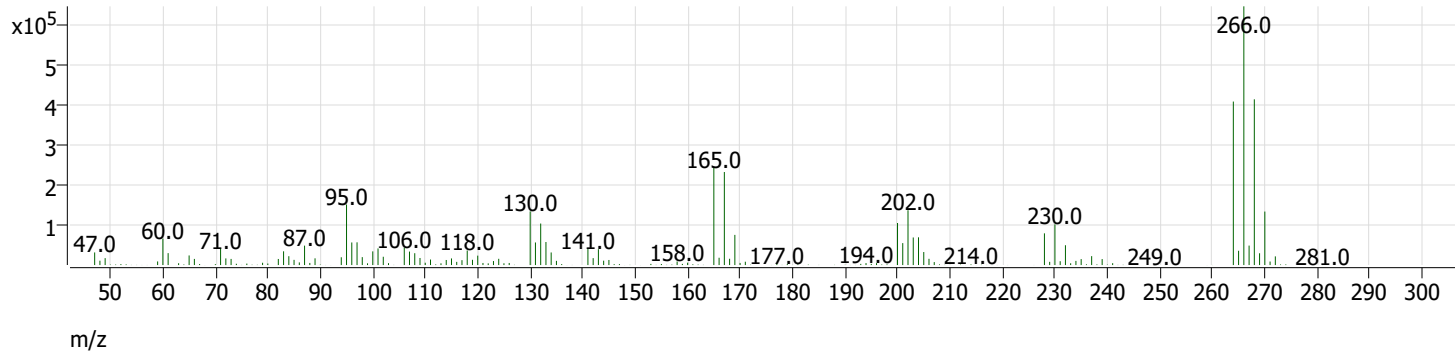
Tune Evaluation Report



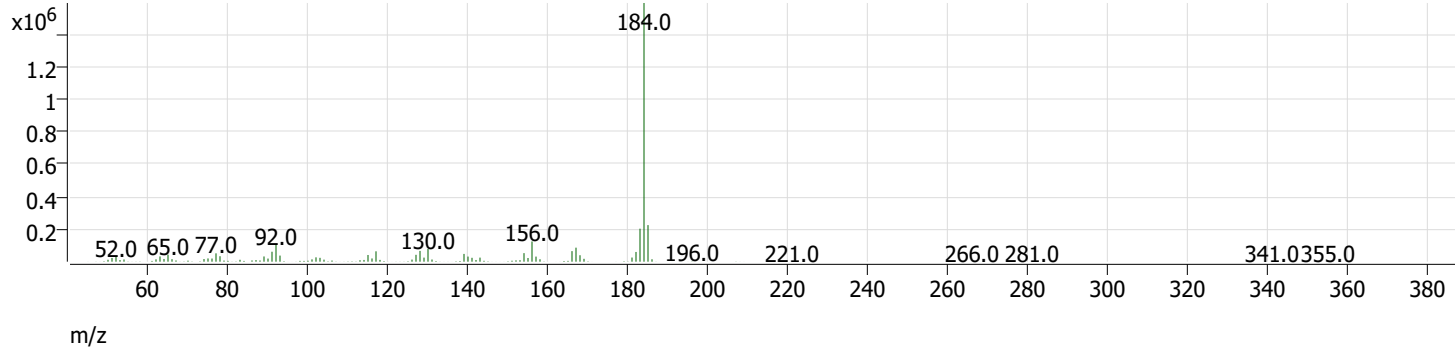
Compound Name	Expected RT	Observed RT	TIC Area	Breakdown %	Pass/Fail
4,4'-DDT	17.179	17.179	14948640	1.4	Pass
4,4'-DDD	16.510	16.514	215967		

Tune Evaluation Report

+ Scan (rt: 13.507 min) 092726.D Pentachlorophenol



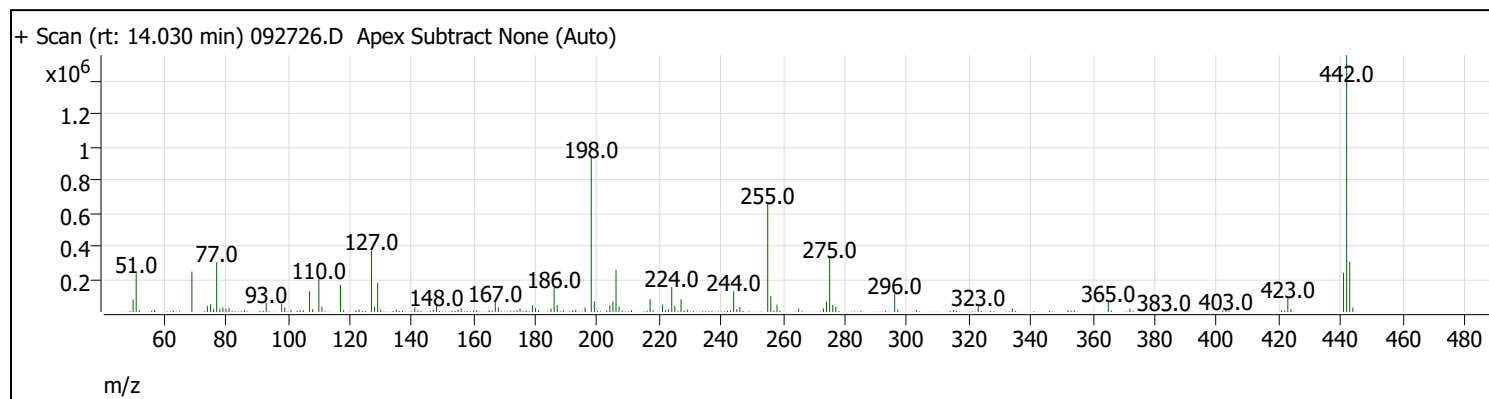
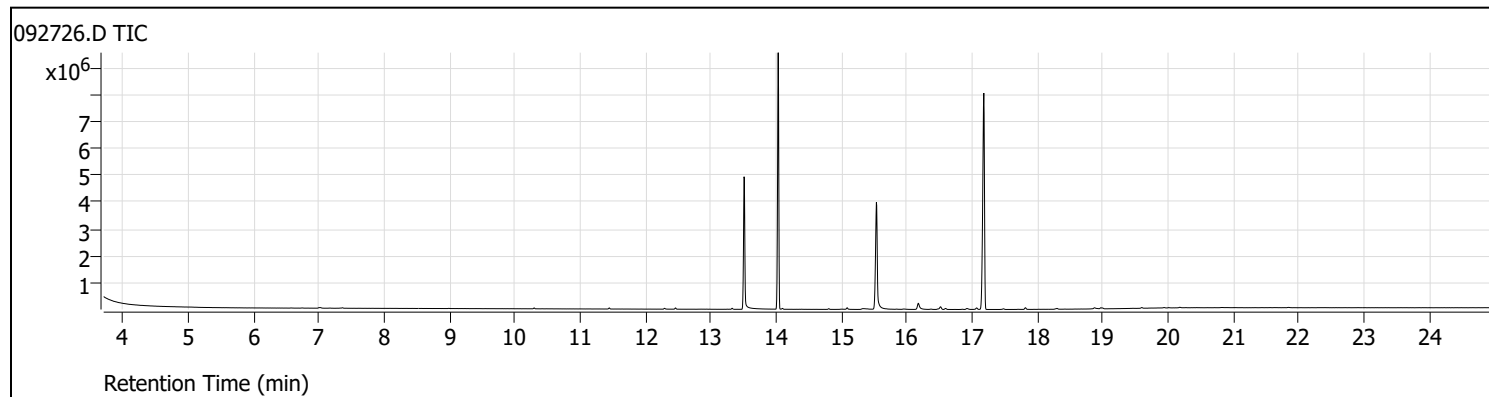
+ Scan (rt: 15.534 min) 092726.D Benzidine



Compound Name	Expected RT	Observed RT	Tailing Factor	PGF	Pass/Fail
Pentachlorophenol	13.507	13.507	1.2	4.9	Pass
Benzidine	15.534	15.534	1.0	3.7	Pass

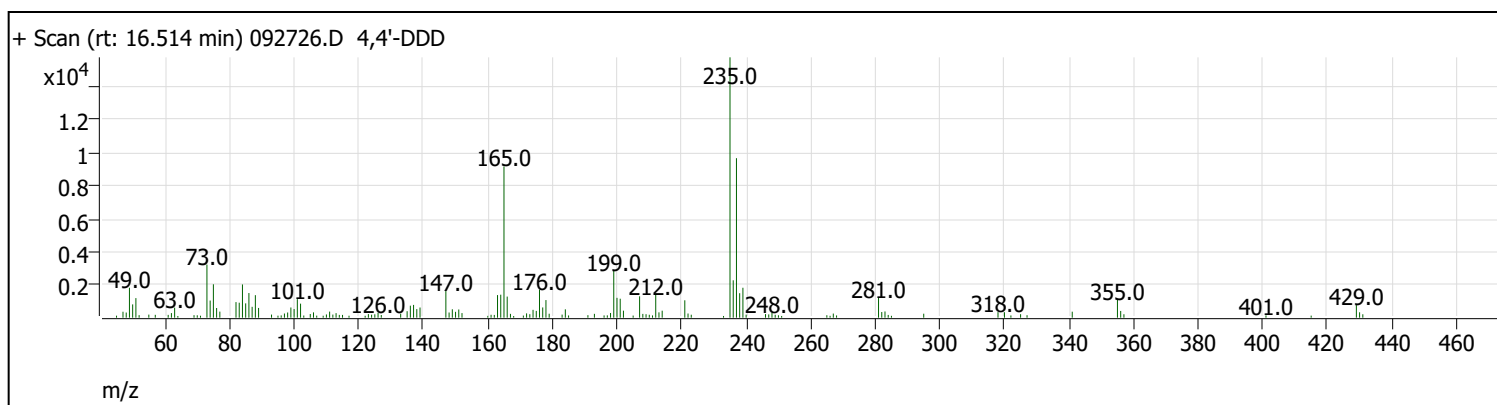
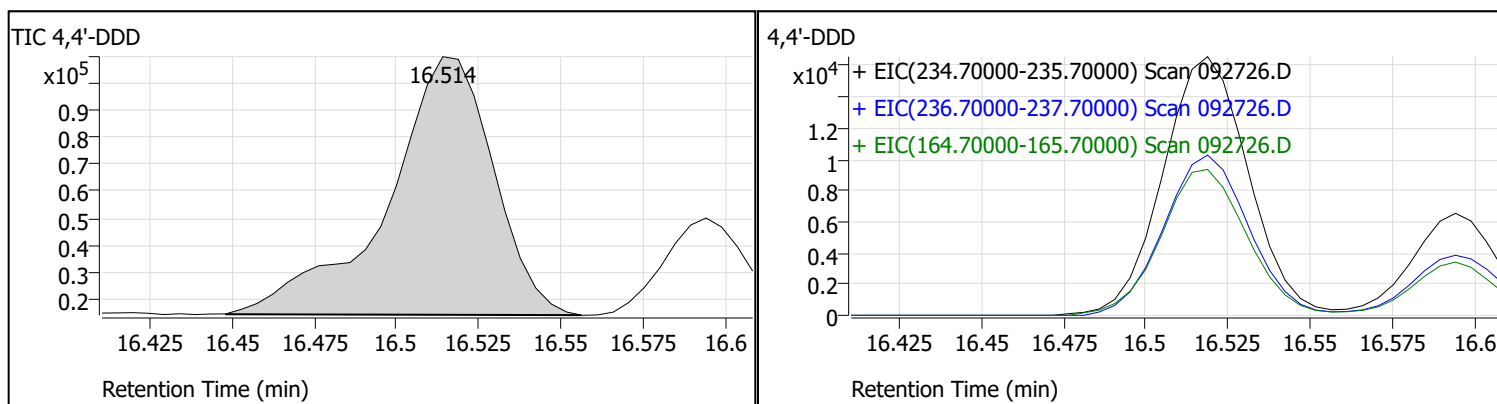
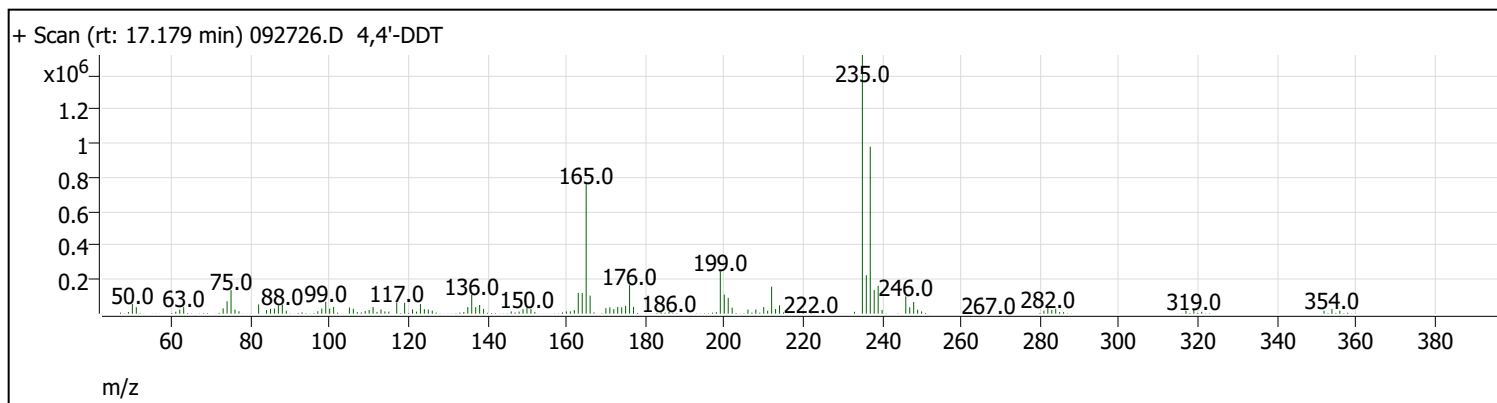
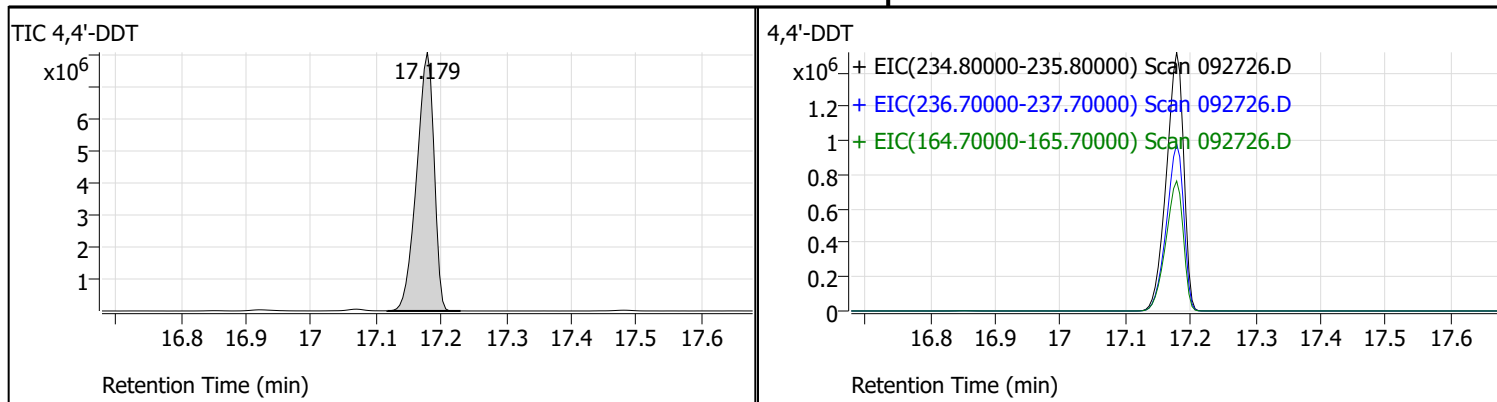
Tune Evaluation Report

Data Path: D:\GC-21\Data\2023\092723\092726.D
 Acq on: 9/28/2023 7:40:48 AM
 Operator: SRH/SNK
 Sample: tune
 Inst Name: GC21
 ALS Vial: 1
 Method: D:\MassHunter\Methods\Quant\DFTPPwBreak&TailingGC218270E.m



Target Mass	Rel. To Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Pass/Fail
68	69	0	2	0.0	0	Pass
70	69	0	2	0.6	1443	Pass
197	198	0	2	0.0	0	Pass
198	198	100	100	100.0	933665	Pass
199	198	5	9	6.9	64222	Pass
365	442	1	100	3.8	59352	Pass
441	443	1E-10	150	78.2	237199	Pass
442	442	100	100	100.0	1554245	Pass
443	442	15	24	19.5	303403	Pass
69	69	100	100	100.0	244394	Pass

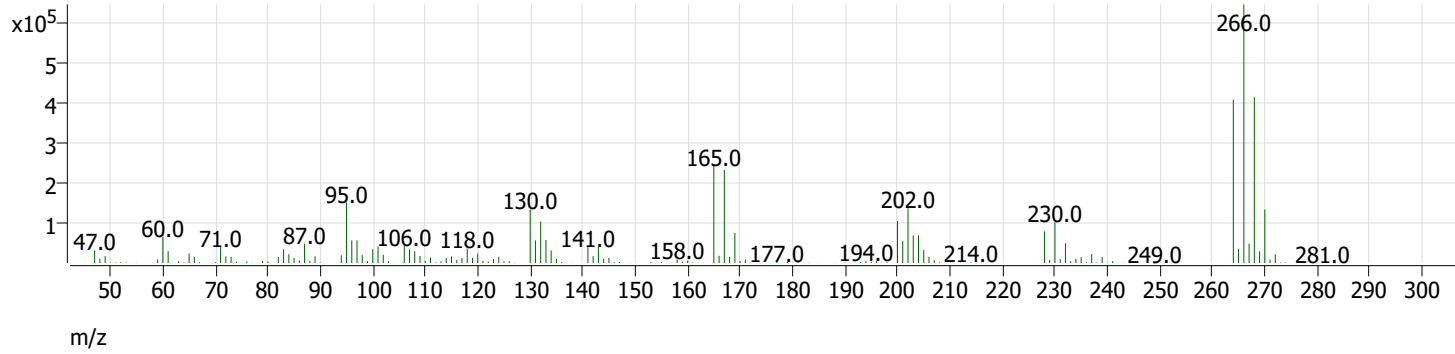
Tune Evaluation Report



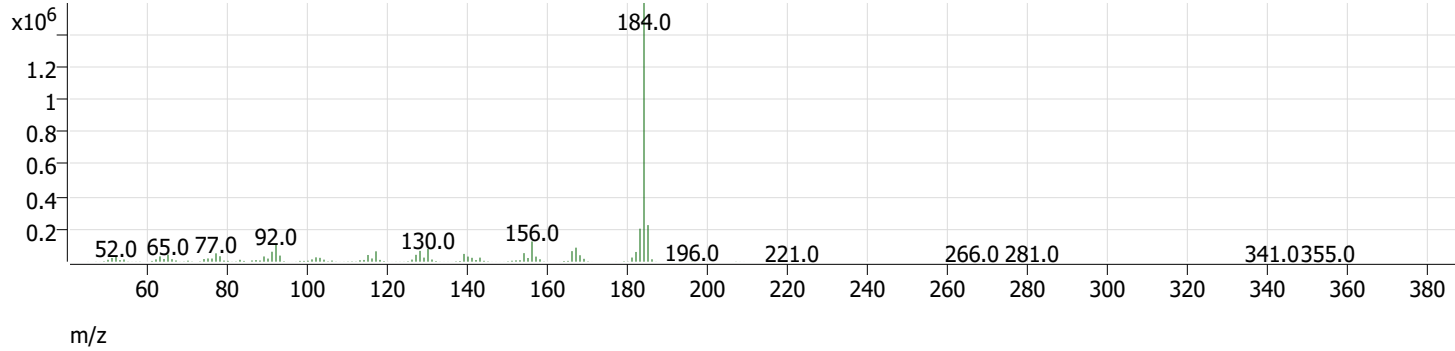
Compound Name	Expected RT	Observed RT	TIC Area	Breakdown %	Pass/Fail
4,4'-DDT	17.179	17.179	14948640	1.4	Pass
4,4'-DDD	16.510	16.514	215967		

Tune Evaluation Report

+ Scan (rt: 13.507 min) 092726.D Pentachlorophenol



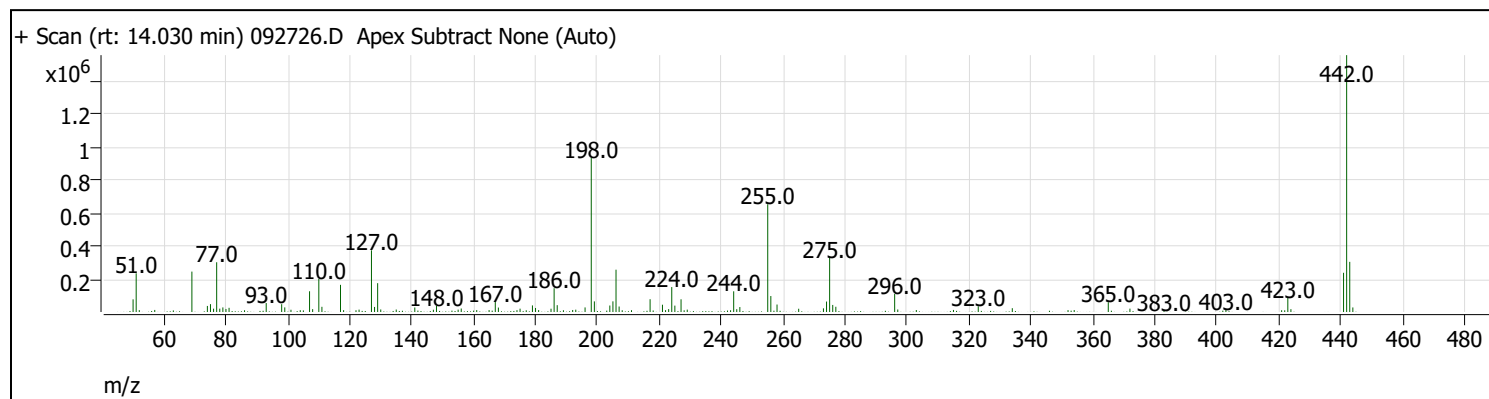
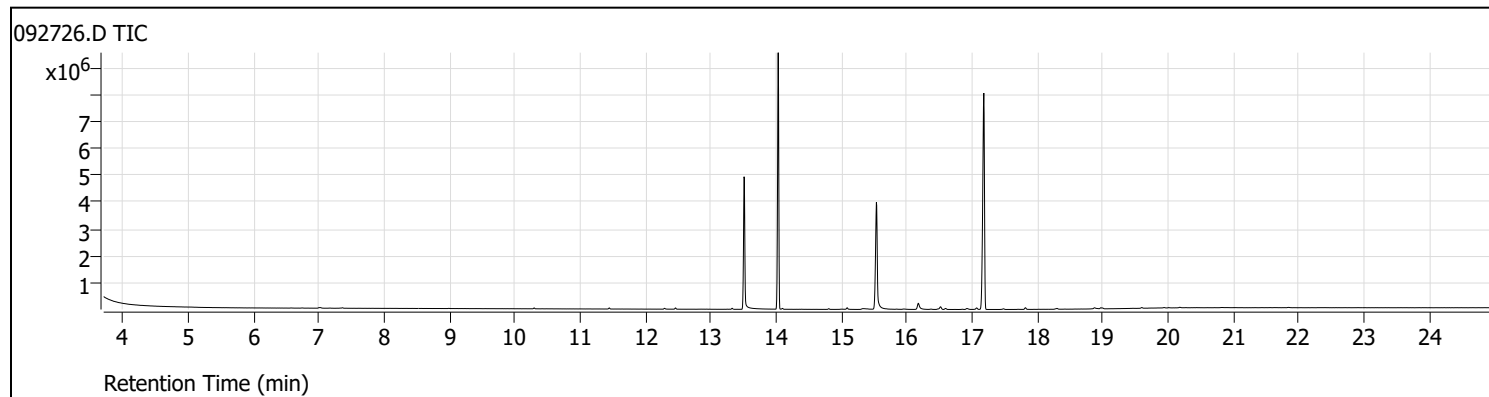
+ Scan (rt: 15.534 min) 092726.D Benzidine



Compound Name	Expected RT	Observed RT	Tailing Factor	PGF	Pass/Fail
Pentachlorophenol	13.507	13.507	1.2	4.9	Pass
Benzidine	15.534	15.534	1.0	3.7	Pass

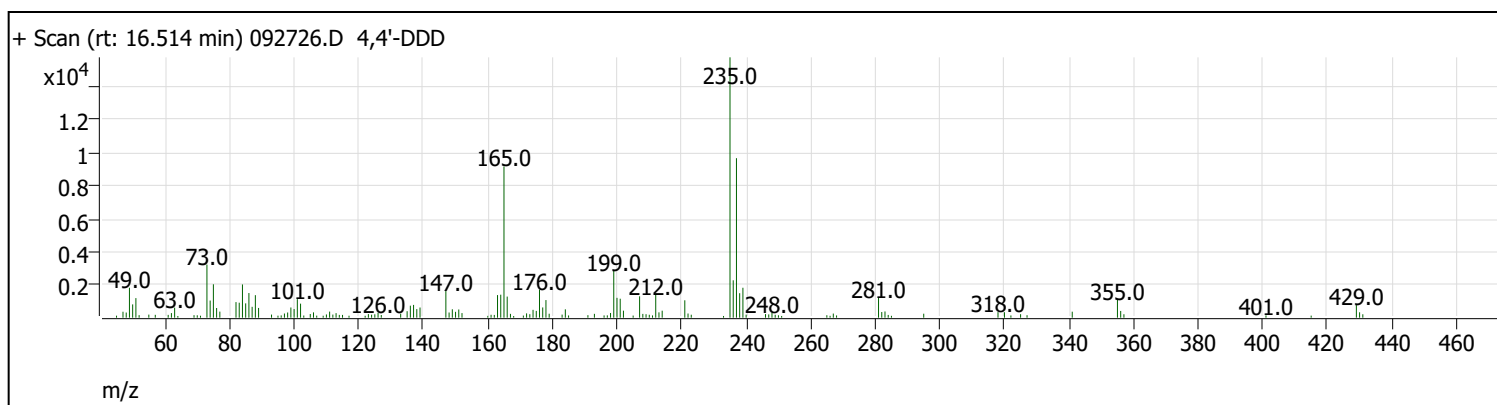
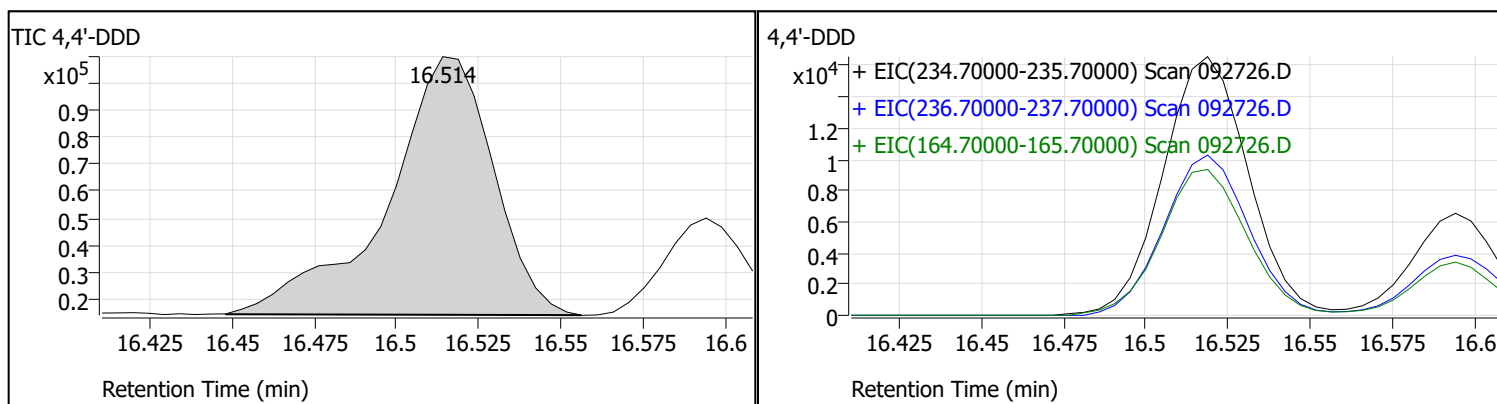
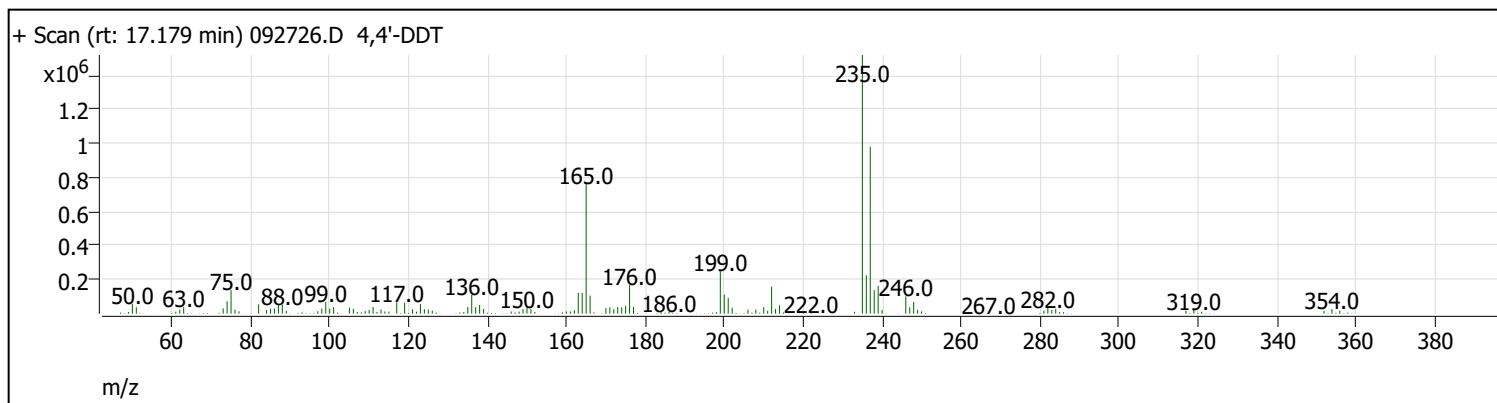
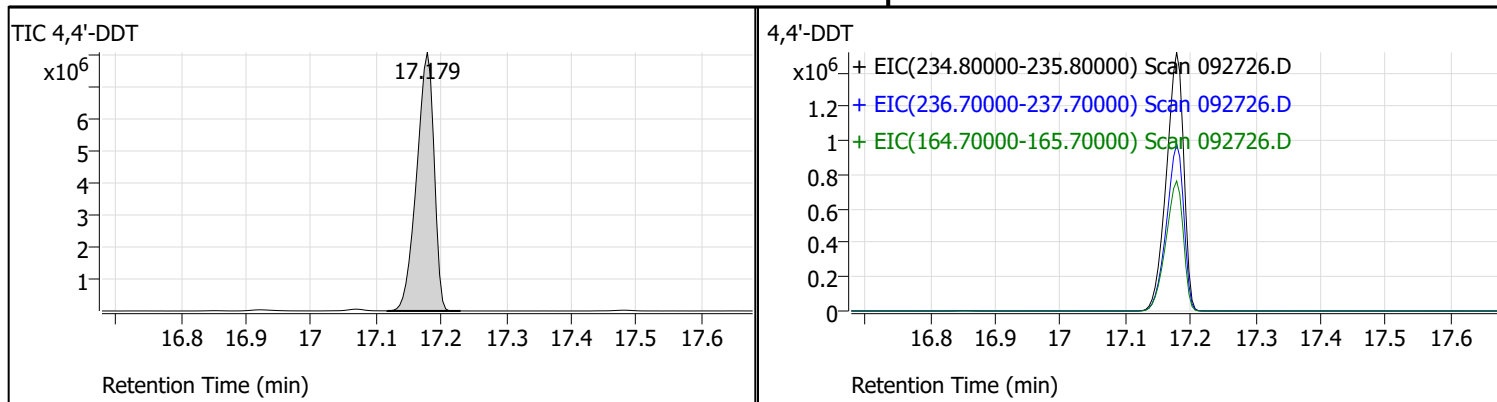
Tune Evaluation Report

Data Path: D:\GC-21\Data\2023\092723\092726.D
 Acq on: 9/28/2023 7:40:48 AM
 Operator: SRH/SNK
 Sample: tune
 Inst Name: GC21
 ALS Vial: 1
 Method: D:\MassHunter\Methods\Quant\DFTPPwBreak&TailingGC218270E.m



Target Mass	Rel. To Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Pass/Fail
68	69	0	2	0.0	0	Pass
70	69	0	2	0.6	1443	Pass
197	198	0	2	0.0	0	Pass
198	198	100	100	100.0	933665	Pass
199	198	5	9	6.9	64222	Pass
365	442	1	100	3.8	59352	Pass
441	443	1E-10	150	78.2	237199	Pass
442	442	100	100	100.0	1554245	Pass
443	442	15	24	19.5	303403	Pass
69	69	100	100	100.0	244394	Pass

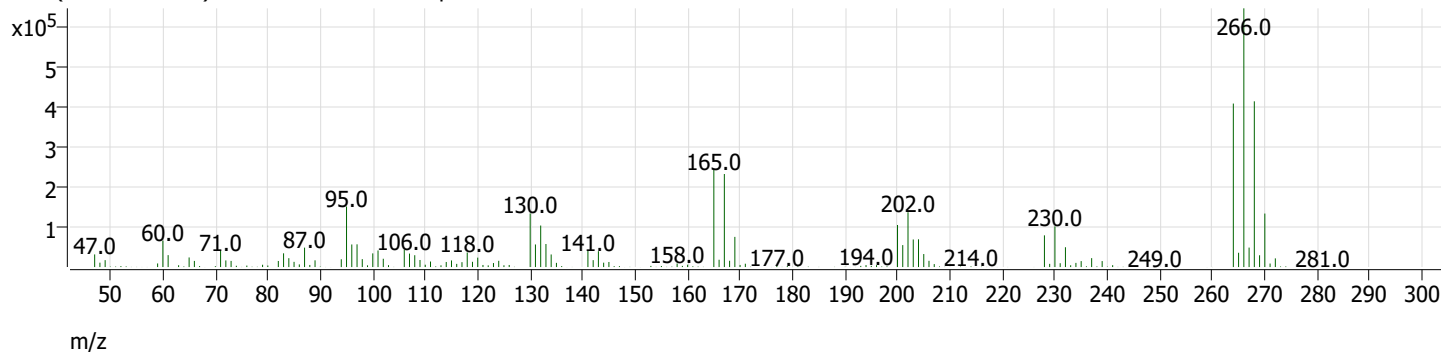
Tune Evaluation Report



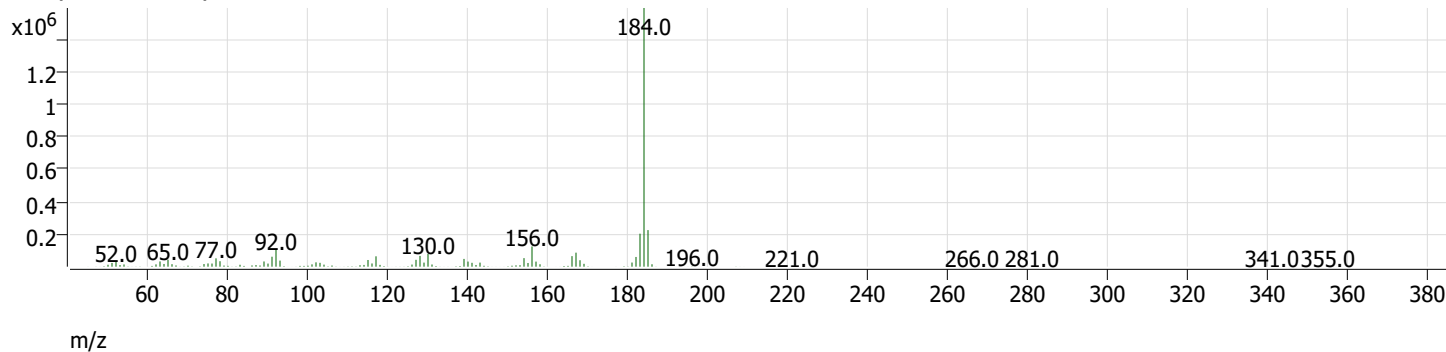
Compound Name	Expected RT	Observed RT	TIC Area	Breakdown %	Pass/Fail
4,4'-DDT	17.179	17.179	14948640	1.4	Pass
4,4'-DDD	16.510	16.514	215967		

Tune Evaluation Report

+ Scan (rt: 13.507 min) 092726.D Pentachlorophenol



+ Scan (rt: 15.534 min) 092726.D Benzidine



Compound Name	Expected RT	Observed RT	Tailing Factor	PGF	Pass/Fail
Pentachlorophenol	13.507	13.507	1.2	4.9	Pass
Benzidine	15.534	15.534	1.0	3.7	Pass



Internal Standards

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-21 230928C

CCV Name: CAL MIDPOINT

Run No: 86811

CCV SeqNo: 1811647

Lab File ID (Standard): 092721.D

Date Analyzed: 9/27/2023

Instrument ID: GC-21

Time Analyzed: 20:55

GC Column: ID (mm):

Length (M):

	IS1 (14DCBZ)		2 Acenaphthene-d		IS3 Chrysene-d12		S4 Naphthalene-d8		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12 HOUR STD	0	0.000	248247	11.875	330862	18.096	566413	9.680	
UPPER LIMIT	0	0.500	496494	12.375	661724	18.596	1132826	10.180	
LOWER LIMIT	0	-0.500	124124	11.375	165431	17.596	283207	9.180	
SAMPLE NO.									
01	CCV-41611	0	0	221450	11.875	289651	18.098	506210	9.68
02	QCS-41611	0	0	342635	11.875	418473	18.104	760985	9.68

IS1 (14DCBZ) = 1,4-Dichlorobenzene-d4

IS3 Chrysene-d12 = Chrysene-d12

IS2 Acenaphthene-d10 = Acenaphthene-d10

IS4 Naphthalene-d8 = Naphthalene-d8

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-21 230928C CCV Name: CAL MIDPOINT
 Run No: 86811 CCV SeqNo: 1811647
 Lab File ID (Standard): 092721.D Date Analyzed: 9/27/2023
 Instrument ID: GC-21 Time Analyzed: 20:55
 GC Column: ID (mm): Length (M):

	S5 Perylene-d12		S6 Phenanthrene-d10					
	AREA #	RT #	AREA #	RT #				
12 HOUR STD	404724	20.421	446669	13.738				
UPPER LIMIT	809448	20.921	893338	14.238				
LOWER LIMIT	202362	19.921	223335	13.238				
SAMPLE NO.								
01	CCV-41611	353305	20.423	394728	13.739			
02	QCS-41611	504339	20.429	605566	13.738			

IS5 Perylene-d12 = Perylene-d12

IS6 Phenanthrene-d10 = Phenanthrene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-21 230928C

CCV Name: CCV-41611

Run No: 86811

CCV SeqNo: 1811547

Lab File ID (Standard): 092727.D

Date Analyzed: 9/28/2023

Instrument ID: GC-21

Time Analyzed: 8:11

GC Column:

ID (mm):

Length (M):

	IS1 (14DCBZ)		2 Acenaphthene-d		IS3 Chrysene-d12		S4 Naphthalene-d	
	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	0	0.000	221450	11.875	289651	18.098	506210	9.680
UPPER LIMIT	0	0.500	442900	12.375	579302	18.598	1012420	10.180
LOWER LIMIT	0	-0.500	110725	11.375	144826	17.598	253105	9.180
SAMPLE NO.								
01 MB-41611	0	0	271529	11.875	350874	18.104	592485	9.68
02 LCS-41611	0	0	280921	11.875	371808	18.099	616944	9.68
03 2309466-001A	0	0	271199	11.875	352838	18.104	579792	9.683
04 2309466-001AMS	0	0	275358	11.875	361701	18.104	600586	9.68
05 2309466-001AMSD	0	0	291342	11.875	369424	18.104	640775	9.68
06 2309446-001A	0	0	292711	11.875	368234	18.096	626570	9.68
07 2309446-002A	0	0	283462	11.875	355943	18.096	610655	9.68
08 2309446-003A	0	0	285225	11.875	357311	18.096	607717	9.68
09 2309364-001A	0	0	282441	11.875	349265	18.098	599027	9.68

IS1 (14DCBZ) = 1,4-Dichlorobenzene-d4

IS3 Chrysene-d12 = Chrysene-d12

IS2 Acenaphthene-d10 = Acenaphthene-d10

IS4 Naphthalene-d8 = Naphthalene-d8

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-21 230928C

CCV Name: CCV-41611

Run No: 86811

CCV SeqNo: 1811547

Lab File ID (Standard): 092727.D

Date Analyzed: 9/28/2023

Instrument ID: GC-21

Time Analyzed: 8:11

GC Column:

ID (mm):

Length (M):

	S5 Perylene-d12		S6 Phenanthrene-d10					
	AREA #	RT #	AREA #	RT #				
12 HOUR STD	353305	20.423	394728	13.739				
UPPER LIMIT	706610	20.923	789456	14.239				
LOWER LIMIT	176653	19.923	197364	13.239				
SAMPLE NO.								
01 MB-41611	393312	20.429	476923	13.738				
02 LCS-41611	466085	20.423	510891	13.739				
03 2309466-001A	403471	20.429	475506	13.738				
04 2309466-001AMS	454466	20.429	501128	13.738				
05 2309466-001AMSD	466473	20.429	523339	13.738				
06 2309446-001A	423008	20.429	505538	13.738				
07 2309446-002A	412485	20.429	489946	13.738				
08 2309446-003A	407169	20.429	494453	13.738				
09 2309364-001A	396823	20.431	484032	13.739				

IS5 Perylene-d12 = Perylene-d12

IS6 Phenanthrene-d10 = Phenanthrene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

DATA SET for Review - Deliverable Requirements

Volatile Organic Compounds by EPA Method 8260D

Fremont Analytical Work Order No. 2309364

GeoEngineers

Project Name: South Jackson Street

Project Number: 24504-001-03

This data set contains the following:

- Analytical Sequence Summary
- Calibration Information
- Tune Information
- Internal Standards Report

Data Directory: D:\GC-19\Data\091823A\

SampleName	MiscInfo	Vial	Multiplier	Injection Time
R 1) 091801.D	8260.M O-VOC-W		1.000	18 Sep 2023 13:12
HCl rinse 2) 091802.D	8260.M O-VOC-W	1	1.000	18 Sep 2023 13:42
HCl rinse 3) 091803.D	8260.M O-VOC-W	1	1.000	18 Sep 2023 14:12
HCl rinse 4) 091804.D	8260.M O-VOC-W	2	1.000	18 Sep 2023 14:42
HCl rinse 5) 091805.D	8260.M O-VOC-W	2	1.000	18 Sep 2023 15:13
HCl rinse 6) 091806.D	8260.M O-VOC-W	3	1.000	18 Sep 2023 15:43
VOC S CCV A 7) 091807.D	8260.M O-VOC-S	7	1.000	18 Sep 2023 16:13
GX CCV A 8) 091808.D	8260.M O-VOC-GX-S	8	1.000	18 Sep 2023 16:43
R 9) 091809.D	8260.M O-VOC-W		1.000	18 Sep 2023 17:12
HCl rinse 10) 091810.D	8260.M O-VOC-W	4	1.000	18 Sep 2023 17:42
HCl rinse 11) 091811.D	8260.M O-VOC-W	4	1.000	18 Sep 2023 18:12
MeOH rinse 12) 091812.D	8260.M O-VOC-W	5	1.000	18 Sep 2023 18:42
MeOH rinse 13) 091815.D	8260.M O-VOC-W	6	1.000	18 Sep 2023 19:13
R 14) 091816.D	8260.M O-VOC-W		1.000	18 Sep 2023 19:42
R 15) 091817.D	8260.M O-VOC-W		1.000	18 Sep 2023 20:11
R 16) 091818.D	8260.M O-VOC-W		1.000	18 Sep 2023 20:40
R 17) 091819.D	8260.M O-VOC-W		1.000	18 Sep 2023 21:08
R 18) 091820.D	8260.M O-VOC-W		1.000	18 Sep 2023 21:37
VOC W CAL 1 19) 091821.D	8260.M O-VOC-W	9	1.000	18 Sep 2023 22:08
VOC W CAL 2 20) 091822.D	8260.M O-VOC-W	10	1.000	18 Sep 2023 22:38
VOC W CAL 3 21) 091823.D	8260.M O-VOC-W	11	1.000	18 Sep 2023 23:08

22)	091824.D	8260.M				
VOC W CAL 4	O-VOC-W		12	1.000	18 Sep 2023	23:38

23)	091825.D	8260.M				
VOC W CAL 5	O-VOC-W		13	1.000	19 Sep 2023	00:08

24)	091826.D	8260.M				
VOC W CAL 6	O-VOC-W		14	1.000	19 Sep 2023	00:38

25)	091827.D	8260.M				
VOC W CAL 7	O-VOC-W		15	1.000	19 Sep 2023	01:08

26)	091828.D	8260.M				
VOC W CAL 8	O-VOC-W		16	1.000	19 Sep 2023	01:39

27)	091829.D	8260.M				
VOC W CAL 9	O-VOC-W		17	1.000	19 Sep 2023	02:09

28)	091830.D	8260.M				
R	O-VOC-W			1.000	19 Sep 2023	02:38

29)	091831.D	8260.M				
R	O-VOC-W			1.000	19 Sep 2023	03:07

30)	091832.D	8260.M				
R	O-VOC-W			1.000	19 Sep 2023	03:36

31)	091833.D	8260.M				
VOC W ICB	O-VOC-W		18	1.000	19 Sep 2023	04:06

32)	091834.D	8260.M				
VOC W ICV	O-VOC-W		19	1.000	19 Sep 2023	04:36

33)	091835.D	8260.M				
R	O-VOC-W			1.000	19 Sep 2023	05:05

34)	091836.D	8260.M				
R	O-VOC-W			1.000	19 Sep 2023	05:34

35)	091837.D	8260.M				
R	O-VOC-W			1.000	19 Sep 2023	06:03

36)	091838.D	8260.M				
R	O-VOC-W			1.000	19 Sep 2023	06:32

37)	091904.D	8260.M				
VOC W CAL 3	O-VOC-W		4	1.000	19 Sep 2023	10:17

Data Directory: D:\GC-19\Data\092523\

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) 092550.D No data found	8260.M		0.000	N/A
2) 092501.D R	8260.M O-VOC-W		1.000	25 Sep 2023 08:28
3) 092502.D VOC W CCV A	8260.M O-VOC-W	1	1.000	25 Sep 2023 08:58
4) 092503.D VOC S CCV A	8260.M O-VOC-W	2	1.000	25 Sep 2023 09:28
5) 092504.D GX CCV A	8260.M O-VOC-W	3	1.000	25 Sep 2023 09:58
6) 092505.D 1122 TETRA TEST	8260.M O-VOC-W	4	1.000	25 Sep 2023 10:28
7) 092506.D R	8260.M O-VOC-W		1.000	25 Sep 2023 10:57
8) 092507.D MB S	8260.M O-VOC-S	5	1.000	25 Sep 2023 11:27
9) 092508.D 2309261-001B	8260.M O-VOC-S	6	1.000	25 Sep 2023 11:57
10) 092509.D 2309261-001BDUP	8260.M O-VOC-S	7	1.000	25 Sep 2023 12:28
11) 092510.D 2309343-001B	8260.M O-VOC-S	8	1.000	25 Sep 2023 12:58
12) 092511.D 2309343-002B	8260.M O-VOC-S	9	1.000	25 Sep 2023 13:28
13) 092512.D 2309343-003B	8260.M O-VOC-S	10	1.000	25 Sep 2023 13:58
14) 092513.D 2309343-004B	8260.M O-VOC-S	11	1.000	25 Sep 2023 14:28
15) 092514.D 2309343-001BMS VOC	8260.M O-VOC-S	12	1.000	25 Sep 2023 14:58
16) 092515.D 2309343-002BMS GX	8260.M O-VOC-S	13	1.000	25 Sep 2023 15:29
17) 092516.D R	8260.M O-VOC-S		1.000	25 Sep 2023 15:58
18) 092517.D GX CCV B	8260.M O-VOC-S	14	1.000	25 Sep 2023 16:28
19) 092518.D VOC W CCV B	8260.M O-VOC-W	15	1.000	25 Sep 2023 16:58
20) 092519.D R	8260.M O-VOC-S		1.000	25 Sep 2023 17:27
21) 092520.D 2309364-002B	8260.M O-VOC-S	16	1.000	25 Sep 2023 17:57

22)	092521.D		8260.M				
	2309364-001B	O-VOC-S		17	1.000	25 Sep 2023	18:27

	23) 092522.D		8260.M				
R		O-VOC-W			1.000	25 Sep 2023	18:56

	24) 092523.D		8260.M				
R		O-VOC-W			1.000	25 Sep 2023	19:25

	25) 092524.D		8260.M				
MB W		O-VOC-W		18	1.000	25 Sep 2023	19:55

	26) 092525.D		8260.M				
	2309136-004A 10,000X	O-VOC-W		19	1.000	25 Sep 2023	20:25

	27) 092526.D		8260.M				
	2309137-033A 500X	O-VOC-W		36	1.000	25 Sep 2023	20:56

	28) 092527.D		8260.M				
R		O-VOC-W			1.000	25 Sep 2023	21:24

	29) 092528.D		8260.M				
	2309136-011A	O-VOC-W		20	1.000	25 Sep 2023	21:55

	30) 092529.D		8260.M				
	2309136-017A	O-VOC-W		21	1.000	25 Sep 2023	22:25

	31) 092530.D		8260.M				
	2309137-001A	O-VOC-W		22	1.000	25 Sep 2023	22:55

	32) 092531.D		8260.M				
	2309137-022A	O-VOC-W		23	1.000	25 Sep 2023	23:25

	33) 092532.D		8260.M				
	2309137-023A	O-VOC-W		24	1.000	25 Sep 2023	23:55

	34) 092533.D		8260.M				
	2309137-021A	O-VOC-W		25	1.000	26 Sep 2023	00:25

	35) 092534.D		8260.M				
R		O-VOC-W			1.000	26 Sep 2023	00:54

	36) 092535.D		8260.M				
	2309169-007A	O-VOC-W		26	1.000	26 Sep 2023	01:25

	37) 092536.D		8260.M				
	2309169-008A	O-VOC-W		27	1.000	26 Sep 2023	01:55

	38) 092537.D		8260.M				
	2309169-009A	O-VOC-W		28	1.000	26 Sep 2023	02:25

	39) 092538.D		8260.M				
	2309169-010A	O-VOC-W		29	1.000	26 Sep 2023	02:55

	40) 092539.D		8260.M				
	2309169-011A	O-VOC-W		30	1.000	26 Sep 2023	03:25

	41) 092540.D		8260.M				
	2309169-012A	O-VOC-W		31	1.000	26 Sep 2023	03:55

	42) 092541.D		8260.M				
	2309169-019A	O-VOC-W		32	1.000	26 Sep 2023	04:26

	43) 092542.D		8260.M				
	2309169-019ADUP	O-VOC-W		33	1.000	26 Sep 2023	04:56

	44) 092543.D		8260.M				
	2309169-007AMS VOC	O-VOC-W		34	1.000	26 Sep 2023	05:26

	45) 092544.D		8260.M				

2309169-008AMS GX	O-VOC-W		35	1.000	26 Sep 2023	05:56

46) 092545.D	8260.M					
R	O-VOC-W			1.000	26 Sep 2023	06:25

47) 092546.D	8260.M					
VOC W CCV C	O-VOC-W	37		1.000	26 Sep 2023	06:55

48) 092547.D	8260.M					
GX CCV C	O-VOC-W	38		1.000	26 Sep 2023	07:25

49) 092548.D	8260.M					
R	O-VOC-W			1.000	26 Sep 2023	07:54

50) 092549.D	8260.M					
2309362-001A	O-VOC-W	39		1.000	26 Sep 2023	08:25



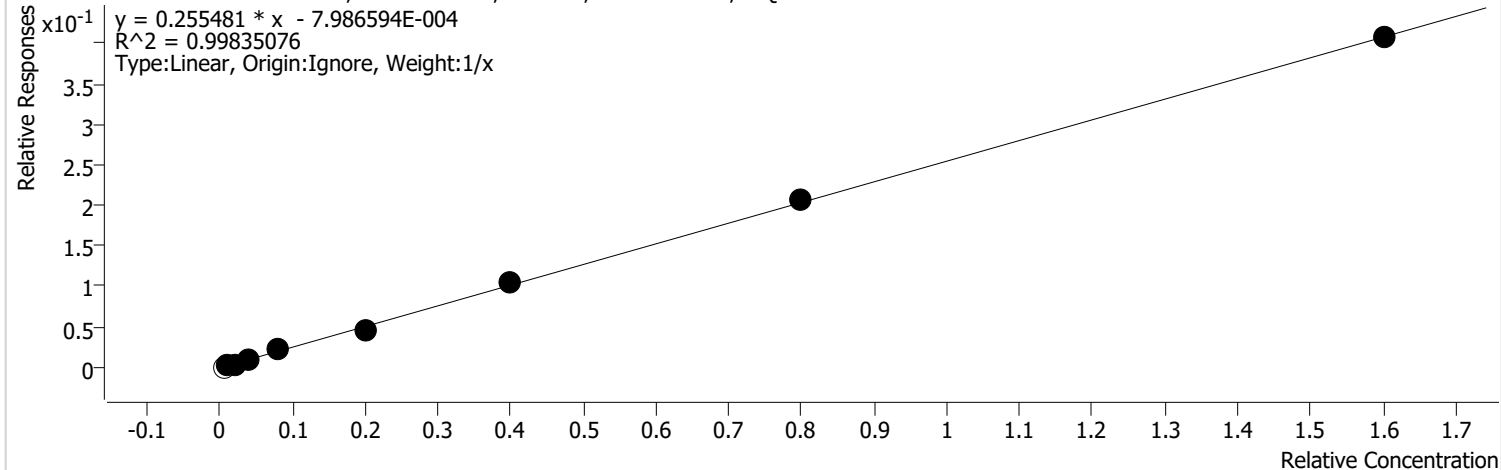
Calibration

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:51 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Dichlorodifluoromethane %RSE = 9.7

Dichlorodifluoromethane - 9 Levels, 8 Levels Used, 9 Points, 8 Points Used, 0 QCs



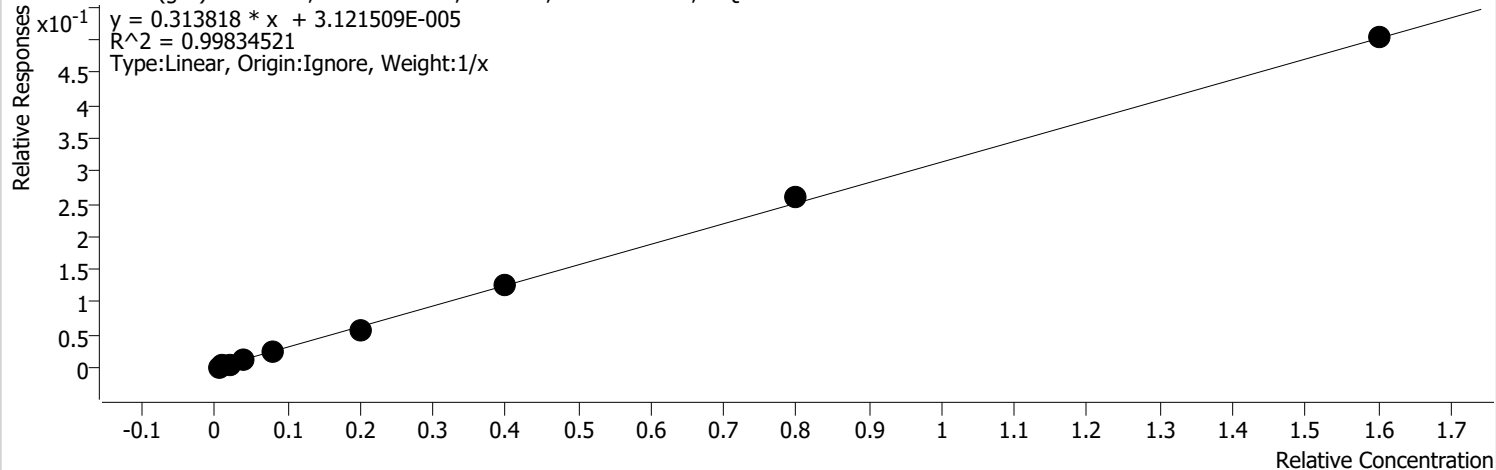
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1		641	0.1000	0.1042	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	2334	0.2000	0.1909	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	5745	0.5000	0.1956	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	13239	1.0000	0.2142	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	32698	2.0000	0.2694	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	66603	5.0000	0.2215	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	156219	10.0000	0.2638	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	309212	20.0000	0.2568	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	638946	40.0000	0.2544	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Chloromethane (gas) %RSE = 11.6

Chloromethane (gas) - 9 Levels, 9 Levels Used, 9 Points, 9 Points Used, 0 QCs

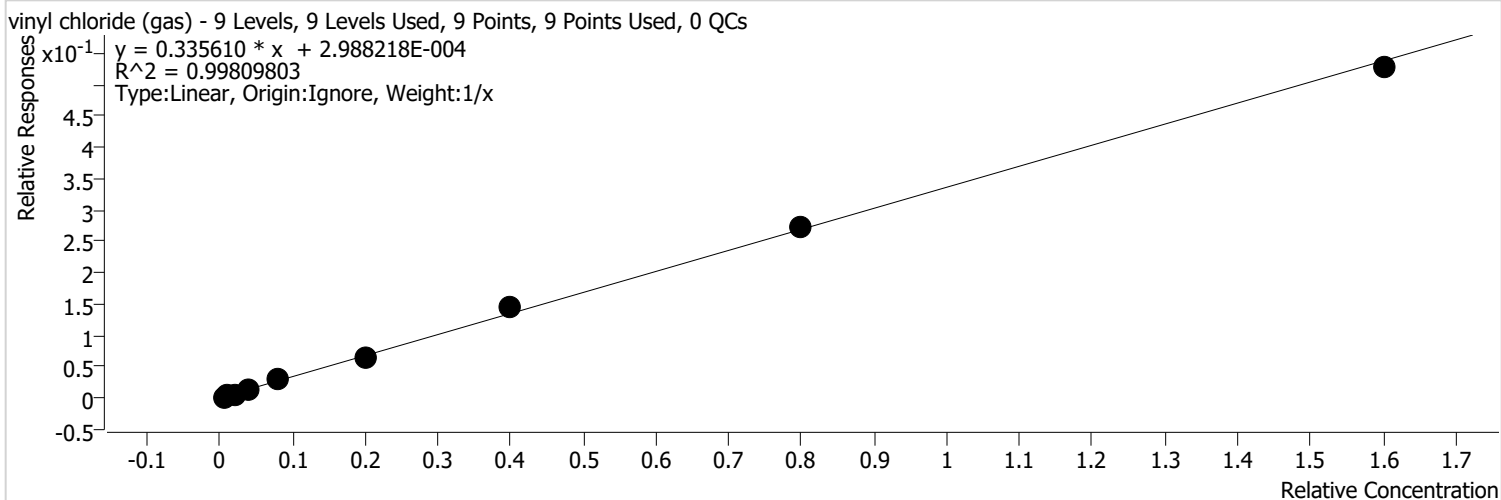


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1	x	2105	0.1000	0.3421	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	4748	0.2000	0.3884	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	8318	0.5000	0.2832	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	17291	1.0000	0.2797	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	38641	2.0000	0.3184	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	82880	5.0000	0.2757	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	185456	10.0000	0.3131	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	390009	20.0000	0.3239	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	789755	40.0000	0.3145	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

vinyl chloride (gas) %RSE = 8.9

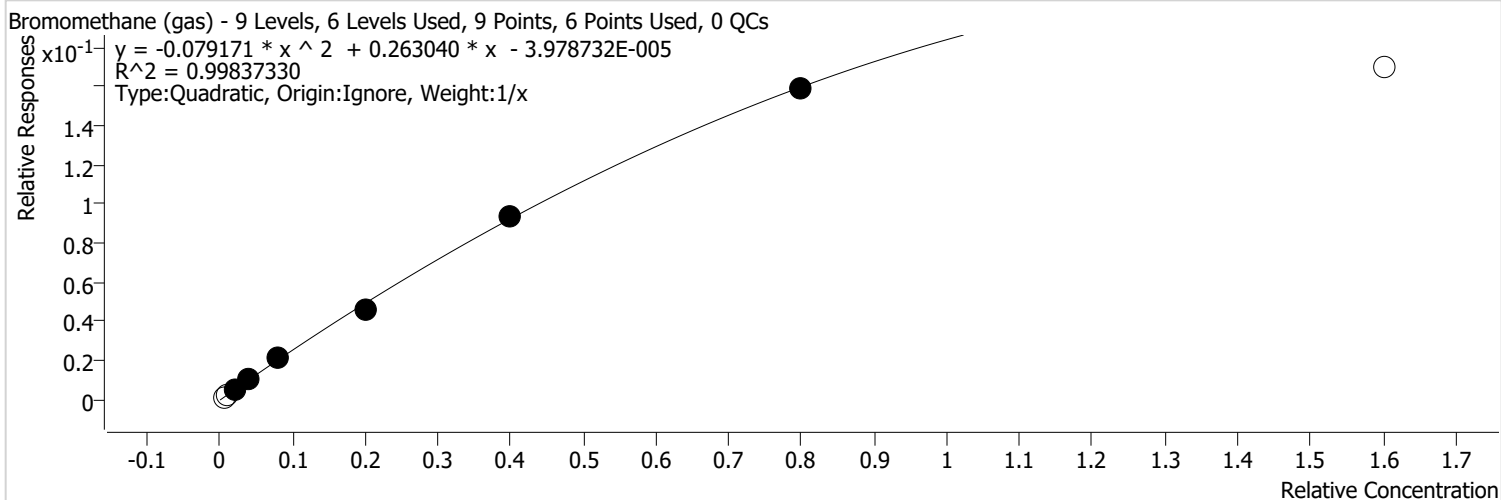


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1	x	2432	0.1000	0.3952	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	4844	0.2000	0.3962	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	9059	0.5000	0.3085	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	20311	1.0000	0.3285	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	47220	2.0000	0.3891	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	94827	5.0000	0.3154	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	212675	10.0000	0.3591	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	409978	20.0000	0.3404	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	826032	40.0000	0.3289	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin	Analyst Name	FA\GC19
Analysis Time	9/21/2023 10:22 AM	Reporter Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Batch State	Processed
Last Calib Update	9/21/2023 9:22 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Bromomethane (gas) %RSE = 7.2

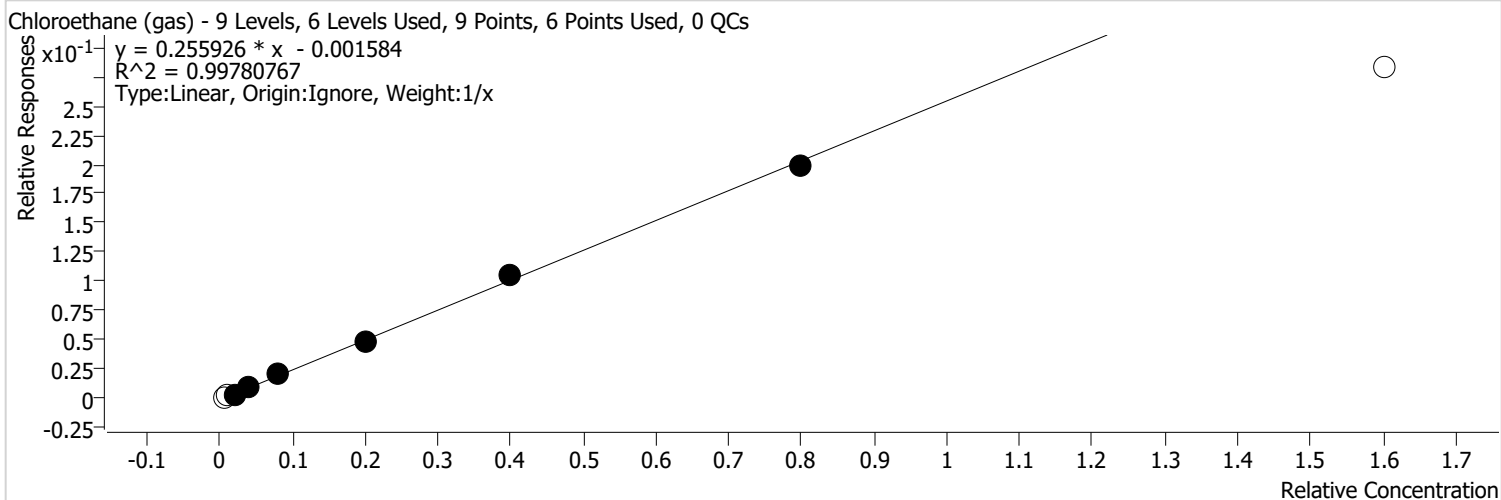


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1		2486	0.1000	0.4041	
D:\GC-19\Data\091823A\091822.D	Calibration	2		4249	0.2000	0.3476	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	7101	0.5000	0.2418	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	16704	1.0000	0.2702	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	33151	2.0000	0.2732	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	69828	5.0000	0.2323	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	139643	10.0000	0.2358	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	239962	20.0000	0.1993	
D:\GC-19\Data\091823A\091829.D	Calibration	9		265905	40.0000	0.1059	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Chloroethane (gas) %RSE = 9.1



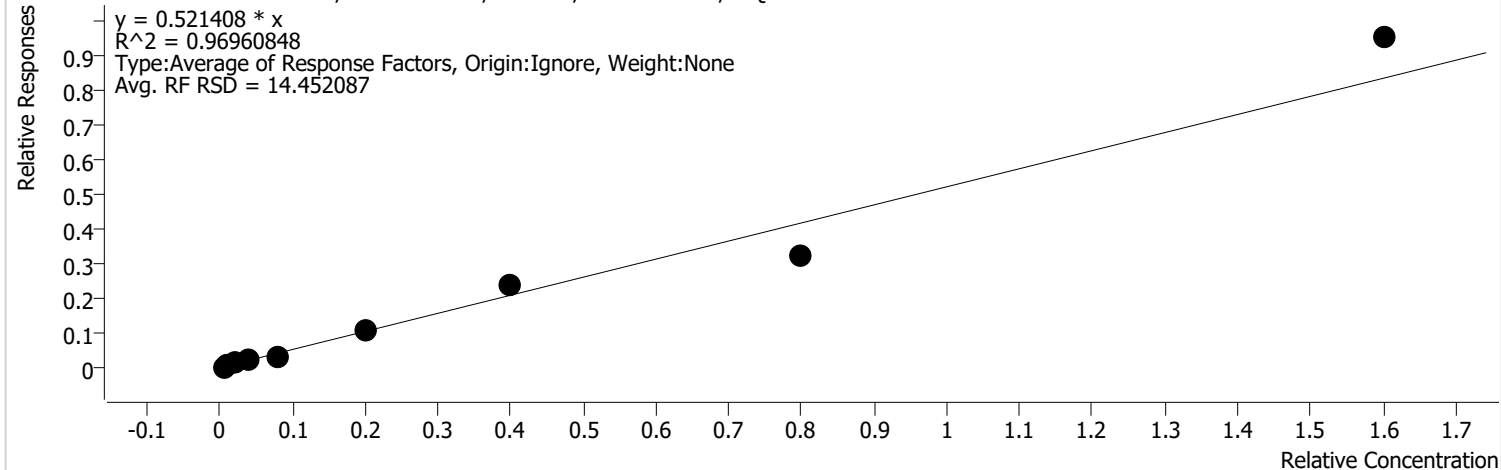
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1		1401	0.1000	0.2276	
D:\GC-19\Data\091823A\091822.D	Calibration	2		3406	0.2000	0.2787	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	4237	0.5000	0.1443	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	14234	1.0000	0.2302	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	31783	2.0000	0.2619	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	70667	5.0000	0.2351	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	155043	10.0000	0.2618	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	300834	20.0000	0.2498	
D:\GC-19\Data\091823A\091829.D	Calibration	9		443586	40.0000	0.1766	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Trichlorofluoromethane %RSE = 14.5

Trichlorofluoromethane - 9 Levels, 9 Levels Used, 9 Points, 9 Points Used, 0 QCs



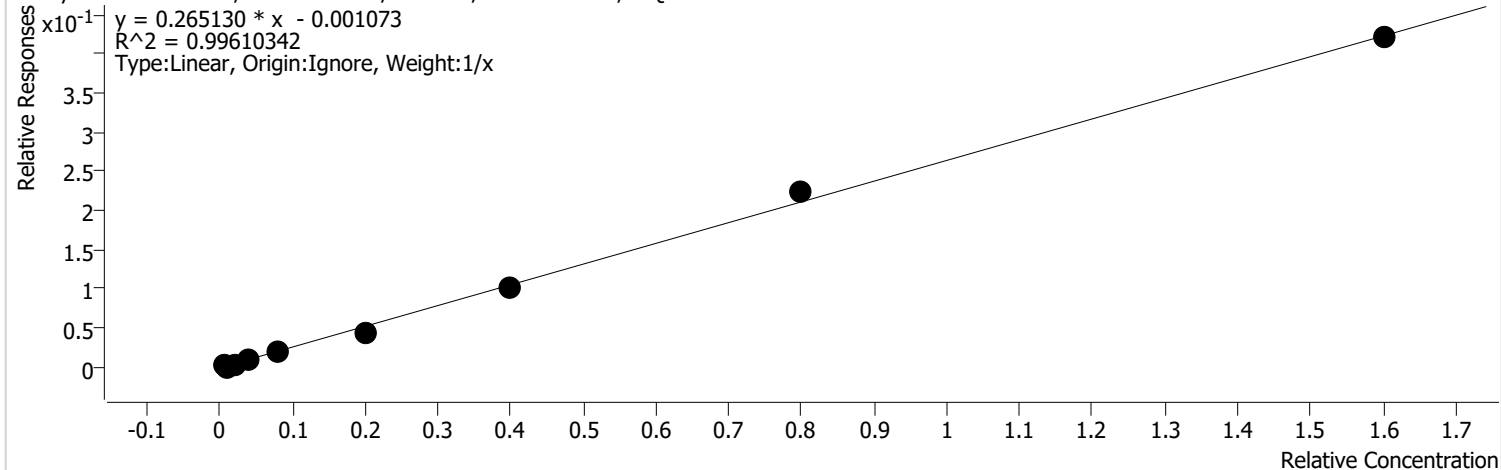
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1	x	3135	0.1000	0.5096	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	6974	0.2000	0.5706	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	16551	0.5000	0.5636	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	32816	1.0000	0.5308	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	47949	2.0000	0.3951	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	156069	5.0000	0.5191	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	356925	10.0000	0.6027	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	489964	20.0000	0.4069	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	1492625	40.0000	0.5943	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Diethyl ether %RSE = 33.3

Diethyl ether - 9 Levels, 9 Levels Used, 9 Points, 9 Points Used, 0 QCs



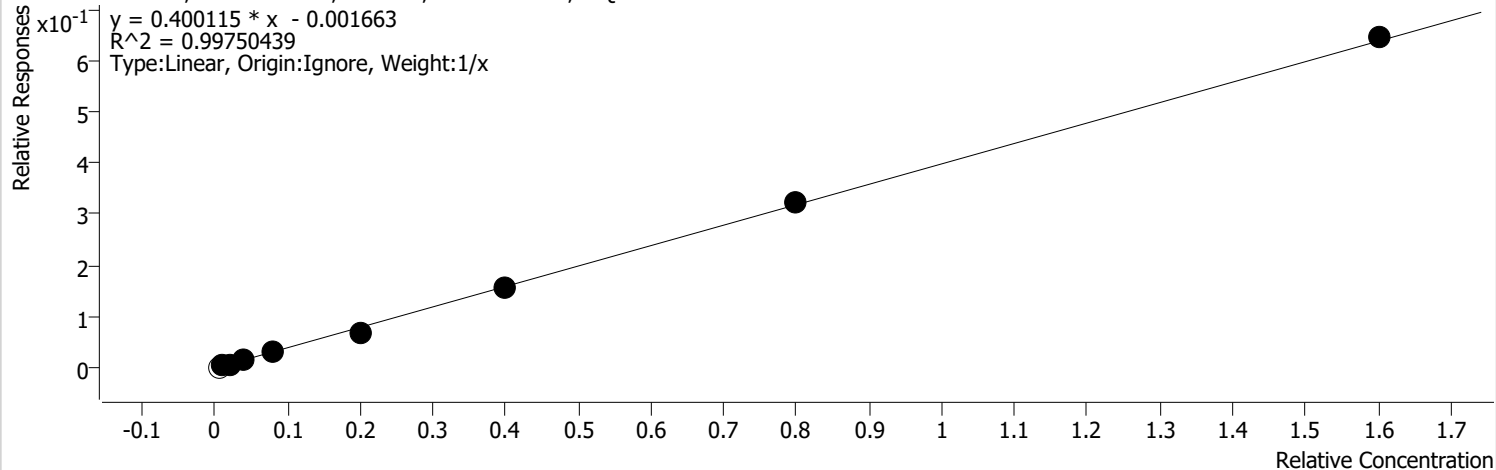
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1	x	1178	0.1000	0.1914	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	144	0.2000	0.0118	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	5731	0.5000	0.1951	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	13164	1.0000	0.2129	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	29554	2.0000	0.2435	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	67390	5.0000	0.2242	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	151954	10.0000	0.2566	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	338835	20.0000	0.2814	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	660364	40.0000	0.2629	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin	Analyst Name	FA\GC19
Analysis Time	9/21/2023 10:22 AM	Reporter Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Batch State	Processed
Last Calib Update	9/21/2023 9:22 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

CFC 113 %RSE = 12.6

CFC 113 - 9 Levels, 8 Levels Used, 9 Points, 8 Points Used, 0 QCs

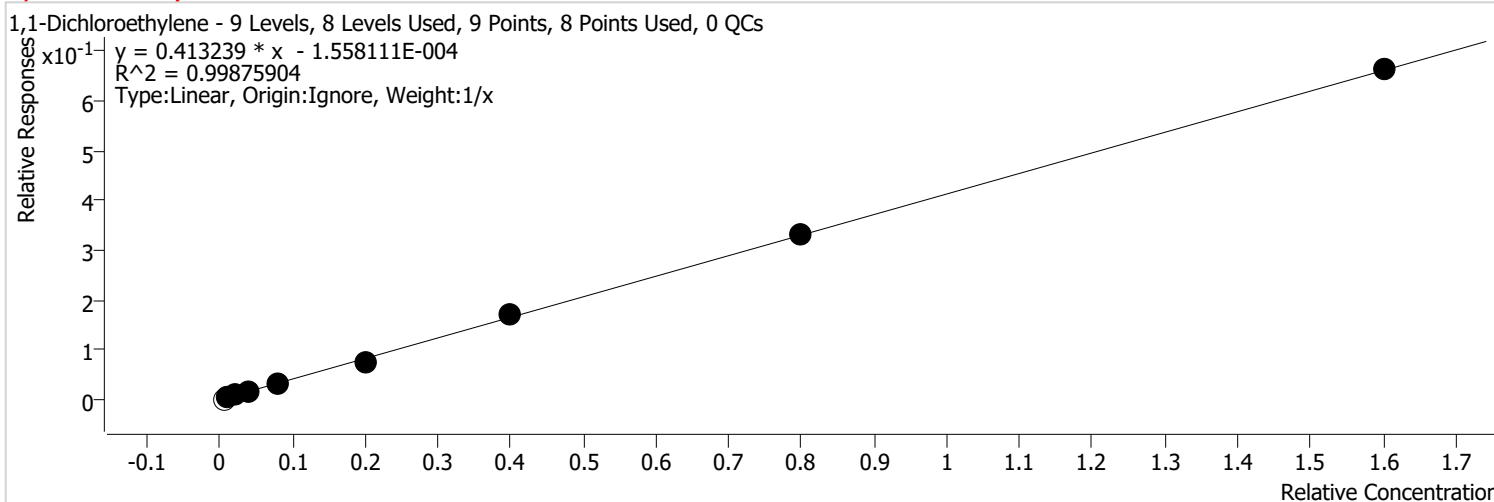


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1		1448	0.1000	0.2353	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	3497	0.2000	0.2861	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	8587	0.5000	0.2924	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	20372	1.0000	0.3295	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	47949	2.0000	0.3951	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	97408	5.0000	0.3240	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	233797	10.0000	0.3948	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	489964	20.0000	0.4069	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	1012618	40.0000	0.4032	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,1-Dichloroethylene %RSE = 8.1



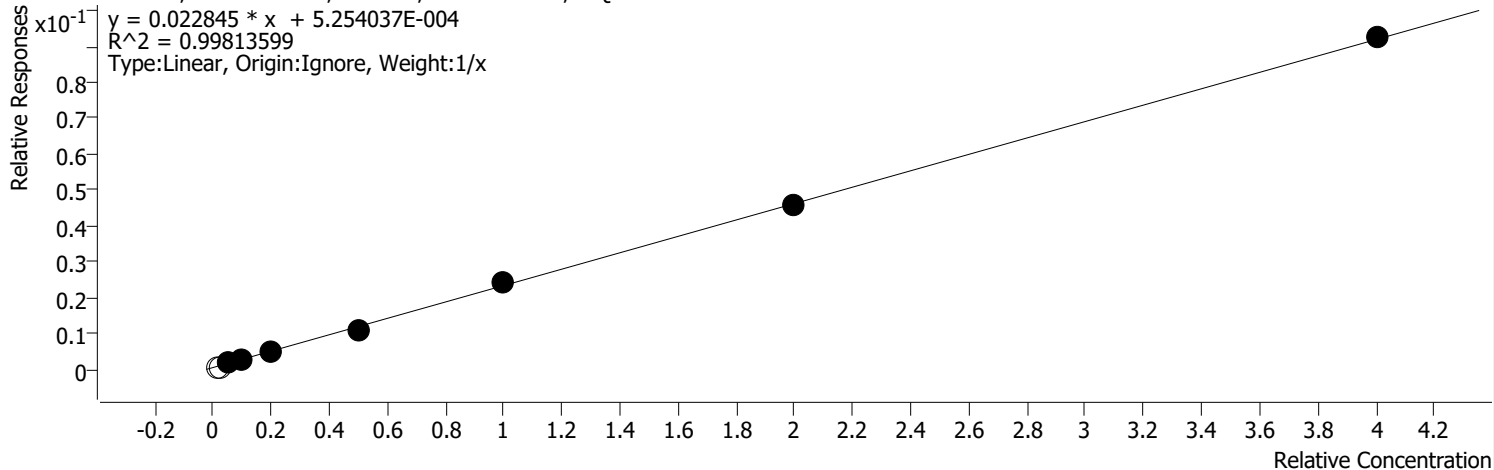
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1		2043	0.1000	0.3320	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	5462	0.2000	0.4469	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	11918	0.5000	0.4058	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	23096	1.0000	0.3736	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	51599	2.0000	0.4252	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	109660	5.0000	0.3648	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	250642	10.0000	0.4232	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	503199	20.0000	0.4178	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	1039812	40.0000	0.4140	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Acetone %RSE = 14.6

Acetone - 9 Levels, 7 Levels Used, 9 Points, 7 Points Used, 0 QCs



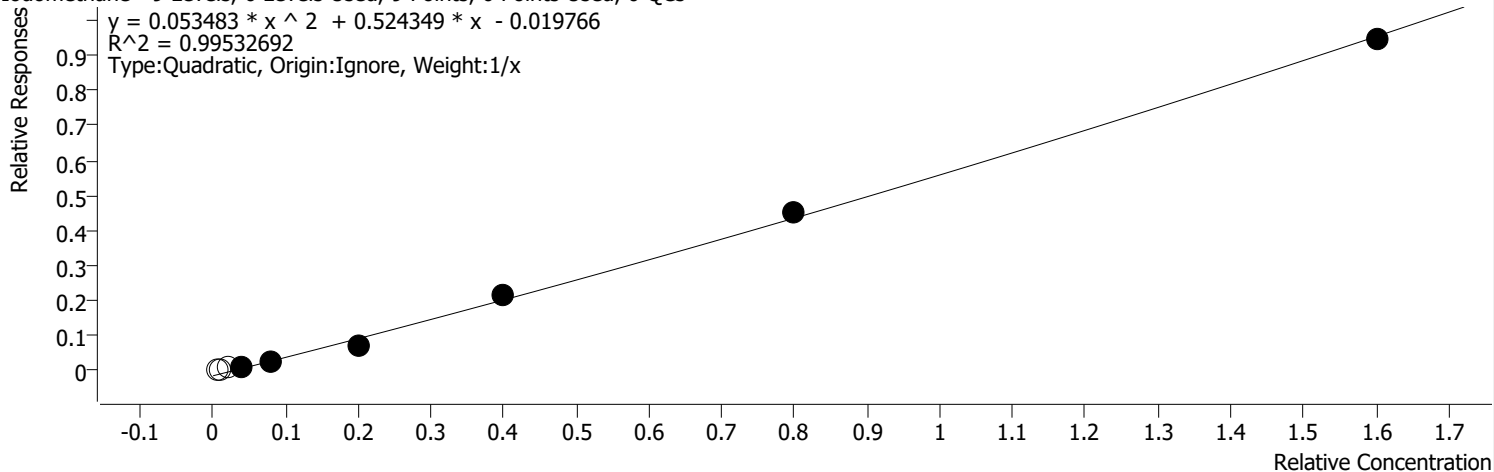
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1		1123	0.2500	0.0730	
D:\GC-19\Data\091823A\091822.D	Calibration	2		1226	0.5000	0.0401	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	2866	1.2500	0.0390	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	3679	2.5000	0.0238	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	7597	5.0000	0.0250	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	16506	12.5000	0.0220	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	36060	25.0000	0.0244	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	69204	50.0000	0.0230	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	144979	100.0000	0.0231	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Iodomethane %RSE = 17.6

Iodomethane - 9 Levels, 6 Levels Used, 9 Points, 6 Points Used, 0 QCs



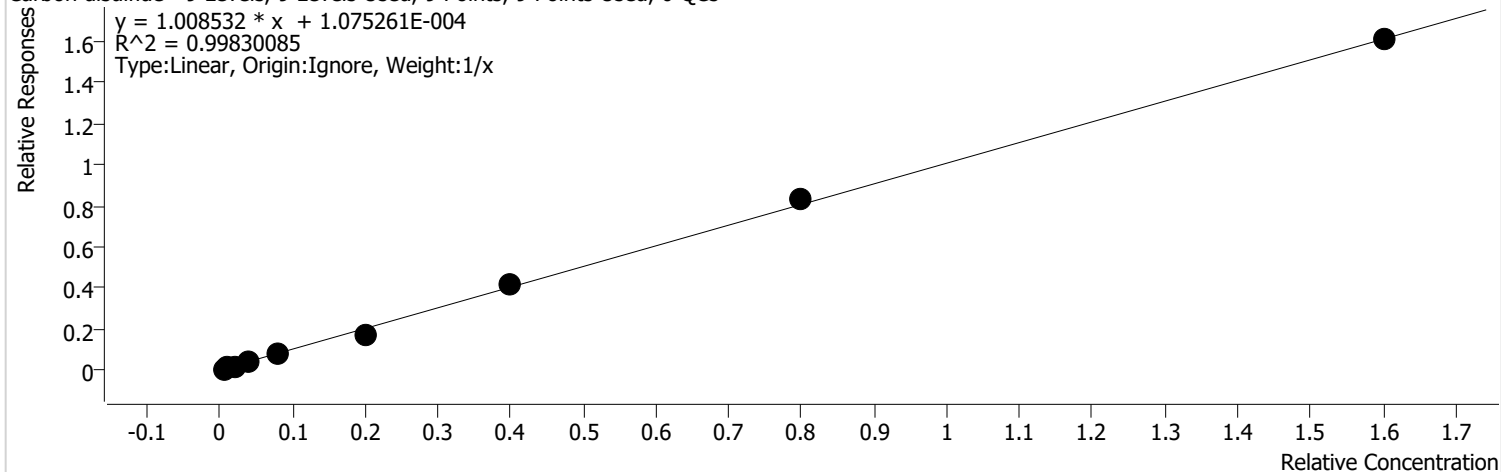
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1		520	0.1000	0.0846	
D:\GC-19\Data\091823A\091822.D	Calibration	2		1168	0.2000	0.0955	
D:\GC-19\Data\091823A\091904.D	Calibration	3		6999	0.5000	0.2383	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	8614	1.0000	0.1393	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	28663	2.0000	0.2362	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	98168	5.0000	0.3265	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	312319	10.0000	0.5274	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	680806	20.0000	0.5653	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	1485888	40.0000	0.5917	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Carbon disulfide %RSE = 9.4

Carbon disulfide - 9 Levels, 9 Levels Used, 9 Points, 9 Points Used, 0 QCs



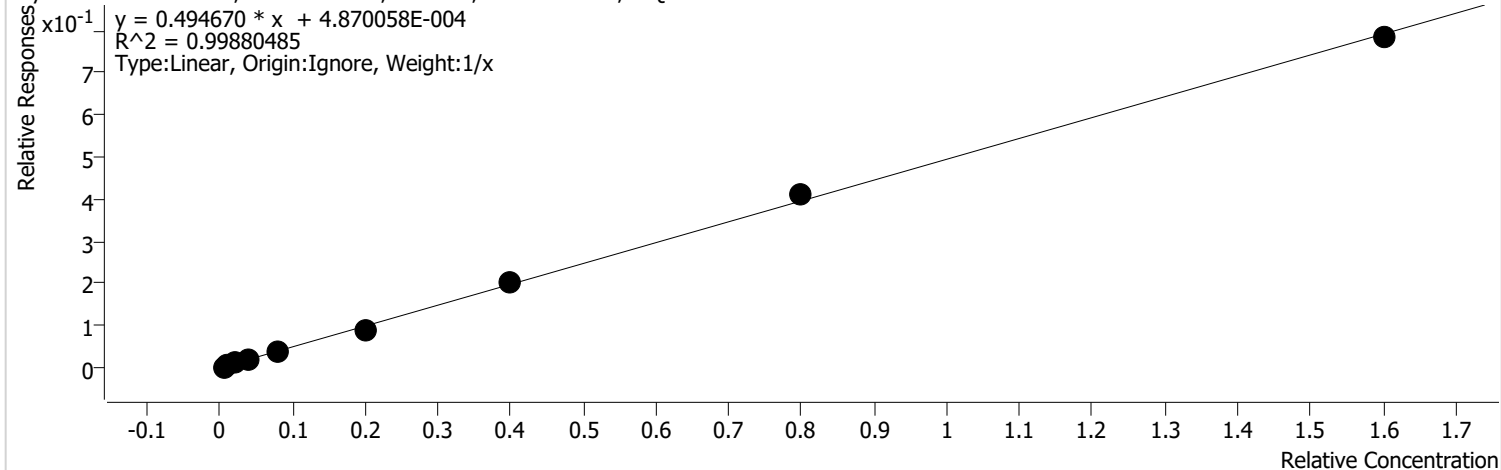
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1	x	7226	0.1000	1.1745	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	13515	0.2000	1.1056	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	29091	0.5000	0.9906	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	54241	1.0000	0.8774	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	124199	2.0000	1.0234	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	264340	5.0000	0.8793	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	611287	10.0000	1.0322	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	1250078	20.0000	1.0380	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	2527670	40.0000	1.0065	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Allyl Chloride %RSE = 8.4

Allyl Chloride - 9 Levels, 9 Levels Used, 9 Points, 9 Points Used, 0 QCs

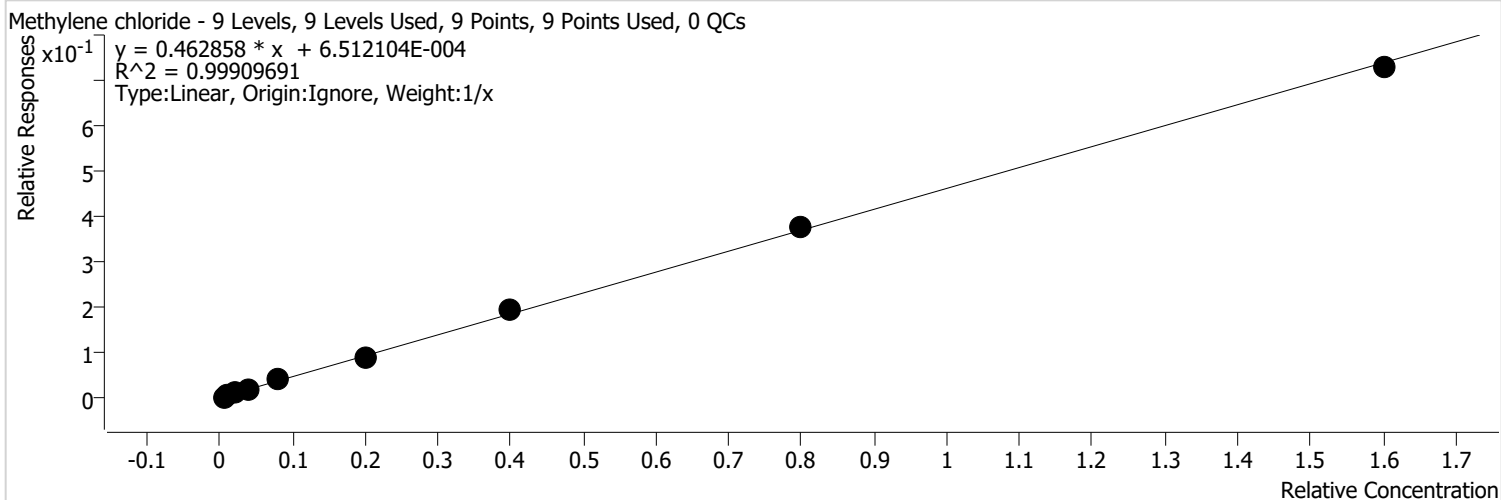


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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D:\GC-19\Data\091823A\091822.D	Calibration	2	x	7685	0.2000	0.6287	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	14788	0.5000	0.5036	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	27402	1.0000	0.4432	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	61612	2.0000	0.5077	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	137613	5.0000	0.4577	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	299447	10.0000	0.5056	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	618236	20.0000	0.5134	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	1229182	40.0000	0.4894	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Methylene chloride %RSE = 7.1



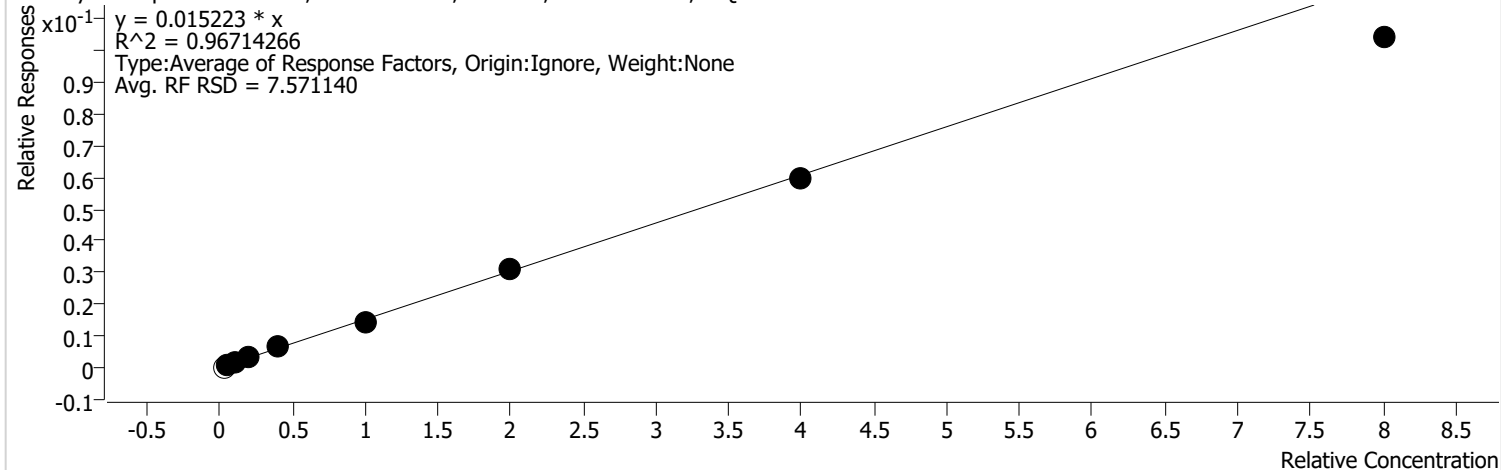
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1	x	3573	0.1000	0.5807	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	7049	0.2000	0.5766	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	15717	0.5000	0.5352	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	27146	1.0000	0.4391	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	58740	2.0000	0.4840	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	132884	5.0000	0.4420	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	288429	10.0000	0.4870	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	568355	20.0000	0.4719	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	1145959	40.0000	0.4563	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\loc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

2-Methyl-2-Propanol %RSE = 7.6

2-Methyl-2-Propanol - 9 Levels, 8 Levels Used, 9 Points, 8 Points Used, 0 QCs



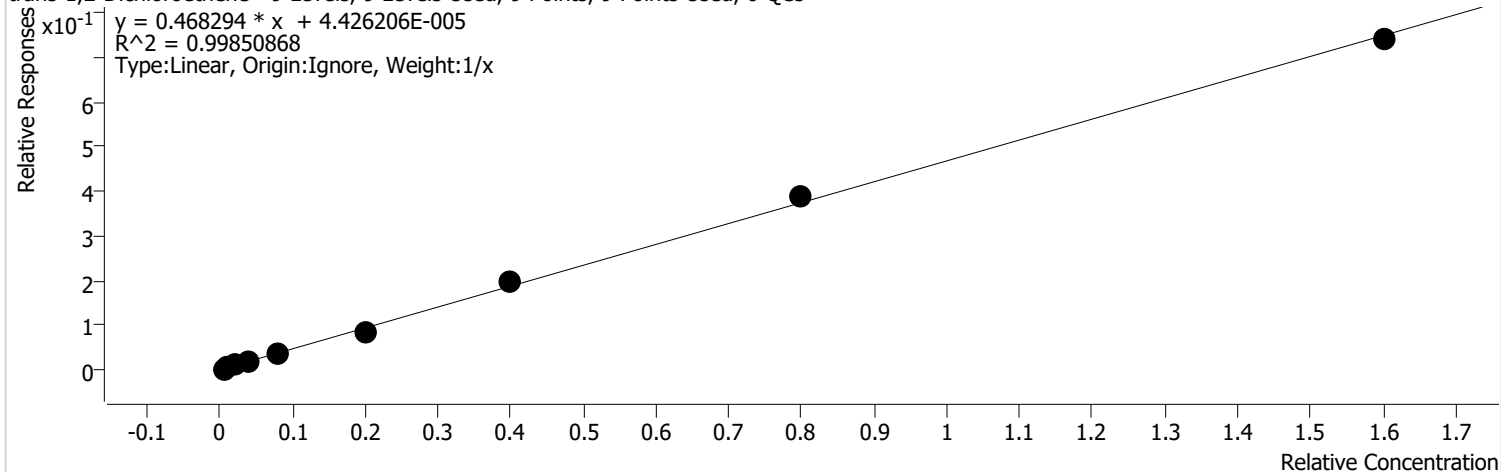
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1		292	0.5000	0.0095	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	1000	1.0000	0.0164	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	2270	2.5000	0.0155	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	4940	5.0000	0.0160	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	9978	10.0000	0.0164	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	21430	25.0000	0.0143	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	45445	50.0000	0.0153	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	89819	100.0000	0.0149	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	163515	200.0000	0.0130	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\loc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

trans-1,2-Dichloroethene %RSE = 7.5

trans-1,2-Dichloroethene - 9 Levels, 9 Levels Used, 9 Points, 9 Points Used, 0 QCs



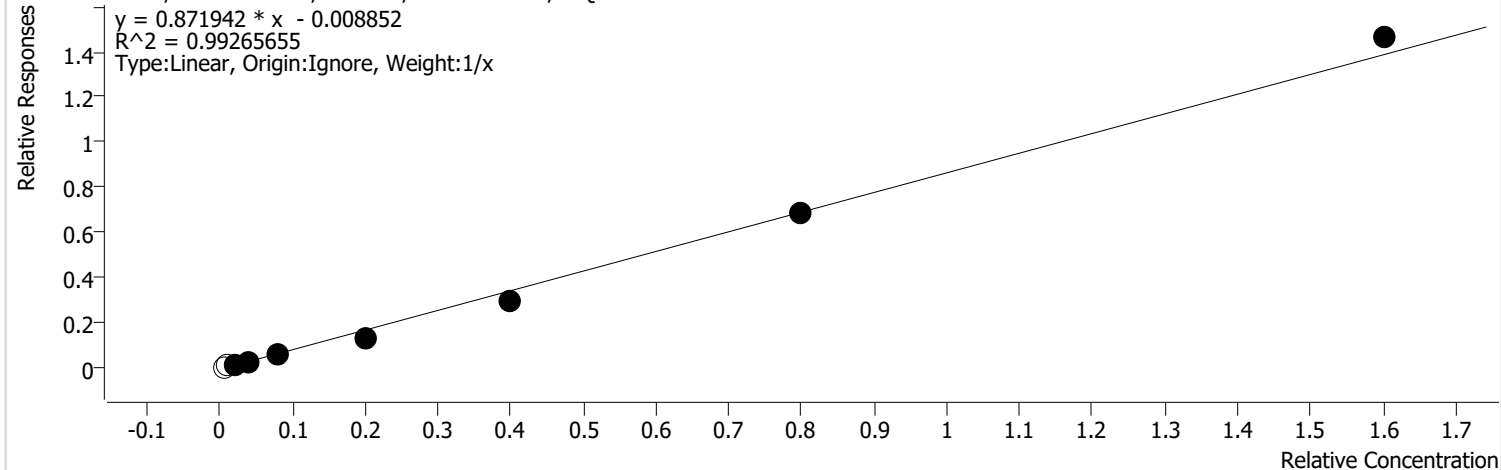
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1	x	2963	0.1000	0.4816	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	6489	0.2000	0.5308	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	13732	0.5000	0.4676	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	26113	1.0000	0.4224	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	58255	2.0000	0.4800	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	126372	5.0000	0.4204	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	287914	10.0000	0.4861	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	583234	20.0000	0.4843	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	1160982	40.0000	0.4623	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

MTBE %RSE = 16.3

MTBE - 9 Levels, 7 Levels Used, 9 Points, 7 Points Used, 0 QCs



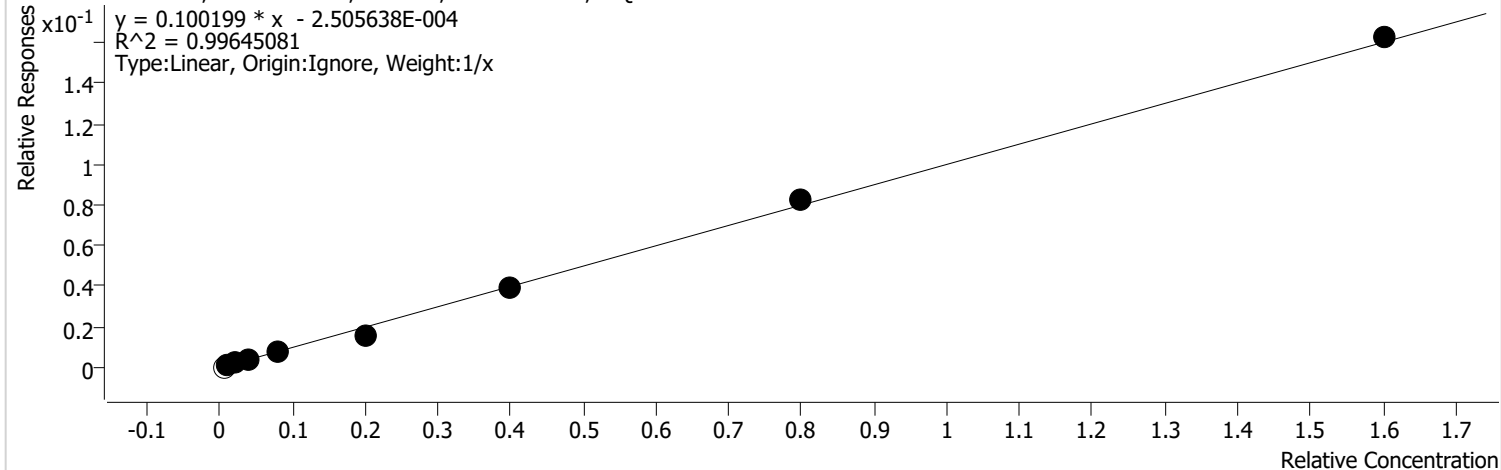
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1		3527	0.1000	0.5733	
D:\GC-19\Data\091823A\091822.D	Calibration	2		7230	0.2000	0.5915	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	19743	0.5000	0.6723	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	39774	1.0000	0.6434	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	91766	2.0000	0.7562	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	198579	5.0000	0.6605	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	440692	10.0000	0.7441	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	1030897	20.0000	0.8560	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	2294265	40.0000	0.9136	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

n-Hexane %RSE = 10.8

n-Hexane - 9 Levels, 8 Levels Used, 9 Points, 8 Points Used, 0 QCs

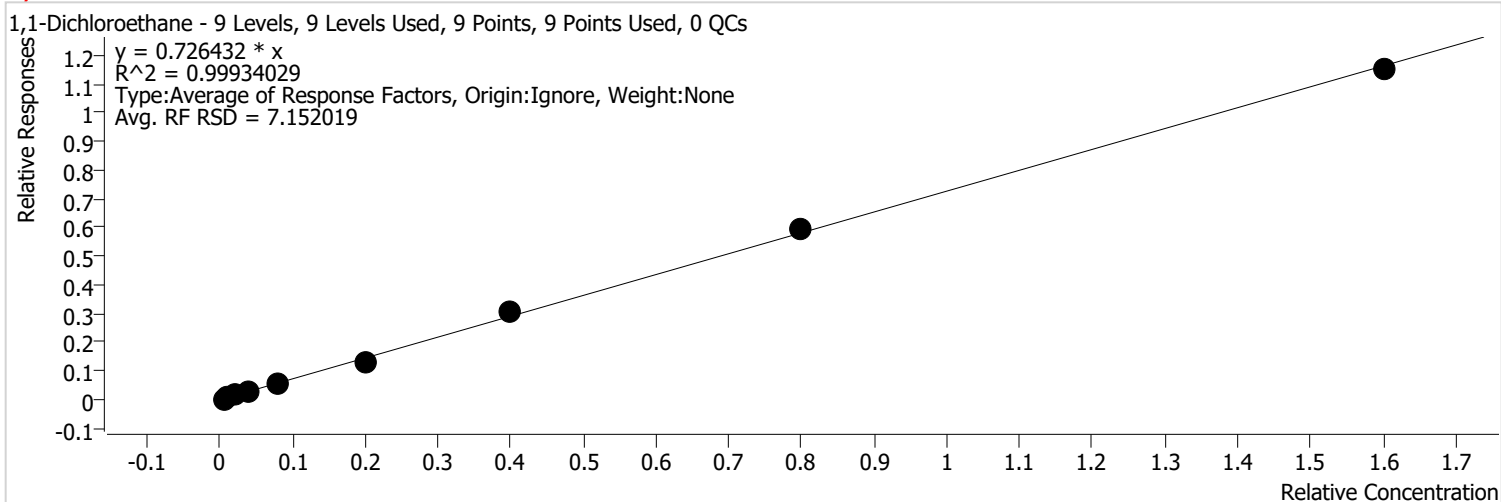


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1		296	0.1000	0.0481	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	935	0.2000	0.0765	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	2931	0.5000	0.0998	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	5408	1.0000	0.0875	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	12406	2.0000	0.1022	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	23661	5.0000	0.0787	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	57420	10.0000	0.0970	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	123914	20.0000	0.1029	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	254744	40.0000	0.1014	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,1-Dichloroethane %RSE = 7.2

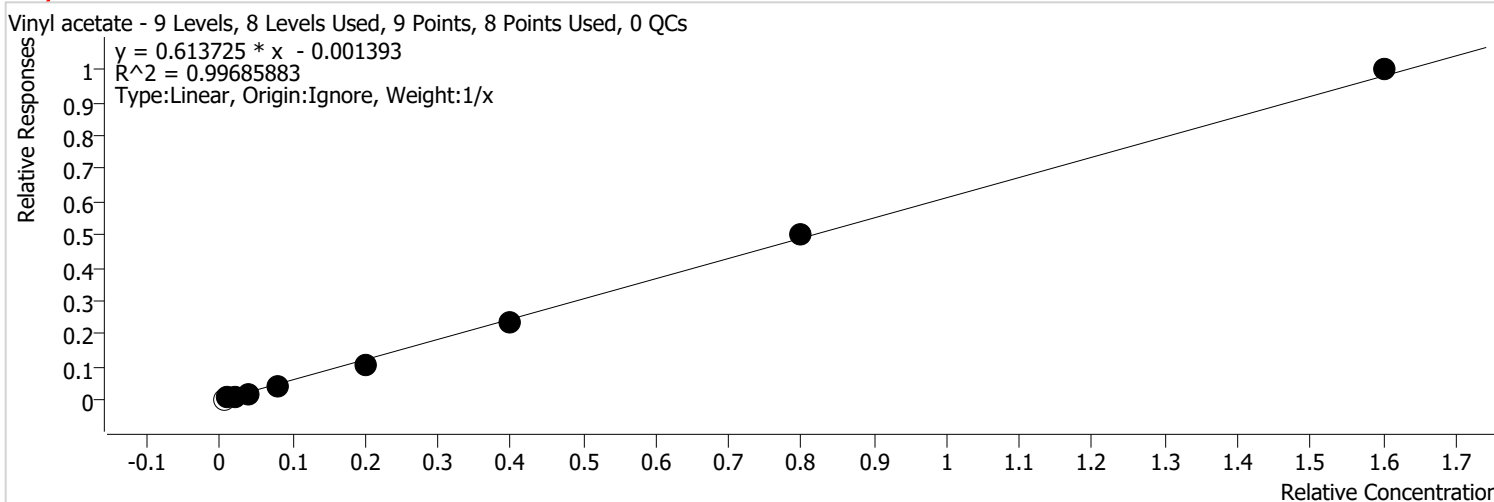


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1	x	4528	0.1000	0.7359	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	9967	0.2000	0.8154	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	20887	0.5000	0.7112	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	39281	1.0000	0.6354	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	90329	2.0000	0.7443	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	201543	5.0000	0.6704	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	449711	10.0000	0.7593	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	900763	20.0000	0.7480	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	1802986	40.0000	0.7179	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Vinyl acetate %RSE = 21.7



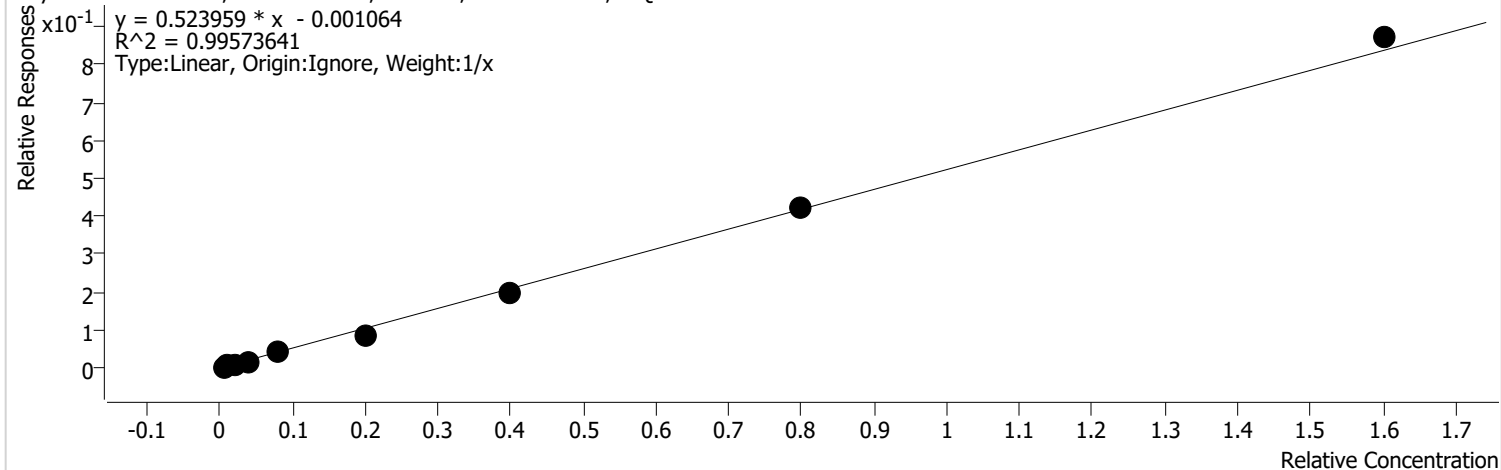
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1		3861	0.1000	0.6275	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	8891	0.2000	0.7274	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	14344	0.5000	0.4884	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	29737	1.0000	0.4810	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	65253	2.0000	0.5377	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	157537	5.0000	0.5240	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	348613	10.0000	0.5886	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	757257	20.0000	0.6288	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	1569160	40.0000	0.6248	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Acrylonitrile %RSE = 16.3

Acrylonitrile - 9 Levels, 9 Levels Used, 9 Points, 9 Points Used, 0 QCs



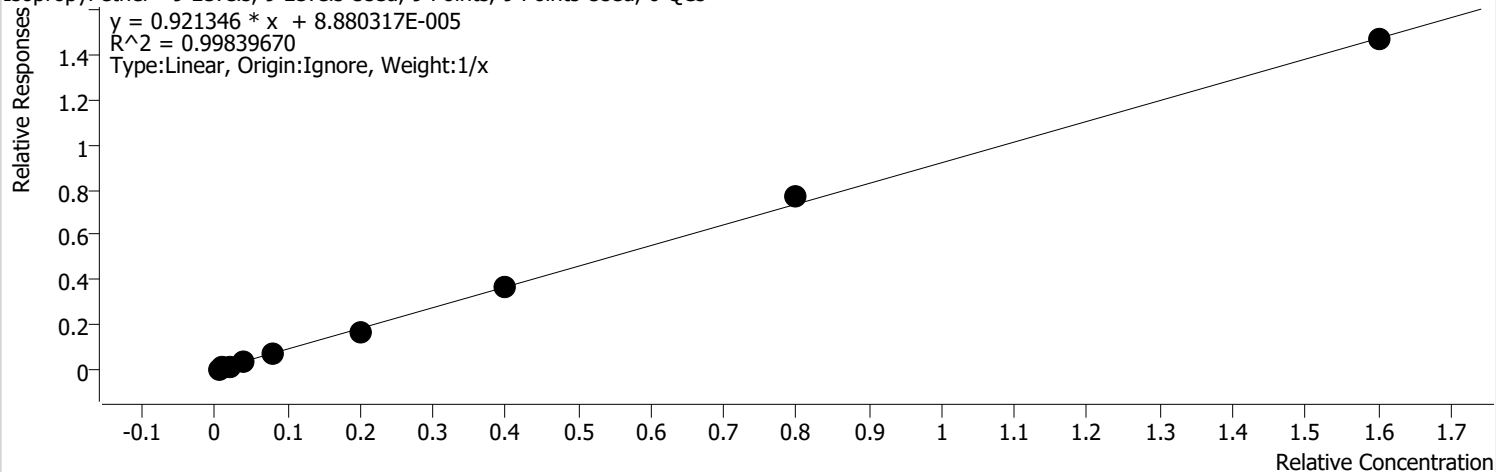
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1	x	2618	0.1000	0.4255	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	5592	0.2000	0.4575	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	12616	0.5000	0.4296	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	25970	1.0000	0.4201	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	60898	2.0000	0.5018	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	126629	5.0000	0.4212	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	288556	10.0000	0.4872	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	633912	20.0000	0.5264	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	1366813	40.0000	0.5443	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Isopropyl ether %RSE = 9.0

Isopropyl ether - 9 Levels, 9 Levels Used, 9 Points, 9 Points Used, 0 QCs



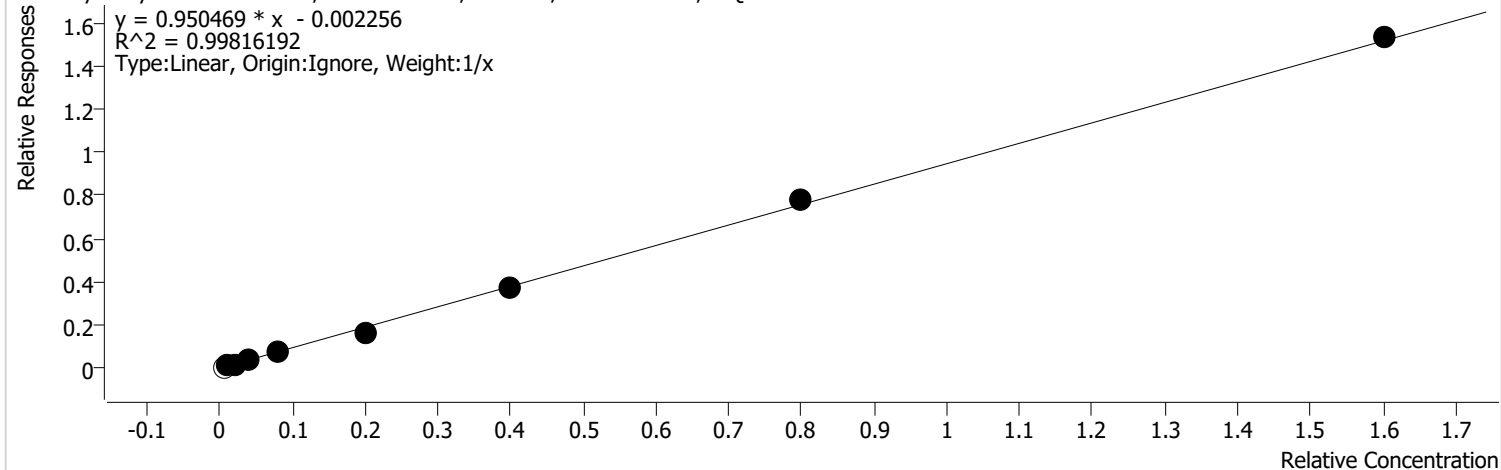
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1	x	6493	0.1000	1.0554	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	12591	0.2000	1.0301	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	25948	0.5000	0.8836	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	50707	1.0000	0.8202	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	112842	2.0000	0.9299	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	244418	5.0000	0.8130	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	548692	10.0000	0.9265	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	1153703	20.0000	0.9580	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	2304110	40.0000	0.9175	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

tert-Butyl Ethyl Ether %RSE = 12.0

tert-Butyl Ethyl Ether - 9 Levels, 8 Levels Used, 9 Points, 8 Points Used, 0 QCs



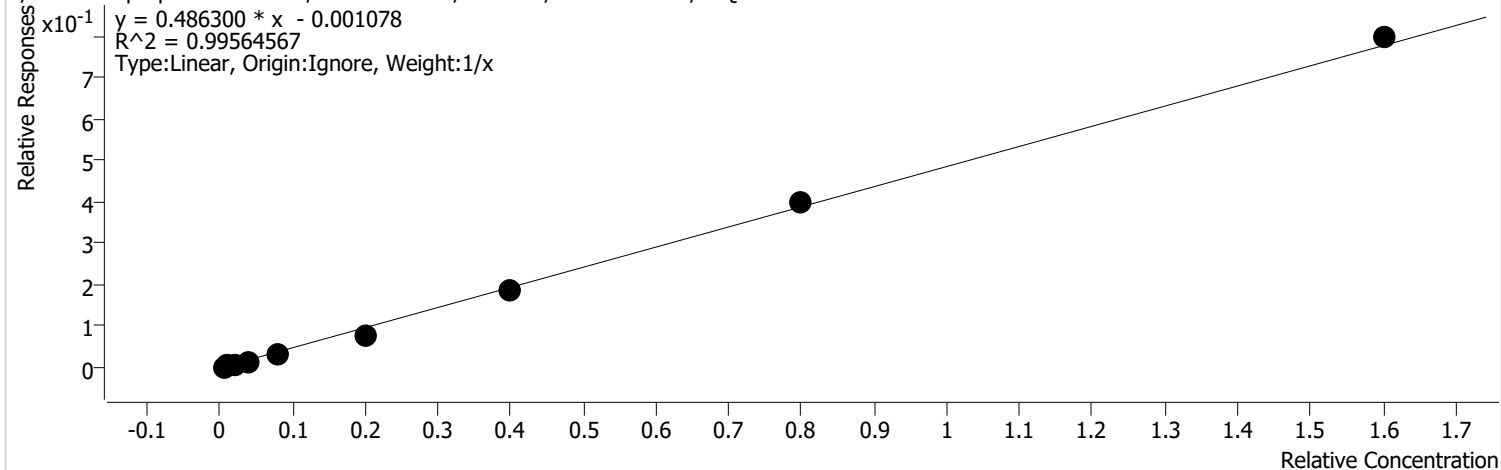
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1		5541	0.1000	0.9005	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	10952	0.2000	0.8960	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	24089	0.5000	0.8203	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	49678	1.0000	0.8036	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	110628	2.0000	0.9116	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	243814	5.0000	0.8110	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	550820	10.0000	0.9301	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	1171088	20.0000	0.9724	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	2406523	40.0000	0.9583	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

2,2-Dichloropropane %RSE = 18.0

2,2-Dichloropropane - 9 Levels, 9 Levels Used, 9 Points, 9 Points Used, 0 QCs

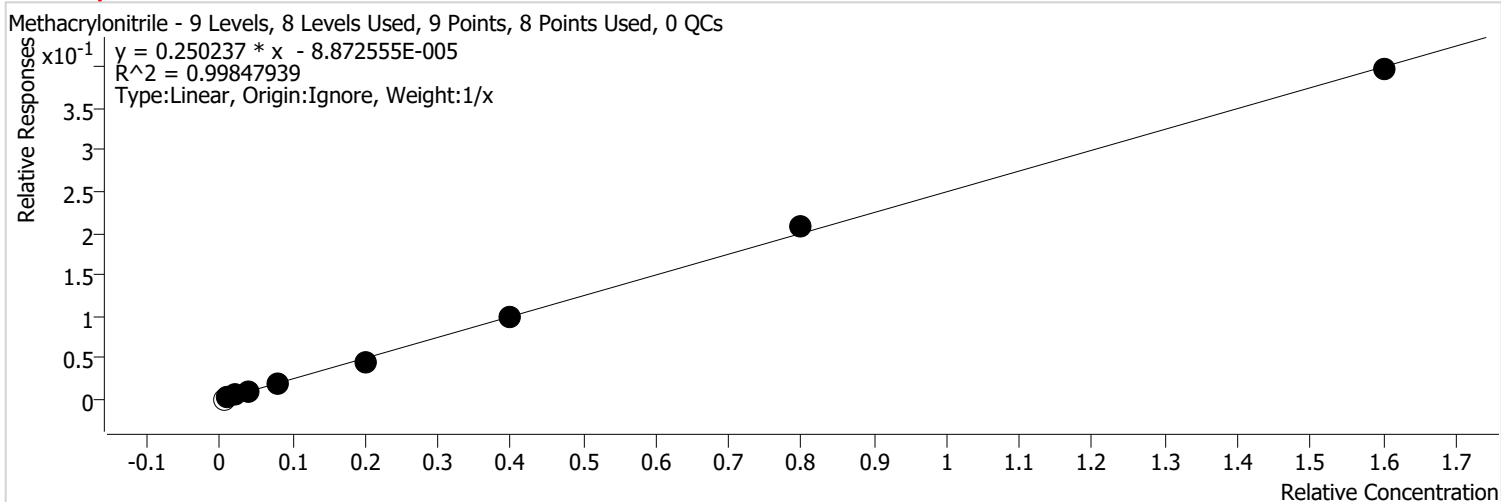


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1	x	2280	0.1000	0.3705	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	5395	0.2000	0.4414	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	12185	0.5000	0.4149	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	22310	1.0000	0.3609	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	51993	2.0000	0.4284	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	115607	5.0000	0.3845	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	277673	10.0000	0.4689	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	603306	20.0000	0.5010	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	1249193	40.0000	0.4974	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Methacrylonitrile %RSE = 7.3



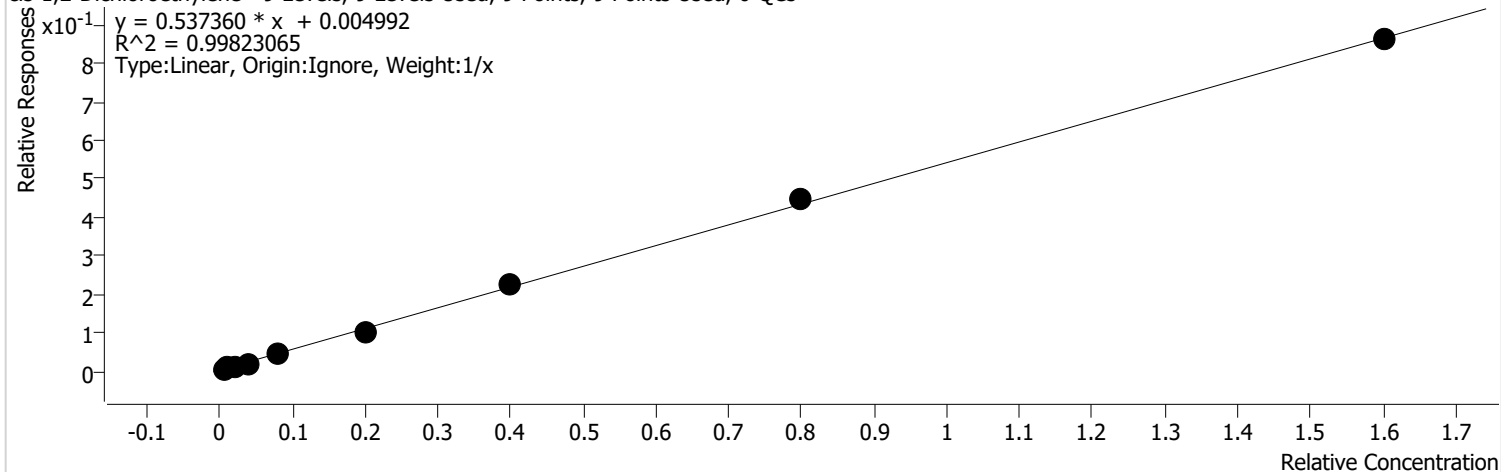
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1		1491	0.1000	0.2423	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	3164	0.2000	0.2588	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	7661	0.5000	0.2609	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	13971	1.0000	0.2260	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	30785	2.0000	0.2537	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	66886	5.0000	0.2225	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	149174	10.0000	0.2519	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	313689	20.0000	0.2605	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	622791	40.0000	0.2480	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

cis-1,2-Dichloroethylene %RSE = 17.9

cis-1,2-Dichloroethylene - 9 Levels, 9 Levels Used, 9 Points, 9 Points Used, 0 QCs



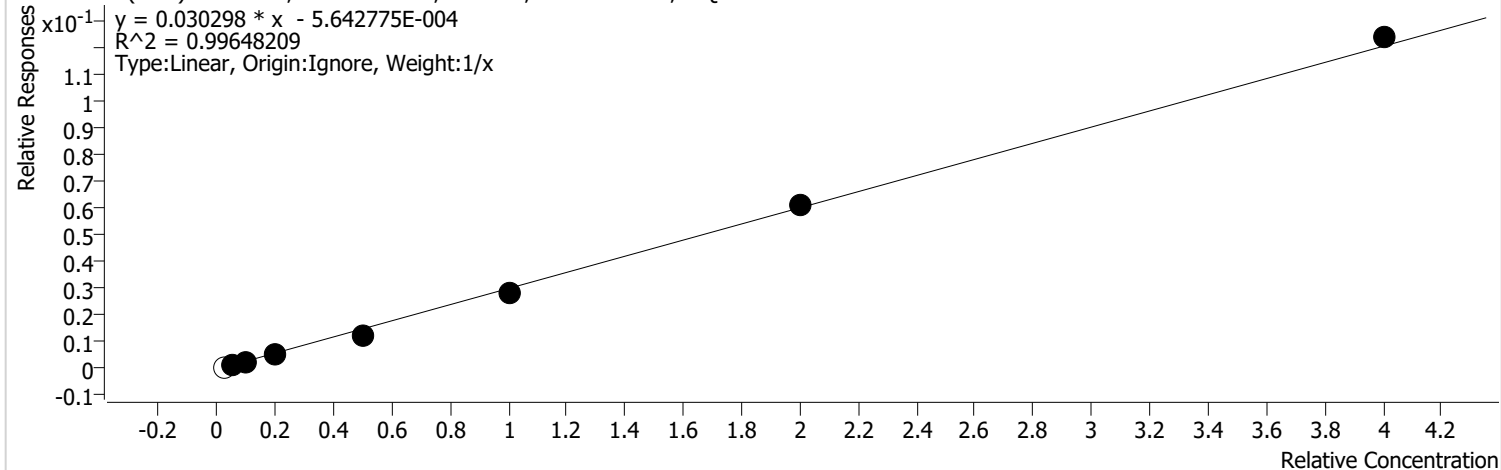
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1	x	12154	0.1000	1.9754	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	14867	0.2000	1.2162	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	19668	0.5000	0.6697	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	34901	1.0000	0.5645	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	70941	2.0000	0.5846	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	156254	5.0000	0.5198	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	333292	10.0000	0.5628	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	675580	20.0000	0.5610	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	1350594	40.0000	0.5378	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

2-Butanone (MEK) %RSE = 15.0

2-Butanone (MEK) - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 0 QCs



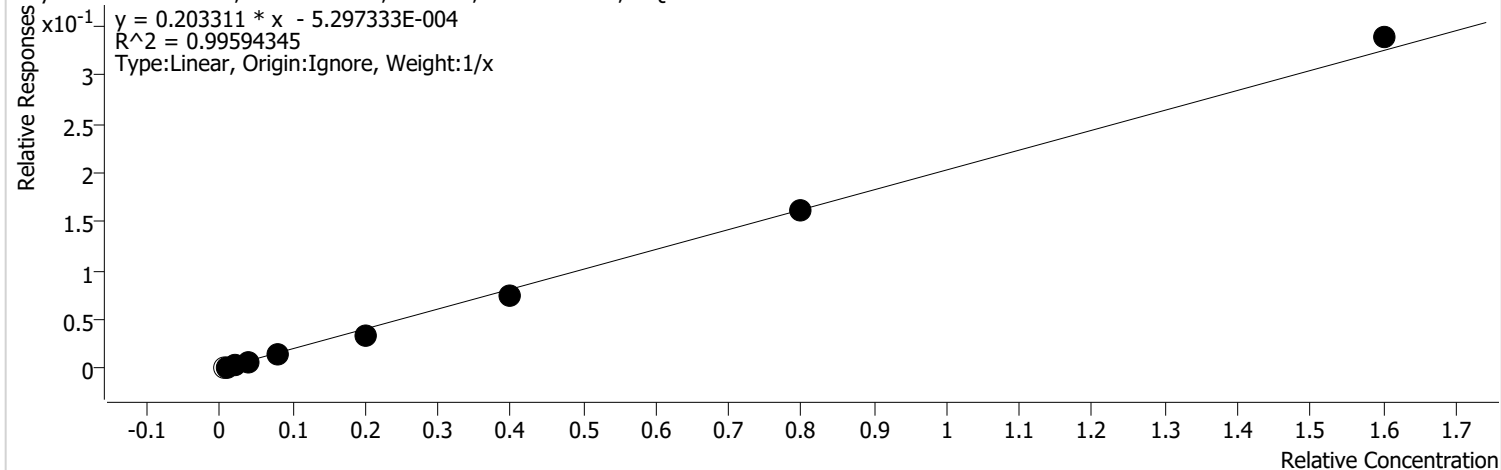
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091822.D	Calibration	2		503	0.5000	0.0165	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	2005	1.2500	0.0273	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	3415	2.5000	0.0221	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	8196	5.0000	0.0270	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	18227	12.5000	0.0243	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	41769	25.0000	0.0282	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	91485	50.0000	0.0304	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	194320	100.0000	0.0310	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Ethyl acetate %RSE = 13.2

Ethyl acetate - 9 Levels, 8 Levels Used, 9 Points, 8 Points Used, 0 QCs

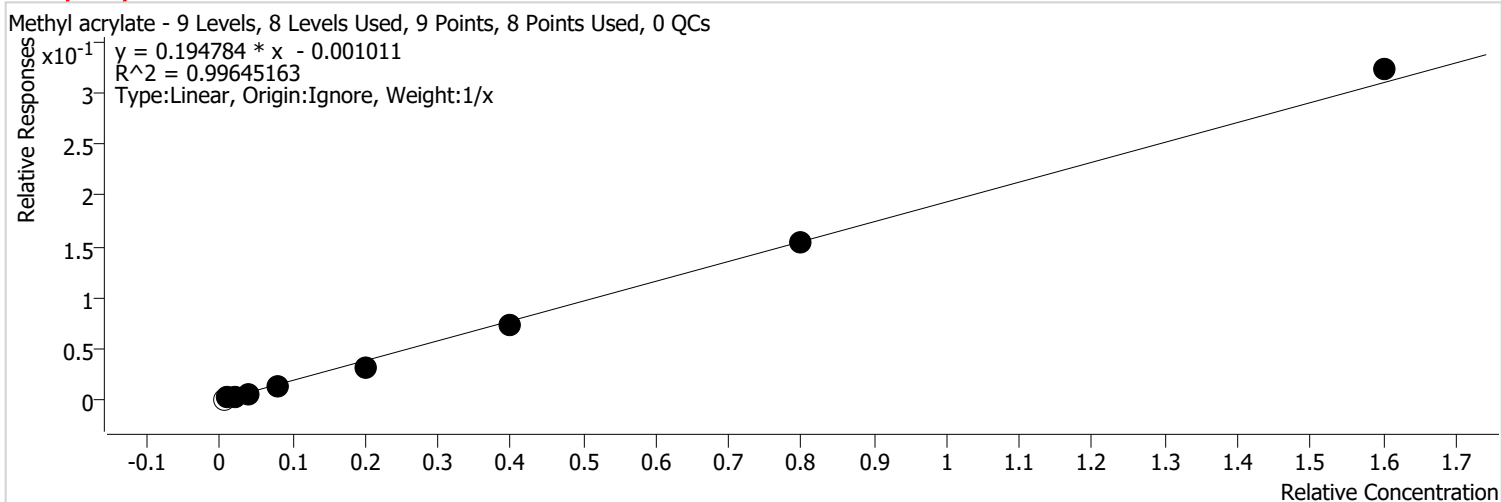


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1		2413	0.1000	0.3923	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	2027	0.2000	0.1658	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	6376	0.5000	0.2171	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	10677	1.0000	0.1727	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	22460	2.0000	0.1851	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	50179	5.0000	0.1669	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	111005	10.0000	0.1874	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	244160	20.0000	0.2027	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	530293	40.0000	0.2112	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Methyl acrylate %RSE = 13.6



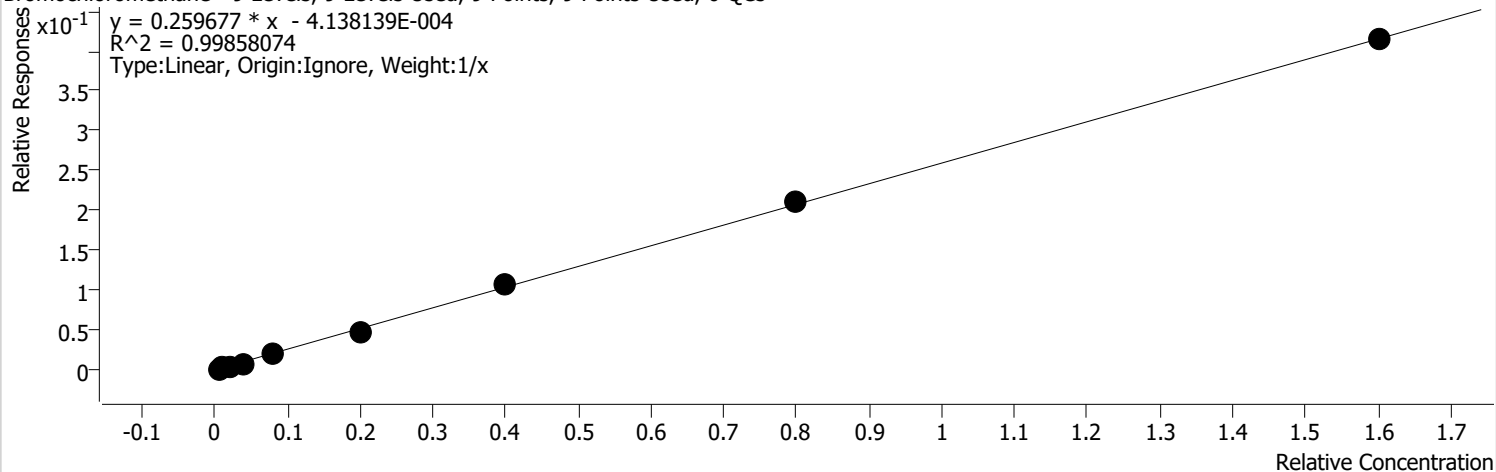
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1		682	0.1000	0.1108	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	1387	0.2000	0.1135	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	4885	0.5000	0.1663	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	9066	1.0000	0.1466	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	20964	2.0000	0.1727	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	47952	5.0000	0.1595	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	107520	10.0000	0.1815	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	230773	20.0000	0.1916	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	507530	40.0000	0.2021	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Bromochloromethane %RSE = 11.3

Bromochloromethane - 9 Levels, 9 Levels Used, 9 Points, 9 Points Used, 0 QCs

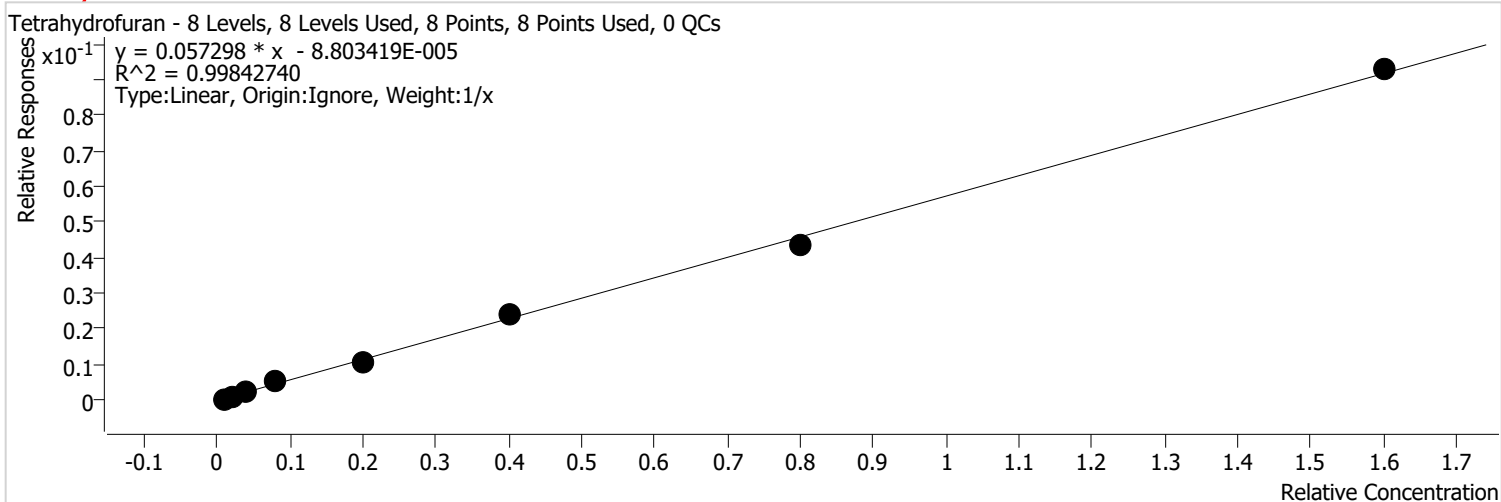


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1	x	1224	0.1000	0.1989	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	2886	0.2000	0.2361	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	6897	0.5000	0.2349	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	12210	1.0000	0.1975	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	29880	2.0000	0.2462	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	70998	5.0000	0.2362	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	160017	10.0000	0.2702	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	316893	20.0000	0.2631	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	649780	40.0000	0.2587	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Tetrahydrofuran %RSE = 7.1



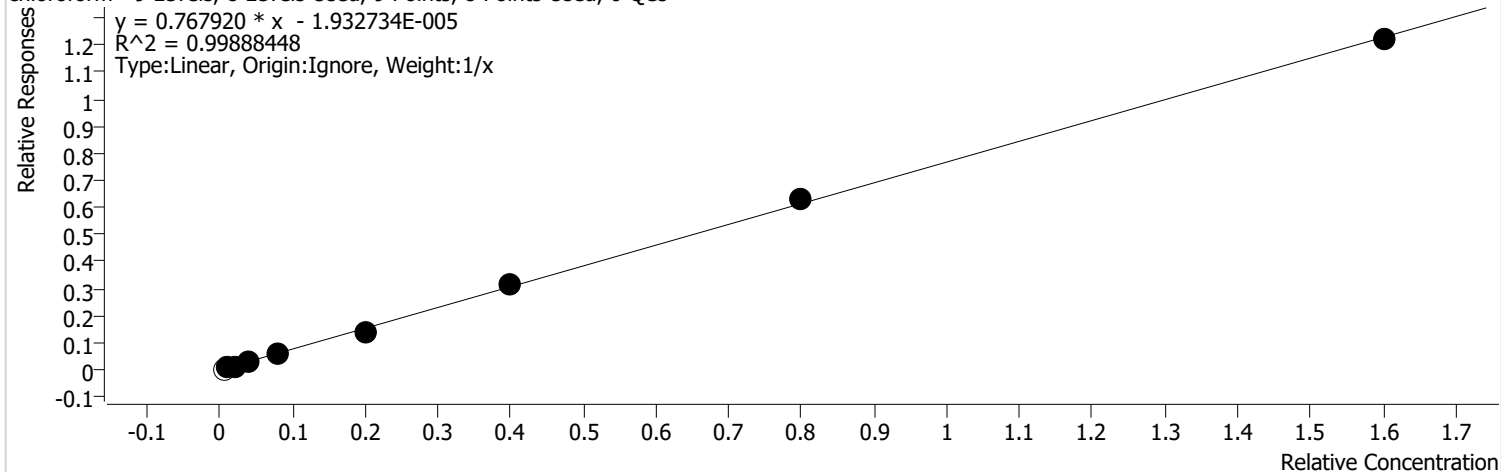
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	511	0.2000	0.0418	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	1571	0.5000	0.0535	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	3351	1.0000	0.0542	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	7718	2.0000	0.0636	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	16072	5.0000	0.0535	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	35289	10.0000	0.0596	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	65962	20.0000	0.0548	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	145445	40.0000	0.0579	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

chloroform %RSE = 9.1

chloroform - 9 Levels, 8 Levels Used, 9 Points, 8 Points Used, 0 QCs

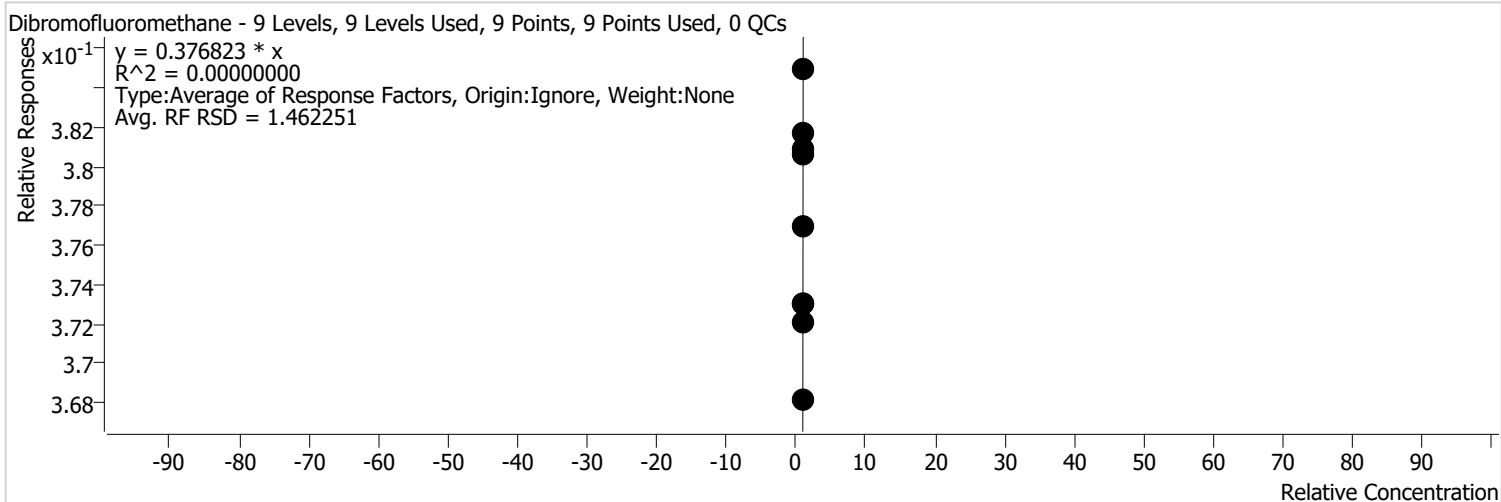


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1		5429	0.1000	0.8823	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	10962	0.2000	0.8967	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	21522	0.5000	0.7329	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	42899	1.0000	0.6939	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	93924	2.0000	0.7740	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	210452	5.0000	0.7000	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	469589	10.0000	0.7929	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	947241	20.0000	0.7866	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	1913872	40.0000	0.7621	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Dibromofluoromethane %RSE =

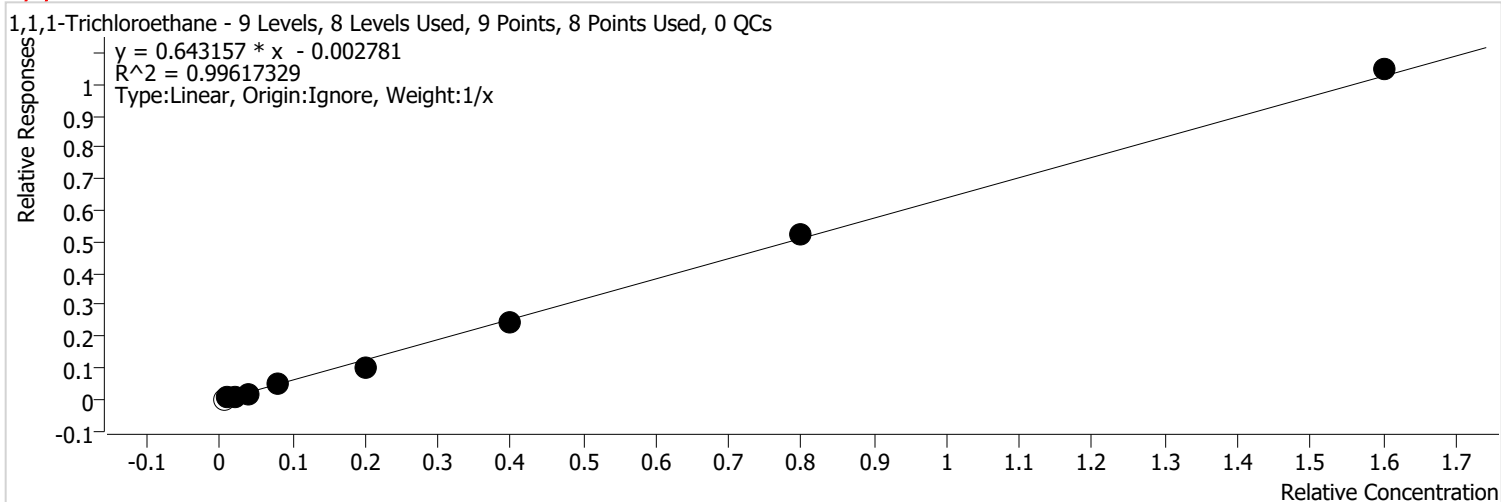


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	553523	25.0000	0.3770	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	597332	25.0000	0.3806	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	573272	25.0000	0.3808	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	569887	25.0000	0.3849	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	573685	25.0000	0.3817	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	565923	25.0000	0.3731	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	569096	25.0000	0.3682	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	570099	25.0000	0.3731	
D:\GC-19\Data\091823A\091821.D	Calibration	1	x	572341	25.0000	0.3721	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\loc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,1,1-Trichloroethane %RSE = 18.3



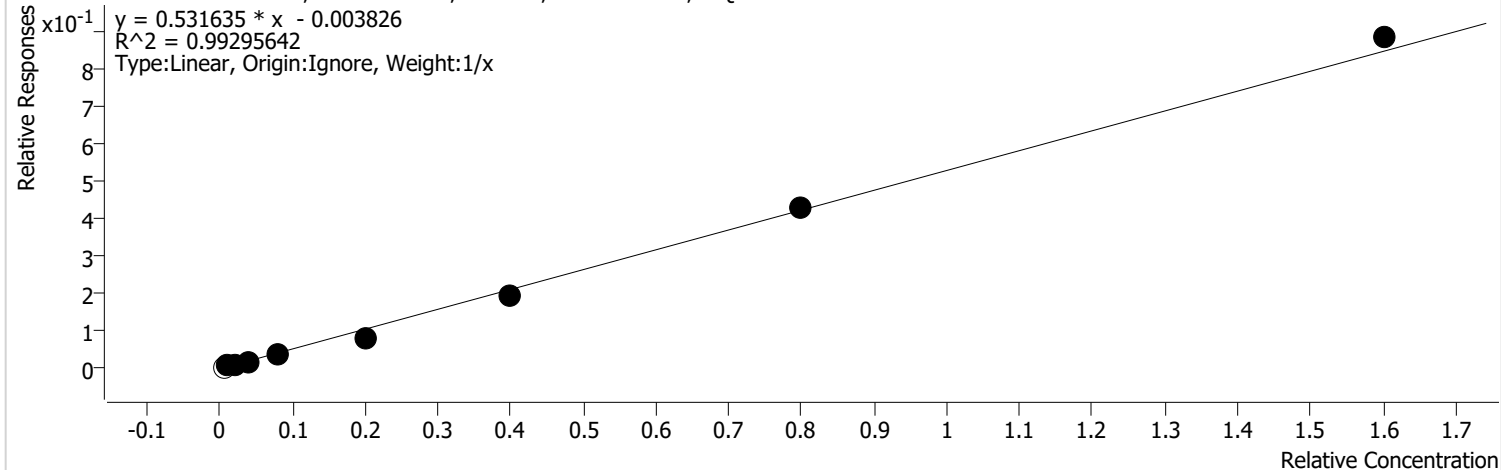
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1		3181	0.1000	0.5170	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	6574	0.2000	0.5378	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	14232	0.5000	0.4846	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	30122	1.0000	0.4872	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	70473	2.0000	0.5807	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	152383	5.0000	0.5069	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	365602	10.0000	0.6173	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	793934	20.0000	0.6593	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	1642986	40.0000	0.6542	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

carbon tetrachloride %RSE = 24.4

carbon tetrachloride - 9 Levels, 8 Levels Used, 9 Points, 8 Points Used, 0 QCs

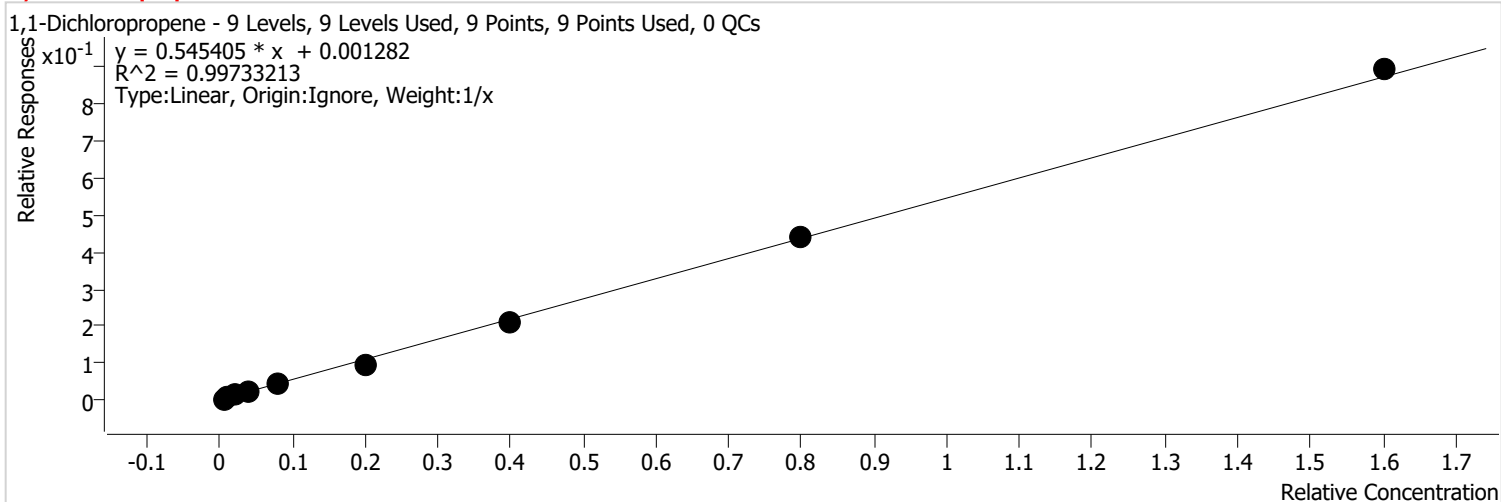


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1		2111	0.1000	0.3431	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	3991	0.2000	0.3265	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	9434	0.5000	0.3213	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	22147	1.0000	0.3582	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	53178	2.0000	0.4382	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	115982	5.0000	0.3858	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	286677	10.0000	0.4841	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	648180	20.0000	0.5382	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	1386263	40.0000	0.5520	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,1-Dichloropropene %RSE = 10.9



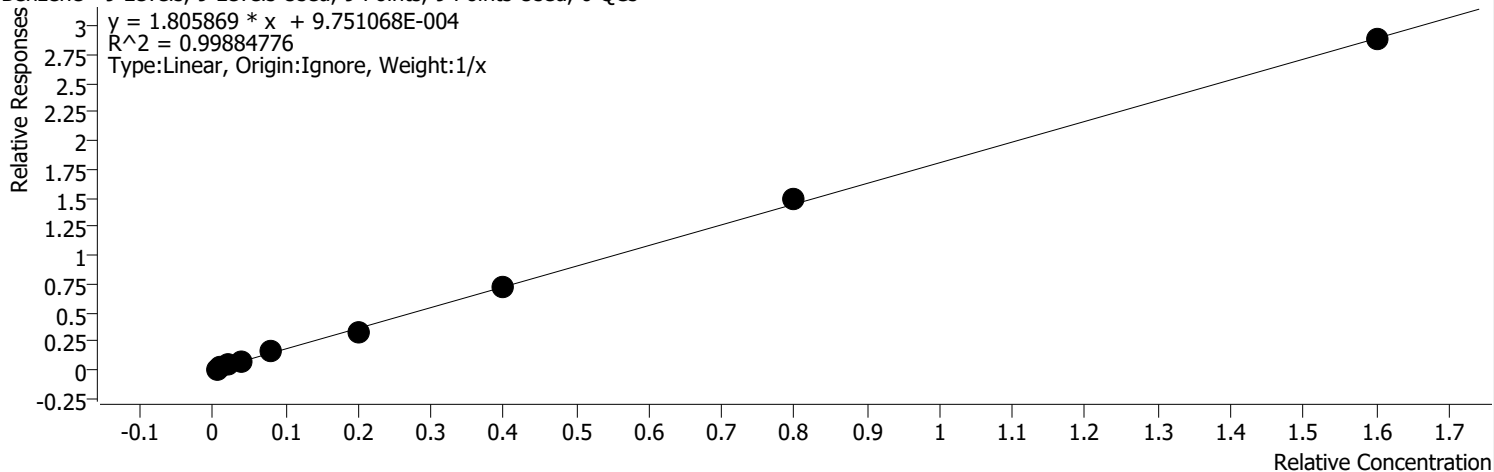
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1	x	5089	0.1000	0.8272	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	9954	0.2000	0.8143	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	18778	0.5000	0.6394	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	33891	1.0000	0.5482	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	71111	2.0000	0.5860	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	138124	5.0000	0.4594	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	312097	10.0000	0.5270	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	666860	20.0000	0.5537	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	1402542	40.0000	0.5585	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Benzene %RSE = 7.4

Benzene - 9 Levels, 9 Levels Used, 9 Points, 9 Points Used, 0 QCs

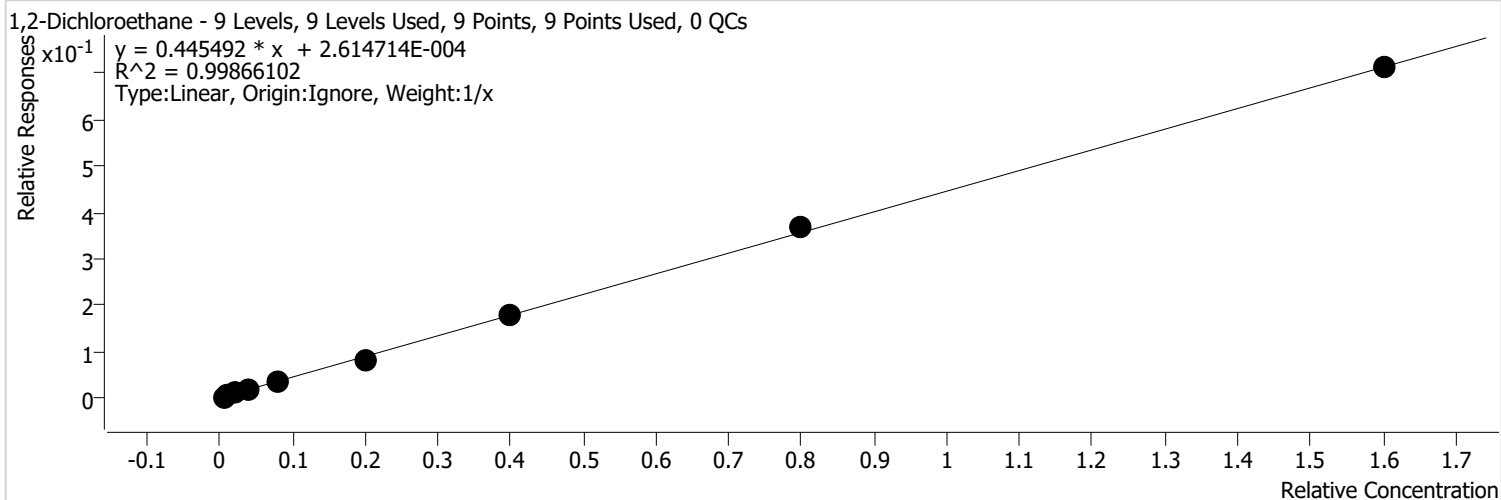


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1	x	12472	0.1000	2.0270	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	25415	0.2000	2.0792	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	57620	0.5000	1.9621	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	99553	1.0000	1.6103	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	233342	2.0000	1.9228	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	493128	5.0000	1.6403	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	1074412	10.0000	1.8141	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	2237529	20.0000	1.8580	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	4518173	40.0000	1.7991	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,2-Dichloroethane %RSE = 9.8



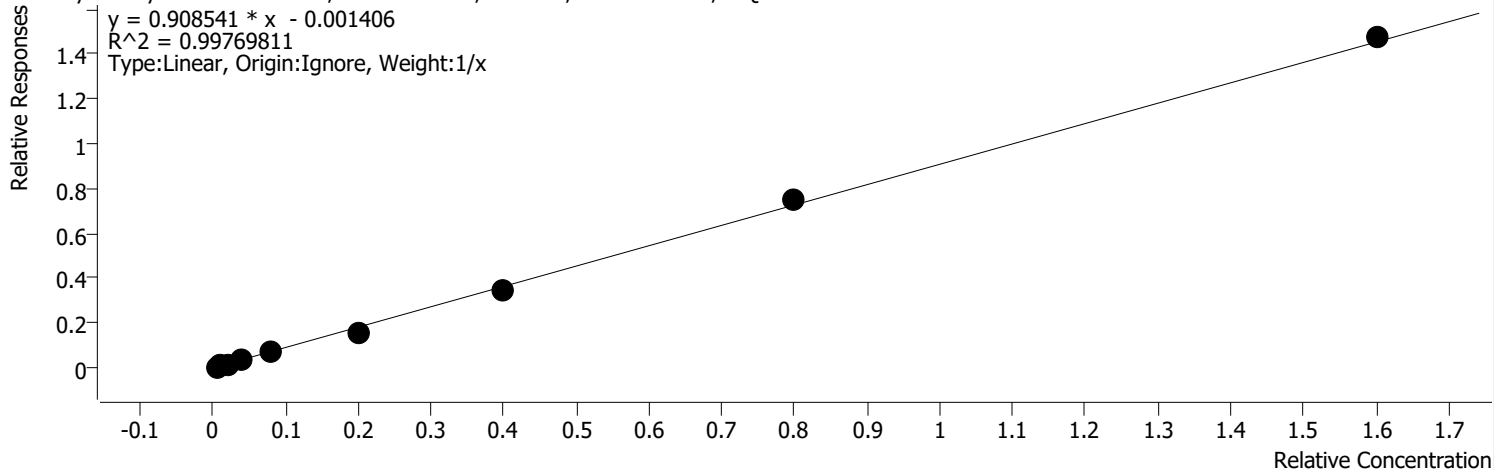
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1	x	3308	0.1000	0.5377	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	6802	0.2000	0.5564	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	13115	0.5000	0.4466	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	24010	1.0000	0.3884	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	54227	2.0000	0.4468	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	120418	5.0000	0.4006	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	268334	10.0000	0.4531	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	552105	20.0000	0.4585	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	1116962	40.0000	0.4448	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

tert-Amyl Methyl Ether %RSE = 12.6

tert-Amyl Methyl Ether - 9 Levels, 9 Levels Used, 9 Points, 9 Points Used, 0 QCs



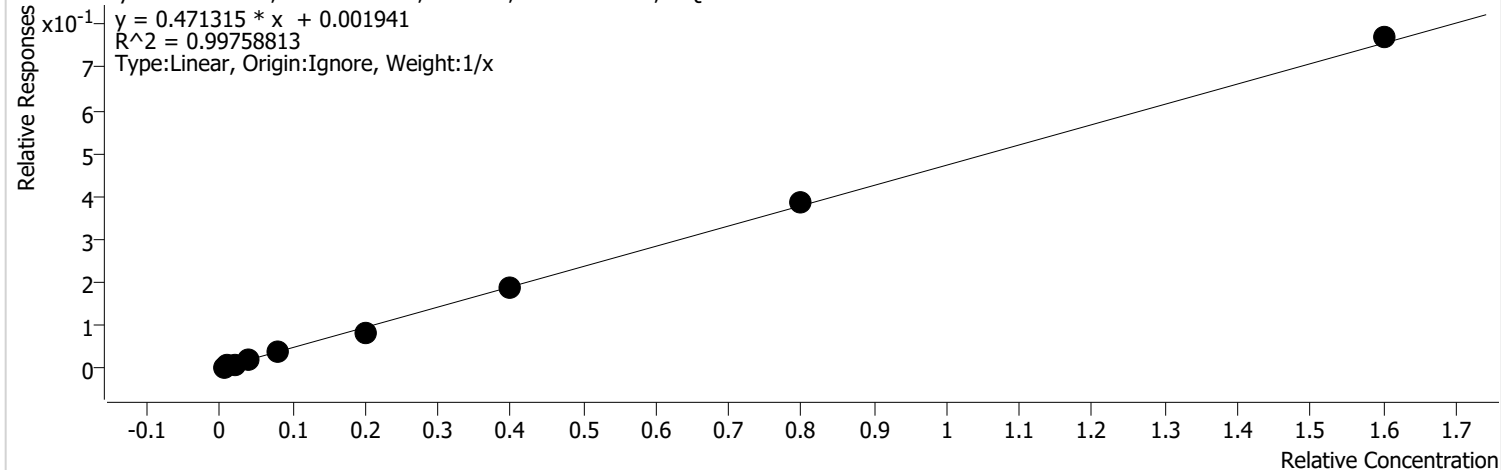
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1	x	4756	0.1000	0.7729	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	10105	0.2000	0.8267	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	23131	0.5000	0.7876	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	46529	1.0000	0.7526	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	105474	2.0000	0.8691	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	232844	5.0000	0.7745	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	516017	10.0000	0.8713	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	1131097	20.0000	0.9392	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	2309147	40.0000	0.9195	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\loc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

trichloroethylene %RSE = 16.6

trichloroethylene - 9 Levels, 9 Levels Used, 9 Points, 9 Points Used, 0 QCs

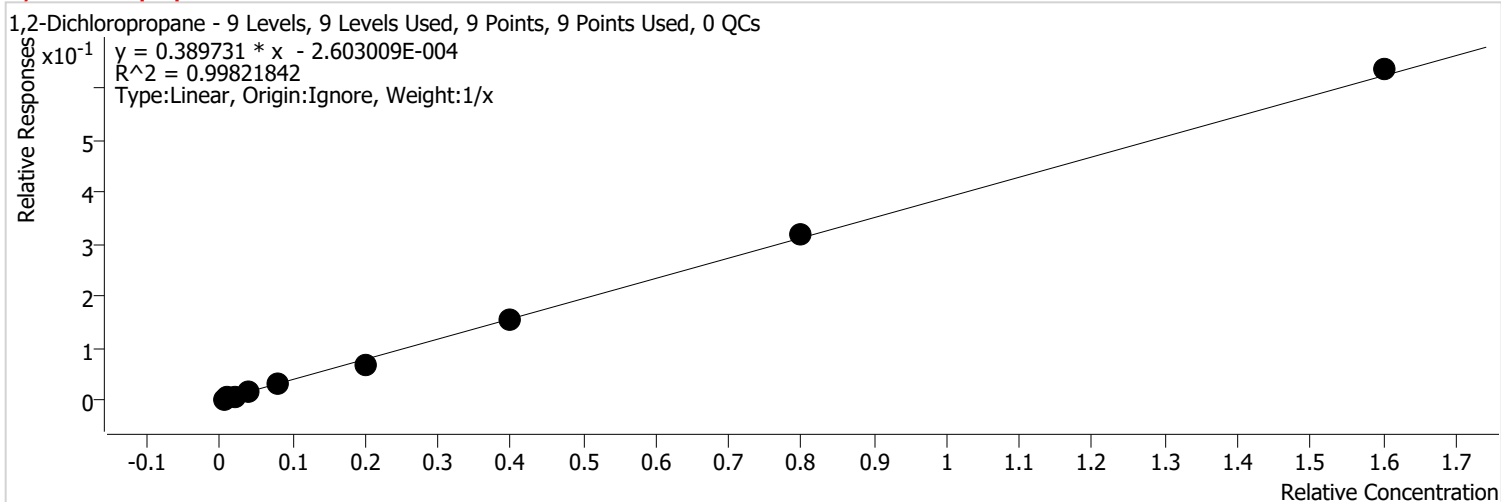


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1	x	6813	0.1000	1.1074	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	9459	0.2000	0.7738	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	14042	0.5000	0.4782	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	28466	1.0000	0.4605	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	60107	2.0000	0.4953	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	123567	5.0000	0.4110	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	277314	10.0000	0.4682	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	581589	20.0000	0.4829	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	1206993	40.0000	0.4806	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,2-Dichloropropane %RSE = 11.7



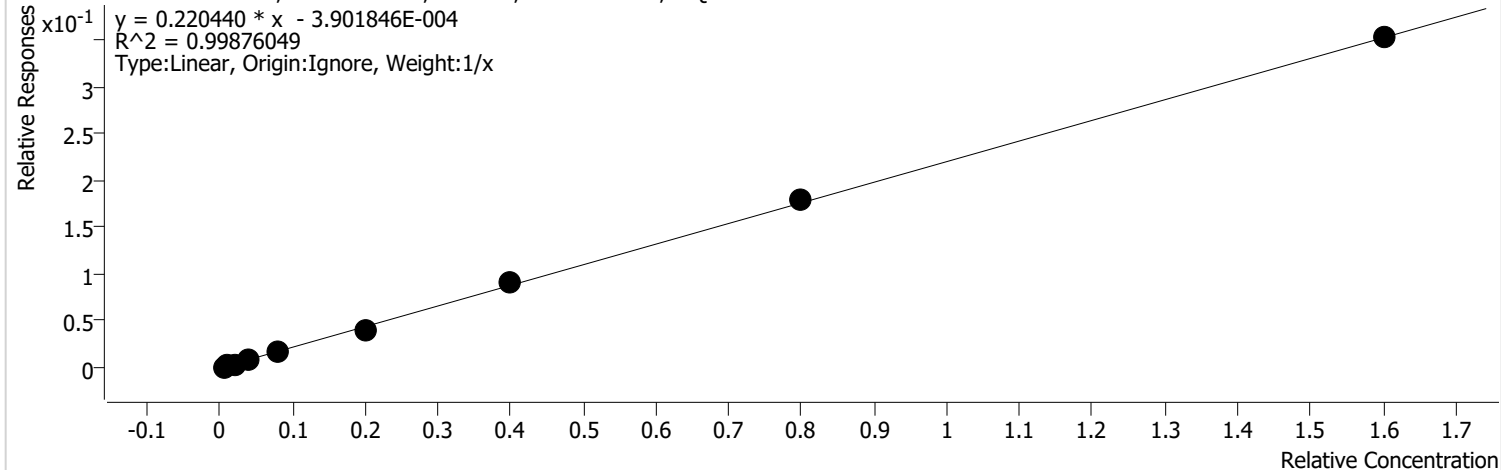
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1	x	2483	0.1000	0.4036	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	5016	0.2000	0.4103	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	10302	0.5000	0.3508	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	20962	1.0000	0.3391	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	44914	2.0000	0.3701	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	101573	5.0000	0.3379	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	225675	10.0000	0.3811	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	475767	20.0000	0.3951	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	996633	40.0000	0.3968	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Dibromomethane %RSE = 10.1

Dibromomethane - 9 Levels, 9 Levels Used, 9 Points, 9 Points Used, 0 QCs



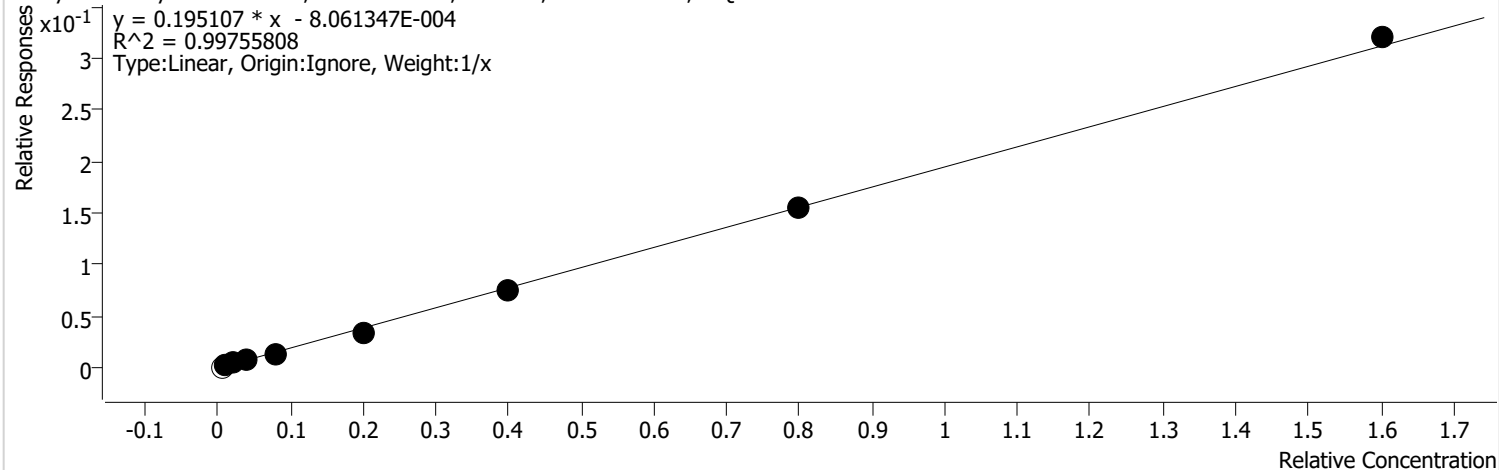
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1	x	1036	0.1000	0.1683	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	2178	0.2000	0.1782	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	5715	0.5000	0.1946	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	11382	1.0000	0.1841	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	25301	2.0000	0.2085	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	58787	5.0000	0.1955	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	133909	10.0000	0.2261	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	270128	20.0000	0.2243	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	552948	40.0000	0.2202	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Methyl methacrylate %RSE = 12.9

Methyl methacrylate - 9 Levels, 8 Levels Used, 9 Points, 8 Points Used, 0 QCs

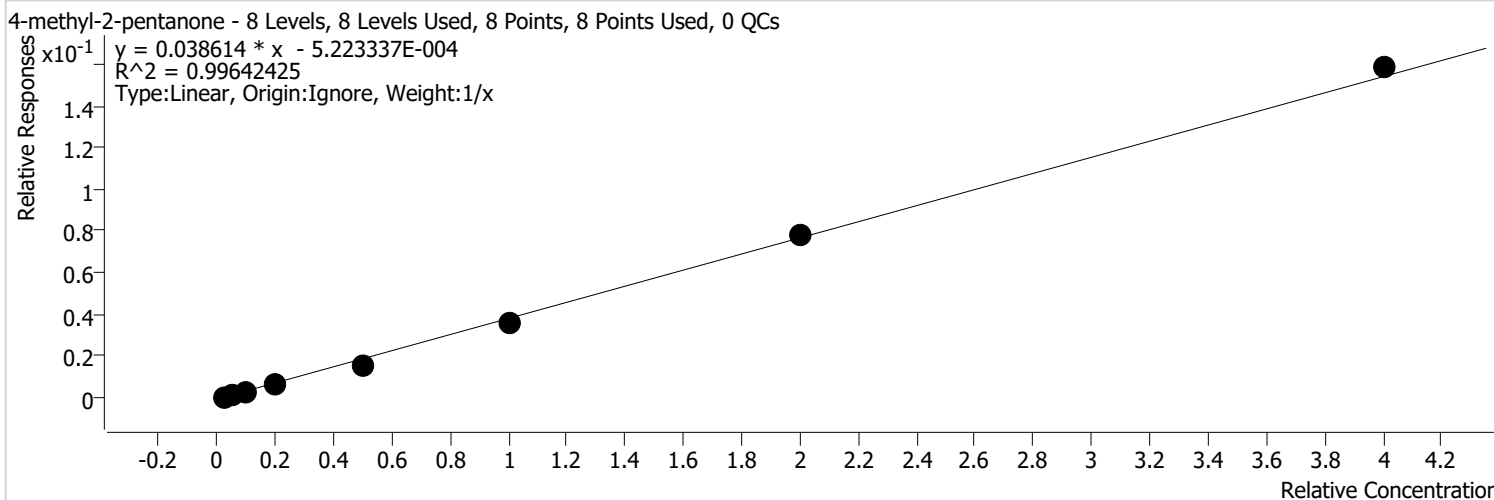


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1		677	0.1000	0.1101	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	1668	0.2000	0.1365	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	5173	0.5000	0.1761	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	9425	1.0000	0.1525	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	20707	2.0000	0.1706	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	48969	5.0000	0.1629	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	111953	10.0000	0.1890	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	234499	20.0000	0.1947	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	501355	40.0000	0.1996	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

4-methyl-2-pentanone %RSE = 18.0



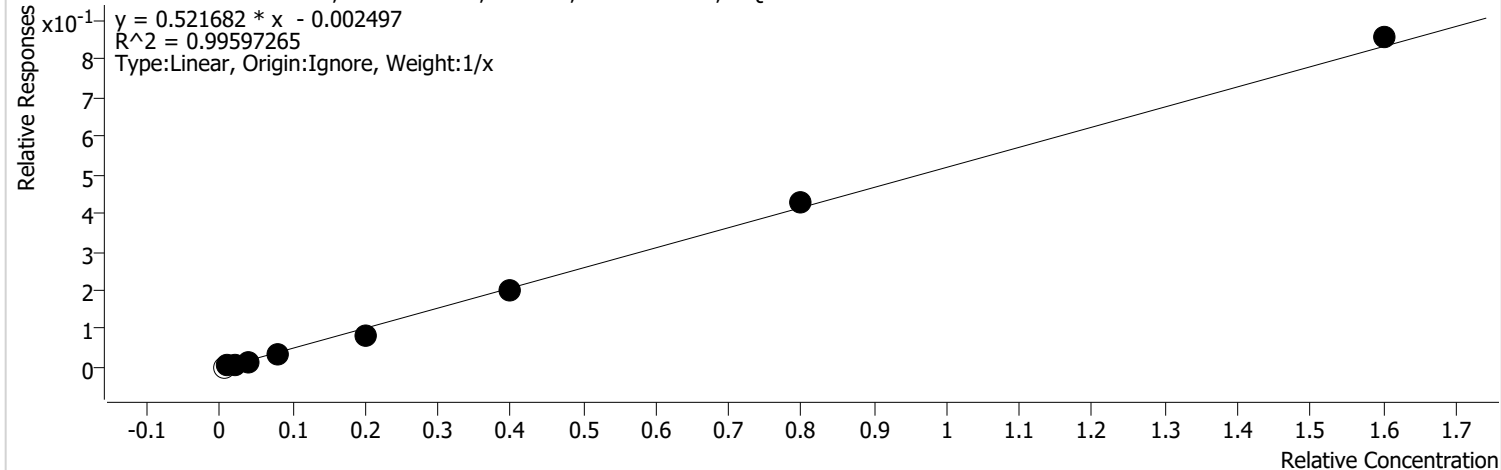
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	798	0.5000	0.0261	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	2267	1.2500	0.0309	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	4236	2.5000	0.0274	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	9572	5.0000	0.0316	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	23685	12.5000	0.0315	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	53974	25.0000	0.0365	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	117733	50.0000	0.0391	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	248268	100.0000	0.0395	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

bromodichloromethane %RSE = 19.6

bromodichloromethane - 9 Levels, 8 Levels Used, 9 Points, 8 Points Used, 0 QCs



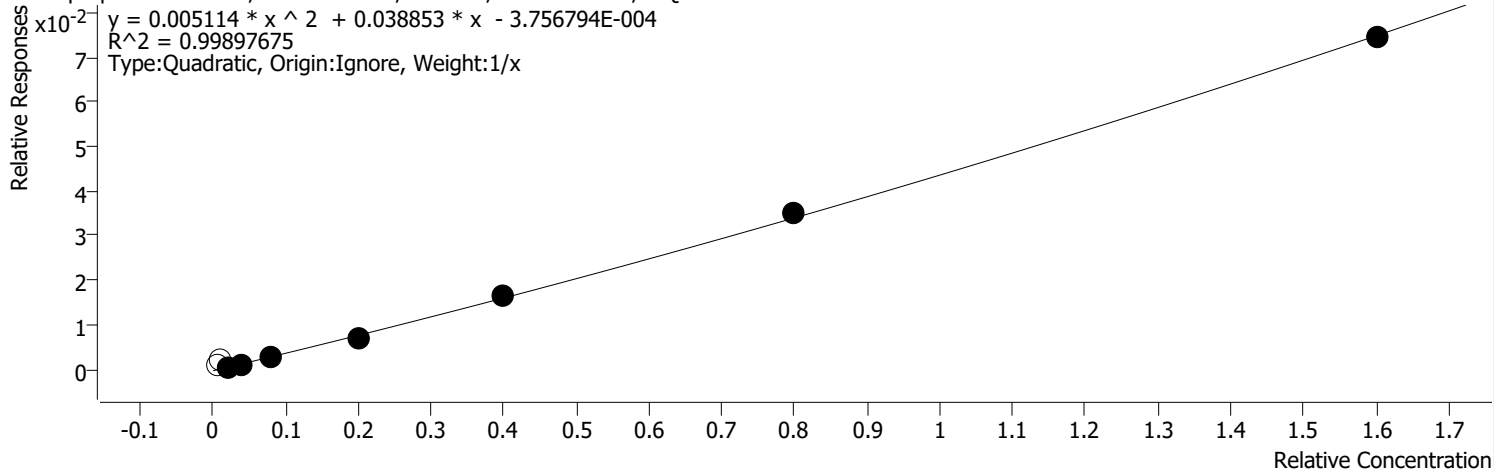
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1		2495	0.1000	0.4055	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	5185	0.2000	0.4242	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	11267	0.5000	0.3837	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	23989	1.0000	0.3880	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	54756	2.0000	0.4512	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	124816	5.0000	0.4152	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	291110	10.0000	0.4915	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	639741	20.0000	0.5312	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	1341951	40.0000	0.5344	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

2-Nitropropane %RSE = 9.7

2-Nitropropane - 9 Levels, 7 Levels Used, 9 Points, 7 Points Used, 0 QCs



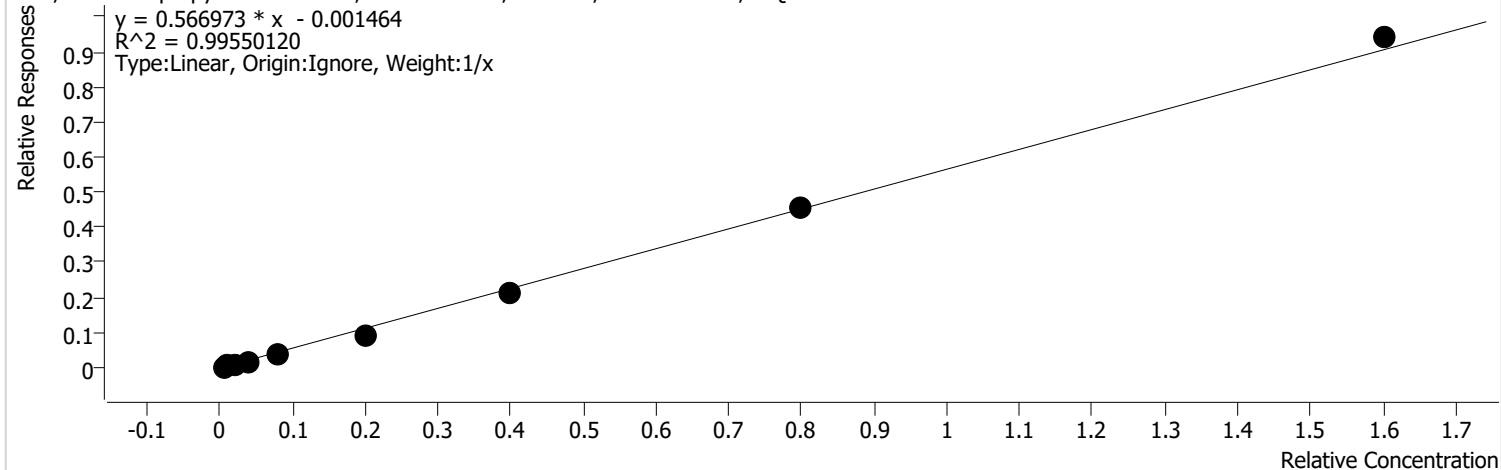
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1		1501	0.1000	0.2439	
D:\GC-19\Data\091823A\091822.D	Calibration	2		2908	0.2000	0.2379	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	766	0.5000	0.0261	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	1727	1.0000	0.0279	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	3889	2.0000	0.0320	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	10349	5.0000	0.0344	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	24269	10.0000	0.0410	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	52537	20.0000	0.0436	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	116805	40.0000	0.0465	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\loc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

cis-1,3-Dichloropropylene %RSE = 21.4

cis-1,3-Dichloropropylene - 9 Levels, 9 Levels Used, 9 Points, 9 Points Used, 0 QCs

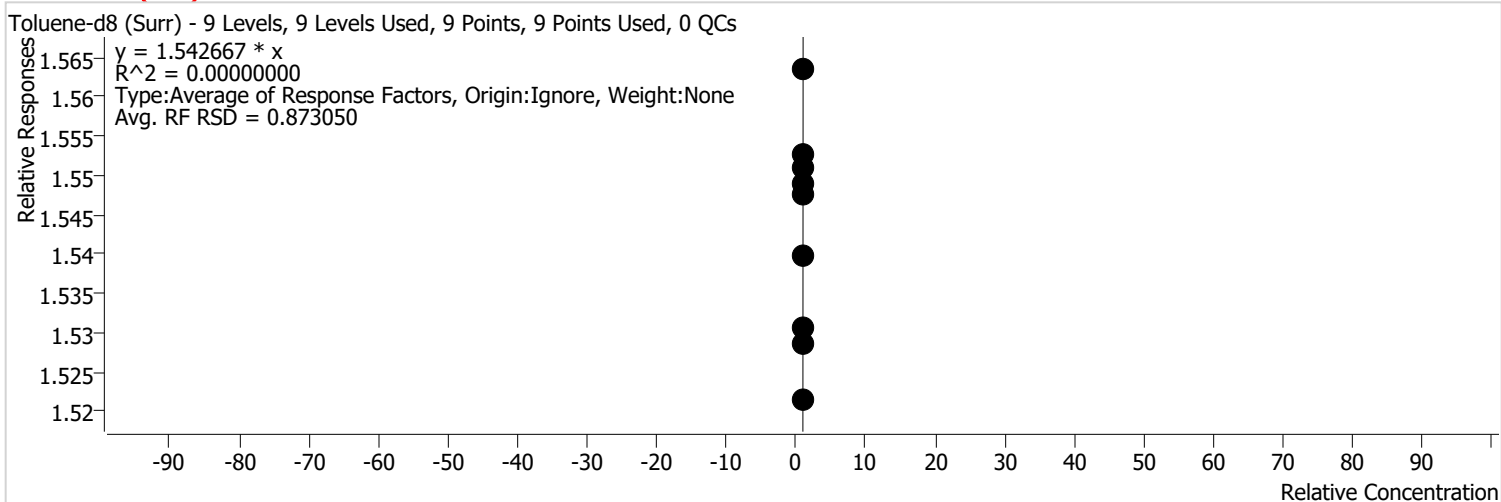


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1	x	2792	0.1000	0.4537	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	5693	0.2000	0.4657	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	13154	0.5000	0.4479	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	25289	1.0000	0.4091	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	57889	2.0000	0.4770	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	138320	5.0000	0.4601	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	319502	10.0000	0.5395	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	687909	20.0000	0.5712	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	1475598	40.0000	0.5876	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\loc w cal.batch.bin	Analyst Name	FA\GC19
Analysis Time	9/21/2023 10:22 AM	Reporter Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Batch State	Processed
Last Calib Update	9/21/2023 9:22 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Toluene-d8 (Surr) %RSE =



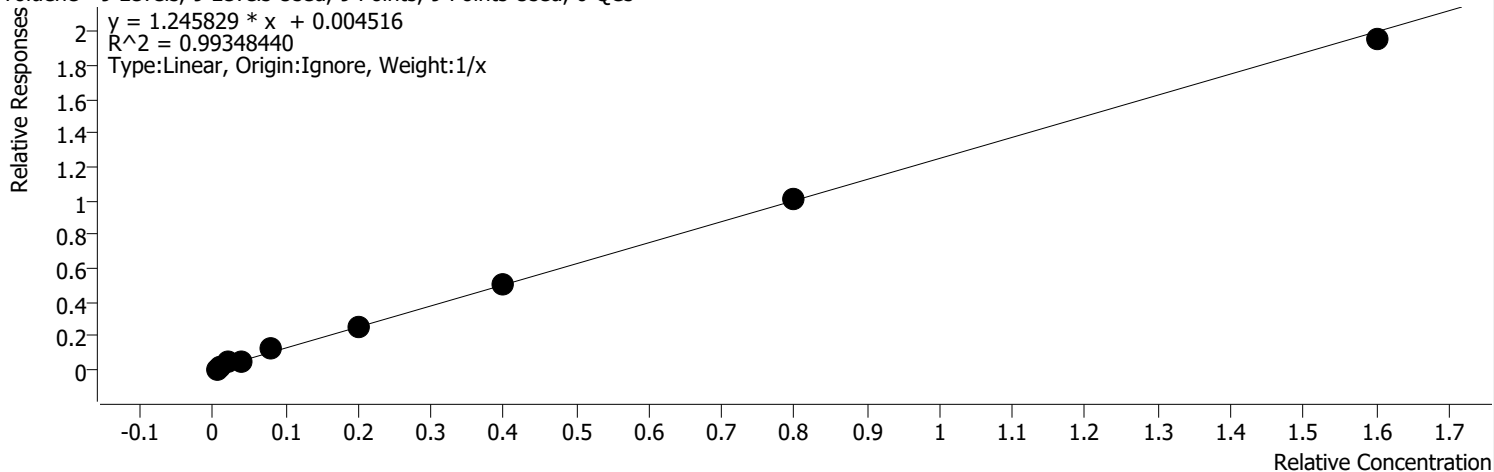
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	2272213	25.0000	1.5475	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	2388359	25.0000	1.5216	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	2301182	25.0000	1.5287	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	2266140	25.0000	1.5305	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	2333890	25.0000	1.5527	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	2349729	25.0000	1.5490	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	2379868	25.0000	1.5398	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	2388771	25.0000	1.5634	
D:\GC-19\Data\091823A\091821.D	Calibration	1	x	2385407	25.0000	1.5508	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Toluene %RSE = 38.5

Toluene - 9 Levels, 9 Levels Used, 9 Points, 9 Points Used, 0 QCs

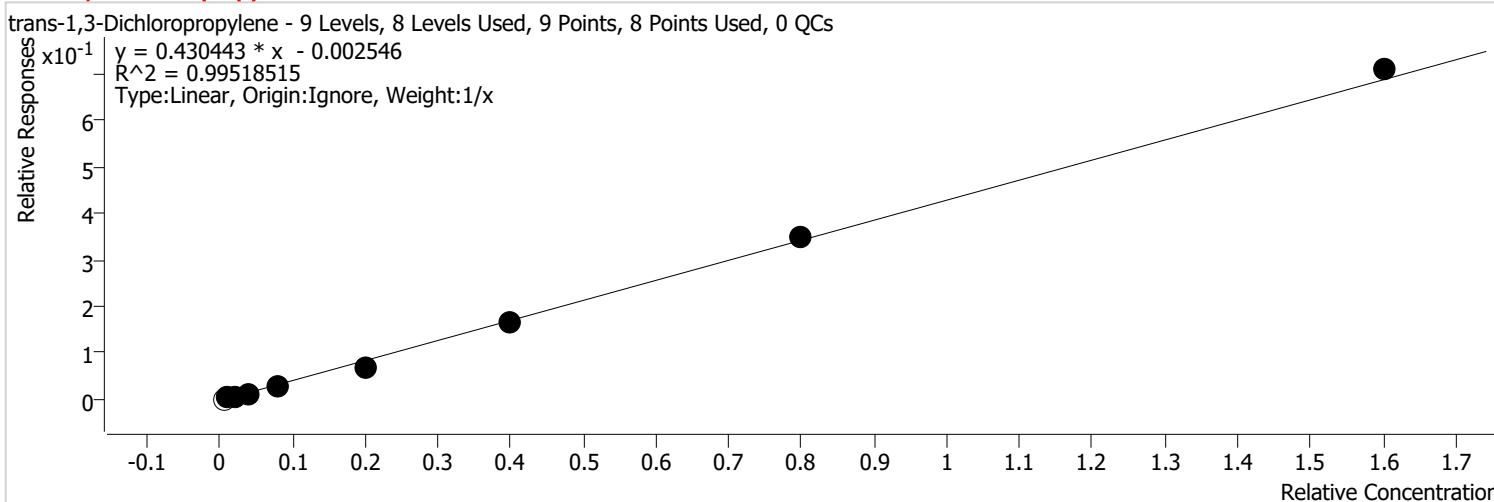


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1	x	9755	0.1000	1.5854	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	19488	0.2000	1.5943	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	69568	0.5000	2.3689	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	72574	1.0000	1.1739	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	196466	2.0000	1.6189	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	372592	5.0000	1.2394	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	753243	10.0000	1.2719	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	1531489	20.0000	1.2717	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	3061623	40.0000	1.2191	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\loc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

trans-1,3-Dichloropropylene %RSE = 23.6



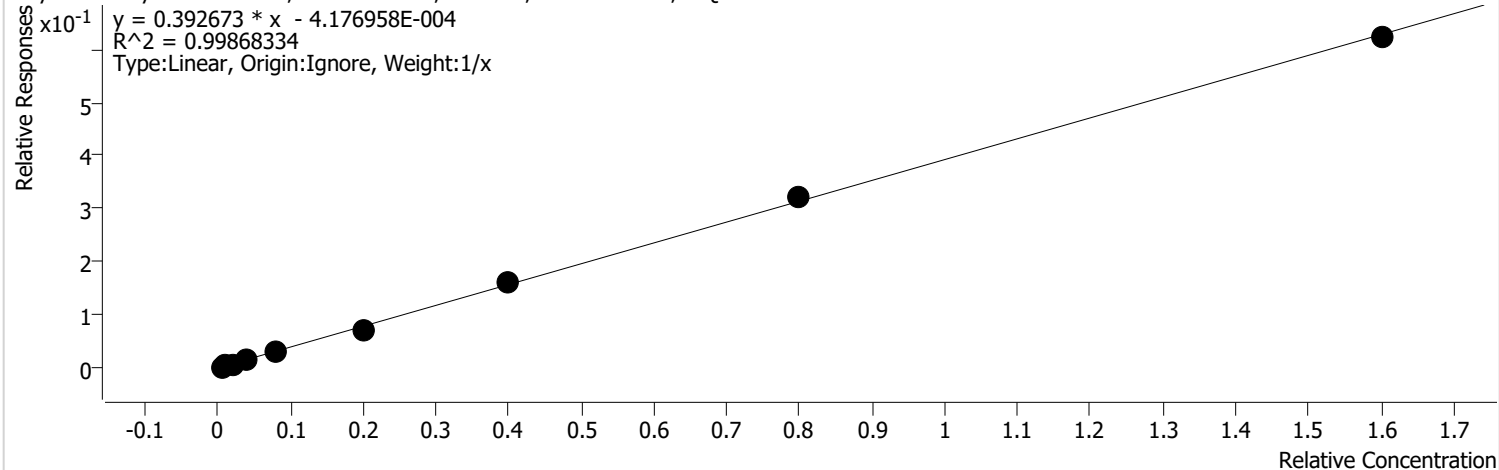
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1		1981	0.1000	0.3219	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	3958	0.2000	0.3238	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	9008	0.5000	0.3067	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	17298	1.0000	0.2798	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	41525	2.0000	0.3422	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	102279	5.0000	0.3402	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	241676	10.0000	0.4081	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	524577	20.0000	0.4356	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	1110699	40.0000	0.4423	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Ethyl methacrylate %RSE = 10.9

Ethyl methacrylate - 9 Levels, 9 Levels Used, 9 Points, 9 Points Used, 0 QCs

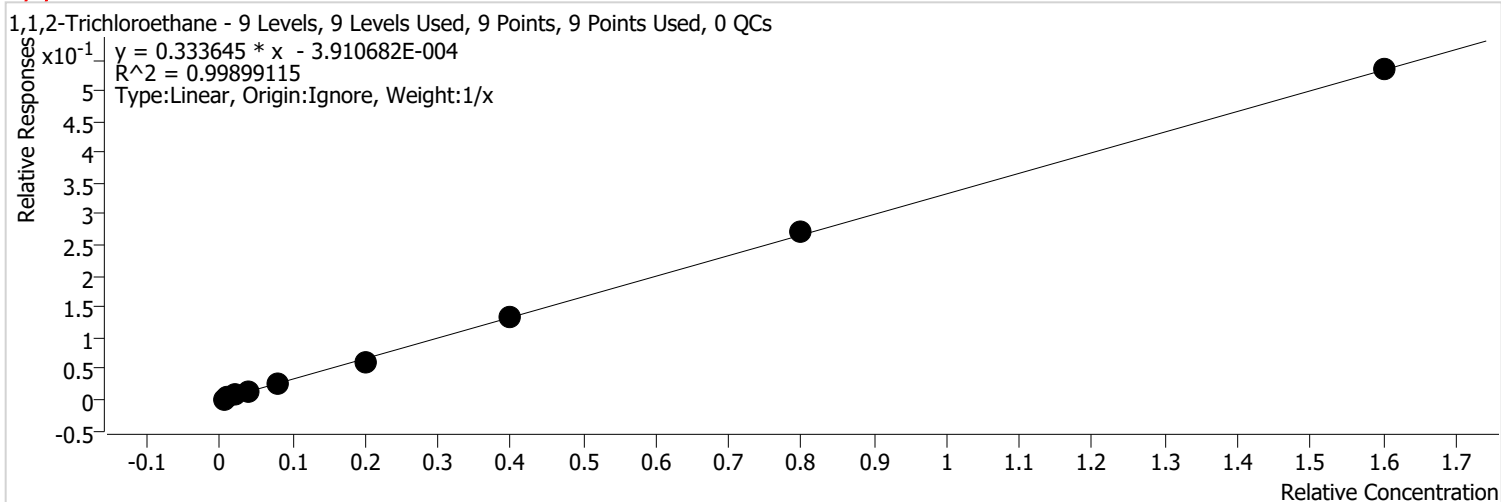


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1	x	2292	0.1000	0.3725	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	4233	0.2000	0.3463	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	10682	0.5000	0.3637	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	19569	1.0000	0.3165	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	45780	2.0000	0.3772	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	108641	5.0000	0.3614	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	241232	10.0000	0.4073	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	485828	20.0000	0.4034	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	975713	40.0000	0.3885	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,1,2-Trichloroethane %RSE = 8.4



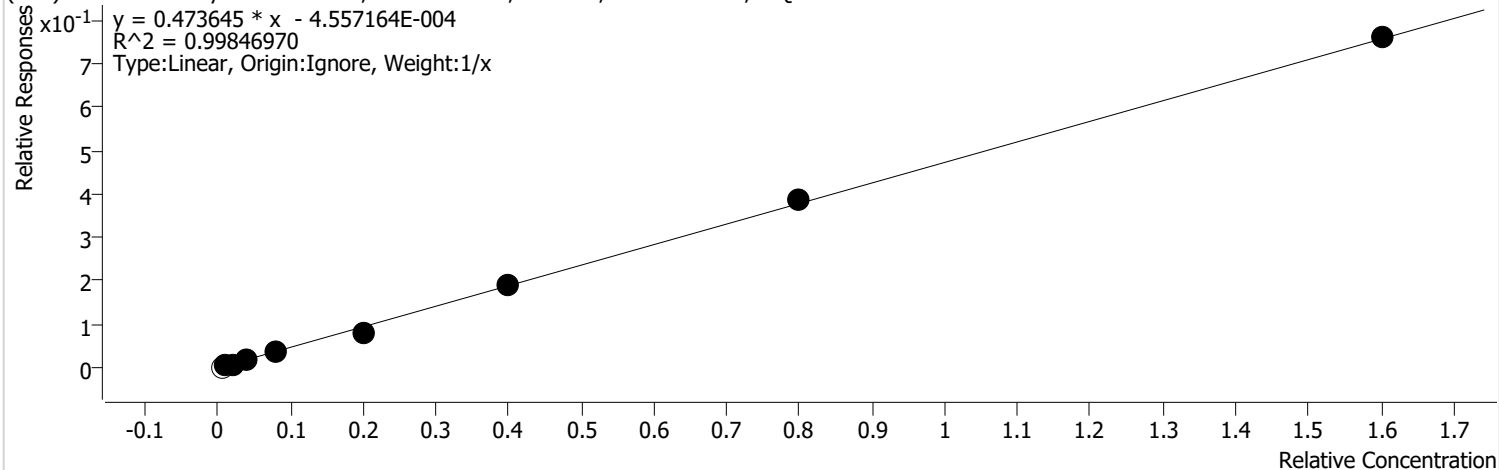
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1	x	1734	0.1000	0.2819	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	3734	0.2000	0.3055	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	9332	0.5000	0.3178	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	17396	1.0000	0.2814	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	38935	2.0000	0.3208	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	90539	5.0000	0.3012	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	197970	10.0000	0.3343	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	411470	20.0000	0.3417	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	838167	40.0000	0.3337	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

(PCE) Tetrachloroethylene %RSE = 10.3

(PCE) Tetrachloroethylene - 9 Levels, 8 Levels Used, 9 Points, 8 Points Used, 0 QCs

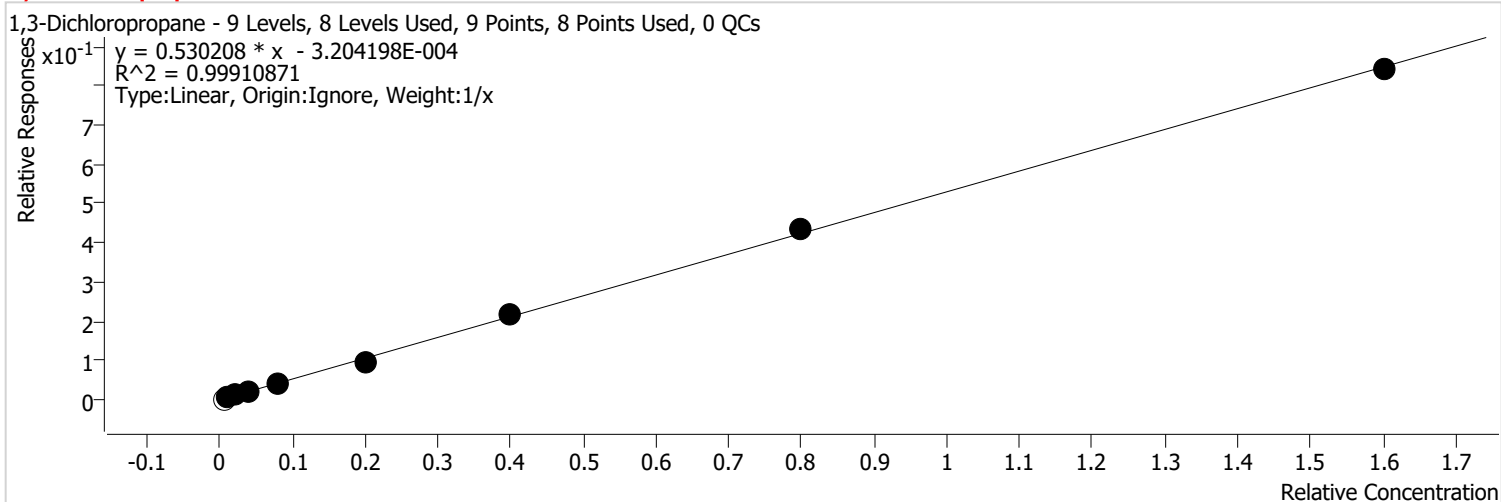


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1		2895	0.1000	0.4705	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	6178	0.2000	0.5054	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	13087	0.5000	0.4456	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	25458	1.0000	0.4118	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	58323	2.0000	0.4806	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	124209	5.0000	0.4132	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	278897	10.0000	0.4709	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	584558	20.0000	0.4854	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	1193201	40.0000	0.4751	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,3-Dichloropropane %RSE = 7.9



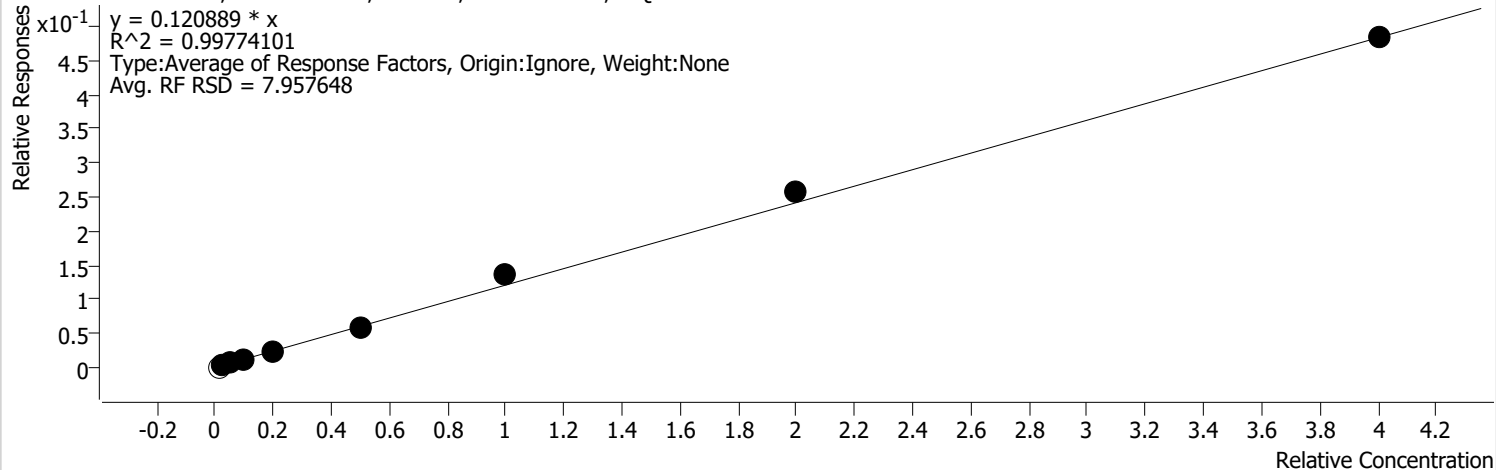
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1		3126	0.1000	0.5081	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	6882	0.2000	0.5630	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	14830	0.5000	0.5050	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	28781	1.0000	0.4655	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	65023	2.0000	0.5358	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	147472	5.0000	0.4905	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	320637	10.0000	0.5414	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	654893	20.0000	0.5438	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	1319610	40.0000	0.5255	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

2-Hexanone %RSE = 8.0

2-Hexanone - 9 Levels, 8 Levels Used, 9 Points, 8 Points Used, 0 QCs



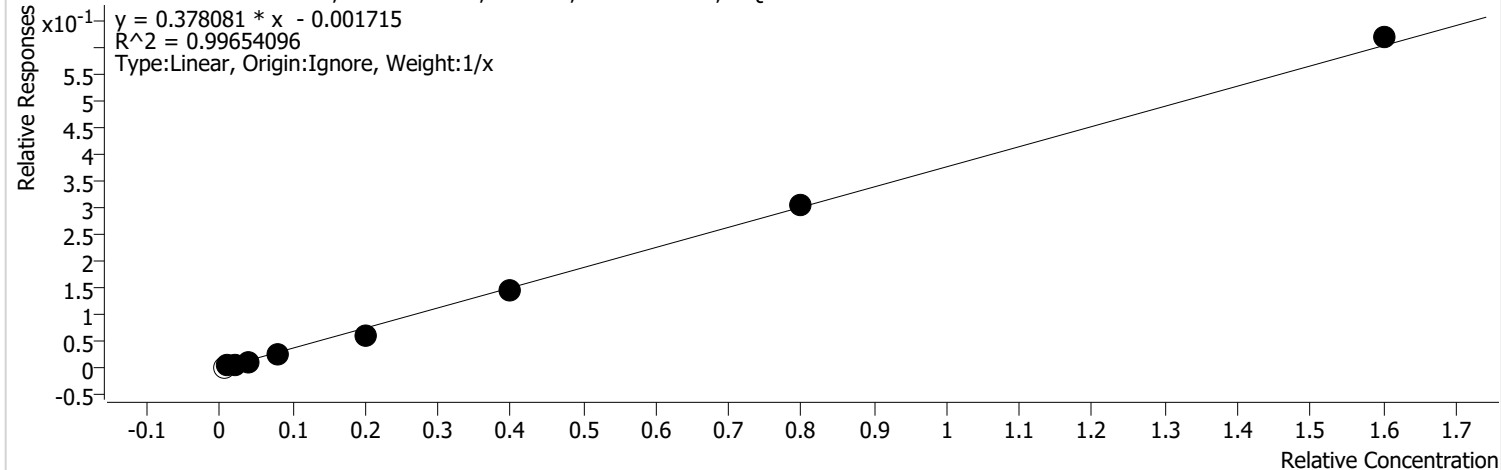
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1		1603	0.2500	0.1042	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	3435	0.5000	0.1124	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	9264	1.2500	0.1262	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	16213	2.5000	0.1049	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	36403	5.0000	0.1200	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	88985	12.5000	0.1184	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	201396	25.0000	0.1360	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	386504	50.0000	0.1284	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	758608	100.0000	0.1208	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

dibromochloromethane %RSE = 18.8

dibromochloromethane - 9 Levels, 8 Levels Used, 9 Points, 8 Points Used, 0 QCs



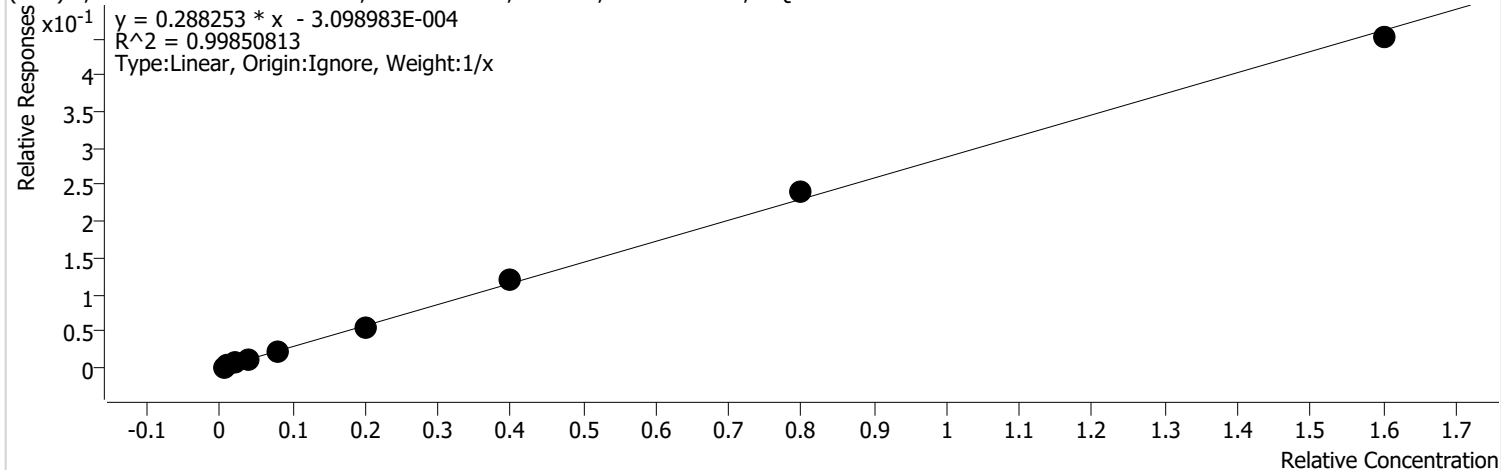
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1		1848	0.1000	0.3003	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	3781	0.2000	0.3093	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	8658	0.5000	0.2948	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	16717	1.0000	0.2704	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	40251	2.0000	0.3317	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	92238	5.0000	0.3068	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	214014	10.0000	0.3614	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	461833	20.0000	0.3835	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	970105	40.0000	0.3863	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

(EDB) 1,2-Dibromoethane %RSE = 7.5

(EDB) 1,2-Dibromoethane - 9 Levels, 9 Levels Used, 9 Points, 9 Points Used, 0 QCs



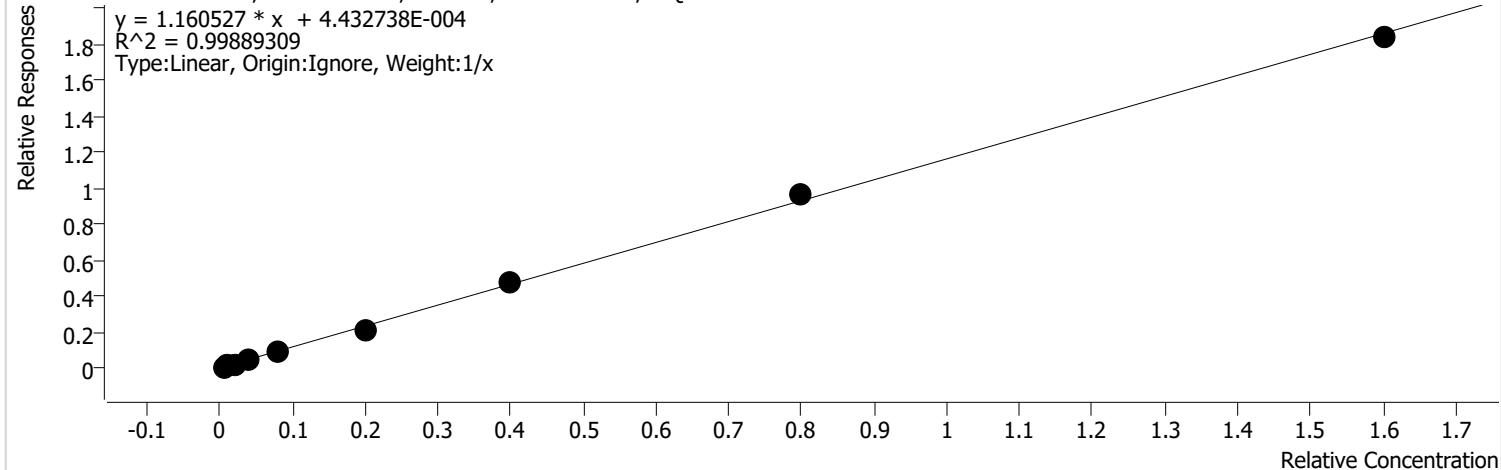
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1	x	1445	0.1000	0.2349	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	3273	0.2000	0.2678	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	7731	0.5000	0.2632	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	14880	1.0000	0.2407	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	35057	2.0000	0.2889	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	81248	5.0000	0.2703	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	178473	10.0000	0.3014	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	360316	20.0000	0.2992	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	707497	40.0000	0.2817	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Chlorobenzene %RSE = 6.9

Chlorobenzene - 9 Levels, 9 Levels Used, 9 Points, 9 Points Used, 0 QCs

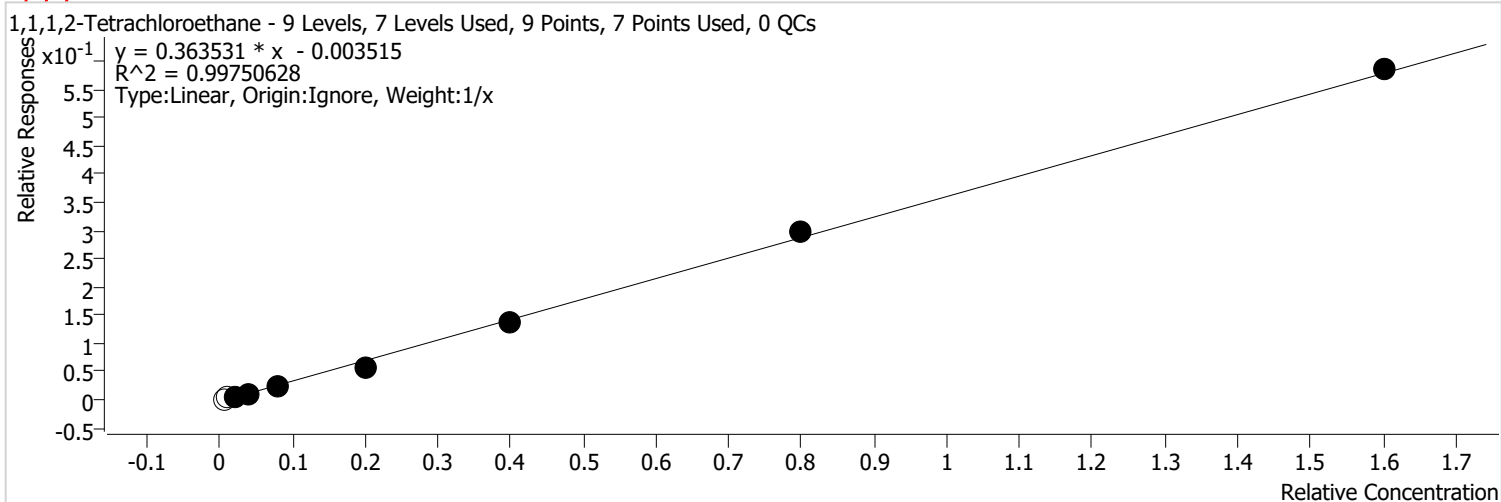


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1	x	10383	0.1000	1.3658	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	19949	0.2000	1.3066	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	42571	0.5000	1.1322	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	80049	1.0000	1.0521	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	178746	2.0000	1.1820	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	391419	5.0000	1.0730	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	855231	10.0000	1.1952	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	1752163	20.0000	1.2011	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	3501513	40.0000	1.1457	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,1,1,2-Tetrachloroethane %RSE = 12.1



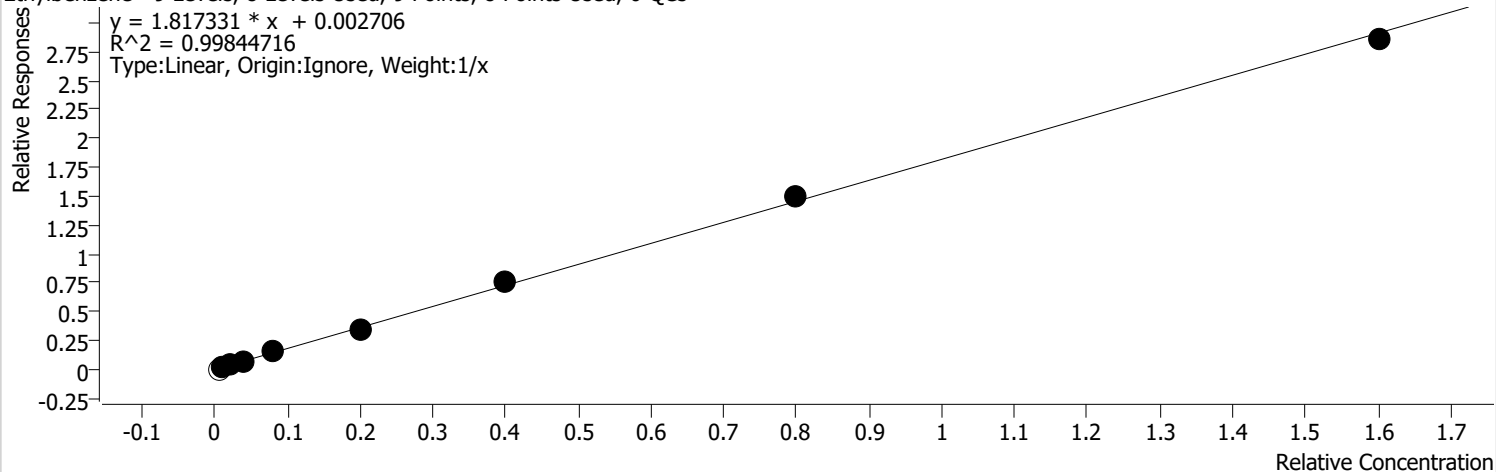
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1		2441	0.1000	0.3211	
D:\GC-19\Data\091823A\091822.D	Calibration	2		4761	0.2000	0.3119	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	10004	0.5000	0.2661	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	19690	1.0000	0.2588	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	46448	2.0000	0.3072	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	107020	5.0000	0.2934	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	245728	10.0000	0.3434	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	539678	20.0000	0.3699	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	1116687	40.0000	0.3654	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Ethylbenzene %RSE = 8.5

Ethylbenzene - 9 Levels, 8 Levels Used, 9 Points, 8 Points Used, 0 QCs

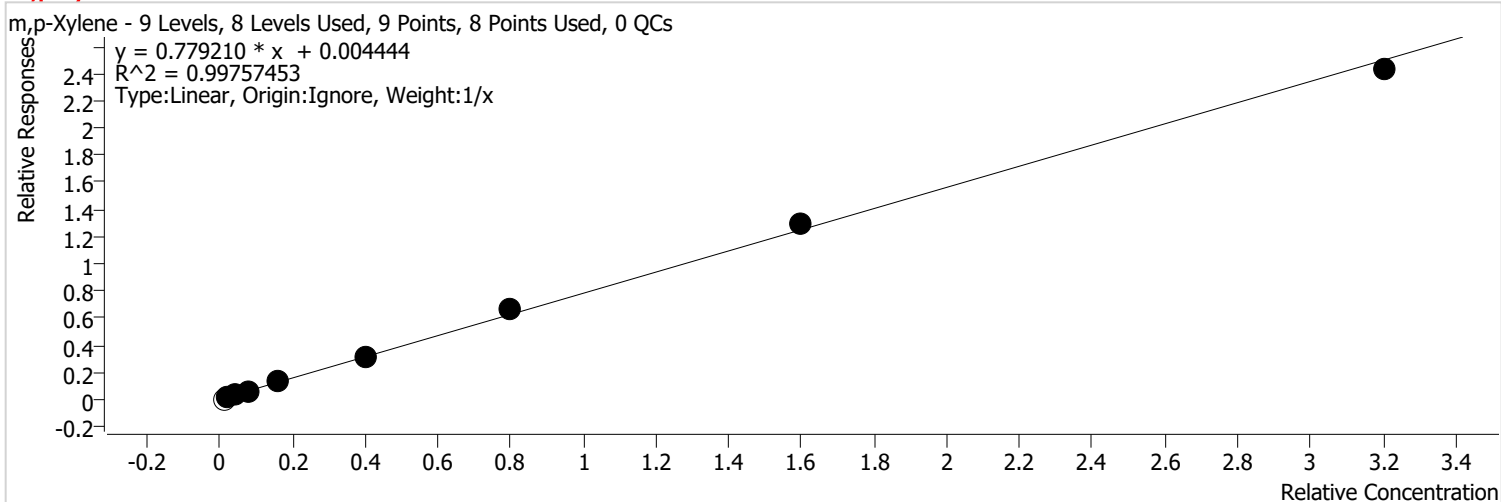


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1		15321	0.1000	2.0154	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	32368	0.2000	2.1201	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	81082	0.5000	2.1564	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	124277	1.0000	1.6335	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	295040	2.0000	1.9511	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	623586	5.0000	1.7095	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	1363037	10.0000	1.9049	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	2743554	20.0000	1.8807	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	5448807	40.0000	1.7829	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

m,p-Xylene %RSE = 15.1



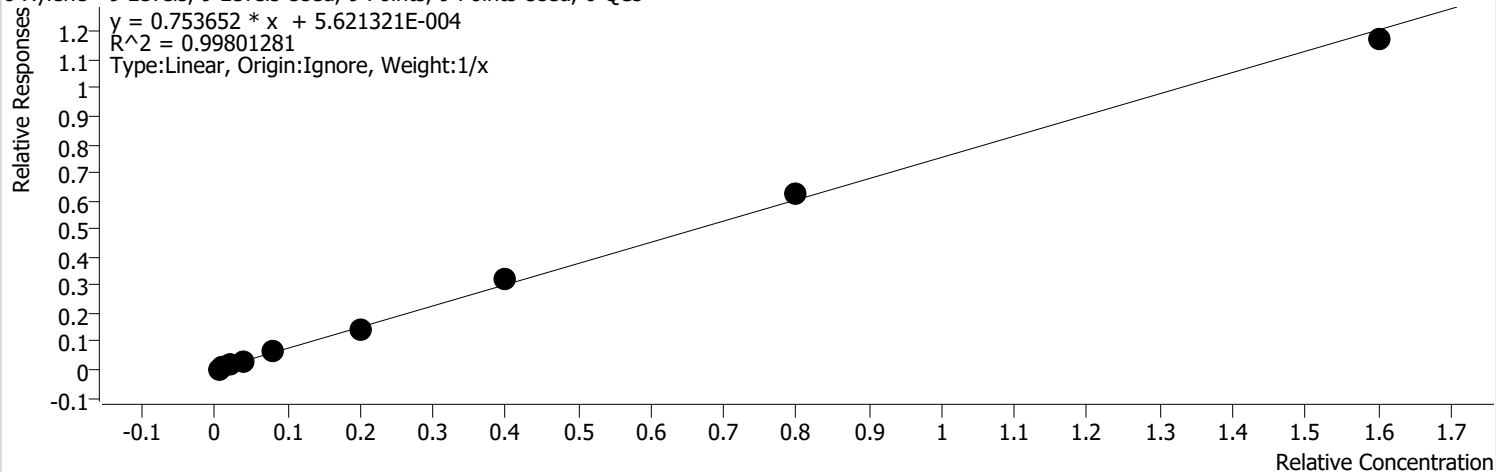
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1		12611	0.2000	0.8294	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	27556	0.4000	0.9024	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	80231	1.0000	1.0669	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	107262	2.0000	0.7049	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	270861	4.0000	0.8956	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	557977	10.0000	0.7648	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	1184392	20.0000	0.8276	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	2351346	40.0000	0.8059	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	4636051	80.0000	0.7585	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

o-Xylene %RSE = 10.6

o-Xylene - 9 Levels, 9 Levels Used, 9 Points, 9 Points Used, 0 QCs



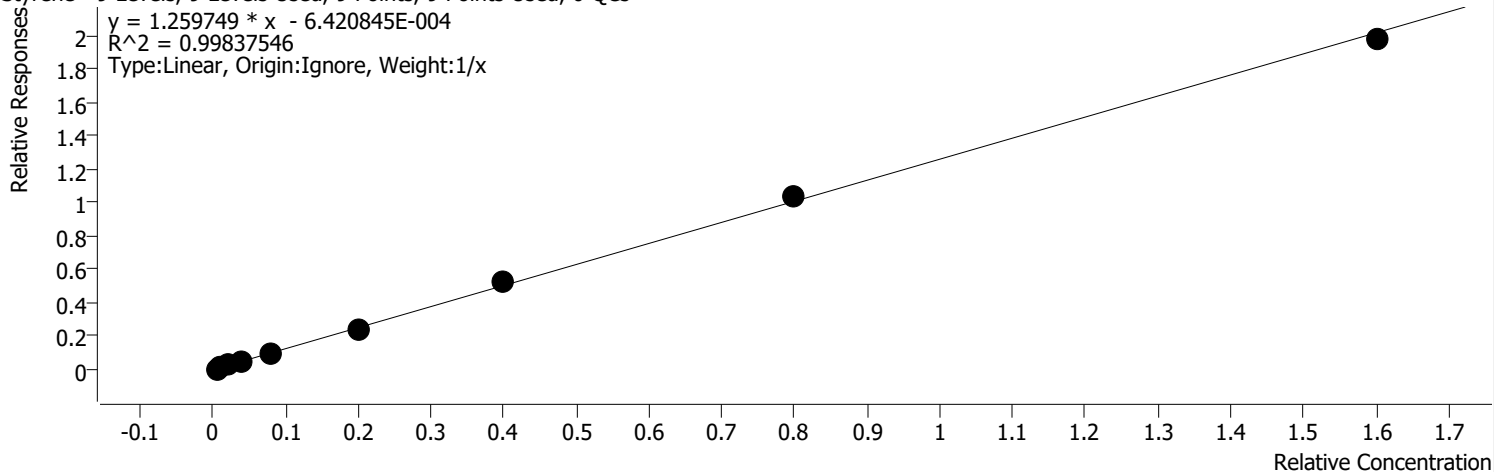
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1	x	6007	0.1000	0.7902	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	12544	0.2000	0.8216	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	34148	0.5000	0.9082	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	50974	1.0000	0.6700	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	124975	2.0000	0.8264	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	263239	5.0000	0.7216	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	569573	10.0000	0.7960	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	1140618	20.0000	0.7819	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	2237681	40.0000	0.7322	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Styrene %RSE = 8.1

Styrene - 9 Levels, 9 Levels Used, 9 Points, 9 Points Used, 0 QCs



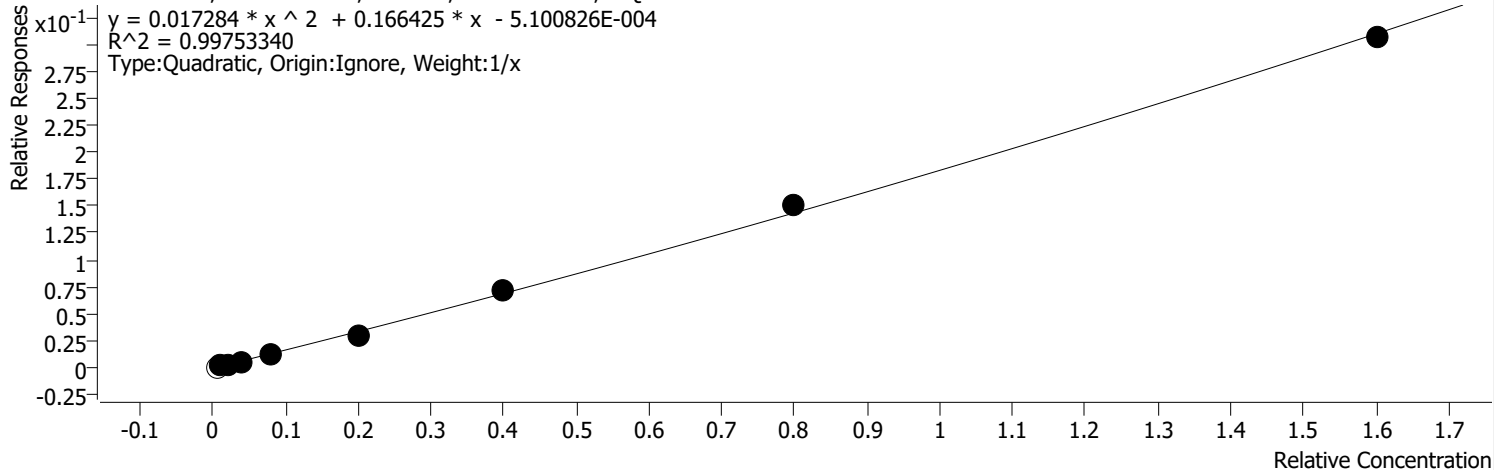
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1	x	9111	0.1000	1.1985	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	19625	0.2000	1.2854	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	45139	0.5000	1.2005	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	80079	1.0000	1.0525	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	189271	2.0000	1.2516	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	429673	5.0000	1.1779	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	953549	10.0000	1.3326	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	1900328	20.0000	1.3027	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	3768313	40.0000	1.2330	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Bromoform %RSE = 15.8

Bromoform - 9 Levels, 8 Levels Used, 9 Points, 8 Points Used, 0 QCs



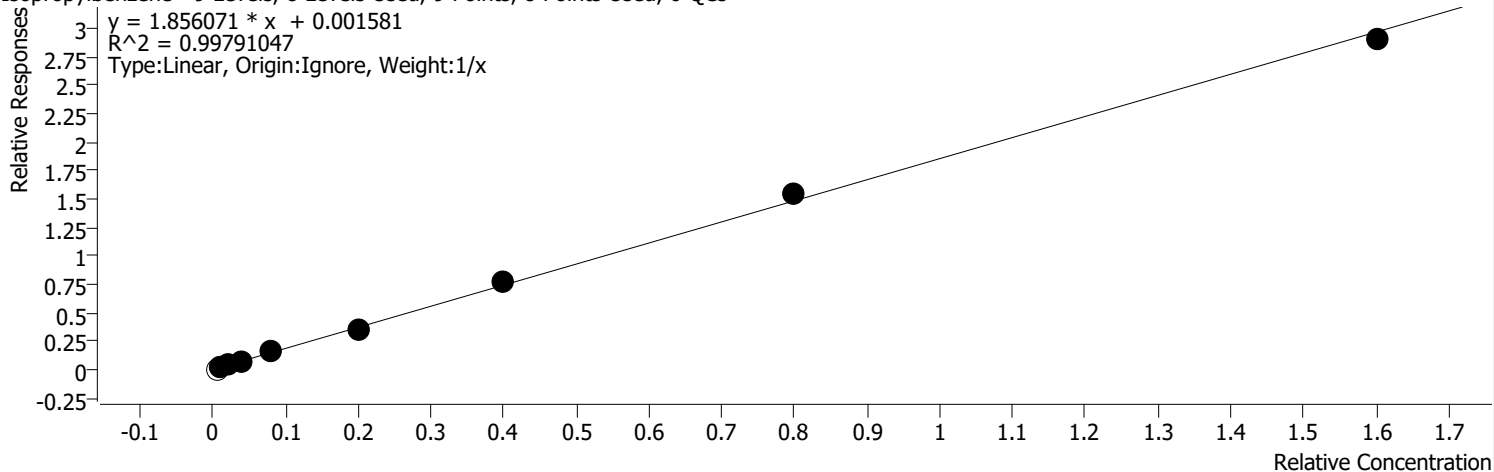
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1		1251	0.1000	0.1646	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	2272	0.2000	0.1488	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	5366	0.5000	0.1427	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	9788	1.0000	0.1286	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	22592	2.0000	0.1494	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	53017	5.0000	0.1453	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	126641	10.0000	0.1770	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	276227	20.0000	0.1894	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	584959	40.0000	0.1914	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Isopropylbenzene %RSE = 11.3

Isopropylbenzene - 9 Levels, 8 Levels Used, 9 Points, 8 Points Used, 0 QCs

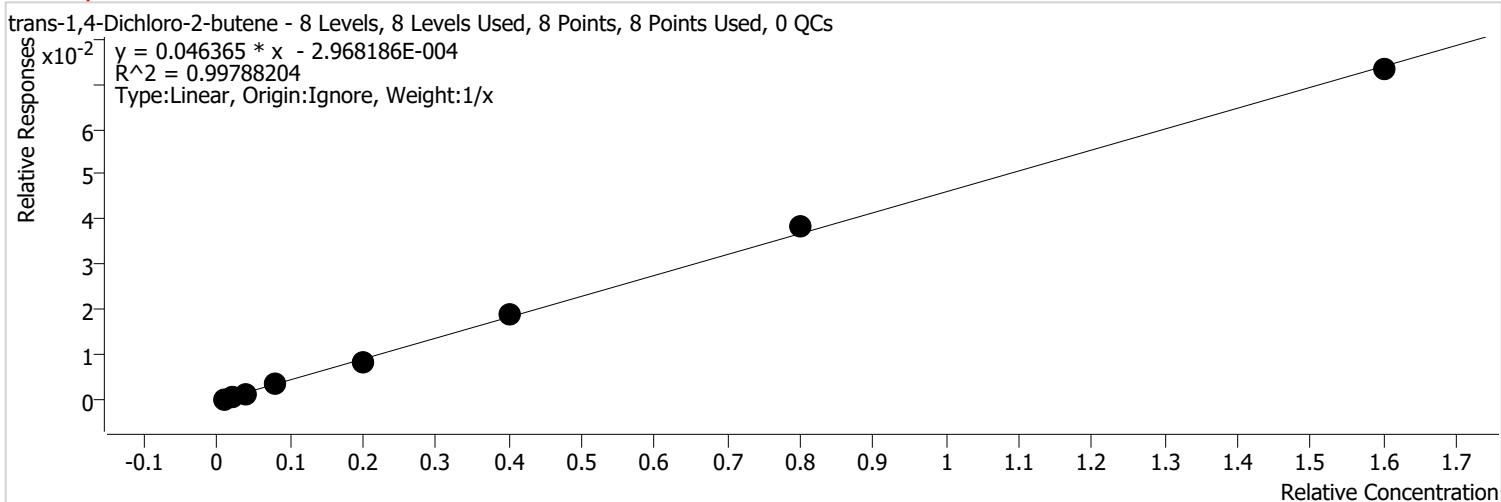


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1		13833	0.1000	1.8196	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	29285	0.2000	1.9181	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	84981	0.5000	2.2601	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	121317	1.0000	1.5946	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	303107	2.0000	2.0044	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	631867	5.0000	1.7322	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	1393300	10.0000	1.9472	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	2813324	20.0000	1.9285	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	5544433	40.0000	1.8142	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

trans-1,4-Dichloro-2-butene %RSE = 12.9

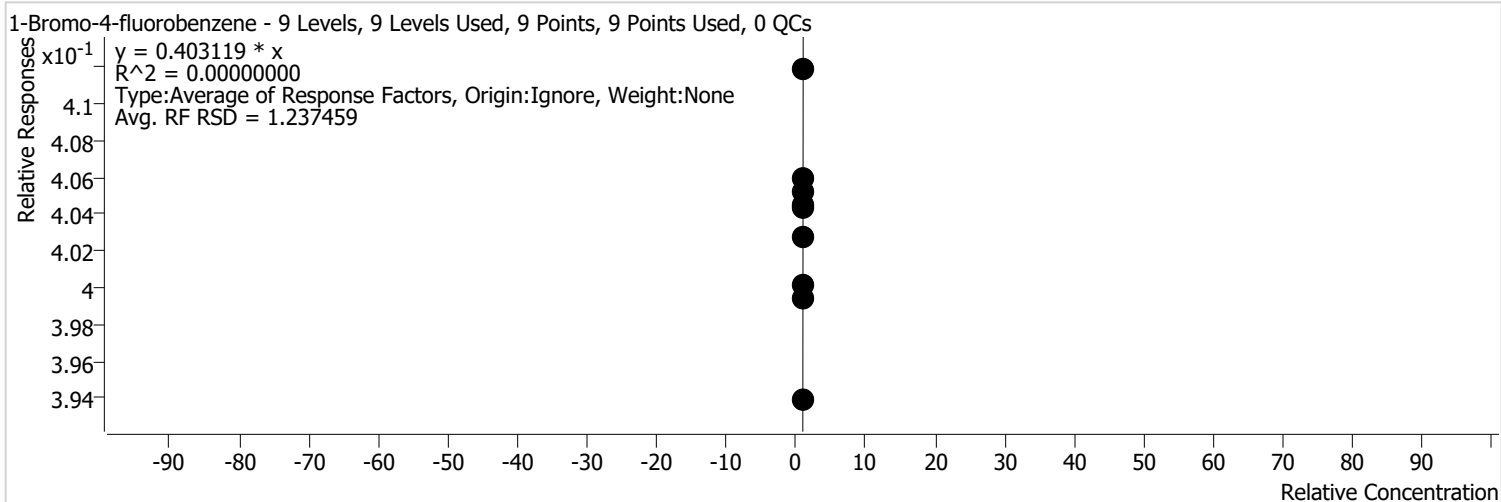


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	308	0.2000	0.0202	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	1228	0.5000	0.0326	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	2392	1.0000	0.0314	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	6094	2.0000	0.0403	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	14528	5.0000	0.0398	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	33614	10.0000	0.0470	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	70007	20.0000	0.0480	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	139697	40.0000	0.0457	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1-Bromo-4-fluorobenzene %RSE =



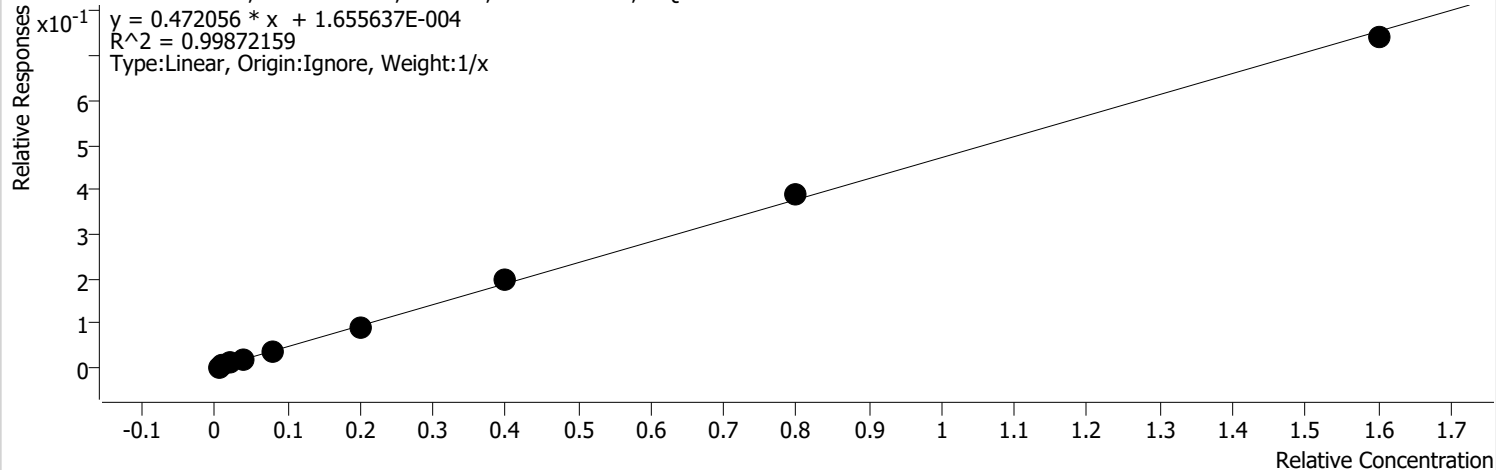
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	774244	25.0000	0.4118	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	752471	25.0000	0.3940	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	729632	25.0000	0.4001	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	720511	25.0000	0.4028	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	737565	25.0000	0.4044	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	767380	25.0000	0.4060	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	769417	25.0000	0.4045	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	773235	25.0000	0.4052	
D:\GC-19\Data\091823A\091821.D	Calibration	1	x	758969	25.0000	0.3993	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Bromobenzene %RSE = 6.5

Bromobenzene - 9 Levels, 9 Levels Used, 9 Points, 9 Points Used, 0 QCs

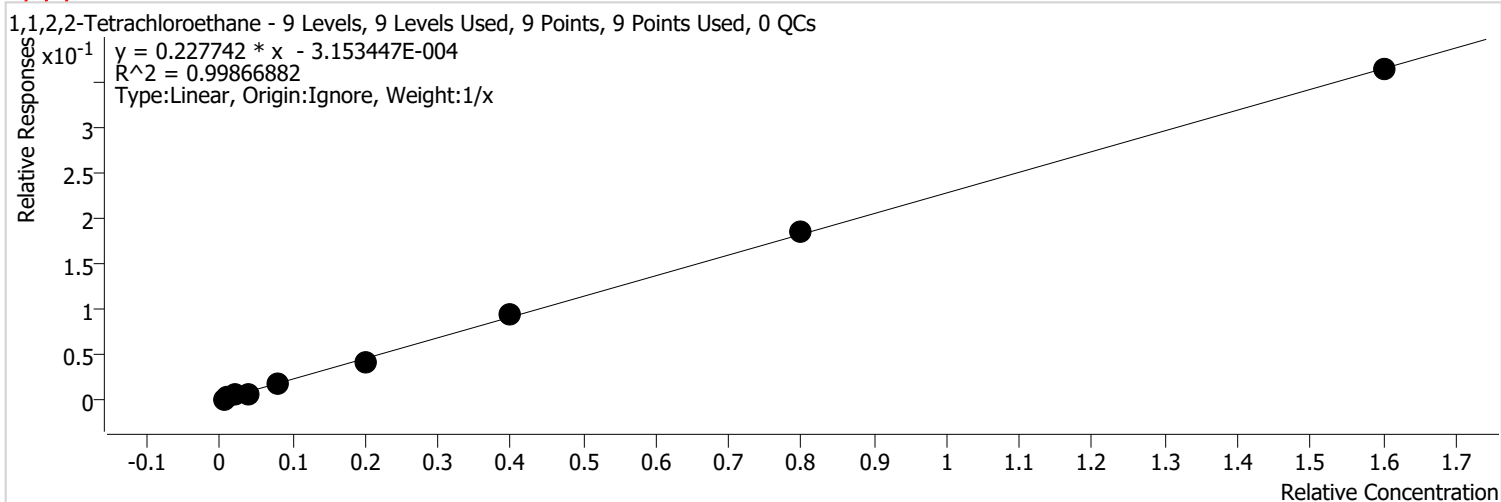


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1	x	4000	0.1000	0.5262	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	7969	0.2000	0.5219	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	18749	0.5000	0.4986	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	31658	1.0000	0.4161	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	71313	2.0000	0.4716	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	162508	5.0000	0.4455	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	354441	10.0000	0.4953	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	712104	20.0000	0.4881	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	1415421	40.0000	0.4631	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\loc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,1,2,2-Tetrachloroethane %RSE = 12.4

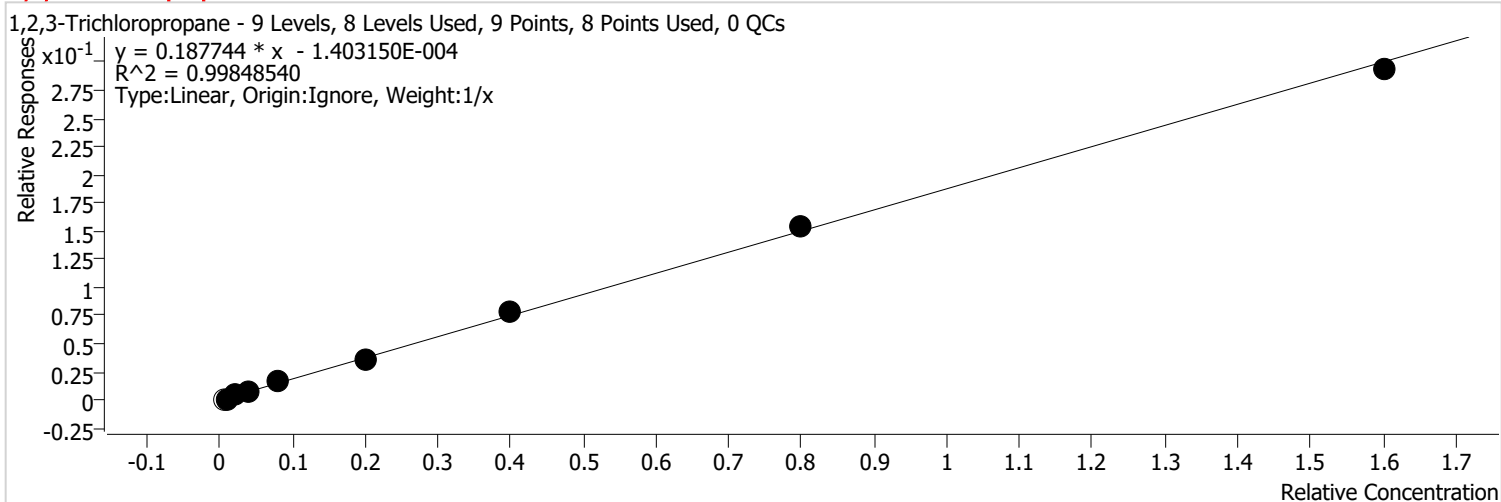


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1	x	1507	0.1000	0.1983	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	2775	0.2000	0.1818	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	8831	0.5000	0.2349	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	13324	1.0000	0.1751	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	31241	2.0000	0.2066	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	77192	5.0000	0.2116	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	166899	10.0000	0.2332	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	339400	20.0000	0.2327	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	692933	40.0000	0.2267	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:52 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,2,3-Trichloropropane %RSE = 6.3



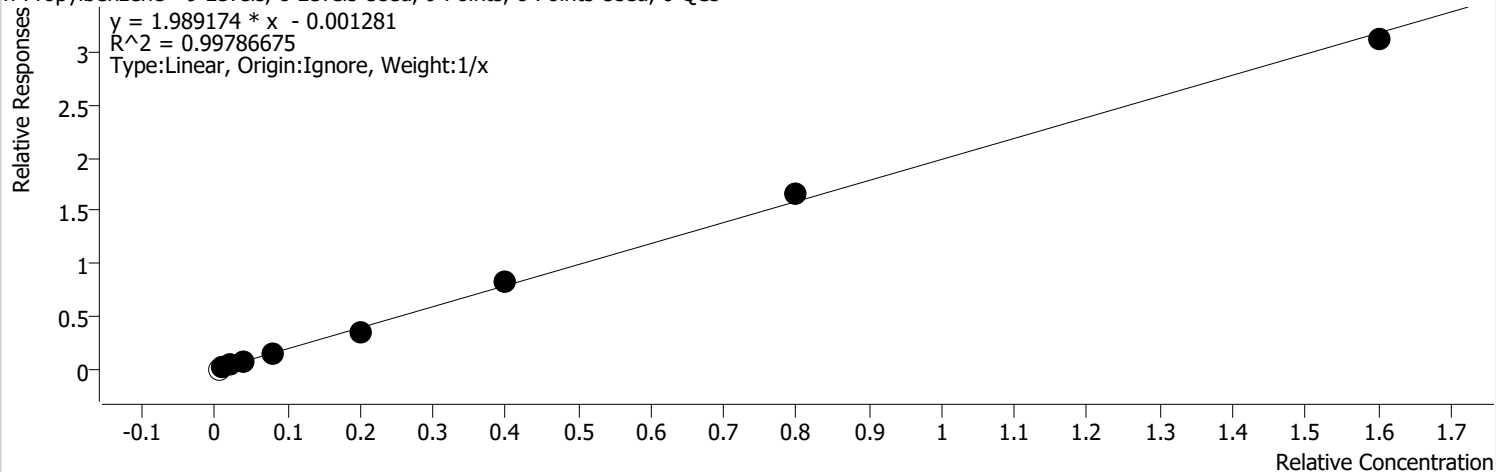
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1		1774	0.1000	0.2334	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	2408	0.2000	0.1577	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	7023	0.5000	0.1868	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	13422	1.0000	0.1764	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	30629	2.0000	0.2025	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	63503	5.0000	0.1741	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	140260	10.0000	0.1960	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	282938	20.0000	0.1940	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	560127	40.0000	0.1833	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:53 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

n-Propylbenzene %RSE = 9.5

n-Propylbenzene - 9 Levels, 8 Levels Used, 9 Points, 8 Points Used, 0 QCs



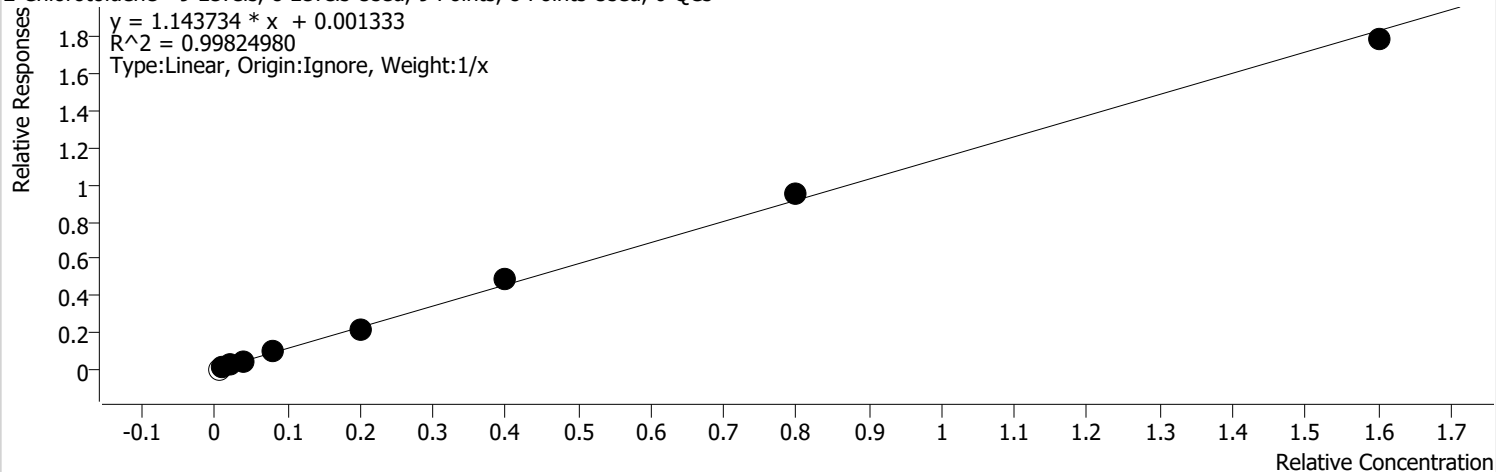
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1		15083	0.1000	1.9841	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	31087	0.2000	2.0361	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	77521	0.5000	2.0617	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	125109	1.0000	1.6444	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	299074	2.0000	1.9777	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	655376	5.0000	1.7967	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	1499095	10.0000	2.0950	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	3018455	20.0000	2.0691	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	5954632	40.0000	1.9484	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:53 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

2-Chlorotoluene %RSE = 6.6

2-Chlorotoluene - 9 Levels, 8 Levels Used, 9 Points, 8 Points Used, 0 QCs



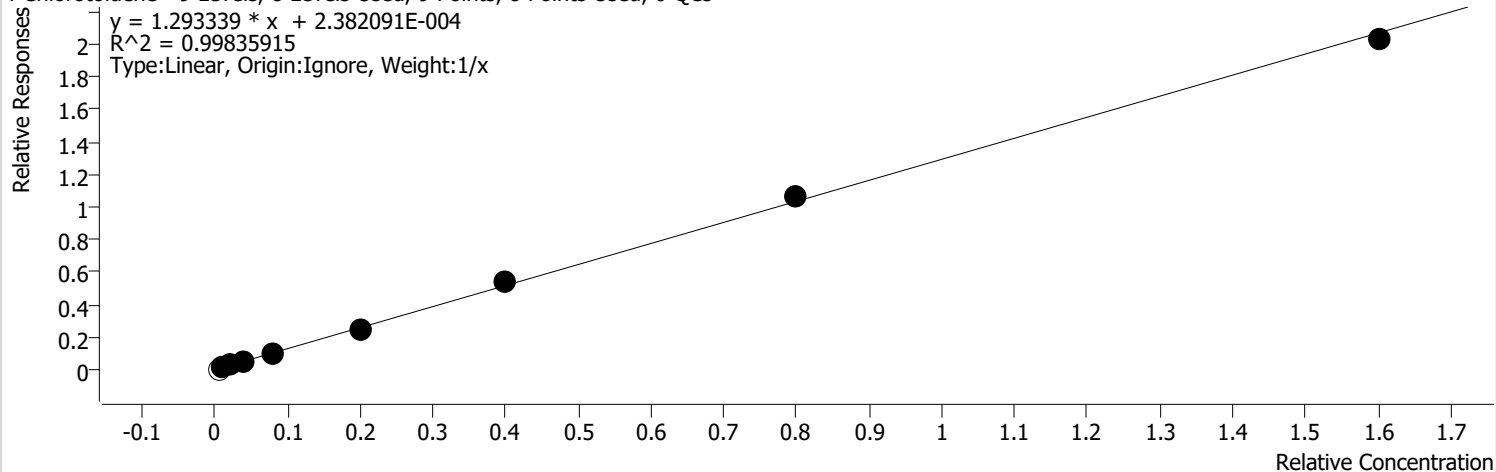
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1		9883	0.1000	1.3000	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	20282	0.2000	1.3284	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	47479	0.5000	1.2627	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	79473	1.0000	1.0446	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	182408	2.0000	1.2062	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	396156	5.0000	1.0860	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	868889	10.0000	1.2143	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	1734581	20.0000	1.1890	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	3405280	40.0000	1.1143	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:53 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

4-Chlorotoluene %RSE = 8.3

4-Chlorotoluene - 9 Levels, 8 Levels Used, 9 Points, 8 Points Used, 0 QCs

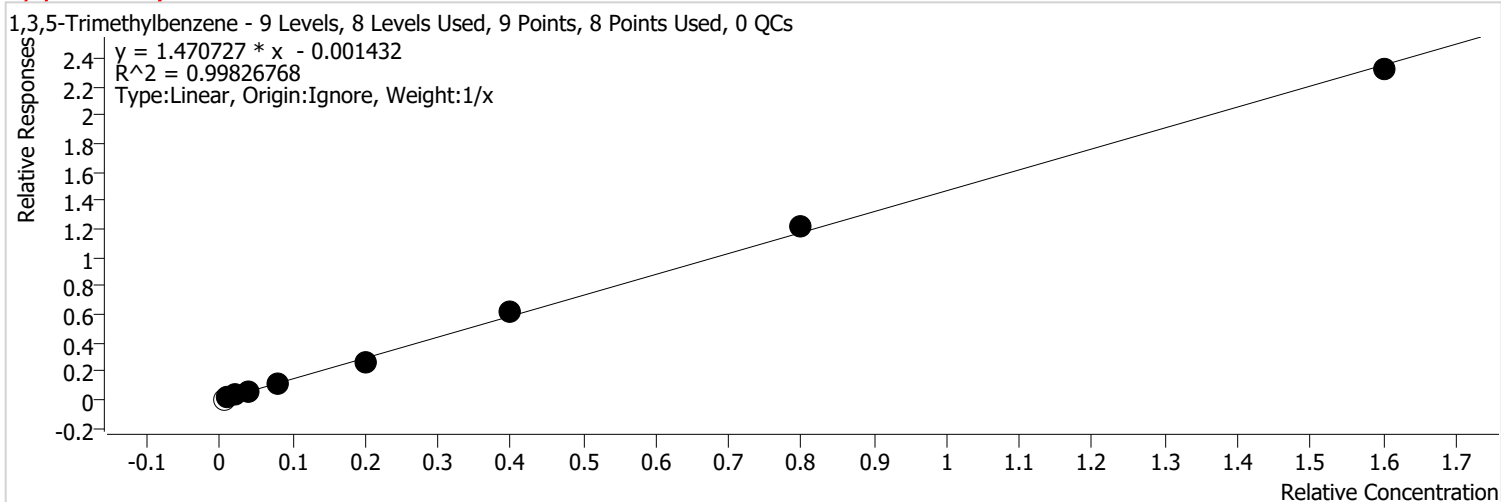


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1		10285	0.1000	1.3529	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	22134	0.2000	1.4497	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	51285	0.5000	1.3639	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	84843	1.0000	1.1152	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	194219	2.0000	1.2843	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	442107	5.0000	1.2120	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	981305	10.0000	1.3714	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	1948735	20.0000	1.3359	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	3872593	40.0000	1.2672	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:53 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,3,5-Trimethylbenzene %RSE = 9.6



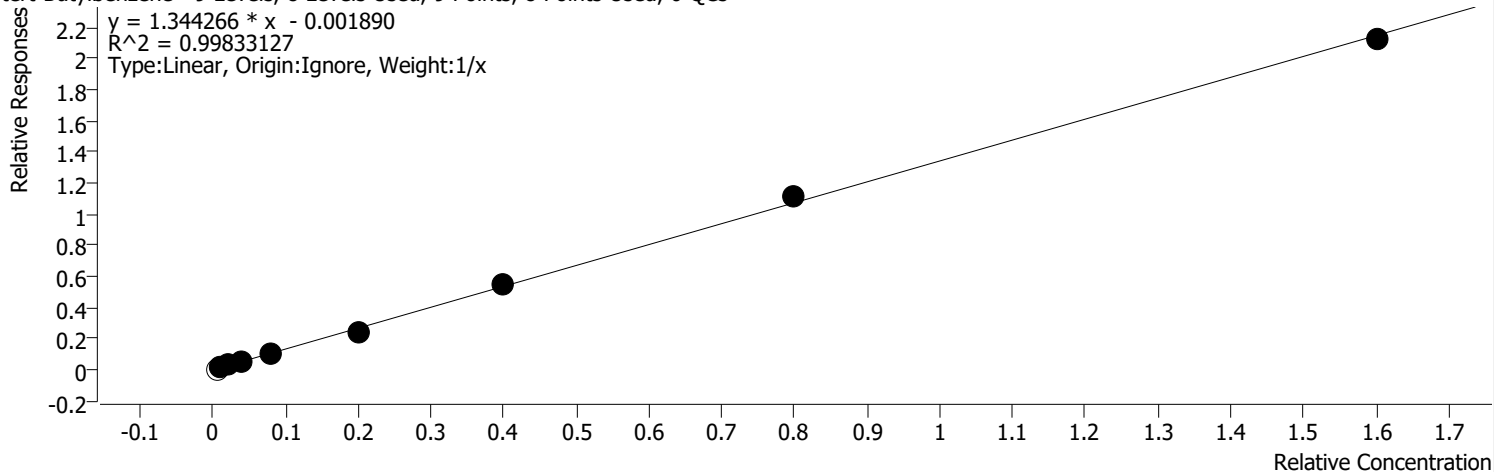
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1		11097	0.1000	1.4598	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	21632	0.2000	1.4168	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	58441	0.5000	1.5543	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	91521	1.0000	1.2029	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	219288	2.0000	1.4501	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	484284	5.0000	1.3276	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	1091317	10.0000	1.5251	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	2220240	20.0000	1.5220	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	4428847	40.0000	1.4492	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:53 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

tert-Butylbenzene %RSE = 9.7

tert-Butylbenzene - 9 Levels, 8 Levels Used, 9 Points, 8 Points Used, 0 QCs

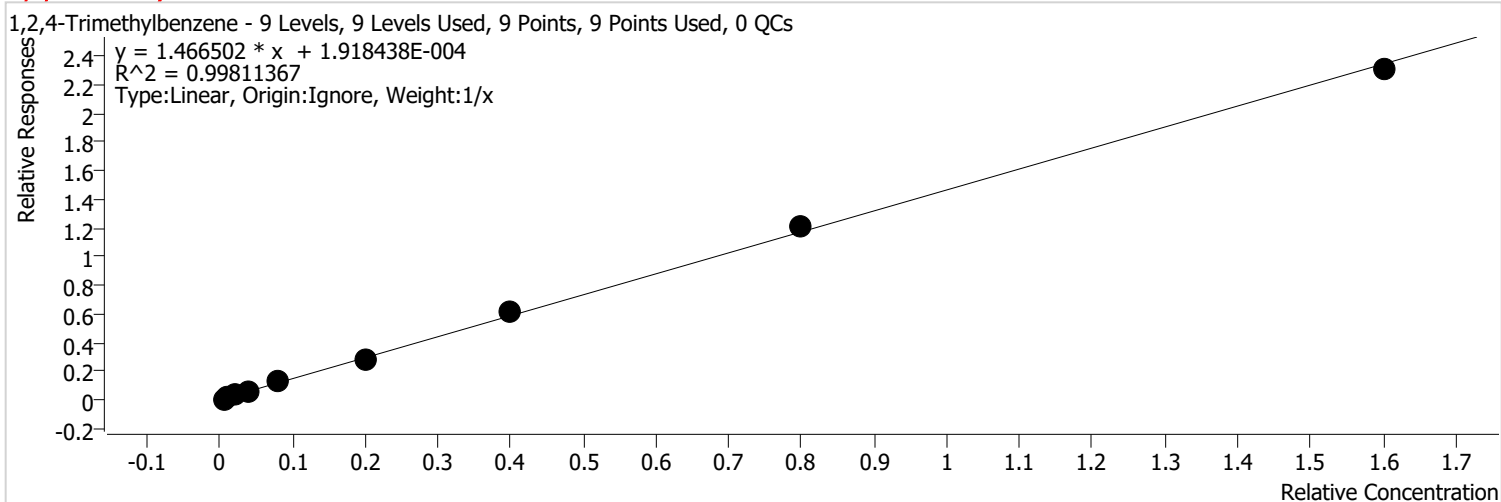


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1		9718	0.1000	1.2784	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	20122	0.2000	1.3179	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	48957	0.5000	1.3020	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	85095	1.0000	1.1185	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	193869	2.0000	1.2820	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	440278	5.0000	1.2070	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	992977	10.0000	1.3877	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	2033335	20.0000	1.3938	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	4051605	40.0000	1.3257	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:53 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,2,4-Trimethylbenzene %RSE = 13.4



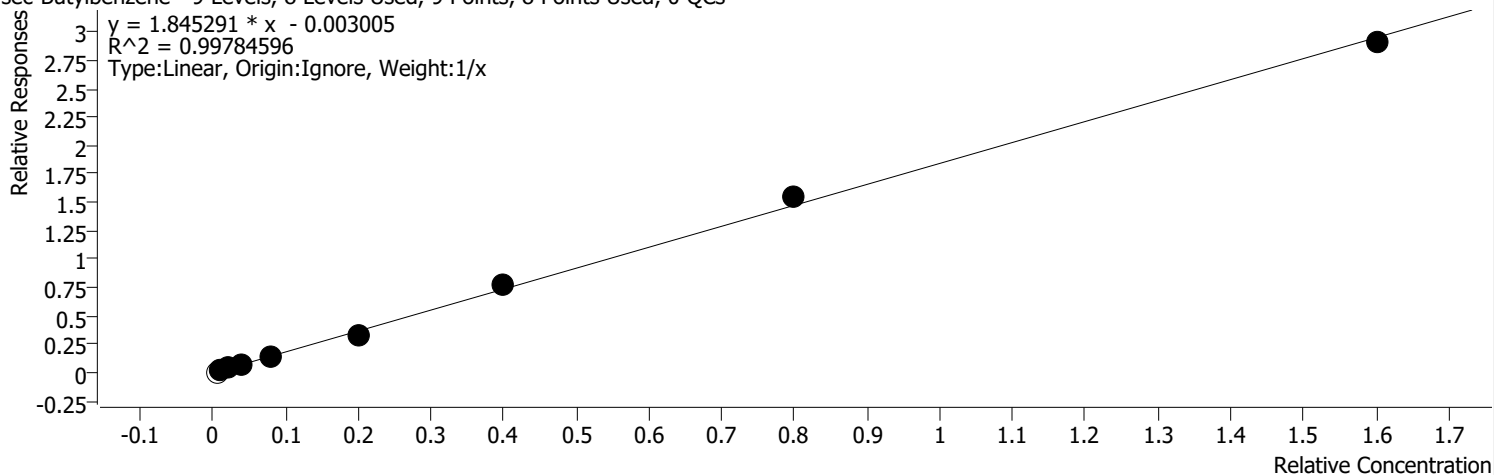
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1	x	10634	0.1000	1.3989	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	22047	0.2000	1.4440	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	70374	0.5000	1.8716	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	90190	1.0000	1.1854	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	232021	2.0000	1.5343	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	503417	5.0000	1.3801	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	1090245	10.0000	1.5236	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	2202254	20.0000	1.5096	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	4405017	40.0000	1.4414	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:53 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

sec-Butylbenzene %RSE = 9.7

sec-Butylbenzene - 9 Levels, 8 Levels Used, 9 Points, 8 Points Used, 0 QCs

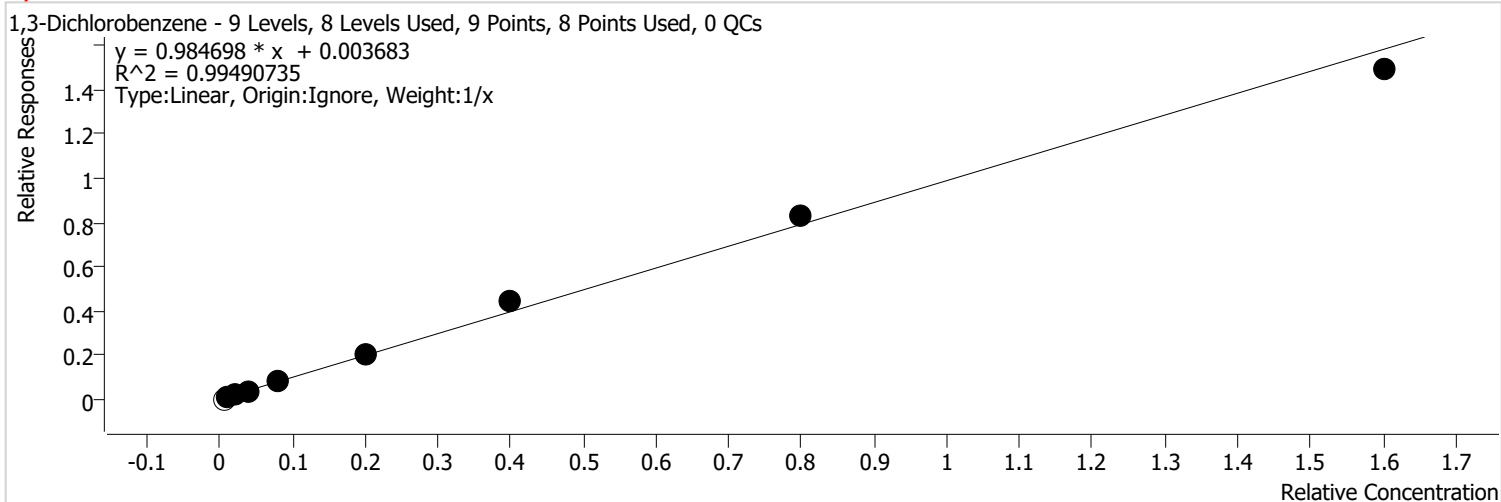


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1		12647	0.1000	1.6636	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	25901	0.2000	1.6964	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	68686	0.5000	1.8267	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	114800	1.0000	1.5089	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	270899	2.0000	1.7914	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	591499	5.0000	1.6215	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	1369168	10.0000	1.9134	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	2804037	20.0000	1.9222	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	5546336	40.0000	1.8148	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:53 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,3-Dichlorobenzene %RSE = 10.6

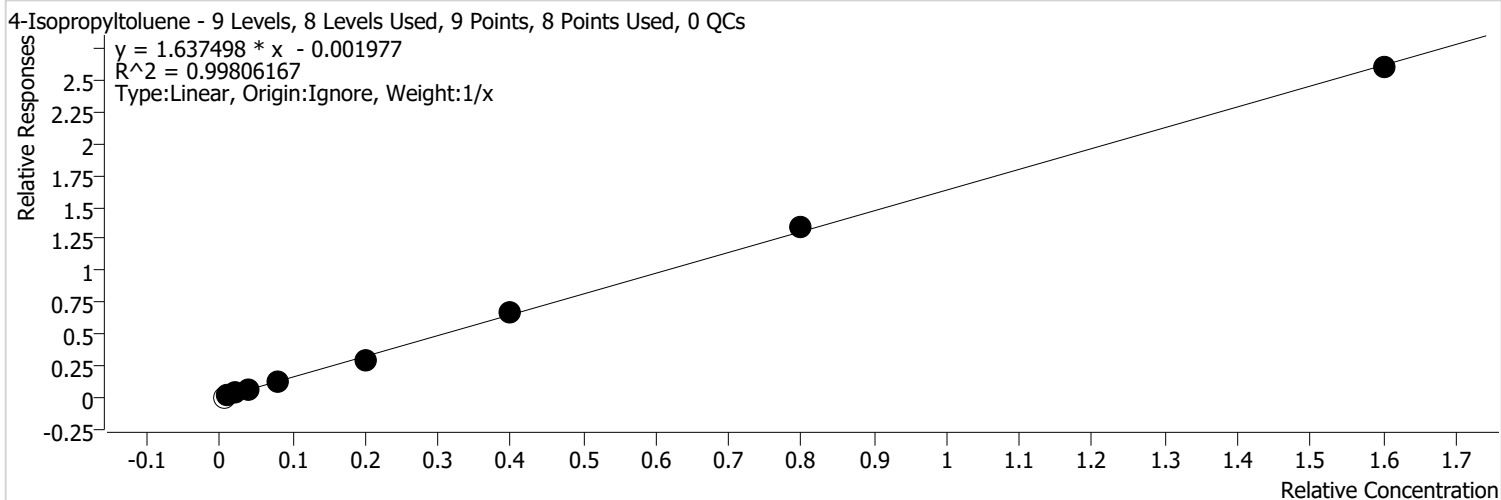


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1		6766	0.1000	1.2273	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	14330	0.2000	1.2818	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	34908	0.5000	1.2258	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	56250	1.0000	0.9815	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	127003	2.0000	1.1031	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	285755	5.0000	1.0199	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	642487	10.0000	1.1171	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	1263390	20.0000	1.0360	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	2532755	40.0000	0.9296	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:53 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

4-Isopropyltoluene %RSE = 10.8

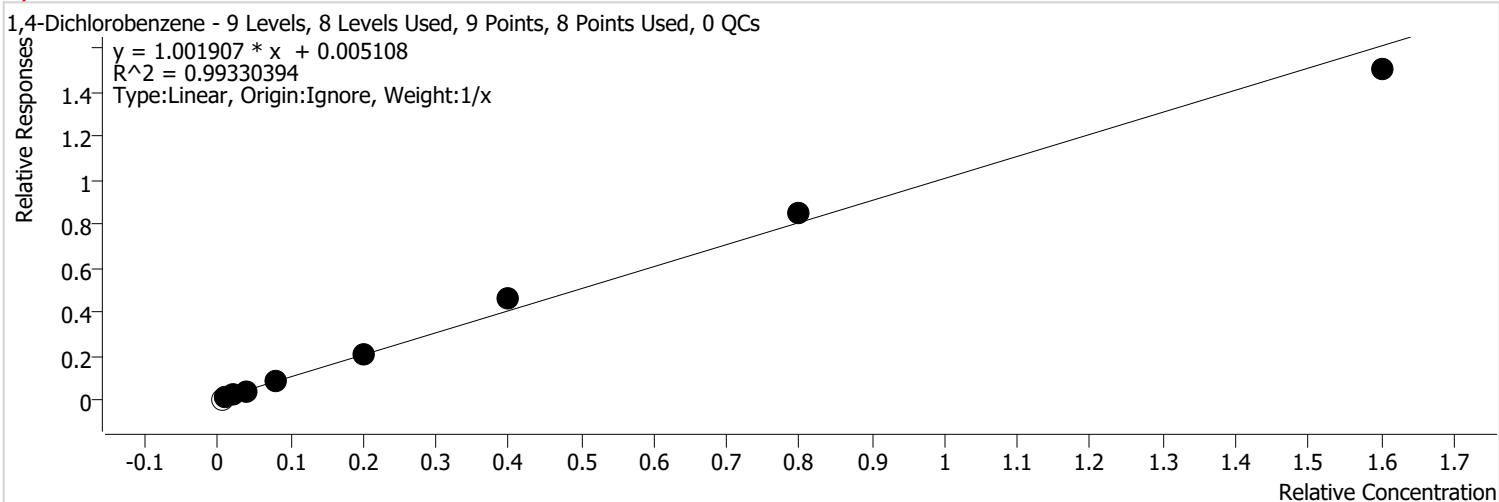


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1		12599	0.1000	1.6573	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	24240	0.2000	1.5877	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	65181	0.5000	1.7335	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	101005	1.0000	1.3276	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	237217	2.0000	1.5687	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	525365	5.0000	1.4402	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	1210678	10.0000	1.6920	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	2462700	20.0000	1.6882	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	4961759	40.0000	1.6236	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:53 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,4-Dichlorobenzene %RSE = 15.3

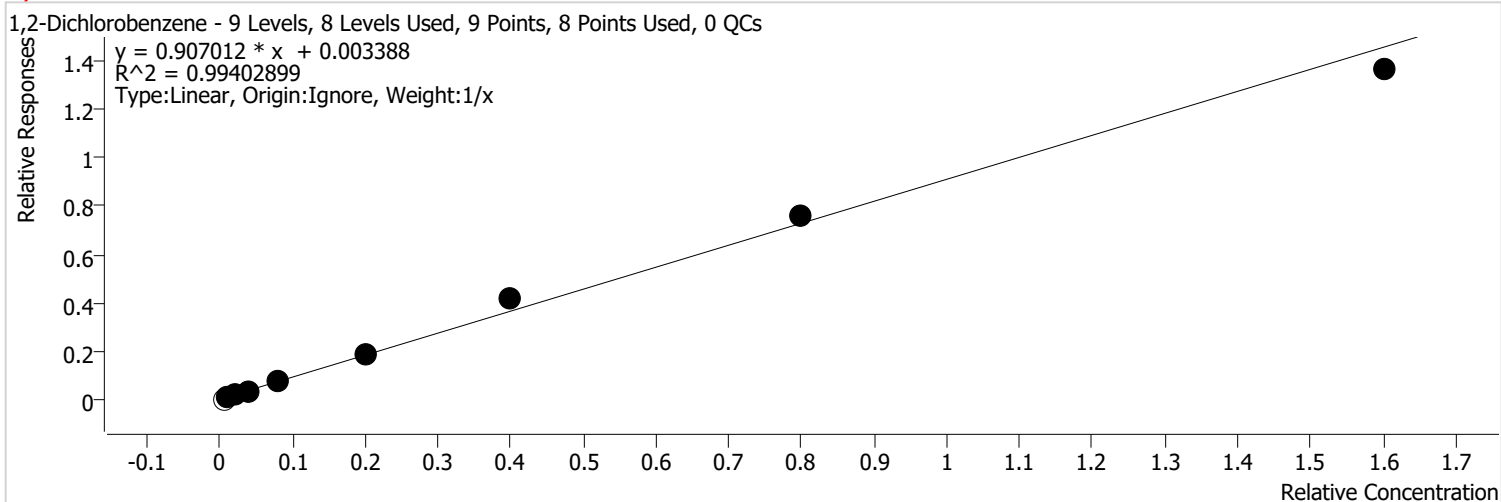


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1		7664	0.1000	1.3901	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	15091	0.2000	1.3498	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	39259	0.5000	1.3786	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	60158	1.0000	1.0497	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	132633	2.0000	1.1520	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	299141	5.0000	1.0677	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	664181	10.0000	1.1548	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	1291105	20.0000	1.0587	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	2554065	40.0000	0.9375	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:53 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,2-Dichlorobenzene %RSE = 11.9



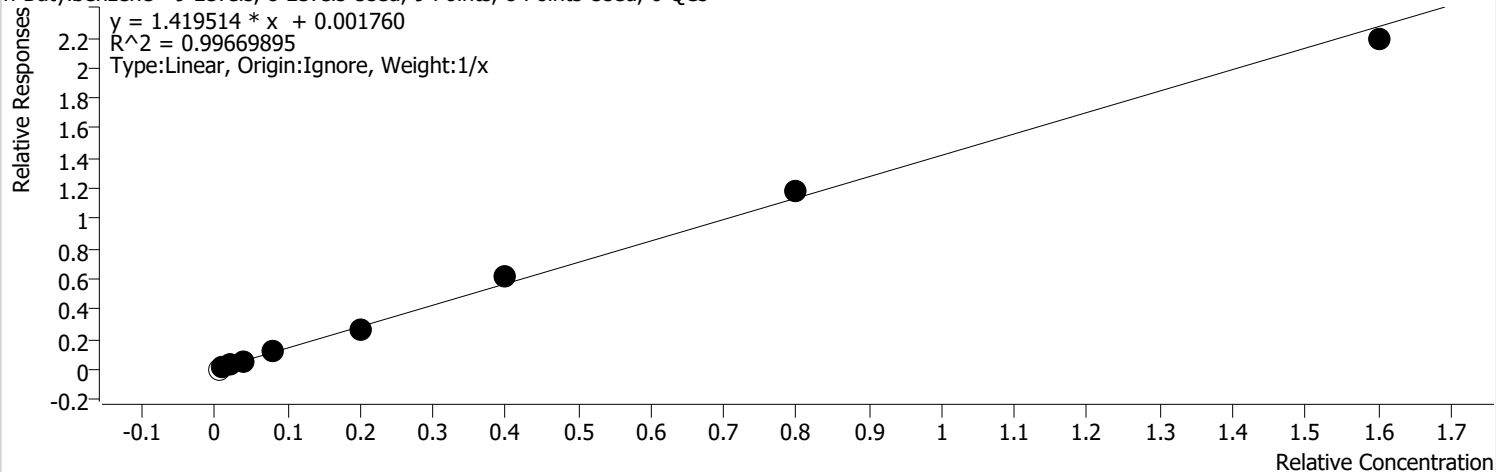
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1		5893	0.1000	1.0689	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	12873	0.2000	1.1515	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	32510	0.5000	1.1416	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	51584	1.0000	0.9001	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	116730	2.0000	1.0139	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	267892	5.0000	0.9561	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	596149	10.0000	1.0365	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	1167039	20.0000	0.9570	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	2318869	40.0000	0.8511	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:53 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

n-Butylbenzene %RSE = 12.4

n-Butylbenzene - 9 Levels, 8 Levels Used, 9 Points, 8 Points Used, 0 QCs

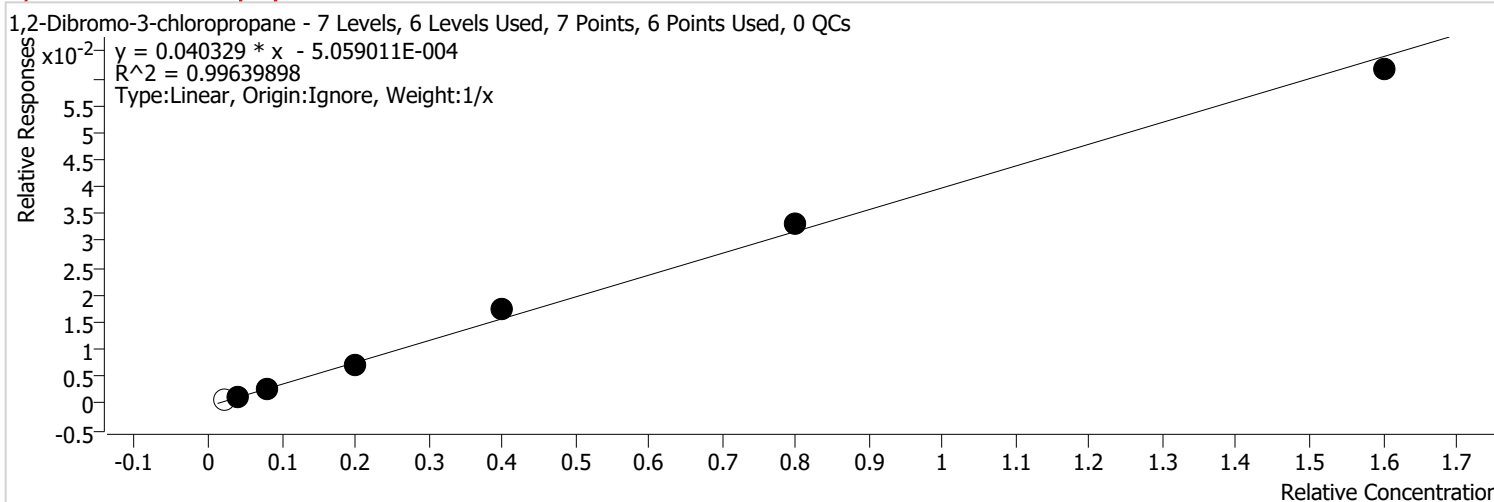


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1		8031	0.1000	1.4568	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	16464	0.2000	1.4727	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	51059	0.5000	1.7930	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	71269	1.0000	1.2435	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	169684	2.0000	1.4738	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	381623	5.0000	1.3620	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	890306	10.0000	1.5479	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	1813834	20.0000	1.4874	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	3722200	40.0000	1.3662	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:53 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,2-Dibromo-3-chloropropane %RSE = 6.9

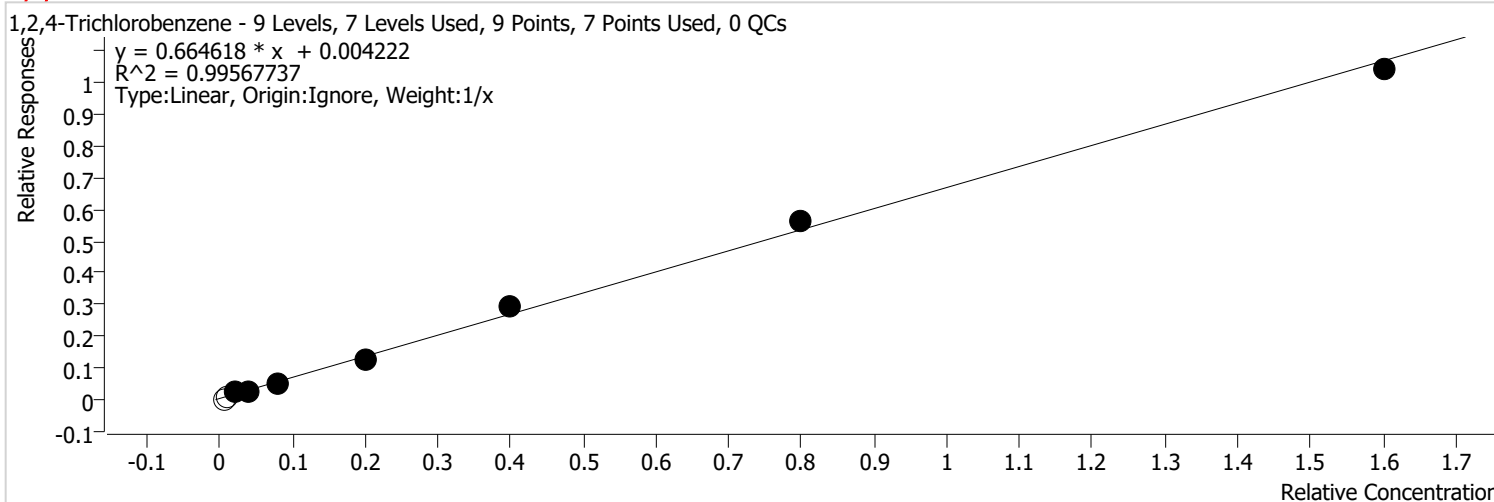


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091904.D	Calibration	3		1229	0.5000	0.0432	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	1482	1.0000	0.0259	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	3906	2.0000	0.0339	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	9932	5.0000	0.0354	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	24819	10.0000	0.0432	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	50448	20.0000	0.0414	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	104888	40.0000	0.0385	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:53 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,2,4-Trichlorobenzene %RSE = 19.9



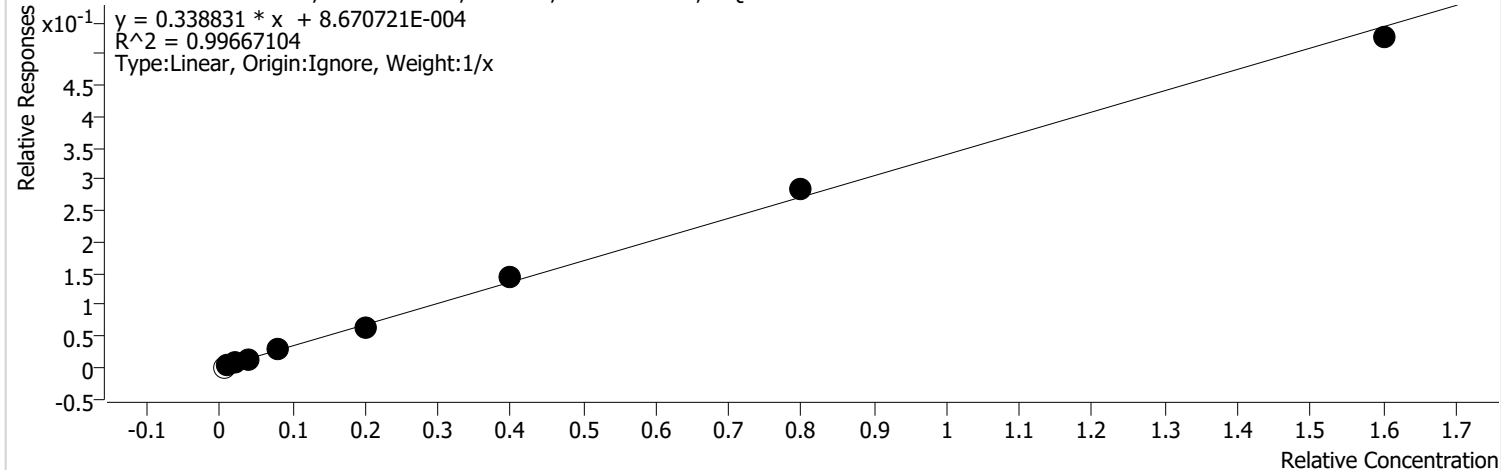
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1		3933	0.1000	0.7134	
D:\GC-19\Data\091823A\091822.D	Calibration	2		7596	0.2000	0.6795	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	31127	0.5000	1.0930	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	34019	1.0000	0.5936	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	75256	2.0000	0.6537	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	181038	5.0000	0.6461	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	417504	10.0000	0.7259	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	852923	20.0000	0.6994	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	1769961	40.0000	0.6497	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:53 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Hexachlorobutadiene %RSE = 16.0

Hexachlorobutadiene - 9 Levels, 8 Levels Used, 9 Points, 8 Points Used, 0 QCs



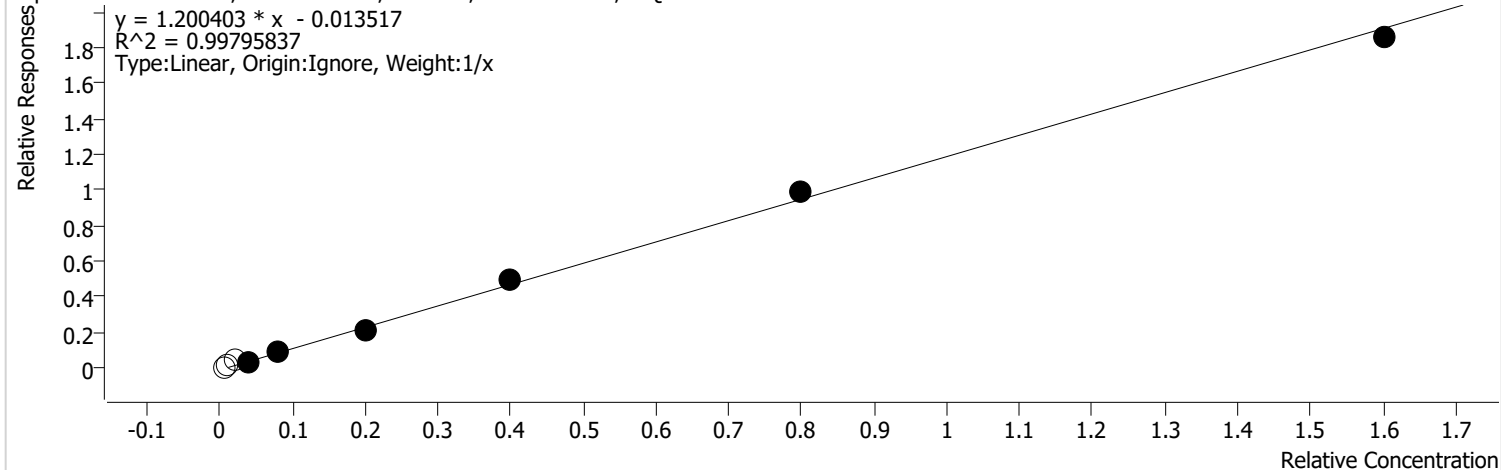
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1		1932	0.1000	0.3505	
D:\GC-19\Data\091823A\091822.D	Calibration	2	x	4317	0.2000	0.3861	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	13702	0.5000	0.4811	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	17832	1.0000	0.3111	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	41459	2.0000	0.3601	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	88673	5.0000	0.3165	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	208189	10.0000	0.3620	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	436192	20.0000	0.3577	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	894615	40.0000	0.3284	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:53 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Naphthalene %RSE = 5.1

Naphthalene - 9 Levels, 6 Levels Used, 9 Points, 6 Points Used, 0 QCs

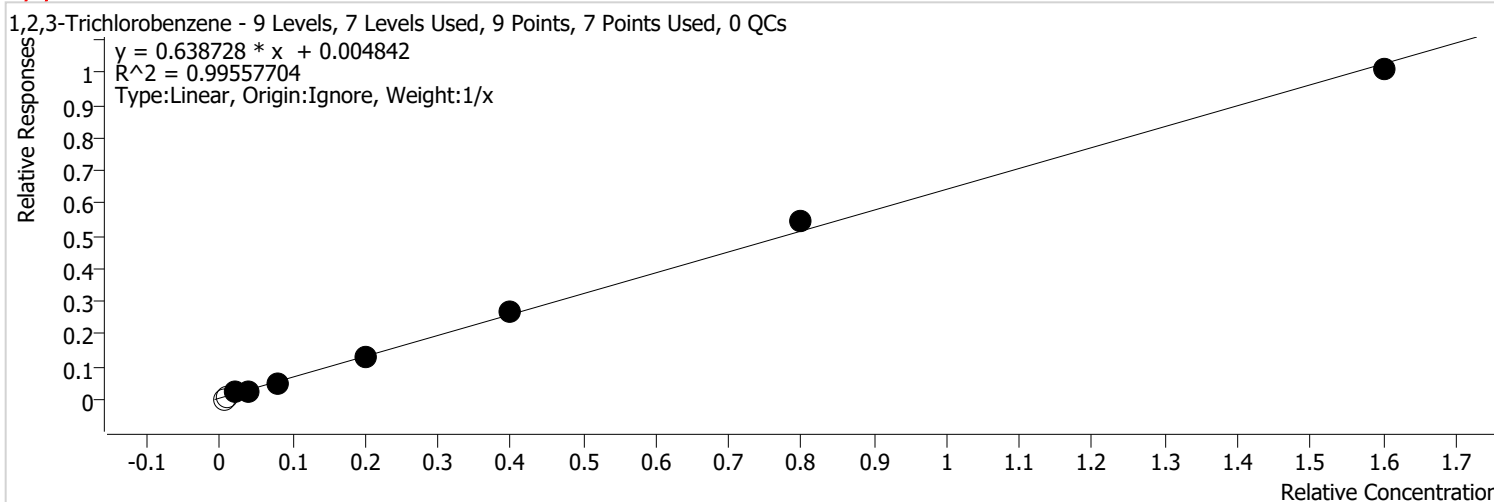


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1		5475	0.1000	0.9930	
D:\GC-19\Data\091823A\091822.D	Calibration	2		10137	0.2000	0.9068	
D:\GC-19\Data\091823A\091904.D	Calibration	3		58783	0.5000	2.0642	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	48656	1.0000	0.8490	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	118887	2.0000	1.0326	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	295966	5.0000	1.0563	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	712721	10.0000	1.2392	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	1503110	20.0000	1.2326	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	3157981	40.0000	1.1591	

Calibration Report

Batch Path	D:\GC-19\Data\091823A\QuantResults\voc w cal.batch.bin		
Analysis Time	9/21/2023 10:22 AM	Analyst Name	FA\GC19
Report Time	9/21/2023 10:31:53 AM	Reporter Name	FA\GC19
Last Calib Update	9/21/2023 9:22 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

1,2,3-Trichlorobenzene %RSE = 23.4



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-19\Data\091823A\091821.D	Calibration	1		3388	0.1000	0.6145	
D:\GC-19\Data\091823A\091822.D	Calibration	2		6461	0.2000	0.5779	
D:\GC-19\Data\091823A\091904.D	Calibration	3	x	32574	0.5000	1.1438	
D:\GC-19\Data\091823A\091824.D	Calibration	4	x	33300	1.0000	0.5810	
D:\GC-19\Data\091823A\091825.D	Calibration	5	x	70038	2.0000	0.6083	
D:\GC-19\Data\091823A\091826.D	Calibration	6	x	176828	5.0000	0.6311	
D:\GC-19\Data\091823A\091827.D	Calibration	7	x	383221	10.0000	0.6663	
D:\GC-19\Data\091823A\091828.D	Calibration	8	x	828270	20.0000	0.6792	
D:\GC-19\Data\091823A\091829.D	Calibration	9	x	1717477	40.0000	0.6304	

VOC Water Calibration




Date: 9/18/23
 Analyst: CC
 Instrument: GC-19

Cal	ICV
8260 Standard: <u>28912</u>	8260 Standard: <u>28919</u>

IS/Surrogate 28947

Cal Level	Spike Conc. (ppb)	Intermediate Spike (µL)	Cal 8260 Spike (µL)	ICV 8260 Spike (µL)	Final Vol. (mL)	Comments
1	0.1	25.00	--	--	50	
2	0.2	50.00	--	--	50	
3	0.5	125.00	--	--	50	
4	1	--	2.50	--	50	
5	2	--	5.00	--	50	
6	5	--	12.50	--	50	
7	10	--	25.00	--	50	
8	20	--	50.00	--	50	
9	40	--	100.00	--	50	
	ICV (20 ppb)	--	--	50.00	50	

	8260 Cal (µL)	P&T MeOH (µL)	Final Volume (mL)
Intermediate	10	990	1

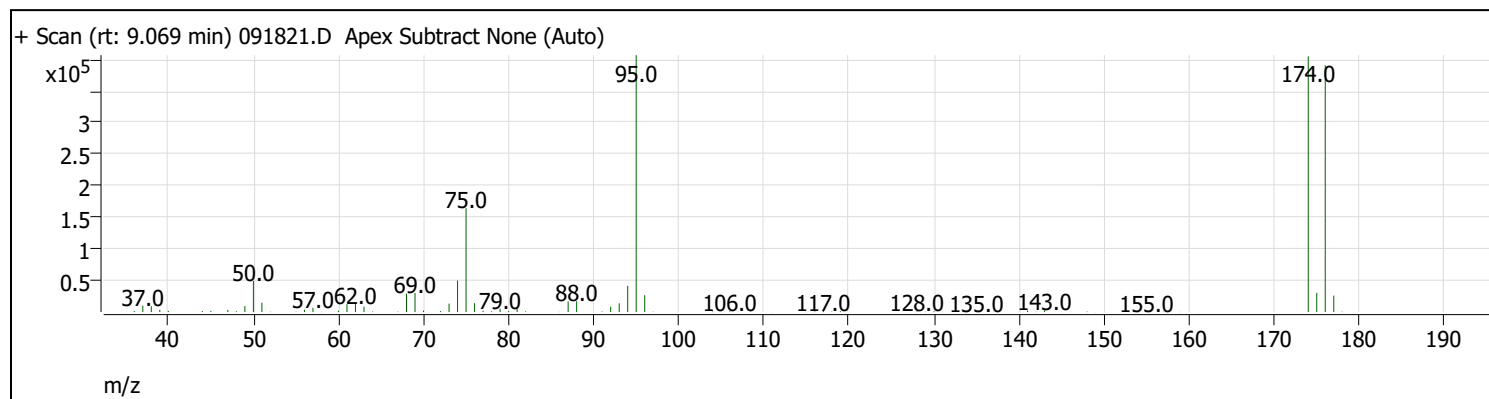
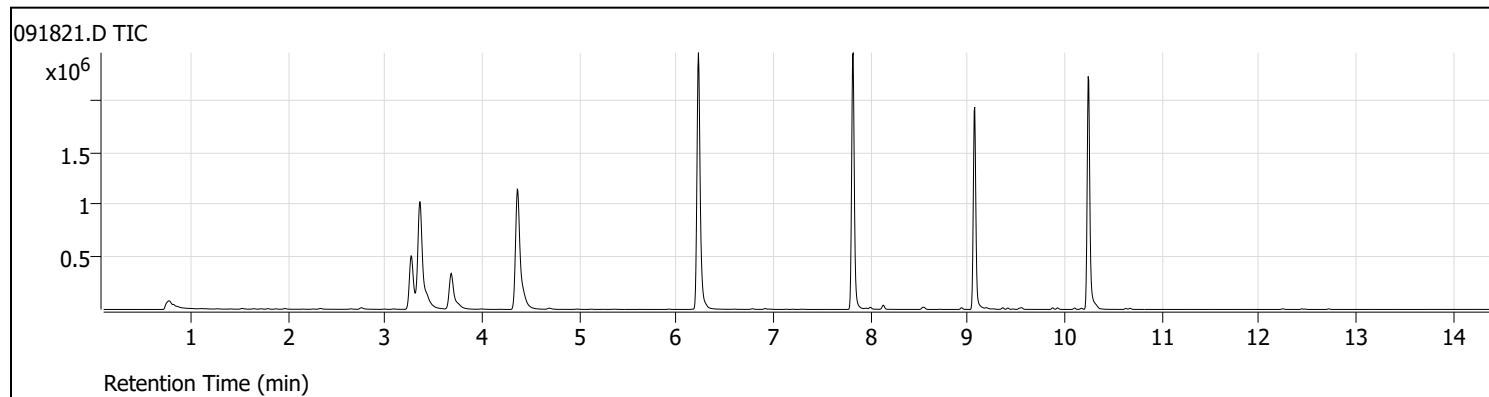
Signature and Date:  9/18/23



Tunes

Tune Evaluation Report

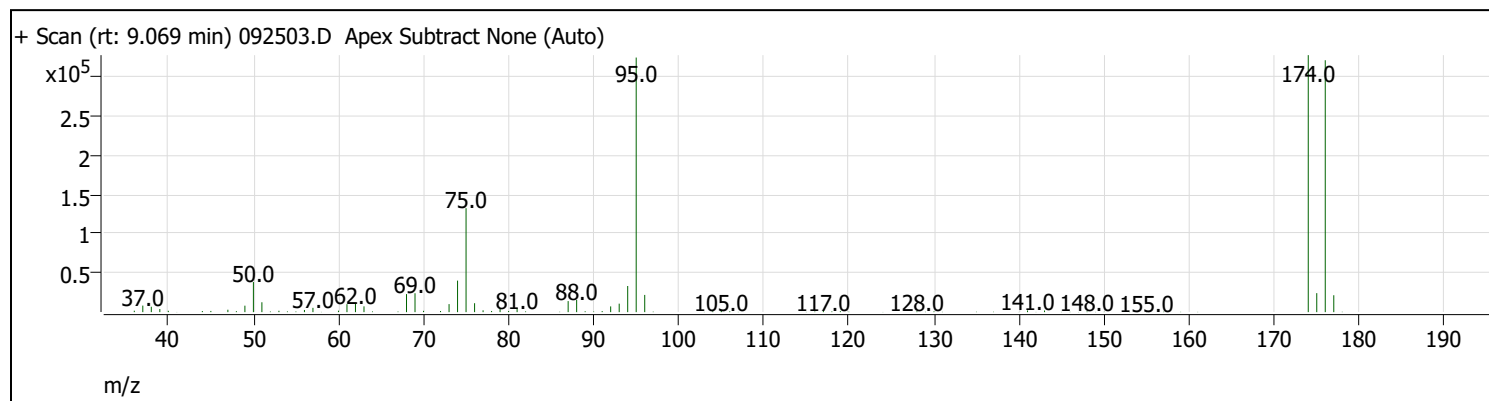
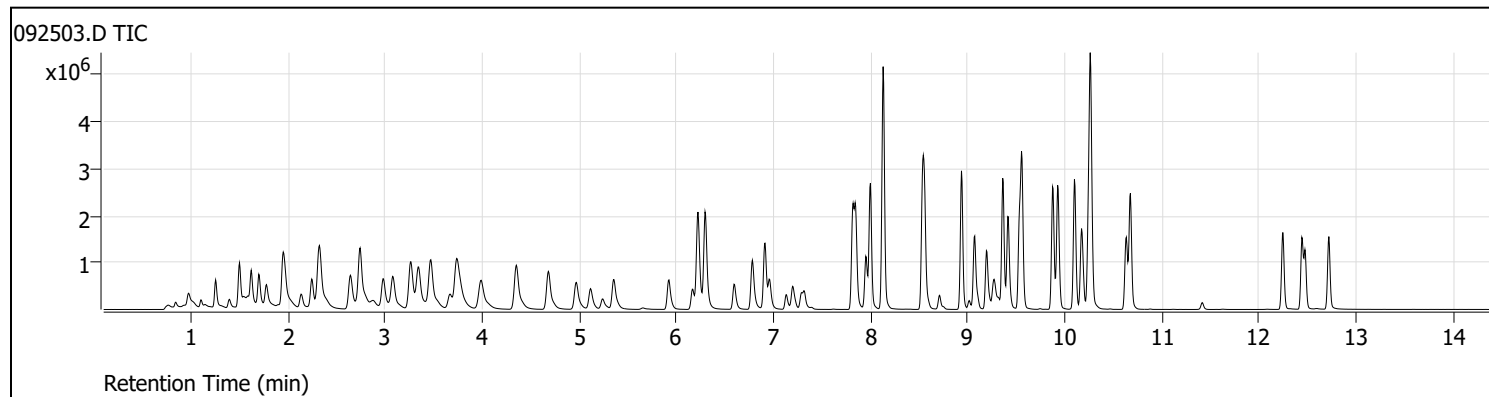
Data Path: D:\GC-19\Data\091823A\091821.D
 Acq on: 9/18/2023 10:08:06 PM
 Operator: FA\GC19
 Sample: VOC W CAL 1
 Inst Name: GC19
 ALS Vial: 9
 Method: D:\MassHunter\Methods\Quant\BFB2021.m



Target Mass	Rel. To Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Pass/Fail
95	174	50	200	100.5	406627	Pass
96	95	5	9	6.6	26795	Pass
173	174	0	2	0.0	0	Pass
174	95	50	200	99.5	404666	Pass
175	174	5	9	7.5	30536	Pass
176	174	95	105	96.5	390580	Pass
177	176	5	10	6.7	26095	Pass

Tune Evaluation Report

Data Path: D:\GC-19\Data\092523\092503.D
 Acq on: 9/25/2023 9:28:25 AM
 Operator: FA\GC19
 Sample: VOC S CCV A
 Inst Name: GC19
 ALS Vial: 2
 Method: D:\MassHunter\Methods\Quant\BFB2021.m



Target Mass	Rel. To Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Pass/Fail
95	174	50	200	99.1	324970	Pass
96	95	5	9	6.8	21978	Pass
173	174	0	2	0.0	0	Pass
174	95	50	200	100.9	328051	Pass
175	174	5	9	7.4	24233	Pass
176	174	95	105	98.0	321567	Pass
177	176	5	10	6.7	21583	Pass



Internal Standards

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-19 230925H CCV Name: VOC W 86634
 Run No: 86720 CCV SeqNo: 1809361
 Lab File ID (Standard): 091828.D Date Analyzed: 9/19/2023
 Instrument ID: GC-19 Time Analyzed: 1:39
 GC Column: ID (mm): Length (M):

	IS1 FBZ AREA #	RT #	IS2 (CBZ) AREA #	RT #	IS3 (14DCBZ) AREA #	RT #		
12 HOUR STD	1505342	3.360	1823495	7.821	1524380	10.244		
UPPER LIMIT	3010684	3.860	3646990	8.321	3048760	10.744		
LOWER LIMIT	752671	2.860	911748	7.321	762190	9.744		
SAMPLE NO.								
01 CCV-41565A	1.24113e+006	3.343	1.76664e+006	7.816	1.54392e+006	10.249		

IS1 FBZ = Fluorobenzene

IS3 (14DCBZ) = 1,4-Dichlorobenzene-d4

IS2 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

INTERNAL STANDARD AREA AND RT SUMMARY

RunID: GC-19 230925H

CCV Name: CCV-41565A

Run No: 86720

CCV SeqNo: 1809321

Lab File ID (Standard): 092503.D

Date Analyzed: 9/25/2023

Instrument ID: GC-19

Time Analyzed: 9:28

GC Column: ID (mm):

Length (M):

	IS1 FBZ AREA #	RT #	IS2 (CBZ) AREA #	RT #	IS3 (14DCBZ) AREA #	RT #		
12 HOUR STD	1241131	3.343	1766640	7.816	1543916	10.249		
UPPER LIMIT	2482262	3.843	3533280	8.316	3087832	10.749		
LOWER LIMIT	620566	2.843	883320	7.316	771958	9.749		
SAMPLE NO.								
01 LCS-41565	1.24113e+006	3.343	1.76664e+006	7.816	1.54392e+006	10.249		
02 1122 TETRA TEST	1.22772e+006	3.359	1.74774e+006	7.821	1.27365e+006	10.244		
03 MB-41565	1.22636e+006	3.344	1.7348e+006	7.816	1.29032e+006	10.254		
04 2309261-001B	1.24828e+006	3.343	1.80345e+006	7.816	1.36813e+006	10.249		
05 2309261-001BDUP	1.24463e+006	3.344	1.756e+006	7.816	1.32509e+006	10.249		
06 2309343-001B	1.22145e+006	3.344	1.7482e+006	7.816	1.33844e+006	10.249		
07 2309343-002B	1.21864e+006	3.344	1.74634e+006	7.816	1.30045e+006	10.249		
08 2309343-003B	1.21014e+006	3.344	1.70968e+006	7.816	1.25529e+006	10.249		
09 2309343-004B	1.21461e+006	3.344	1.72368e+006	7.816	1.28775e+006	10.249		
10 2309343-001BMS	1.19522e+006	3.344	1.65562e+006	7.816	1.44828e+006	10.249		
11 2309364-001B	1.18708e+006	3.344	1.78021e+006	7.816	1.35885e+006	10.249		

IS1 FBZ = Fluorobenzene

IS3 (14DCBZ) = 1,4-Dichlorobenzene-d4

IS2 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

APPENDIX E
Data Validation Report



DATA VALIDATION REPORT

701 S JACKSON STREET

Prepared for:

GeoEngineers
17425 NE Union Hill Road, Suite 250
Redmond, WA 98052

Prepared by:

EcoChem, Inc.
500 Union Street, Suite 1010
Seattle, Washington 98101

EcoChem Project: C2221-1

December 26, 2023

Approved for Release:

A handwritten signature in black ink, appearing to read "Christine Ransom". The signature is written in a cursive style with a long horizontal flourish extending to the right.

Christine Ransom
Senior Project Chemist
EcoChem, Inc.

PROJECT NARRATIVE

Basis for the Data Validation

This report summarizes the results of summary validation (EPA Stage 2B) performed on soil and quality control sample data for the 701 S Jackson Street project. A complete list of samples is provided in the **Sample Index**.

Samples were analyzed by Fremont Analytical., Seattle, Washington. The analytical methods and EcoChem project chemists are noted below:

ANALYSIS	METHOD	PRIMARY REVIEW	SECONDARY REVIEW
Polycyclic Aromatic Hydrocarbons (PAH)	8270E SIM	I. Hooper	C. Ransom
PCB Aroclors	SW8082A	I. Hooper	
Gas Range Organics	NWTPH-Gx/8260D	E. Clayton	
BTES/Volatile Organic Compounds	8260D	E. Clayton	
Diesel Range Organics	NWTPH-Dx	E. Joshi	
Metals and Mercury	6020B	E. Clayton	

The data were reviewed using guidance and quality control criteria documented in the analytical methods; the *Quality Assurance Project Plan, 701 South Jackson Street, Seattle Washington* (GeoEngineers July 28, 2023); *National Functional Guidelines for Organic Data Review* (USEPA 2017, 2020); and *National Functional Guidelines for Inorganic Data Review* (USEPA 2017, 2020).

EcoChem's goal in assigning data assessment qualifiers is to assist in proper data interpretation. If values are estimated (J or UJ), data may be used for site evaluation and risk assessment purposes but reasons for data qualification should be taken into consideration when interpreting sample concentrations. If values are assigned an R, the data are to be rejected and should not be used for any site evaluation purposes. If values have no data qualifier assigned, then the data meet the data quality objectives as stated in the documents and methods referenced above.

Data qualifier definitions, reason codes, and validation criteria are included as **APPENDIX A**. A Qualified Data Summary Table is included in **APPENDIX B**. Data Validation Worksheets and project associated communications will be kept on file at EcoChem, Inc. A qualified laboratory electronic data deliverable (EDD) is also submitted with this report.

Sample Index
701 S Jackson St.

SDG	Sample ID	Laboratory ID	PAH SIM	Naphthalenes SIM	PCB Aroclors	BTEX/GRO	VOC/BTEX/ GRO	TPH-Dx	Metals	Lead
2307265	R2-NSW-95	2307265-001A	✓							
2307265	R2-SSW-95	2307265-002A	✓							
2307265	R2-ESW-95	2307265-003A	✓							
2307265	R2-WSW-95	2307265-004A	✓							
2307302	R2-B-90	2307302-001A	✓							
2307302	R2-SSW-95	2307302-002A	✓							
2307302	R1-ESW-98	2307302-003A								✓
2307302	EX-01-95	2307302-004A	✓					✓	✓	
2307302	DUP-R2	2307302-005A	✓							
2308053	R1-B-95	2308053-001A								✓
2308053	R1-WSW-98	2308053-002A								✓
2308053	R1-SSW-98	2308053-003A								✓
2308053	DUP-R1	2308053-004A								✓
2308151	R1-NSW-98	2308151-001A								✓
2308151	UST2-NSW-93	2308151-002A	✓			✓		✓		✓
2308151	UST2-WSW-93	2308151-003A	✓			✓		✓		✓
2308151	UST2-B-89	2308151-005A	✓			✓		✓		✓
2308151	UST3-NSW-93	2308151-006A	✓		✓		✓	✓		✓
2308151	UST3-WSW-93	2308151-008A	✓		✓		✓	✓		✓
2308151	UST3-B-90	2308151-009A	✓		✓		✓	✓		✓
2308151	UST4-NSW-93	2308151-010A	✓		✓		✓	✓		✓
2308151	UST4-SSW-93	2308151-011A	✓		✓		✓	✓		✓
2308151	UST4-B-90	2308151-012A	✓		✓		✓	✓		✓
2308299	R3-NSW-W-88	2308299-001A		✓	✓			✓		
2308299	R3-WSW-S-88	2308299-002A		✓	✓			✓		
2308299	R3-ESW-N-88	2308299-003A		✓	✓			✓		
2308299	R3-WSW-N-88	2308299-004A		✓	✓			✓		
2308299	EX-02-88	2308299-005A	✓		✓			✓	✓	
2308316	R3-SSW-E-88	2308316-001A		✓		✓		✓		

Sample Index
701 S Jackson St.

SDG	Sample ID	Laboratory ID	PAH SIM	Naphthalenes SIM	PCB Aroclors	BTEX/GRO	VOC/BTEX/ GRO	TPH-Dx	Metals	Lead
2308316	R3-SSW-W-88	2308316-002A		✓		✓		✓		
2308316	EX-03-91	2308316-003A	✓			✓		✓	✓	
2308316	R3-DUP-01	2308316-004A		✓		✓		✓		
2308369	R3-B1-81	2308369-001		✓		✓		✓		
2308369	R3-B2-81	2308369-002		✓		✓		✓		
2308369	R3-B3-81	2308369-003		✓		✓		✓		
2308369	Trip Blank	2308369-004				✓				
2308369	R3-B4-81	2308369-005		✓		✓		✓		
2308369	R3-B5-81	2308369-006		✓		✓		✓		
2308436	R3-NSW-E-84	2308436-001A		✓		✓		✓		
2308436	R3-B6-81	2308436-002A		✓		✓		✓		
2308436	R3-B7-81	2308436-003A				✓		✓		
2308436	R3-B8-81	2308436-004A				✓		✓		
2308436	R3-B9-81	2308436-005A				✓		✓		
2308436	R3-B10-81	2308436-006A				✓		✓		
2308436	Trip Blank	2808436-007A				✓				
2309081	R3-ESW-C-87	2309081-001A		✓		✓		✓		
2309081	R3-ESW-S-87	2309081-002A		✓		✓		✓		
2309081	R3-B1-80	2309081-004A		✓		✓		✓		
2309081	R3-B4-80	2309081-006A		✓		✓		✓		
2309081	R3-B8-79	2309081-007A		✓		✓		✓		
2309081	R3-B9-79	2309081-008B				✓				
2309081	R3-B9-80	2309081-009B				✓				
2309081	R3-B10-80	2309081-010A		✓		✓		✓		
2309081	R3-B11-83	2309081-011A		✓		✓		✓		
2309081	R3-B12-81	2309081-012A		✓		✓		✓		
2309081	R3-B12-83	2309081-013B				✓				
2309081	Trip Blank	2309081-014A				✓				
2309211	R3-B13-78	2309211-001B		✓		✓		✓		

Sample Index
701 S Jackson St.

SDG	Sample ID	Laboratory ID	PAH SIM	Naphthalenes SIM	PCB Aroclors	BTEX/GRO	VOC/BTEX/ GRO	TPH-Dx	Metals	Lead
2309211	R3-B7-79	2309211-002B				✓		✓		
2309211	R3-DUP-02	2309211-003B		✓		✓				
2309261	R3-B9-79	2309261-001A		✓		✓		✓		
2309343	R3-B15-83	2309343-001A		✓		✓		✓		
2309343	R3-B7-78	2309343-002A		✓		✓		✓		
2309343	R3-SW-1-83	2309343-003A		✓		✓		✓		
2309343	R3-SW-2-83	2309343-004A		✓		✓		✓		
2309364	R3-B14-77.5	2309364-001B		✓		✓				

DATA VALIDATION REPORT
701 S Jackson St.
Gasoline Range Organics and BTEX by Method SW8260D
Volatile Organic Compounds by Method SW8260D

This report documents the review of the data from the analysis of soil samples and the associated laboratory and field quality control (QC) samples. The samples were analyzed by Fremont Analytical, Seattle, Washington. Refer to the **Sample Index** for a complete list of samples.

SDG	NUMBER OF SAMPLES	VALIDATION LEVEL
2308151	9 Soil	Stage 2B
2308299	5 Soil	Stage 2B
2308316	4 Soil	Stage 2B
2308369	5 Soil & 1 Trip Blank	Stage 2B
2308436	6 Soil & 1 Trip Blank	Stage 2B
2309081	11 Soil & 1 Trip Blank	Stage 2B
2309211	3 Soil	Stage 2B
2309261	1 Soil	Stage 2B
2309343	4 Soil	Stage 2B
2309364	1 Soil	Stage 2B

DATA PACKAGE COMPLETENESS

The laboratory submitted all required deliverables. The laboratory followed adequate corrective action processes and all anomalies were discussed in the case narrative.

SDG 2308316: For the 8/25/23 analyses, the run log was missing. The laboratory was contacted and submitted the missing documentation.

SDG 2308369: The gasoline result was missing from a continuing calibration verification summary. The laboratory was contacted and resubmitted the summary with the missing information.

EDD TO HARDCOPY VERIFICATION

All sample IDs reported in the electronic data deliverable (EDD) were verified (100%) by comparing the EDD to the hardcopy laboratory data package. Sample results were also verified (10%).

SDG 2308369: Sample R3-B3-81 was analyzed at a 10X dilution. The "D" flags in the lab report were not in the EDD. These were added during validation.

TECHNICAL DATA VALIDATION

The QC requirements that were reviewed are listed below.

1	Sample Preservation and Holding Times	1	Laboratory Control Samples (LCS)
✓	Initial Calibration (ICAL)	1	Matrix Spikes (MS)
2	Continuing Calibration (CCAL)	✓	Laboratory Duplicates
✓	Laboratory Blanks	1	Field Duplicates
1	Field Blanks	✓	Reporting Limits
✓	Surrogate Compounds	✓	Reported Results

✓ Stated method quality objectives (MQO) and QC criteria have been met. No outliers are noted or discussed.

1 Quality control outliers are discussed below, but no data were qualified.

2 Quality control outliers that impact the reported data were noted. Data qualifiers were issued as discussed below.

Sample Receipt, Preservation, and Holding Times

SDG 2308316: The samples arrived at the laboratory with a temperature of 7.0°C, which is greater than the upper control limit of 6°C. The samples were received at the laboratory the same day as collection; no data were qualified.

SDG 2309081: The cooler arrived at the laboratory with a temperature of 24.5°C. The samples were received at the laboratory the same day as collection; no data were qualified.

SDG 2309364: The cooler arrived at the laboratory with a temperature of 14.7°C. The sample was received at the laboratory the same day as collection; no data were qualified.

Continuing Calibration

With the exceptions noted below, the percent difference (%D) values were within the 20% control limits for all continuing calibrations (CCV). If the %D values indicated a potential low bias, associated results were estimated (J/UJ-5BL). If the %D outlier indicates a potential high bias, and there were no positive results for these compounds, no qualifiers were required.

SDG 2308151: In the CCAL from 8/12/23, the %D value for 1,1,2,2-tetrachloroethane was greater than the control limit indicating a potential low bias. The reporting limits in the associated samples were estimated (UJ-5BL).

SDG 2308316: In the CCAL from 8/24/23, the %D value for toluene was greater than the control limit indicating a potential high bias. Associated field sample results were not detected; no data were qualified.

Field Blanks

SDG 2308369: One Trip Blank was submitted. No target analytes were detected.

SDG 2308436: One Trip Blank was submitted. No target analytes were detected.

SDG 2309081: One Trip Blank was submitted. No target analytes were detected.

Laboratory Control Samples

SDG 2308316: The laboratory control sample (LCS) recovery for toluene was greater than the upper control limit. This compound was not detected in the associated samples; no action was taken based on the potential high bias.

Matrix Spikes

SDGs 2308151: The matrix spike (MS) was analyzed using a sample from another project. The recovery for chloroethane was greater than the upper control limit. No action was taken as qualifiers for matrix spike outliers are only applied to the parent sample.

Field Duplicates

A control limit of 50% was used to evaluate the field duplicate RPD for results greater than 5x the reporting limit (RL). For results less than 5x the RL, the difference between the sample and duplicate must be less than 2x the RL.

SDG 2308316: Samples R3-SSW-E-88 and R3-DUP-01 were submitted as field duplicates. No target analytes were detected in either sample. Field precision was acceptable.

SDG 2309211: Samples R3-B13-78 and R3-DUP-02 were submitted as field duplicates. No target analytes were detected in either sample. Field precision was acceptable.

OVERALL ASSESSMENT

As determined by this evaluation, the laboratory followed the specified analytical method. Accuracy was acceptable, as demonstrated by the surrogate, LCS, and MS percent recovery values. Precision was also acceptable as demonstrated by the laboratory duplicate and field duplicate results.

Detection limits were estimated due to CCAL %R outliers.

All data, as qualified, are acceptable for use.

DATA VALIDATION REPORT
701 S Jackson St.
Polycyclic Aromatic Hydrocarbons and Naphthalenes
by 8270E Selective Ion Monitoring (SIM)

This report documents the review of analytical data from the analysis of soil samples and the associated laboratory quality control (QC) samples. Samples were analyzed by Fremont Analytical, Inc., Seattle, Washington. Refer to the **Sample Index** for a complete list of samples.

SDG	NUMBER OF SAMPLES	VALIDATION LEVEL
2307265	4 Soil (PAH)	Stage 2B
2307302	4 Soil (PAH)	Stage 2B
2308151	9 Soil (PAH)	Stage 2B
2308299	5 Soil (PAH)	Stage 2B
2308316	4 Soil (PAH and Naphthalenes)	Stage 2B
2308369	5 Soil (Naphthalenes only)	Stage 2B
2308436	2 Soil (Naphthalenes only)	Stage 2B
2309081	8 Soil (Naphthalenes only)	Stage 2B
2309211	2 Soil (Naphthalenes only)	Stage 2B
2309261	1 Soil (Naphthalenes only)	Stage 2B
2309343	4 Soil (Naphthalenes only)	Stage 2B

DATA PACKAGE COMPLETENESS

The laboratory submitted all required deliverables. The laboratory followed adequate corrective action processes and all anomalies were discussed in the case narrative.

EDD TO HARDCOPY VERIFICATION

All sample IDs reported in the electronic data deliverable (EDD) were verified (100%) by comparing the EDD to the hardcopy laboratory data package. Sample results were also verified (10%).

TECHNICAL DATA VALIDATION

The QC requirements that were reviewed are listed below.

1	Sample Receipt, Preservation, and Holding Times	✓	Certified Reference Material (CRM)
✓	GC/MS Instrument Performance (Tune)	2	Matrix Spike/Matrix Spike Duplicates (MS/MSD)
✓	Initial Calibration (ICAL)	✓	Internal Standards
1	Continuing Calibration (CCAL)	1	Field Duplicates
✓	Laboratory Blanks	✓	Target Analyte List
1	Field Blanks	1	Reporting Limits
✓	Surrogate Compounds	✓	Reported Results
1	Laboratory Control Samples (LCS/LCSD)	✓	Compound Identification

✓ Stated method quality objectives (MQO) and QC criteria have been met. No outliers are noted or discussed.

1 Quality control outliers are discussed below, but no data were qualified.

2 Quality control outliers that impact the reported data were noted. Data qualifiers were issued as discussed below.

Sample Receipt, Preservation, and Holding Times

SDG 2307265: The samples arrived at the lab with a cooler temperature of 20.9°C, which is greater than the upper control limit of 6°C. The samples were received the same day as they were collected and were refrigerated upon receipt; no action was taken.

SDG 2308316: The samples arrived at the lab with a cooler temperature of 7.0°C. The samples were received the same day as they were collected; no action was taken.

SDG 2309081: The samples arrived at the lab with a cooler temperature of 24.5°C. Samples were received the same day as they were collected and were refrigerated upon receipt. No action was taken.

Continuing Calibration

A continuing calibration verification (CCAL) standard was analyzed at the required frequency. With the noted exceptions, the percent drift (%D) values were within the criteria of $\pm 20\%$ ($\pm 50\%$ for low level and ending CCALs). When the CCAL %D values indicate a potential low bias, associated results are estimated (J/UJ-5BL).

SDG 2308299: For the CCAL analyzed on 8/23/23 at 14:42, the %D value for the surrogate 2,4,6-tribromophenol was greater than the upper control limit. No qualifiers are assigned to laboratory QC samples.

SDG 2308436: For the CCAL analyzed on 9/8/23 at 10:09, the internal standard area for naphthalene-d8 was greater than the upper control limit when compared to the midpoint of the initial calibration. The internal standard area for the associated samples was acceptable when compared to the area of the CCAL. No qualifiers were assigned for the CCAL internal standard outlier.

Field Blanks

No field blanks were submitted.

Laboratory Control Samples

Laboratory control sample/laboratory control sample duplicates (LCS/LCSD) were analyzed at the required frequency of one per batch of 20 or fewer samples. For percent recoveries (%R) less than the lower control limit, associated sample results are estimated (J/UJ-10L) to indicate a potential low bias. For recoveries greater than the upper control limit, associated positive results are estimated (J-0H) to indicate a potential high bias. Associated positive results are estimated (J-9) if the relative percent difference (RPD) values are greater than the control limit of 30%.

SDG 2308151: For batch 41173, the LCS %R value for benzo(a)pyrene was greater than the upper control limit. Benzo(a)pyrene was not detected in the associated samples; no qualifiers were assigned.

Matrix Spike and Matrix Spike Duplicates

Matrix spike/matrix spike duplicates (MS/MSD) were analyzed at the frequency of one per batch of 20 or fewer samples. When both the MS and MSD percent recoveries (%R) were less than the lower control limit, associated sample results are estimated (J/UJ-8L) to indicate a potential low bias. When

both the MS and MSD recoveries were greater than the upper control limit, associated positive results are estimated (J-8H) to indicate a potential high bias. Associated positive results are estimated (J-9) if the relative percent difference (RPD) values are greater than the control limit of 30%.

SDG 2308151: For batch 41251, Sample UST2-NSW-93 was used for the MS/MSD analyses. The MS and MSD %R values for benzo(a)anthracene were less than the lower control limit. The benzo(a)anthracene result for the parent sample was estimated (UJ-8L). Several other MSD %R values were less than the lower control limit. Results for the MS were acceptable; no qualifiers were assigned based on the single outliers.

The RPD values for pyrene, benzo(b)fluoranthene and benzo(a)pyrene were greater than the control limit. These analytes were not detected in the parent sample; no qualifiers were assigned.

SDG 2309261: For batch 41588, the MS/MSD analyses were performed using a sample from an unrelated project. Therefore, outliers were not evaluated.

Field Duplicates

SDG 2307302: Samples DUP-R2 and R2-B-90 were submitted as field duplicates. No target analytes were detected in either sample; field precision was acceptable.

SDG 2308316: Samples R3-DUP-01 and R3-SSW-E-88 were submitted as field duplicates. No target analytes were detected in either sample; field precision was acceptable.

SDG 2309211: Samples R3-DUP-02 and R3-B13-78 were submitted as field duplicates. No target analytes were detected in either sample; field precision was acceptable.

Reporting Limits

The reporting limits (RLs) for some target analytes were greater than the RLs listed in the QAPP. RLs were only listed for naphthalene and carcinogenic PAH compounds.

OVERALL ASSESSMENT

As determined by this evaluation, the laboratory followed the specified analytical method. With the exceptions noted above, accuracy was acceptable as demonstrated by the surrogate, laboratory control sample, and MS/MSD percent recovery values and precision was acceptable as demonstrated by the field duplicate, MS/MSD, and field duplicate RPD values.

Results were estimated due MS/MSD recovery outliers.

All data, as qualified, are acceptable for use.

DATA VALIDATION REPORT
701 S Jackson St.
PCB Aroclors by Method SW8082A

This report documents the review of analytical data from the analysis of soil samples and the associated laboratory quality control (QC) samples. Samples were analyzed by Fremont Analytical, Inc., Seattle, Washington. Refer to the **Sample Index** for a complete list of samples.

SDG	NUMBER OF SAMPLES	VALIDATION LEVEL
2308151	6 Soil	Stage 2B

DATA PACKAGE COMPLETENESS

The laboratory submitted all required deliverables. The laboratory followed adequate corrective action processes and all anomalies were discussed in the case narrative.

For the initial calibration analyzed on the instrument GC25 on 7/10/23, summary forms were not included in the PDF. The laboratory was contacted and provided the missing documentation.

EDD TO HARDCOPY VERIFICATION

All sample IDs reported in the electronic data deliverable (EDD) were verified (100%) by comparing the EDD to the hardcopy laboratory data package. Sample results were also verified (10%).

TECHNICAL DATA VALIDATION

The QC requirements that were reviewed are listed below.

✓	Sample Receipt, Preservation, and Holding Times	✓	Certified Reference Material (CRM)
✓	GC/MS Instrument Performance (Tune)	✓	Matrix Spike/Matrix Spike Duplicates (MS/MSD)
✓	Initial Calibration (ICAL)	✓	Internal Standards
1	Continuing Calibration (CCAL)	1	Field Duplicates
✓	Laboratory Blanks	✓	Target Analyte List
1	Field Blanks	✓	Reporting Limits
✓	Surrogate Compounds	✓	Reported Results
✓	Laboratory Control Samples (LCS)	✓	Compound Identification

✓ Stated method quality objectives (MQO) and QC criteria have been met. No outliers are noted or discussed.

1 Quality control outliers are discussed below, but no data were qualified.

2 Quality control outliers that impact the reported data were noted. Data qualifiers were issued as discussed below.

Continuing Calibration

For the CCAL analyzed on 8/15/23 at 13:05, the percent drift value for Aroclor 1016 was greater than the control limit of 20% and represented an increase in instrument response. There were no target analytes detected in the associated sample; no action was taken based on the potential high bias.

Field Blanks

No field blanks were submitted.

Field Duplicates

No field duplicates were submitted.

OVERALL ASSESSMENT

As determined by this evaluation, the laboratory followed the specified analytical method. Accuracy was acceptable as demonstrated by the surrogate, laboratory control sample, and matrix spike/matrix spike duplicate (MS/MSD) percent recovery values and precision was acceptable as demonstrated by the MS/MSD relative percent difference values.

No data were qualified for any reason. All data, as reported, are acceptable for use.

DATA VALIDATION REPORT
701 S Jackson St.
Diesel Range Hydrocarbons and Heavy Oil by Method NWTPH-Dx

This report documents the review of the data from the analysis of soil samples and the associated laboratory and field quality control (QC) samples. The samples were analyzed by Fremont Analytical, Seattle, Washington. Refer to the **Sample Index** for a complete list of samples.

SDG	NUMBER OF SAMPLES	VALIDATION LEVEL
2307302	1 Soil	EPA Stage 2B
2308151	9 Soil	EPA Stage 2B
2308299	5 Soil	EPA Stage 2B
2308316	4 Soil	EPA Stage 2B
2308369	5 Soil	EPA Stage 2B
2308436	6 Soil	EPA Stage 2B
2309081	8 Soil	EPA Stage 2B
2309211	2 Soil	EPA Stage 2B
2309261	1 Soil	EPA Stage 2B
2309343	4 Soil	EPA Stage 2B

DATA PACKAGE COMPLETENESS

The laboratory submitted all required deliverables. The laboratory followed adequate corrective action processes and all anomalies were discussed in the case narrative.

EDD TO HARDCOPY VERIFICATION

All sample IDs reported in the electronic data deliverable (EDD) were verified (100%) by comparing the EDD to the hardcopy laboratory data package. Sample results were also verified (10%).

TECHNICAL DATA VALIDATION

The QC requirements that were reviewed are listed below.

1	Sample Preservation and Holding Times	✓	Laboratory Control Samples (LCS)
✓	Initial Calibration (ICAL)	1	Matrix Spikes/Matrix Spike Duplicates
✓	Continuing Calibration (CCAL)	1	Laboratory Duplicates
✓	Laboratory Blanks	1	Field Duplicates
1	Field Blanks	✓	Reporting Limits
✓	Surrogate Compounds	✓	Reported Results

✓ Stated method quality objectives (MQO) and QC criteria have been met. No outliers are noted or discussed.

1 Quality control outliers are discussed below, but no data were qualified.

2 Quality control outliers that impact the reported data were noted. Data qualifiers were issued as discussed below.

Sample Preservation and Holding Times

SDG 2308316: The samples arrived at the lab with a cooler temperature of 7.0°C, which is greater than the upper control limit of 6°C. The samples were received the same day as they were collected; no action was taken.

SDG 2309081: The samples arrived at the lab with a cooler temperature of 24.5°C. Samples were received the same day as they were collected and were refrigerated upon receipt. No action was taken.

Field Blanks

No field blanks were submitted.

Matrix Spikes/Matrix Spike Duplicates

Matrix spike/matrix spike duplicates (MS/MSD) were analyzed at the appropriate frequency. When the MS/MSD %R values indicate a potential low bias, associated results are estimated (J/UJ-8L). Only the associated positive results are estimated (J-8H) if the %R values indicate a potential high bias. No action is taken unless both the MS and MSD %R values are outside the control limits. Associated positive results are estimated (J-9) if the RPD values indicate uncertainty.

SDG 2308299: Sample R3-WSW-N-88 was used for the MS/MSD analysis. The MS %R was less than the control limit. The MSD %R was within control. No action was taken based on the single outlier.

SDG 2308316: For Batch 41279, a sample from another project was used for the MS/MSD analysis. The MS %R was less than the control limit. The MSD %R was within control. No action was taken based on the single outlier.

SDG 2309081: For Batch 41511, a sample from another project was used for the MS/MSD analysis. The MS/MSD %R values were less than the lower control limit. The RPD was within control limits. No action was taken as qualifiers are only assigned to the parent samples.

SDG 2309211: A sample from another project was used for the MS/MSD analysis. The MS/MSD %R values were greater than the upper control limit. The RPD was within control limits. No action taken for Batch QC.

Laboratory Duplicates

SDG 2309211: A laboratory duplicate was analyzed using a sample from another project. The RPD was greater than the control limit. No action was taken for Batch QC as qualifiers are only assigned to the parent sample.

Field Duplicates

SDG 2308316: Samples R3-SSW-E-88 & R3-DUP-01 were submitted as field duplicates. No target analytes were detected in either sample, field precision was acceptable.

SDG 2309211: Samples R3-B13-78 & R3-DUP-02 were submitted as field duplicates. No target analytes were detected in either sample, field precision was acceptable.

OVERALL ASSESSMENT

As determined by this evaluation, the laboratory followed the specified analytical method. Accuracy was acceptable, as demonstrated by the surrogate, laboratory control sample, and MS/MSD percent recovery values. Precision was also acceptable as demonstrated by the MS/MSD, laboratory duplicate, and field duplicate RPD values.

No data were qualified for any reason. All data, as qualified, are acceptable for use.

DATA VALIDATION REPORT
701 S Jackson St.
Total Metals/Mercury by Method SW6020B
Total Lead by Method SW6020B

This report documents the review of analytical data from the analysis of soil samples and the associated laboratory and field quality control (QC) samples. Samples were analyzed by Fremont Analytical, Seattle, Washington. Refer to the Sample Index for a complete list of samples.

SDG	NUMBER OF SAMPLES	VALIDATION LEVEL
2307302	2 Soil	Stage 2B
2308053	4 Soil (Lead only)	Stage 2B
2308151	12 Soil (Lead only)	Stage 2B
2308299	1 Soil	Stage 2B
2308316	1 Soil	Stage 2B

DATA PACKAGE COMPLETENESS

The laboratory submitted all required deliverables. The laboratory followed adequate corrective action processes and all anomalies were discussed in the case narrative.

EDD TO HARDCOPY VERIFICATION

Sample results and related quality control data were received as an electronic data deliverable (EDD) and laboratory report. The EDD was verified against the laboratory report (10%).

All SDG: The interference check standard and serial dilution summary forms were missing from the laboratory report. The laboratory was contacted and submitted the missing documentation.

TECHNICAL DATA VALIDATION

This report documents the review of analytical QC requirements as listed in the following table.

1	Sample Receipt, Preservation, & Holding Times	2	Matrix Spike/Matrix Spike Duplicates (MS/MSD)
✓	Initial Calibration	✓	Serial Dilutions
✓	Calibration Verification	✓	Interference Check Samples
✓	Reporting Limit Standards	✓	Internal Standards
✓	Laboratory Blanks	2	Field Duplicates
1	Field Blanks	✓	Reporting Limits
✓	Laboratory Control Samples (LCS)	✓	Reported Results

✓ Stated method quality objectives (MQO) and QC criteria have been met. No outliers are noted or discussed.

1 Quality control outliers are discussed below, but no data were qualified.

2 Quality control outliers that impact the reported data were noted. Data qualifiers were issued as discussed below.

Sample Receipt, Preservation, and Holding Times

SDG 2308053: The cooler arrived at the laboratory at a temperature of 29°C. The samples were received at the laboratory the same day as collection; no data was qualified.

SDG 2308316: The cooler arrived at the laboratory at a temperature of 7.0°C. The sample was received at the laboratory the same day as collection; no data was qualified.

Field Blanks

No field blanks were submitted.

Matrix Spike/Matrix Spike Duplicates

Matrix spike/matrix spike duplicate samples (MS/MSD) were analyzed at the proper frequency of one per 20 samples or one per batch for soil samples. If the percent recovery values indicate a potential low bias, associated results are estimated (J/UJ-8L). If the %R values indicate a potential high bias, only the associated positive results are estimated (J-8H). For %R values less than 30%, indicating an extreme low bias, the results for the post digestion spike (PDS) were also evaluated. If the post spike %R values were acceptable, then associated results were estimated (J/UJ-8). For relative percent difference values greater than the control limit of 20%, associated positive results were estimated (J-9).

SDG 2308151: Sample UST3-NSW-93 was used for the MS/MSD analyses. The MS/MSD recoveries for lead were greater than the upper control limit; the associated sample result was estimated (J-8H).

Field Duplicates

A control limit of 50% was used to evaluate the field duplicate RPD for results greater than 5x the reporting limit (RL). For results less than 5x the RL, the difference between the sample and duplicate must be less than 2x the RL.

SDG 2308053: Samples R1-SSW-98 and DUP-R1 were submitted as field duplicates. The difference value for lead was greater than the control limit; the parent and field duplicate results were estimated (J-9).

OVERALL ASSESSMENT

As determined by this evaluation, the laboratory followed the specified analytical methods. With the exceptions noted above, accuracy was acceptable as demonstrated by the laboratory control sample and MS/MSD recoveries and precision was acceptable as demonstrated by the MS/MSD and field duplicate RPD values.

Results were estimated due to MS/MSD recovery outliers and a field duplicate precision outlier.

All data, as qualified, are acceptable for use.



APPENDIX A

DATA QUALIFIER DEFINITIONS REASON CODES AND CRITERIA TABLES

DATA VALIDATION QUALIFIER CODES

Based on National Functional Guidelines

The following definitions provide brief explanations of the qualifiers assigned to results in the data review process.

U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents the approximate concentration.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
R	The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

The following is an EcoChem qualifier that may also be assigned during the data review process:

DNR	Do not report; a more appropriate result is reported from another analysis or dilution.
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DATA QUALIFIER REASON CODES

Group	Code	Reason for Qualification
Sample Handling	1	Improper Sample Handling or Sample Preservation (i.e., headspace, cooler temperature, pH, summa canister pressure); Exceeded Holding Times
Instrument Performance	24	Instrument Performance (i.e., tune, resolution, retention time window, endrin breakdown, lock-mass)
	5A	Initial Calibration (RF, %RSD, r^2)
	5B	Calibration Verification (CCV, CCAL; RF, %D, %R) Use bias flags (H,L) ¹ where appropriate
	5C	Initial Calibration Verification (ICV %D, %R) Use bias flags (H,L) ¹ where appropriate
Blank Contamination	6	Field Blank Contamination (Equipment Rinsate, Trip Blank, etc.)
	7	Lab Blank Contamination (i.e., method blank, instrument blank, etc.) Use low bias flag (L) ¹ for negative instrument blanks
Precision and Accuracy	8	Matrix Spike (MS and/or MSD) Recoveries Use bias flags (H,L) ¹ where appropriate
	9	Precision (all replicates: LCS/LCSD, MS/MSD, Lab Replicate, Field Replicate)
	10	Laboratory Control Sample Recoveries (a.k.a. Blank Spikes) Use bias flags (H,L) ¹ where appropriate
	12	Reference Material Use bias flags (H,L) ¹ where appropriate
	13	Surrogate Spike Recoveries (a.k.a. labeled compounds, recovery standards) Use bias flags (H,L) ¹ where appropriate
Interferences	16	ICP/ICP-MS Serial Dilution Percent Difference
	17	ICP/ICP-MS Interference Check Standard Recovery Use bias flags (H,L) ¹ where appropriate
	19	Internal Standard Performance (i.e., area, retention time, recovery)
	22	Elevated Detection Limit due to Interference (i.e., chemical and/or matrix)
	23	Bias from Matrix Interference (i.e. diphenyl ether, PCB/pesticides)
Identification and Quantitation	2	Chromatographic pattern in sample does not match pattern of calibration standard
	3	2 nd column confirmation (RPD or %D)
	4	Tentatively Identified Compound (TIC) (associated with NJ only)
	20	Calibration Range or Linear Range Exceeded
	25	Compound Identification (i.e., ion ratio, retention time, relative abundance, etc.)
Miscellaneous	11	A more appropriate result is reported (multiple reported analyses i.e., dilutions, re-extractions, etc. Associated with "R" and "DNR" only)
	14	Other (See DV report for details)
	26	Method QC information not provided

¹H = high bias indicated

L = low bias indicated

Volatile Organic Compounds by Gas Chromatography-Mass Spectroscopy (GC-MS)
(Organic NFG 2017 and SW-846 Method 8260D)

QC Element	Acceptance Criteria	Source of Criteria	Action for Non-Conformance	Reason Code	Discussion and Comments
Sample Handling					
Cooler/Storage Temperature Preservation	<6°C Aqueous: HCl to pH < 2	NFG ⁽¹⁾ Method ⁽²⁾	If required by project: J (pos)/UJ (ND) if greater than 6° C	1	Use PJ for temp outliers; see TM20 if pH ≤ 2, reject 2-chloroethyl vinyl ether (R-1) some projects may require methanol or sodium bisulfite preserved soils/seds
Holding Time	Aqueous: 14 Days: preserved 7 Days: unpreserved Solid: 14 Days	NFG ⁽¹⁾ Method ⁽²⁾	J (pos)/UJ (ND) if HT exceeded J (pos)/R (ND) if gross exceedance (> 2x HT)	1	Gross exceedance = > 2x HT, as per 1999 NFG
Instrument Performance					
Tuning	BFB Beginning of each 12 hour period Use method or project acceptance criteria	NFG ⁽¹⁾ Method ⁽²⁾	R (pos/ND) all analytes in all samples associated with the tune	24	
Initial Calibration Sensitivity	Minimum 5 standards RRF ≥ 0.05 except: RRF ≥ 0.01 poor responders * RRF ≥ 0.005 1,4-dioxane	NFG ⁽¹⁾ Method ⁽²⁾	Use PJ to qualify J (pos)/UJ (ND)	5A	TM-06 EcoChem Policy for the Evaluation and Qualification of GCMS Instrument Performance PJ - no action if response is stable (ICAL RSD and CCAL %D acceptable)
Initial Calibration Stability	%RSD ≤ 20% except: %RSD ≤ 40% poor responders * %RSD ≤ 50% 1,4-dioxane	NFG ⁽¹⁾ Method ⁽²⁾	J (pos) if %RSD > limit	5A	
Initial Calibration Verification	Second source analyzed immediately after ICAL %R 70% - 130%	Method ⁽²⁾	J (pos) %R > UCL J (pos)/UJ (ND) %R < LCL	5A (H,L) ⁴	OAPP may have overriding accuracy limits.
Continuing Calibration Sensitivity	RRF ≥ 0.05 except: RRF ≥ 0.01 poor responders * RRF ≥ 0.005 1,4-dioxane	NFG ⁽¹⁾ Method ⁽²⁾	Use PJ to qualify J (pos)/UJ (ND)	5B	see ICAL RRF guidance
Continuing Calibration Stability	%D ≤ 25% except: %D ≤ 40% poor responders * %D ≤ 50% 1,4-dioxane	NFG ⁽¹⁾ Method ⁽²⁾	J (pos) - %D > control limit (high bias) J (pos)/UJ (ND) - %D < -control limit (low bias)	5B (H,L) ⁴	
Blank Contamination					
Method Blank (MB)	MB: One per matrix per batch (of ≤ 20 samples) No detected compounds > MDL ----- No TICs present	NFG ⁽¹⁾ Method ⁽²⁾	U (pos) if result is < 5X or 10X action level ----- R (pos) TICs using 10X rule	7	10X action level for methylene chloride, acetone, & 2-butanone. 5X for all other target analytes Hierarchy of blank review: #1 - Review MB, qualify as needed #2 - Review TB, qualify as needed #3 - Review FB, qualify as needed
Trip Blank (TB)	No detected compounds > MDL	NFG ⁽¹⁾ Method ⁽²⁾	U (pos) if result is < 5X or 10X action level	6	
Field Blank (FB)	No detected compounds > MDL	NFG ⁽¹⁾ Method ⁽³⁾	U (pos) if result is < 5X or 10X action level	6	Note: Actions as per NFG 1999

Volatile Organic Compounds by Gas Chromatography-Mass Spectroscopy (GC-MS)
(Organic NFG 2017 and SW-846 Method 8260D)

QC Element	Acceptance Criteria	Source of Criteria	Action for Non-Conformance	Reason Code	Discussion and Comments
Precision and Accuracy					
LCS/LCSD (recovery)	One per matrix per batch (of ≤ 20 samples) LCSD not required by NFG or method Use method acceptance criteria/laboratory limits	Method ⁽²⁾ EcoChem standard policy	J (pos) if %R > UCL J (pos)/UJ (ND) if %R < LCL J (pos)/R (ND)%R < 10%	10 (H,L) ⁴	No action if only one spike %R is outside criteria when LCSD is analyzed, unless one recovery is <10%. OAPP may have overriding accuracy limits. Qualify all associated samples.
LCS/LCSD RPD	If LCSD analyzed RPD < lab limits	Method ⁽³⁾	J (pos)	9	Qualify all associated samples. OAPP may have overriding precision limits.
Reference Material (RM, SRM, or CRM)	Result ±20% of the 95% confidence interval of the true value for analytes	EcoChem standard policy	J (pos)/UJ (ND) if < LCL J (pos) if > UCL	12 (H,L) ⁴	OAPP may have overriding accuracy limits. Some manufacturers may have different RM control limits
Surrogates	Added to all samples Within method/laboratory control limits	NFG ⁽¹⁾ Method ⁽²⁾	J (pos) if %R >UCL J (pos)/UJ (ND) if %R <LCL J (pos)/R (ND) if <10%	13 (H,L) ⁴	No action if there are 4+ surrogates and only 1 outlier Qualify all compounds if qualification is required.
Internal Standards	Added to all samples Acceptable Range: IS area 50% to 200% of CCAL area RT within 30 seconds of CC RT	NFG ⁽¹⁾ Method ⁽²⁾	J (pos) if > 200% J (pos)/UJ (ND) if < 50% J (pos)/R (ND) if < 25% if RT >30 seconds use PJ	19	Qualify compounds quantified using particular internal standard
MS/MSD (recovery)	One per matrix per batch (of ≤ 20 samples) Use method acceptance criteria/laboratory limits	NFG ⁽¹⁾ Method ⁽²⁾ EcoChem standard policy	J (pos) %R > UCL J (pos)/UJ (ND) if both %R < LCL J (pos)/R (ND) if both %R < 10% J (pos)/UJ (ND) if one > UCL & one < LCL, with no bias	8 (H,L) ⁴	No action if only one spike %R is outside criteria. No action if parent concentration is >4x the amount spiked. Qualify parent sample only.
MS/MSD (RPD)	One per matrix per batch (of ≤ 20 samples) Use method acceptance criteria/laboratory limits	NFG ⁽¹⁾ Method ⁽²⁾	J (pos) if RPD > control limit	9	Qualify parent sample only
Field Duplicates	Solids: RPD < 50% OR difference < 2X RL (for results < 5X RL) Aqueous: RPD < 35% OR difference < 1X RL (for results < 5X RL)	EcoChem standard policy	J (pos)/UJ (ND) Qualify only parent and field duplicate samples	9	Use project limits if specified

Volatile Organic Compounds by Gas Chromatography-Mass Spectroscopy (GC-MS)
(Organic NFG 2017 and SW-846 Method 8260D)

QC Element	Acceptance Criteria	Source of Criteria	Action for Non-Conformance	Reason Code	Discussion and Comments
Compound Identification and Quantitation					
Retention Time Relative Ion Intensities	RRT within 0.06 of standard RRT Ion relative intensity within 20% of standard All ions in std. at > 10% intensity must be present in sample	NFG ⁽¹⁾ Method ⁽²⁾	U (pos) if identification criteria not met	25	
TICs	Major ions (>10%) in reference must be present in sample; intensities agree within 20%; check identification	NFG ⁽¹⁾ Method ⁽²⁾	NJ TIC R (pos) if common laboratory contaminants	4	Common laboratory contaminants: aldol condensation products, solvent preservatives, and reagent contaminants
Calibration Range	Results greater than highest calibration standard	EcoChem standard policy	Qualify J (pos)	20	If result from dilution analysis is not reported.
Dilutions, Re-extractions and/or Reanalyses	Report only one result per analyte	EcoChem standard policy	Use "DNR" to flag results that will not be reported.	11	TM-04 EcoChem Policy for Rejection/Selection Process for Multiple Results

¹ National Functional Guidelines for Organic Data Review, January 2017

(pos): Positive Result

² Method SW846 8260C Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

(ND): Non-detect

NFG suggests using "+ / -" to indicate bias; EcoChem has chosen "H" = high bias indicated; "L" = low bias indicated.

* "Poor responder" compounds: Acetone, 2-butanone, carbon disulfide, chloroethane, chloromethane, cyclohexane, 1,2-dibromoethane, dichlorodifluoromethane, cis-1,2-dichloroethene, 1,2-dichloropropane, 1,2-dibromo-3-chloropropane, 2-hexanone, isopropylbenzene, methyl acetate, methylene chloride, methylcyclohexane, 4-methyl-2-pentanone, methyl tert-butyl ether, trans-1,2-dichloroethene, trichlorofluoromethane, 1,1,2-trichloro-1,2,2-trifluoroethane criterion is 0.010 RRF; 1,4-dioxane RRF criterion is 0.005.

Semivolatile Organic Compounds by Gas Chromatography-Mass Spectroscopy (GC-MS)
(Based on Organic NFG 2017 and SW-846 Method 8270)

QC Element	Acceptance Criteria	Source of Criteria	Action for Non-Conformance	Reason Code	Discussion and Comments
Sample Handling					
Cooler/Storage Temperature Preservation	<6°C sediment/tissues may require storage at -20°C	NFG ⁽¹⁾ Method ⁽²⁾	If required by project: J (pos)/UJ (ND) if greater than 6° C	1	Use PJ for temp outliers; see TM20
Holding Time	Extraction Aqueous: 7 days from collection Extraction Solid: 14 days from collection Analysis (all matrices): 40 days from extraction Extraction Holding Time may be extended to 1 year for frozen sediments/tissues	NFG ⁽¹⁾ Method ⁽²⁾	J (pos)/UJ (ND) if HT exceeded J (pos)/R (ND) if gross exceedance (> 2x HT)	1	Use PJ for Gross Exceedance Gross exceedance = > 2x HT
Instrument Performance					
Tuning	DFTPP Beginning of each 12 hour period Use method criteria	NFG ⁽¹⁾ Method ⁽²⁾	R (pos/ND) all analytes in all samples associated with the tune	24	tune requirement waived if opening CCV passes
Initial Calibration Sensitivity	RRF ≥ 0.05 except: RRF ≥ 0.01 poor responders *	NFG ⁽¹⁾ Method ⁽²⁾	Use PJ to qualify J (pos)/UJ (ND)	5A	TM-06 EcoChem Policy for the Evaluation and Qualification of GCMS Instrument Performance PJ - no action if response is stable (ICAL RSD and CCAL %D acceptable)
Initial Calibration Stability	Minimum 5 standards %RSD ≤ 20.0% except: %RSD ≤ 40.0% poor responders * or co-efficient of determination (r ²) > 0.99	NFG ⁽¹⁾ Method ⁽³⁾	J (pos) if %RSD > limit or r ² value <0.99	5A	
Initial Calibration Verification Check	Prepared from second source; analyze after each ICAL Percent recovery limits = 70-130%	Method ⁽²⁾	J (pos) %R > UCL J (pos)/UJ (ND) %R < LCL	5A (H,L) ⁴	QAPP may have overriding accuracy limits.
Instrument Performance (continued)					
Continuing Calibration Sensitivity	RRF ≥ 0.05 except: RRF ≥ 0.01 poor responders *	NFG ⁽¹⁾ Method ⁽²⁾	Use PJ to qualify J (pos)/UJ (ND)	5B	see ICAL RRF guidance
Continuing Calibration Stability	Prior to sample analysis and every 12 hours %D ≤ 25% except: %D ≤ 40.0% poor responders *	NFG ⁽¹⁾ Method ⁽²⁾	J (pos) - %D > control limit (high bias) J (pos)/UJ (ND) - %D < -control limit (low bias)	5B (H,L) ⁴	

Blank Contamination					
Method Blank (MB)	MB: One per matrix per batch of (of ≤ 20 samples) No detected compounds > MDL	NFG ⁽¹⁾ Method ⁽²⁾	U(pos) if result is < 5X or 10X action level	7	10X action level applies to phthalates only. 5X for all other target analytes Hierarchy of blank review: #1 - Review MB, qualify as needed #2 - Review FB , qualify as needed Note: Actions as per 1999 NFG
	No TICs present		R (pos) TICs using 10X rule	7	
Field Blank (FB)	No detected compounds > MDL	NFG ⁽¹⁾ Method ⁽²⁾	U (pos) if result is < 5X or 10X action level	6	
Precision and Accuracy					
LCS/LCSD (recovery)	One per matrix per batch (of ≤ 20 samples) LCSD not required by NFG or method Use method acceptance criteria/laboratory limits	NFG ⁽¹⁾ Method ⁽²⁾ EcoChem standard policy	J (pos) if %R > UCL J (pos)/UJ (ND) if %R < LCL J (pos)/R (ND)%R < 10%	10 (H,L) ⁴	No action if only one spike %R is outside criteria when LCSD is analyzed, unless one recovery is <10%. IF UCL is < 100% and %R is > UCL but less than 100%, don't qualify for high bias QAPP may have overriding accuracy limits. Qualify all associated samples.
LCS/LCSD (RPD)	If LCSD analyzed RPD < lab limits	Method ⁽²⁾	J (pos)	9	Qualify all associated samples. QAPP may have overriding precision limits.
Precision and Accuracy (continued)					
Reference Material (RM, SRM, or CRM)	Result ±20% of the 95% confidence interval of the true value for analytes	EcoChem standard policy	J (pos)/UJ (ND) if < LCL J (pos) if > UCL	12 (H,L) ⁴	QAPP may have overriding accuracy limits. Some manufacturers have different RM control limits
MS/MSD (recovery)	One per matrix per batch (of ≤ 20 samples) Use method acceptance criteria/laboratory limits	NFG ⁽¹⁾ Method ⁽²⁾ EcoChem standard policy	J (pos) %R > UCL J (pos)/UJ (ND) if both %R < LCL J (pos)/R (ND) if both %R < 10% J (pos)/UJ (ND) if one > UCL & one < LCL, with no bias	8 (H,L) ⁴	No action if only one spike %R is outside criteria. No action if parent concentration is >4x the amount spiked. Qualify parent sample only.
MS/MSD (RPD)	One per matrix per batch (of ≤ 20 samples) Use method acceptance criteria/laboratory limits	NFG ⁽¹⁾ Method ⁽²⁾	J (pos) in parent sample if RPD > CL	9	Qualify parent sample only
Surrogates	Minimum of 3 acid & 3 base/neutral (B/N) compounds added to all samples Within method control limits	NFG ⁽¹⁾ Method ⁽²⁾ EcoChem standard policy	J (pos) if %R > UCL J (pos)/UJ (ND) if %R < LCL J (pos)/R (ND) if %R < 10%	13 (H,L) ⁴	Qualify all compounds in associated fraction. Do not qualify if only 1 acid and/or 1 B/N surrogate is out, unless <10%. If 1 surrogate outlier < 10% then J (pos)/R (ND)

Internal Standards	Added to all samples Acceptable Range: IS area 50% to 200% of CCAL area RT within 30 seconds of CC RT	NFG ⁽¹⁾ Method ⁽²⁾	J (pos) if > 200% J (pos)/UJ (ND) if < 50% J (pos)/R (ND) if < 25% if RT >30 seconds use PJ	19	Qualify compounds quantified using particular internal standard
Field Duplicates	Solids: RPD < 50% OR difference < 2X RL (for results < 5X RL) Aqueous: RPD < 35% OR difference < 1X RL (for results < 5X RL)	EcoChem standard policy	J (pos)/UJ (ND) Qualify only parent and field duplicate samples	9	Use project limits if specified
Compound Identification and Quantitation and Calculation					
Retention times and relative ion intensities	RRT within 0.06 of standard RRT Ion relative intensity within 20% of standard All ions in std. at > 10% intensity must be present in sample	NFG ⁽¹⁾ Method ⁽²⁾	U (pos) if identification criteria not met	25	
TICs	Major ions (>10%) in reference must be present in sample; intensities agree within 20%; check identification	NFG ⁽¹⁾ Method ⁽²⁾	NJ the TIC unless: R (pos) common laboratory contaminants	4	
Calibration Range	Results greater than highest calibration standard	EcoChem standard policy	Qualify J (pos)	20	If result from dilution analysis is not reported.
Dilutions, Re-extractions and/or Reanalyses	Report only one result per analyte	EcoChem standard policy	Use "DNR" to flag results that will not be reported.	11	TM-04 EcoChem Policy for Rejection/Selection Process for Multiple Results

¹ National Functional Guidelines for Organic Data Review, January 2017

² Method SW846 8270 Semivolatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

NFG 2013 suggests using "+ / -" to indicate bias; EcoChem has chosen "H" = high bias indicated; "L" = low bias indicated.

(pos): Positive Result

(ND): Not detected

* "Poor responder" compounds: acetophenone, atrazine, benzaldehyde, 1,1'-biphenyl, bis(2-ethylhexyl)phthalate, butylbenzylphthalate, caprolactam, carbazole, 4-chloroaniline, diethylphthalate, di-n-butylphthalate, 3-3'-dichlorobenzidine, dimethylphthalate, 2,4-dinitrophenol, 4,6-dinitro-2-methylphenol, di-n-octylphthalate, hexachlorobutadiene, hexachlorocyclopentadiene, 2-nitroaniline, 3-nitroaniline, 4-nitroaniline, 4-nitrophenol, N-nitrosodiphenylamine, 2,2'-oxybis-(1-chloropropane), 1,2,4,5-tetrachlorobenzene use a 0.010 RRF criterion.

PCB Aroclors by GC
(Based on Organic NFG 2017 and SW-846 Method 8082A)

QC Element	Acceptance Criteria (NFG)	Source of Criteria	Action for Non-Conformance	Reason Code	Discussion and Comments
Sample Handling					
Cooler/Storage Temperature Preservation	0-6°C Tissue/sediments (may be frozen -20°C)	NFG ⁽¹⁾ Method ⁽²⁾	If required by project: J (pos)/UJ (ND) if greater than 6° C	1	Use Professional Judgment (PJ) to qualify for temperature outlier. Current SW846 criterion is ≤ 6° C ⁽³⁾
Holding Time	Extraction Aqueous: 7 days from collection Extraction Solid: 14 days from collection Extraction Tissue/Sediment (frozen): 1 year Analysis (all matrices): 40 days from extraction	NFG ⁽¹⁾ Method ⁽²⁾	If required by project: J (pos)/UJ (ND) if ext/analyzed > HT	1	Use PJ to qualify for holding times Current SW846 does not have an extraction holding time limit, but recommends one year. ⁽³⁾
Instrument Performance					
Retention Times	Surrogates: TCMX (± 0.05); DCB (± 0.10) Aroclors (± 0.07)	NFG ⁽¹⁾	NJ (pos)/R (ND) results for analytes with RT shifts	24	
Initial Calibration	Minimum 5 point with RSD ≤ 20% OR correlation coefficient (r-value) ≥ 0.995 OR Minimum 6-point with co-efficient of determination (r ² -value) ≥ 0.99	NFG ⁽¹⁾ Method ⁽⁴⁾	J (pos) if %RSD greater than 20% OR r-value < 0.995 OR r ² -value < 0.99	5A	Refer to TM-01 for additional information. Use bias flags (H,L) ⁽⁵⁾ where appropriate
Initial Calibration Verification (ICV)	No NFG criteria. Project specific.	Project	J (pos) if > UCL J (pos)/UJ (ND) if < LCL	5B	Use bias flags (H,L) where appropriate
Continuing Calibration (Prior to each 12 hr. shift)	%D ± 20%	Method ⁽²⁾	If > 20% (high bias): J (pos) If < 20% (low bias): J (pos)/UJ (ND)	5B	Refer to TM-01 for additional information. Use bias flags (H,L) where appropriate
Blank Contamination					
Method Blank (MB)	MB: One per matrix per batch of (of ≤ 20 samples) No detected compounds > RL	NFG ⁽¹⁾ Method ⁽²⁾	U (pos) if result is less than appropriate 5X action level.	7	Hierarchy of blank review: #1 - Review MB and IB, qualify as needed #2 - Review FB, qualify as needed Note: Actions as per NFG 1999 Note: IB not required by method
Field Blank (FB)	FB: frequency as per OAPP No detected compounds > RL	NFG ⁽¹⁾ Method ⁽²⁾	U (pos) if result is less than appropriate 5X action level.	6	
Instrument Blanks (IB)	Analyzed at the beginning and end of every 12 hour sequence No analyte > CRQL	NFG ⁽¹⁾	U (pos) if result is less than appropriate 5X action level.	7	
Precision and Accuracy					
MS/MSD (recovery)	One set per matrix per batch (of ≤ 20 samples) AR1016 and AR1260: %R = 29% - 135%, or project limits	NFG ⁽¹⁾ Method ⁽²⁾ EcoChem Standard Policy	Qualify parent only unless other QC indicates systematic problems. J (pos) if both %R > upper control limit (UCL) J (pos)/UJ (ND) if both %R < lower control limit (LCL) J (pos)/R (ND) if both %R < 10%	8	No action if only one spike %R is outside criteria. No action if native analyte conc. > 5x the amount spiked. Use bias flags (H,L) where appropriate. Actions apply to all Aroclors in parent sample.

PCB Aroclors by GC
(Based on Organic NFG 2017 and SW-846 Method 8082A)

QC Element	Acceptance Criteria (NFG)	Source of Criteria	Action for Non-Conformance	Reason Code	Discussion and Comments
Precision and Accuracy					
MS/MSD (RPD)	One set per matrix per batch (of ≤ 20 samples) AR1016: RPD < 15%, AR1260: RPD < 20% or project limits	NFG ⁽¹⁾ Method ⁽²⁾	Qualify parent only unless other QC indicates systematic problems. J (pos) if RPD > control limit	9	No action if parent is ND.
LCS	One per lab batch (of ≤ 20 samples) AR1016 and AR1260: %R = 50% - 150%, or project limits	NFG ⁽¹⁾ EcoChem Standard Policy	J (pos) if %R > UCL J (pos)/UJ (ND) if %R < LCL J (pos)/R (ND) if %R < 10%	10	Use bias flags (H,L) where appropriate. Actions apply to all Aroclors in associated samples.
LCS/LCSD (RPD)	if analyzed use MS/MSD RPD criteria	NFG ⁽¹⁾	J (pos) assoc. compound in all samples	9	LCSD not required by method or NFG
Surrogates	TCMX and DCBP added to every sample %R = 30% - 150% or project limits	NFG ⁽¹⁾ Method ⁽²⁾	J (pos) if either %R > UCL J (pos)/UJ (ND) if either %R < LCL J (pos)/R (ND) if either %R < 10%	13	If %R < 10% (sample dilution is a factor), use PJ Use bias flags (H,L) where appropriate
Internal Standards (if used)	Acceptable Range: IS area = 50% to 200% of CCAL area RT within 30 seconds of CC RT	Method ⁽²⁾	J (pos) if area > 200% J (pos)/UJ (ND) if area < 50% J (pos)/R (ND) if area < 25% RT > 30 seconds, narrate	19	
Field Duplicates	Solids: RPD < 50% OR difference < 2X RL (for results < 5X RL) Aqueous: RPD < 35% OR difference < 1X RL (for results < 5X RL)	EcoChem Standard Policy	J (pos)/UJ (ND) Qualify only parent and field duplicate samples	9	OAPP may have overriding limits
Compound Identification/Quantification					
Quantitation/ Identification	Between two columns: RPD < 40% or %D < 25% Within Retention Time Windows on both columns.	NFG ⁽¹⁾ Method ⁽²⁾	J (pos) if RPD = 40% - 60% (25% - 60% for %D) NJ (pos) if > 60% R (pos) if RTW criterion not met	3	See TM-08 for additional info.
Calibration Range	on column concentration < high calibration standard	NFG ⁽¹⁾ Method ⁽²⁾	J (pos) if conc > high standard and sample was not diluted	20	
Dilutions, Re-extractions and/or Reanalyses	Report only one result per analyte	Standard reporting policy	Use "DNR" to flag results that will not be reported.	11	TM-04 Rev. 1 for additional info.
Sample Clean-up					
GPC/Sulfur/ Florisil/Acid	No criteria - cleanups are optional	NFG ⁽¹⁾ Method ⁽²⁾	Use Professional Judgment	14	special cleanups may be required for project cleanup standards may be associated with GPC/florisil cleanups

¹ National Functional Guidelines for Organic Data Review, January 2017² Polychlorinated Biphenyls (PCBs) by Gas Chromatography USEPA Method SW846 8082A, Feb 2007, Rev. 1³ SW846, Chapter 4, Organic Analytes⁴ Determinative Chromatographic Separations, Method 8000C, March 2003, Rev.3⁵ "H" = high bias indicated; "L" = low bias indicated

(pos): Positive Result

(ND): Not detected

Metals by ICP-MS
(Based on Inorganic NFG 2017 and SW-846 6020B)

QC Element	EcoChem Acceptance Criteria	Source of Criteria	EcoChem Action for Non-Conformance	Reason Code	Discussion and Comments
Sample Handling					
Cooler / Storage Temperature Preservation	Solid: Cooler temperature $\leq 6^{\circ}\text{C}$ Aqueous: Nitric Acid to pH < 2 Dissolved Metals: 0.45 μm filter, preserve to pH < 2 after filtration	NFG ⁽¹⁾ Method ⁽²⁾	Cooler Temps: If required by project J (pos)/UJ (ND) if greater than 6°C Aqueous: J (pos)/UJ (ND) if pH > 2	1	Use PJ to qualify for temperature outlier. No quals for pH if samples preserved by lab upon receipt and within 1 day of collection.
Holding Time	All matrices: 180 days from date sampled Frozen soils, sediments, tissues (-20°C) - HT extended to 1 year	NFG ⁽¹⁾ Method ⁽²⁾ EcoChem standard policy	J (pos)/UJ (ND) if holding time exceeded	1	Use PJ for gross exceedences (>2x HT)
Instrument Performance					
Tune	Analyzed prior to ICAL Mass Cal < 0.1 amu difference from target mass Peak Resolution < 0.9 amu @ 10% peak height	NFG ⁽¹⁾ Method ⁽²⁾	J(pos)/UJ(ND) if tune criteria not met	5A	Use PJ to evaluate tune. Alternate Resolution criteria may apply based on instrument specs (i.e <0.75 amu at 5% peak height)
Initial Calibration (ICAL)	Based on instrument requirements, blank + 1 standard minimum requirement for calibration If more than 1 standard used, $r \geq 0.995$	NFG ⁽¹⁾ Method ⁽²⁾	J (pos)/UJ (ND) if $r < 0.995$	5A	
Initial Calibration Verification (ICV)	Independent source analyzed immediately after calibration %R within $\pm 10\%$ of true value	NFG ⁽¹⁾ Method ⁽²⁾	R (pos/ND) if %R < 75% J (pos)/UJ (ND) if %R 75% - 89% J (pos) if %R >111%	5A (H,L) ³	Qualify all samples in run
Reporting Limit (RL) Standard Low Level ICV/CCV	concentration at RL %R = 80%-120%	Method ⁽²⁾	J (pos) < 2x RL / R (ND) if %R <50% J (pos) < 2x RL / UJ (ND) if %R 50 - 79% J (pos) < 2x RL if %R > 120%	5A (H,L) ³	for ICVL, qualify all samples in run for CCVL, qualify bracketed samples
Continuing Calibration Verification (CCV)	Immediately following ICV/ICB, then every two hours or ten samples, and at end of run. %R within $\pm 10\%$ of true value	NFG ⁽¹⁾ Method ⁽²⁾	R (pos/ND) if %R < 75% J (pos)/UJ (ND) if %R 75% - 89% J (pos) if %R >111%	5B (H,L) ³	Qualify samples bracketed by CCV outliers
Interference Check Samples (ICSA / ICSAB)	ICSAB %R 80% - 120% for all spiked elements ICSA < MDL for all unspiked elements	NFG ⁽¹⁾ Method ⁽²⁾	For samples with interfering elements > ICS levels: ICSAB: J (pos)/R (ND) if %R < 50% J (pos)/UJ (ND) if %R = 50% - 79% J (pos) if %R > 120% ICSA: J (pos) < 2x RL/UJ (ND) for ICSA < Neg MDL J (pos) < 2x RL for ICSA > MDL	17 (H,L) ³	Method may only require ICSA (or SIC) Use PJ and molecular interferences to evaluate ICSA to determine if bias is present. Due to low levels of some target analytes in the supplier stock solutions, there may be a true value for some unspike analytes in the ICSA Refer to TM-14 for additional information.
Spectral Interference Check (SIC)	Interferents: Al, Ca, Fe, Mg, Na P, K, S, C, Cl, Mo, Ti daily SIC - unspiked analytes < +/- 2x LOQ	NFG ⁽¹⁾ Method ⁽²⁾	For samples with Interfering elements > SIC levels: J (pos) < 2x SIC/UJ (ND) for SIC < Neg 2x LOQ J (pos) < 2x SIC for SIC > 2x LOQ	17 (H,L) ³	Use PJ and molecular interferences (Table 1 in method) to evaluate SIC to determine if bias is present. Refer to TM-14 for additional information.

EcoChem Validation Guidelines for Total Petroleum Hydrocarbons-Diesel & Residual Range
(Based on EPA National Functional Guidelines as applied to criteria in NWTPH-Dx)

QC Element	Acceptance Criteria	Source of Criteria	Action for Non-Conformance	Reason Code
Sample Handling				
Cooler/Storage Temperature Preservation	Temp: 0-6°C Water: HCl to pH < 2	Method (2)	J(+)/UJ(-) if greater than 6 deg. C	1
Holding Time	Ext. Waters: 14 days preserved 7 days unpreserved Ext. Solids: 14 Days Analysis: 40 days from extraction	Method (2)	J(+)/UJ(-) if hold times exceeded J(+)/R(-) if exceeded > 3X (EcoChem PJ)	1
Instrument Performance				
Initial Calibration	5 calibration points (All within 15% of true value) Linear Regression: $R^2 \geq 0.990$ If used, RSD of response factors $\leq 20\%$	Method (2)	Narrate if fewer than 5 calibration levels or if %R > 15% J(+)/UJ(-) if $R^2 < 0.990$ J(+)/UJ(-) if %RSD > 20%	5A
Mid-range Calibration Check Std.	Analyzed before and after each analysis shift & every 20 samples. Recovery range 85% to 115%	Method (2)	Narrate if frequency not met. J(+)/UJ(-) if %R < 85% J(+) if %R > 115%	5B
Blanks				
Method Blank	At least one per batch (≤ 20 samples) No results > RL	Method (2)	If blank > MDL, U(pos) if sample result is < 5X blank result.	7
Field Blanks (if required by project)	No results > MDL	EcoChem standard policy	Action is same as method blank for positive results remaining in the field blank after method blank qualifiers are assigned.	6
Precision and Accuracy				
Matrix Spike/ Matrix Spike Duplicates (MS/MSD)	%R within lab control limits	EcoChem standard policy	Qualify parent only, unless other QC indicates systematic problems. J(+) if both %R > upper control limit (UCL) J(+)/UJ(-) if both %R < lower control limit (LCL) No action if parent conc. > 5X the amount spiked. Use PJ if only one %R outlier	8

EcoChem Validation Guidelines for Total Petroleum Hydrocarbons-Diesel & Residual Range
(Based on EPA National Functional Guidelines as applied to criteria in NWTPH-Dx)

QC Element	Acceptance Criteria	Source of Criteria	Action for Non-Conformance	Reason Code
Precision: MS/MSD or LCS/LCSD or sample/dup	At least one set per batch (≤ 10 samples) RPD \leq lab control limit		J(+) if RPD > lab control limits	9
LCS (not required by method)	%R within lab control limits		J(+)/UJ(-) if %R < LCL J(+) if %R > UCL J(+)/R(-) if any %R < 10% (EcoChem PJ)	10
Surrogates	2-fluorobiphenyl, p-terphenyl, o-terphenyl, and/or pentacosane added to all samples (inc. QC samples). %R = 50-150%	NFG ⁽¹⁾ Method ⁽²⁾	J(+)/UJ(-) if %R < LCL J(+) if %R > UCL J(+)/R(-) if any %R < 10% No action if 2 or more surrogates are used, and only one is outside control limits. (EcoChem PJ)	13
Field Duplicates	Use project control limits, if stated in QAPP EcoChem default: water: RPD < 35% solids: RPD < 50%	EcoChem standard policy	Narrate (Use Professional Judgement to qualify)	9
Two analyses for one sample (dilution)	Report only one result per analyte		"DNR" (or client requested qualifier) all results that should not be reported. (See TM-04)	11

Metals by ICP-MS
(Based on Inorganic NFG 2017 and SW-846 6020B)

QC Element	EcoChem Acceptance Criteria	Source of Criteria	EcoChem Action for Non-Conformance	Reason Code	Discussion and Comments
Blank Contamination					
Method Blank (MB)	One per matrix per batch of (of ≤ 20 samples) Blank conc < MDL	NFG ⁽¹⁾ Method ⁽²⁾	U (pos) if result is < 5X method blank concentration	7	Refer to TM-02 for additional information. Blank Evaluation based on NFG 1994
Instrument Blanks (ICB/CCB)	After each ICV & CCV blank concentration < MDL	NFG ⁽¹⁾ Method ⁽²⁾	Action level is 5x absolute value of blank conc. For positive blanks: U (pos) results < action level For negative blanks: J (pos)/UJ (ND) results < action level	Pos Blks: 7 Neg Blks: 7L ³	Use blanks bracketing samples for Qualification Refer to TM-02 for additional information. Hierarchy of blank review: #1 - Review MB, qualify as needed #2 - Review IB, qualify as needed #3 - Review FB, qualify as needed
Field Blank (FB)	Blank conc < MDL	EcoChem standard policy	U (pos) if result is < 5x action level, as per analyte.	6	Qualify in associated field samples only. Refer to TM-02 for additional information.
Precision and Accuracy					
Internal Standards (IS)	Added to all samples. All analytes must be associated with an internal standard %R > 30% compared to cal blank IS	NFG ⁽¹⁾ Method ⁽²⁾	J(pos)/UJ(ND) all analytes associated with IS outlier	19	NFG criteria 65%-125%
LCS (recovery)	One per matrix per batch (of ≤ 20 samples); LCSD not required %R between 80-120%	Method ⁽²⁾	J (pos)/R (ND) if %R < 50% J (pos)/UJ (ND) if %R 50% - 79% J (pos) if %R > 120%	10 (H,L) ³	Qualify all samples in batch QAPP may have overriding accuracy limits. NFG Limits 70% -130%
LCS/LCSD (RPD)	LCSD not required, if analyzed: RPD ≤ 20%	Method ⁽²⁾	J (pos)/UJ (ND) if RPD > 20%	9	Qualify all samples in batch QAPP may have overriding precision limits.
MS/MSD (recovery)	One per matrix per batch (of ≤ 20 samples); MSD not required %R between 75-125%	NFG ⁽¹⁾ Method ⁽²⁾	J (pos) if %R > 125% J (pos)/UJ (ND) if %R < 75% J (pos)/R (ND) if %R < 30%, unless post digestion spike analyzed, J (pos)/UJ (ND) if post digestion spike %R OK	8 (H,L) ³	No action if only one spike %R is outside criteria. NA if parent concentration >4x the amount spiked. Qualify all samples in batch. QAPP may have overriding accuracy limits.
MS/MSD (RPD)	MSD not required, if analyzed: RPD ≤ 20%	NFG ⁽¹⁾ Method ⁽²⁾	J (pos)/UJ (ND) if RPD > 20%	9	QAPP may have overriding precision limits.
Post Digestion Spikes	If MS is outside 75-125%, post-spike should be analyzed %R 75%-125%	NFG ⁽¹⁾ Method ⁽²⁾	Only used to support MS qualification decisions	NA	No qualifiers assigned based solely on this element.
Laboratory Duplicate	One per matrix per batch (of ≤ 20 samples) RPD ≤ 20% for results ≥ 5x RL Solids: difference < 2X RL for results < 5X RL Aqueous: difference < 1X RL for results < 5X RL	NFG ⁽¹⁾ Method ⁽²⁾	J (pos)/UJ (ND) if RPD > 20% or if difference > control limit	9	Qualify all samples in batch. QAPP may have overriding precision limits.

Metals by ICP-MS
(Based on Inorganic NFG 2017 and SW-846 6020B)

QC Element	EcoChem Acceptance Criteria	Source of Criteria	EcoChem Action for Non-Conformance	Reason Code	Discussion and Comments
Reference Material (RM, SRM, or CRM)	Result ±20% of the 95% confidence interval of the true value for analytes	EcoChem standard policy	J (pos)/UJ (ND) if < LCL J (pos) if > UCL	12 (H,L) ³	OAPP may have overriding accuracy limits. Some manufacturers may have different RM control limits
Serial Dilution	Analyze one sample per matrix at a 5x dilution %D <20% for original sample conc. > 25X LLOQ (RL)	Method ⁽²⁾	J(pos)/UJ(ND) if %D > 20%	16	Note: make sure comparing like units for soils samples Qualify all samples in batch. NFG stil uses 10% D for results >50x MDL
Field Duplicate	Solids: RPD <50% OR difference < 2X RL (for results < 5X RL) Aqueous: RPD <35% OR difference < 1X RL (for results < 5X RL)	EcoChem standard policy	Narrate and qualify if required by project (EcoChem PJ) Qualify only field duplicate samples J(pos)/UJ(ND)	9	OAPP may have overriding precision limits.
Compound Quantitation					
Total and Dissolved Comparison	Total > Dissolved	EcoChem standard policy	J (pos)/UJ (ND) if Dissolved > Total and results fall outside of standard duplicate precision criteria	14	
Calibration Range	Results < instrument linear range	NFG ⁽¹⁾ Method ⁽²⁾	if result exceeds linear range and sample was not diluted J (pos)	20	
Dilutions, Re-extractions and/or Reanalyses	Report only one result per analyte	EcoChem standard policy	Use "DNR" to flag results that will not be reported.	11	TM-04 EcoChem Policy for Rejection/Selection Process for Multiple Results

¹ National Functional Guidelines for Inorganic Superfund Data Review (2017)

² Method SW846 6020B Inductively Coupled Plasma-Mass Spectrometry (ICP-MS), Revision 2, July 2014.

³ "H" = high bias indicated; "L" = low bias indicated

⁴ SW846, Chapter 3, Inorganic Analytes

(pos): Positive Result

(ND): Not detected



APPENDIX B

QUALIFIED DATA SUMMARY TABLE

Qualified Data Summary Table

701 S Jackson St.

SDG	Sample ID	Lab ID	Method	Analyte	Result	Units	Lab Flag	DV Qualifier	DV Reason
2308151	UST3-B-90	2308151-009B	SW8260D	1,1,2,2-Tetrachloroethane	0.222	MG/KG	U	UJ	5BL
2308151	UST3-NSW-93	2308151-006A	SW6020B	Lead	5.53	MG/KG		J	8H
2308151	UST2-NSW-93	2308151-002A	SW8270ESIM	Benz(a)anthracene	22.2	UG/KG	U	UJ	8L
2308151	UST3-NSW-93	2308151-006B	SW8260D	1,1,2,2-Tetrachloroethane	0.239	MG/KG	U	UJ	5BL
2308151	UST3-WSW-93	2308151-008B	SW8260D	1,1,2,2-Tetrachloroethane	0.204	MG/KG	U	UJ	5BL
2308151	UST4-B-90	2308151-012B	SW8260D	1,1,2,2-Tetrachloroethane	0.229	MG/KG	U	UJ	5BL
2308151	UST4-NSW-93	2308151-010B	SW8260D	1,1,2,2-Tetrachloroethane	0.206	MG/KG	U	UJ	5BL
2308151	UST4-SSW-93	2308151-011B	SW8260D	1,1,2,2-Tetrachloroethane	0.217	MG/KG	U	UJ	5BL
2308053	DUP-R1	2308053-004A	SW6020B	Lead	1.69	MG/KG		J	9
2308053	R1-SSW-98	2308053-003A	SW6020B	Lead	3.74	MG/KG		J	9

APPENDIX F
Report Limitations and Guidelines for Use

APPENDIX F REPORT LIMITATIONS AND GUIDELINES FOR USE³

This appendix provides information to help you manage your risks with respect to the use of this report.

Read These Provisions Closely

Some clients, design professionals and contractors may not recognize that the geoscience practices (geotechnical engineering, geology and environmental science) are far less exact than other engineering and natural science disciplines. This lack of understanding can create unrealistic expectations that could lead to disappointments, claims and disputes. GeoEngineers includes these explanatory “limitations” provisions in our reports to help reduce such risks. Please confer with GeoEngineers if you are unclear how these “Report Limitations and Guidelines for Use” apply to your project or site.

Environmental Services Are Performed for Specific Purposes, Persons and Projects

This report has been prepared for the exclusive use of 701 S Jackson Partners, LLC (South Jackson Partners) and their authorized agents. This report is not intended for use by others, and the information contained herein is not applicable to other sites.

GeoEngineers structures our services to meet the specific needs of our clients. For example, an environmental site assessment or remedial action study conducted for a property owner may not fulfill the needs of a prospective purchaser of the same property. Because each environmental study is unique, each environmental report is unique, prepared solely for the specific client and project site. No one except the South Jackson Partners should rely on this plan without first conferring with GeoEngineers. This report should not be applied for any purpose or project except the one originally contemplated.

This Environmental Report Is Based on a Unique Set of Project-Specific Factors

GeoEngineers considered a number of unique, project-specific factors when establishing the scope of services for this project and report. Unless GeoEngineers specifically indicates otherwise, do not rely on this report if it was:

- Not prepared for you,
- Not prepared for your project,
- Not prepared for the specific site explored, or
- Completed before important project changes were made.

If important changes are made after the date of this remedial action plan, GeoEngineers should be given the opportunity to review our interpretations and recommendations and provide written modifications or confirmation, as appropriate.

³ Developed based on material provided by GBA, The GeoProfessional Business Association.

Reliance Conditions for Third Parties

No third party may rely on the product of our services unless GeoEngineers agrees in advance, and in writing to such reliance. This is to provide our firm with reasonable protection against open-ended liability claims by third parties with whom there would otherwise be no contractual limits to their actions.

Environmental Regulations Are Always Evolving

Some substances may be present in the site vicinity in quantities or under conditions that may have led, or may lead, to contamination of the subject site, but are not included in current local, state or federal regulatory definitions of hazardous substances or do not otherwise present current potential liability. GeoEngineers cannot be responsible if the standards for appropriate inquiry, or regulatory definitions of hazardous substance, change or if more stringent environmental standards are developed in the future.

Subsurface Conditions Can Change

This report is based on conditions that existed at the time our site studies were performed. The findings and conclusions of this report may be affected by the passage of time, by manmade events such as construction on or adjacent to the site, by new releases of hazardous substances, or by natural events such as floods, earthquakes, slope instability or groundwater fluctuations. Always contact GeoEngineers before applying this report to determine if it is still applicable.

Soil and Groundwater End-Use

The cleanup levels referenced in this report are site- and situation-specific. The cleanup levels may not be applicable for other sites or for other on-Site uses of the affected media (soil and/or groundwater). Note that hazardous substances may be present in some of the Property soil and/or groundwater at detectable concentrations that are less than the referenced cleanup levels. GeoEngineers should be contacted prior to the export of soil or groundwater from the Property or reuse of the affected media on the Property to evaluate the potential for associated environmental liabilities. We cannot be responsible for potential environmental liability arising out of the transfer of soil and/or groundwater from the Property to another location or its reuse on the Property in instances that we were not aware of or could not control.

Biological Pollutants

GeoEngineers' Scope of Work specifically excludes the investigation, detection, prevention or assessment of the presence of Biological Pollutants. Accordingly, this report does not include any interpretations, recommendations, findings, or conclusions regarding the detecting, assessing, preventing or abating of Biological Pollutants and no conclusions or inferences should be drawn regarding Biological Pollutants, as they may relate to this project. The term "Biological Pollutants" includes, but is not limited to, molds, fungi, spores, bacteria, and viruses, and/or any of their byproducts.

If Client desires these specialized services, they should be obtained from a consultant who offers services in this specialized field.